and

Present

The Rocketry Index

A “Catalog” of all the hobby rockets... ever!

(or at least as many as I could manage!)

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Introductory Materials

What Is “The Rocketry Index?”

In 1975, my mother wanted for me to do well in 6th grade. She resorted to the tried and true expedient of bribery. A scale was set up whereby a “C” would earn nothing at all. A “B” would earn a modest but worthwhile reward. An “A” would help to make the dreams of childhood avarice come true but there was a catch. A “D” would subtract a healthy sum from the total and, heaven forbid, an “F” meant the forfeiture of everything!

She had my attention.

There was a chemistry set that I wanted very, very badly. I did well enough in school that semester that my dreams seemed on the brink of realization. I got 7 “A’s” and a “B”. Mom was impressed but, more important to me, I would soon be on the way towards being the first sixth grader ever to win a Nobel Prize for chemistry.

Although I did not know his name at the time, somebody by the name of Lee Piester messed all of those grandiose plans up.

When the day came for Mom to take me to the mall to buy my chemistry set, I could hardly contain my excitement. “Are we there yet?” took on a more sinister meaning than ever before in Mom’s mind. I has to wait while she went to *her* stores and got what she needed. How many black shoes does a mother have to try on before she finds the “right” ones?!

Finally, we wandered too close to The Toy Box and there was no stopping me. I rushed in, followed by Mom and headed straight to the back where the neat stuff like chemistry sets were kept. When I got there, I learned that tragedy had struck. They were sold out of the one I *had* to have. My youthful illusions about the inherent justice of the world were cruelly shattered!

I think Mom actually felt sorrow for me. She reminded me that there was no rule that said I had to buy a chemistry set. I could get something else. I said, “no.” I would wait.

I think Mom was proud that I had somehow come up with the concept of “delayed gratification.” Then it was my turn to dash her illusions.

On the way out of the store, I set my eyes upon the Centuri Eagle Power Launch Set and I was mystified. I had never heard of model rockets but I had been a fan of the Apollo program and was heartbroken when it was cancelled. Now, I was seeing a rocket that looked like it was meant for me and they claimed it would really fly!

All thoughts of chemistry fled my mind. I had to have the rocket set. Mom asked some probing questions and was assured that model rocketry was indeed safe. Mom’s next big problem was to keep me from ripping the box open util we got home. We compromised. I did not rip anything but I did peek.

The rocket contained in the set was called the Screaming Eagle. It did not take very long to put together but fate was against me and I had neither a lantern battery nor any daylight left in which to try to fly it. As a consolation prize, I had all night to study the exiciting catalog Centuri had thoughtfully included in the set. I had better keep my grades up because there were lots of rockets I had to have.

The next day Mom took me to get the battery and I headed off to the elementary school to enroll in the astronaut corps.

The first flight went well. After that, they became more problematical. Looking back, I can see many reasons for the problems, almost all of which stemmed from me, the impatient rocketeer.

I was hooked. For the next few years nothing mattered except rockets. I learned to my delight that there were two rocket companies and Estes had some pretty cool designs as well. Everywhere I went, I took my catalogs with me. They were the inspiration for future adventures, never mind that a great number of my past ones had not turned out too well.

So it went until, in high school, I was distracted by other things. Most of those other things had the same infuriating problems picking out shoes that Mom had but it was much more enjoyable to watch them do it for some reason.

My rocket stuff eventually got tossed out and I only seldom thought about it but I did, on occasion, think back to the images of the cool rockets I never built.

In the early nineties, I found rocketry again. I had never heard of anything bigger than a “D” motor as a kid but I saw some rockets in the local hobby shop that surely could not be boosted even by the Mighty D. The salesman showed me a copy of a magazine devoted to High Power Rocketry... Wow!

Soon, I had bought several smaller kits, just to “get back into shape”, and something from a company I had never heard of: LOC/Precision. I was saddened to learn that Centuri was no more but there were a few other companies in the mix. I left with an assortment of catalogs.

I built several low power rockets, a mid power and launched a single H. It was the wrong time of life, though. I was working as an engineer, going to school and working on another degree and family matters were not exactly rocket-friendly either. I cared for my elderly and sick mother and, suddenly, I found myself caring for my sister’s three children as well.

Regretfully, I put away the rocket stuff. It was for kids and I had adult responsibilities.

Still, there were some great looking rockets I wish I had built!

In 2006, I had left engineering and was a United Methodist pastor. Much to my surprise, I was also a newly-minted bridegroom. Along with SHE WHO MUST BE OBEYED, came two step-children, both teenagers.

I wanted to find something to do with my step-son. I thought we might try to build a model railroad. Trains had also fascinated me as a child and it seemed like it would be fun. I took Bobby to the hobby shop and we looked around for a while. I was excited about the trains but Bobby was... ambivalent, in the manner only a teenager can be. On the way out, though, something caught his eye. He had seen a LOC Graduator and asked some questions about it. He seemed interested so I bought it. Bobby also chose an Estes 220 Swift.

We built the rockets and he seemed to find them slightly amusing but my reaction was much different. I was engrossed.

I was older. I had more time. I had more money. I had the earlier memories. I had the Internet to see what else was out there...and I could not believe how many manufacturers there were! I had

eBay where I could sometimes find “the ones that got away” in childhood.

I was well and truly hooked.

This time around, things were different. I did not have many catalogs...except for all those I found on Ninfinger.com. Then I found EMRR...and YORF...and TRF...and JimZ...

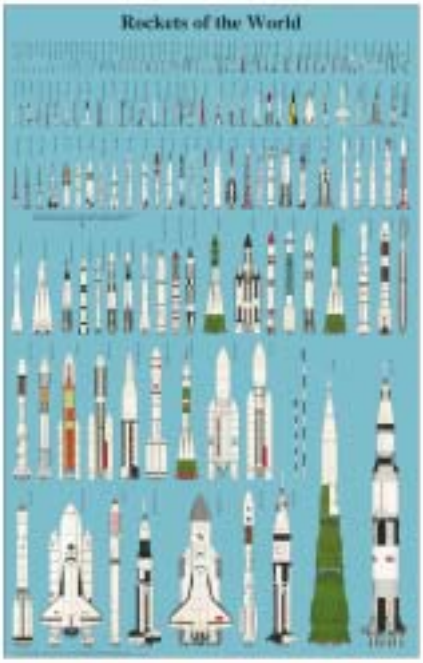
I had a goal. I was going to build and fly one of EVERYTHING...from EVERY COMPANY.

I knew I was doomed to failure but what a spectacular failure it would be!

I forgot that pastors do not make as much as engineers.

In time, I started working with the crew at TRF (The Rocketry Forum). One of my responsibilities was to maintain the “Gallery” section, where people post pictures of their fleets. As I tried to keep the galleries organized, I turned more and more to the catalogs I found online. I learned about even more companies I had never heard of... some of which had existed when I was a kid!

Slowly, I decided that I wanted to gather some of what I had learned into a single source.



I lamented that many of the modern manufacturers do not issue catalogs. They rely instead on web ads. When those are gone, they are gone.

I decided to try and put together an index of all of those rockets that I will probably never build. I want to include ***ALL OF THEM!***

This goal too is doomed to failure. It is doomed but I can come much closer to success than in the other one. Thus was begun *The Rocket Index*.

What is *The Rocket Index*?

It is a catalog. It is a collection of the information put out by the manufacturers to sell their wares. I am not trying to sell anything. I just wanted to be able to see all of it in its splendor.

This is a reference work. It may be of some limited use to some who are looking for information about a rocket. I hope it will be. Whether it is or not, though, it is a labor of love...for the ones that got away.

What Gets Included With the Rockets

Did you notice that word up above a few paragraphs back? Everything!

Well, that’s a bit of an exaggeration but I’m going to be as “all-inclusive” as I can.

To qualify for the index, a rocket has to have been offered to the general public. That includes kits but also emcompasses quite a bit more. Plans that have been offered publicly are included as well as some cardstock models.

I am not going to include sceatch built, one-of-a-kinds. Don’t expect me to come knocking at your door to inventory your collection,

Also not included, at least for now, are things such as ground support and motors. I figure I've bitten off enough to be chewing without adding that stuff into the mix.

As to what gets included within each entry, that also depends. The goal is to make each entry very much like a "catalog". That means that, when available, data such as size and weight, years of production, designer, motor mounts, recovery and such will be given in tabular form.

When possible, I am going to include at least one "blurb" from the manufacturer. Sometimes this will be transcribed from a catalog, sometimes it will be cut and pasted from their website. When more than a single blurb is included, it is because the text has materially changed.

Next come the "livery" shots. By "livery" I mean the way the manufacturer imagines the model. People are free, of course, to finish their own rockets how they see fit. What I am including is the "official" version.

In some cases, the manufacturer's livery changes over time. The Estes Big Bertha does not look now like it was presented in 1965 and has changed several times. Even as this is written, Estes has apparently changed the livery for the Bertha back to one similar to a scheme they used for a short period in the 1980s after having been stable for most of the 90s and 2000s. I plan to include images from each catalog published.

Sometimes the livery remains the same and just the background changes. In these cases I am opting for inclusion. The same paint job can present itself differently against differing backgrounds. If I perceive a change, I am including it. If a catalog year is omitted, it is either because I do not have access to the catalog or there was no change from the previous version I did include.

In this day and age, many companies do not issue catalogs at all. All of their advertising comes from the internet. Following the Catalog Liveries, will be a section on Web Liveries. I will follow the same rationale in choosing which to include. Of course, some companies were long defunct before the advent of the internet. Naturally, those companies will have no representation in this section.

Rockets appear in advertisements in a wide variety of circumstances and orientations. For this document, I am "normalizing" each of the included images. That meams that they will be rotated so that the rocket is oriented vertically. Also, I have used Photoshop to remove the text of ads. Unfortunately, text sometimes impinges upong the rocket itself. These cases vary in their treatment depending upon the difficulty and my own lack of skill. All images are also normalized to the same dimension vertically.

I am also including an image section of "facecards", using the term rather loosely here. In this context, "facecard" can mean the actual card with the pretty picture that is displayed at the front of the traditional hanging bag. Some rockets do not come in hanging plastic bags, however, and are found in boxes. In that case, the scan of the box front is used... unless it is a plain, unmarked box. For some kits, the cover of the instruction sheet serves as the facecard and are treated as such here. Plans, strictly speaking, are not kits and consist of only the "plan". Often, though, the first page of the plan is graphically equivalent to a facecard and is used as such here.

If your get the impression that it is all rather vague and that I am "making it up as I go along", you are getting it correctly.

Another element that may or may not be included with each particular rocket is a series of personal observations and reflections about a particular model. These paragraphs are solicited from people familiar with that model. They are *not* of the form, "I had one when I was a kid and it was really cool!". Instead, they are meant to be descriptive and informative, a user's perspective instead of the company's sales perspective.

What Gets Included With the Companies

Company Information

This document is broken into sections based upon the companies that produced the rocket. All of the Estes products are to be found in the Estes section. Likewise for the others. At the beginning of each section, though, will appear some information about the companies themselves.

To start off with, basic data such as address, phone number, internet URL, etc. are provided. This will usually be followed by a statement from the company telling who they are in their own words. These statements are, of course, PR pieces and vary widely in terms of style and extent. The company statements will be followed, on occasion, by brief synopses from rocketeers familiar with the companies as customers.

Company Statement

A company's website often has a statement describing who they are and what they do. These statements vary tremendously from company to company and not all companies have them. For those that do, I have tried to include them. This, of course, pre-supposes that the company has been extant in the era of the internet.

Rocketeers' Views of the Companies

I have solicited statements from rocket builders and flyers about companies they are deeply familiar with. These too can vary widely but what I have requested is a description of the niche that the company fulfils within the hobby rocketry universe. Some companies have particular strengths or are well known for particular product lines. It is my hope that this time of information is revealed here.

These "Rocketeer's Views" are meant to tell the public perception of the place the company holds. Some may dwell on the customer service aspects and others on the general offerings. Maybe one particular company is well reguarded for having a distinct and unique line of some particular product. What is written is up to the one doing the writing...who will seldom be me!

Also possible is some chastisement of the company. It was not and is not an intention of mine to provide a forum for gripes but somethimes they will have a place here in a factual statement. An example might be, "Company X may be difficult to deal with because of XXXXX but they remain the only source for some things. If you want a YYYYY, they are the one to which you should turn".

Master Lists

Each company section with have at leat one master list of their products.

The first master list is simply an alphabetical listing of the company's rockets. Occasionally, a word will be seen in parentheses. The meaning of these parentheses can vary but what they all have in common is that the enclosed text is *not* included in the ordering scheme. For example, many early Estes rockets had "Astron" as part of the name. Astron came and went in no predictable fashion:

sometimes it was present, sometimes it was not...and then it would reappear again. “Astron” is placed in parentheses because it will not be considered when alphabetizing.

Parentheses will also enclose words such as “The”. Centuri’s “The Point” and Estes’s“The Bat” both included the definite article as part of the name. For that reason it is included here but it too will not be considered in prioritizing.

Within the name lists will be included the product numbers if the company uses them. Something that may appear in another column is a “group” term if the particular rocket was part of a series or share some characteristic such as coming from a particular movie or book.

For many companies, there may be a second Master List, this one ordered by product ID number. This, of course, depends upon the company actually using such a number. Many do not. For those that do, each has its own scheme. To further complicate things, some companies have changed their numbering systems and, just to ensure the maximum amount of chaos possible, at least one company has a bad habit of reusing product numbers. With that in mind, for each company that does use product IDs, the second table will list them sequentially from lowest to highest. Following the strictly numeric lists will be the “K Number” list, also in ascending order.

Bear in mind that with the wide variety of numbering systems out there, the lists will *not* be formatted identically. It is assumed, however, that anyone who dabbles in rocketry and, as such, is a “rocket scientist”, will be able to figure them out.

Family Groups

Some rockets are “related” to each other. The relationship may be as simple as cloning or being scale models of the same prototype but the relationships can also be more complex. Perhaps one design was derived from another: it is clearly different and yet related as well. In this section, I will try to maintain tables of relationships.

This is all very subjective and ultimately reflects *my* interpretation. Comments and suggestions would be welcome.

Patriarchal Families

The Patriarchal Families are created under a system of "Patriarchs". Under each patriarch will be at least one specific rocket. Often there will be more. The "Patriarchs" are the oldest examples I can find of a given type. Semroc's Baby Orion will not be a patriarch because it is based upon the old Centuri Orion. The Centuri Orion is then the patriarch unless and until somebody can show me an example that predates it. The patriarch will be used to name the family. Please don't hesitate to tell me if you think I have missed something.

Patriarchs are the heads of families. Some families may contain only themselves in the family and others might include many rockets from many different manufacturers. Deciding what to include "in the family" is by its nature very subjective. In some instances a good case could be made for splitting off a member to become the patriarch of a new family. In other instances, there may be "lost" family members that I have failed to include...mainly because I was unaware of the relationship. I have decided that there are several "automatic" triggers to being included in a family. Clones, upscales and downscales become parts of the family automatically. You also get included in a family if the manufacturer specifically says that one product is derived from another. And, sad as some may be to hear it, goonies are part of the family as well. Remember, the whole purpose of this section as established was to show variations upon particular themes.

The case of the Estes Big Bertha provides a good example here. I thought the BB was about as iconic as you could get. I learned, though, that the Bertha came after the Ranger. They look similar but was that enough? I then had the development and the rationale behind the development of both explained to me by Carl McLawhorn of Semroc. The Bertha became part of the Ranger family. Estes claimed to derive the Baby Bertha and the Mini Bertha from the Big Bertha so they all became a part of the Ranger family as well. Then Carl told me that the Semroc SLS Brighton really is a Ranger as well and the family grew some more. This does not include the Super and various clones. The Alphas have equally complicated stories.

While every single rocket will be part of a “family”, I will not include the family in the following lists unless there are at least 2 members. You may occasionally find a family that seems to have only a single member. That is only because I have not gotten to subsequent entries yet.

The Patriarchal Families are listed alphabetically by manufacturer and then patriarch name. Each entry will include manufacturer, model name and product number, if any.

Always Ready Rocketry Families

All of the following families have ARR rockets for their patriarch. Other members of the family may or may not be from ARR.

ARR Basic Blues Family

ARR	**Basic Blues 38**
ARR	**Basic Blues 3**
ARR	**Basic Blues 4**

Art Applewhite Families

All of the following families have Applewhite rockets for their patriarch. Other members of the family may or may not be from Art Applewhite.

Applewhite Cinco Family

Art Applewhite	**Cinco (13mm)**
Art Applewhite	**Cinco (38mm)**

Applewhite Flying Saucer Family

Art Applewhite	**Micro Maxx Flying Saucer**

Applewhite Helix Family

Art Applewhite	**Double Helix (24mm)**
Art Applewhite	**Helix (13mm)**
Art Applewhite	**Helix (18mm)**
Art Applewhite	**Helix (20mm)**
Art Applewhite	**Helix (24mm)**
Art Applewhite	**Helix (29mm)**

Applewhite Qubit Family

Art Applewhite	**Micro Maxx Qubit**
Art Applewhite	**Micro Maxx Scimitar**
Art Applewhite	**Micro Maxx Stealth**
Art Applewhtie	**Qubit (13mm)**
Art Applewhite	**Super Stealth**

Applewhite Spartan Family

Art Applewhite	**Spartan (13mm)**

Binder Design Families

All of the following families have Binder Design rockets for their patriarch. Other members of the family may or may not be from Binder Design.

Binder Design Excel Family

Binder Design	**Excel**
Binder Destign	**Excel 38mm Dual Deploy**
Binder Design	**Excel 54mm**
Binder Design	**Excel 54mm Dual Deploy**
Binder Design	**Excel Jr.**
Binder Design	**Excel Plus**

Binder Design StealthFamily

Binder Design	**Stealth 38mm**
Binder Design	**Stealth 54mm**
Binder Design	**Stealth Jr. 29mm**

BSD High Power Rocketry Families

All of the following families have BSD rockets for their patriarch. Other members of the family may or may not be from BSD.

BSD Diablo Family

BSD	**Diablo (4”)**

BSD Thor Family

BSD	**Thor (3")**
BSD	**Thor (4")**

Centuri Families

All of the following families have Centuri rockets for their patriarch. Other members of the family may or may not be from Centuri.

Centuri Astro-1 Family

Centuri	**Astro-1**	**KB-17 or #5047**
Semroc	**Astro-1**	**KV-30**

Centuri Hornet Family

Centuri	**Magnum D Hornet**	**#5341**
Estes	**Hornet**	**#3037**
Semroc	**Magnum Hornet**	**KV-69**

Centuri Aero-Dart Family

Centuri	**Aero-Dart**	**KF-2**
Centuri	**Aero-Dart**	**KFS-9**
Centuri	**Aero-Dart**	**KF-12 or #5182**
Enerjet	**Aero-Dart**	**KE-12 or #5182**
Semroc	**SLS Aero-Dart**	**KV-6**

Centuri BatRoc Family

Centuri	BatRock	KB-8 or #5038
Semroc	BatRok	KV-53

Centuri Centaur Family

Centuri	Centaur	KC-15 or #5075
Semroc	Centaur	KV-12

Centuri Centurion Family

Centuri	Centurion	KC-2 or #5062
Semroc	Centurion	KV-40

Centuri Chuter 2 Family

Centuri	Chuter Two	K-16 or #5076
Estes	Chuter Two	#3009

Centuri Defender Space Probe Family

Centuri	Defender Space Probe	KC-35 or #5095
Semroc	Defender Space Probe	KV-60

Centuri ESS Raven Family

Centuri	E.S.S. Raven	#5312
MMWW	Micros E.S.S. Raven	#273

Centuri Excalibur Family

Centuri	Excalibur	KA-8 or #5008
Semroc	Excalibur	KV-43

Centuri Exporer Family

Centuri	Explorer	KF-9 or #5179
Semroc	Mini Explorer	KA-22
Semroc	SLS Explorer	KV-56

Centuri Firefly Family

Centuri	Firefly	KA-6 or #5006
Semroc	Texas Firefly	KA-8

Centuri Hustler Family

Centuri	Hustler	KF-10 or #5180
Centuri	Lil' Hustler	KF-8 or #5178
Semroc	Mini Hustler	KA-20
Semroc	SLS Hustler	KV-11
Semroc	SLS Lil' Hustler	KV-57

Centuri Javelin Family

Centuri	**Javelin**	**KC-31 or #5091**
MMWW	**Javelin**	**#352**
Semroc	**Javelin**	**KV-16**
Semroc	**SLS Javelin**	**KLV-16**

Centuri Laser-X Family

Centuri	**Laser-X**	**KC-50 or #5110**
Centuri	**Photon Probe**	**KD-16**
Estes	**Plasma Probe**	**#3211**
Estes	**Solar Probe**	**#2051**
MMWW	**Laser-X**	**#248**
Semroc	**Laser-X**	**KV-33**
Semroc	**SLS Laser-X**	**KLV-33**

Centuri Lil’ Hercules Family

Centuri	**Lil' Hercules**	**KA-1 or #5001**
Semroc	**Lil' Hercules**	**KV-14**

Centuri Long Tom Family

Centuri	**Long Tom**	**KC-4 or #5064**
Estes	**Long Tom**	**#3016**

Centuri Marauder Family

Centuri	**Marauder**	**KC-45 or #5105**
Semroc	**Marauder**	**KV-32**

Centuri Micro-Probe Family

Centuri	**Micro-Probe**	**KB-10**
Centuri	**Micro-Probe**	**KB-22 or #5052**

Centuri Micron Family

Centuri	**Micron**	**KA-5 or #5005**
Semroc	**Micron**	**KV-8**

Centuri Orion Family

Centuri	**Orion**	**KC-8 or #5068**
MMWW	**Orion**	**#348**
Neubauer Rockets	**Orion II**	
Semroc	**Baby Orion**	**KA-31**

Centuri Payloader Family

Centuri	**Payloader**	**KB-4**
Centuri	**Payloader II**	**KC-20 or #5080**
Estes	**Payloader II**	**#3022**
MMWW	**Payloader II**	**#354**

Centuri Point Family

Centuri	The Point	KC-13 or #5073
MMWW	The Point	#232

Centuri Recruiter Family

Centuri	Recruiter	KC-30 or #5090
Semroc	Recruiter Space Probe	KV-22

Centuri Snipe Hunter Family

Centuri	Snipe Hunter	KB-13 or #5043
Semroc	Snipe Hunter	KV-51

Centuri Space Shuttle Family

Blast from the Past	Centuri Space Shuttle	
Centuri	Space Shuttle	KC-6 or #5066

Centuri SST Shuttle 1 Family

Centuri	SST Shuttle 1	KC-17 or #5077
Semroc	SST Shuttle-1 xKit	XCE-KC17

Centuri Star Trooper Family

Centuri	Star Trooper	KM-3 or #5103
Estes	Star Trooper	#3031

Centuri Starfire Family

Centuri	Starfire	KC-12 or #5072
Semroc	Starfire	KV-20

Centuri Swift Family

Centuri	Swift	KBG-3
Semroc	Swift Boost Glider	KV-27

Centuri Taurus Fleet Ship Family

Centuri	Taurus Fleet Ship	KB-3 or #5033
MMWW	Taurus	#317
Moldin' Oldies	Taurus Fleet Ship	
Semroc	Taurus Fleet Ship	KV-42

Centuri Thunder Roc Family

Centuri	Thunder Hawk	#5338
Centuri	Thunder Roc	#5340
Semroc	ThunderBee	KA-1
Semroc	ThunderChief	KA-7
Semroc	ThunderStrike	KA-16

Centuri Vector V Family

Centuri	**Vector V**	**KB-2 or #5132**
Semroc	**Vector-V**	**KV-44**

Centuri X-21 Family

Centuri	**X-21**	**BG-21**
Centuri	**X-21**	**KBG-21**

CMR Families

All of the following families have CMR rockets for their patriarch. Other members of the family may or may not be from CMR.

CMR Manta Family

CMR	**Manta**	**BG1**
CMR	**Mini Manta**	**BG5**
CMR	**Orbitron**	**BG4**

Custom Families

All of the following families have Custom rockets for their patriarch. Other members of the family may or may not be from Custom.

Custom Fiesta Family

Custom	**Fiesta**	**#10032**
Custom	**Game Over**	**#10042**

DG&A Families

All of the following families have DG&A rockets for their patriarch. Other members of the family may or may not be from DG&A.

DG&A Armageddon Family

DG&A	**Armageddon (29mm)**
DG&A	**Armageddon (38mm)**
DG&A	**Armageddon (54mm)**

DynaStar Families

All of the following families have DynaStar rockets for their patriarch. Other members of the family may or may not be from EDynaStar.

DynaStar Snarky Family

DynaStar	**Snarky**	**#05030**
MMWW	**T3 Snarky**	**#380**

Edmonds Aerospace Families

All of the following families have Edmonds rockets for their patriarch. Other members of the family may or may not be from Edmonds.

Edmonds Deltie Family

Edmonds	**Deltie**	
MMWW	**Deltie Boost Glider**	**#230**

Edmonds Ecee Family

Edmonds	**Ecee**	
MMWW	**Micro Ecee Rocket Glider**	**#300**

Edmonds Ivee Family

Edmonds	**Ivee**	
MMWW	**Ivee Boost Glider**	**#227**

Enertek Families

All of the following families have Enertek rockets for their patriarch. Other members of the family may or may not be from Enertek.

Enertek Astra 2000 Family

Enertek	**Astra 2000**	**#8819**
Quest	**Striker AGM**	**#2020**

Enertek Initiator Family

Areotech	**Initiator**	**#89011**
Enertek	**Initiator**	**#8814**

Enertek Strong Arm Family

Aerotech	**Strong ARM**	**#80917**
Enertek	**Strong Arm**	**#8815**

Estes Families

All of the following families have Estes rockets for their patriarch. Other members of the family may or may not be from Estes.

Estes 220 Swift Family

Estes	**220 Swift**	**#0810**
Madcow	**Cricket**	**K-141**

Estes Alien Explorer Family

Estes	**Alien Explorer**	**#1372**
Thrustline	**Alien Explorer**	**TACL-029**

Estes Alpha Family

Estes	(Astron) Alpha	K-25 or #1225
Estes	(Astron) Alpha II	EK-25 or #1421
Estes	(Astron) Alpha III	K-56 or #1256
Estes	(Astron) Alpha IV	#1258
Estes	Maxi Alpha	#1291
Estes	Maxi Alpha 3	#1321
Estes	Maxi Alpha 3	#1903
Estes	Super Alpha	#3216
Semroc	Start	KA-25

Estes Andromeda Family

Estes	Andromeda	K-73 or #1273
Thrustline	Andromeda	TACL-027

Estes Apogee Family

Estes	(Astron) Apogee	K-5
Estes	(Astron) Apogee II	K-5 or #1205
Thrustline	Apogee II	TACL-041

Estes Avenger Family

Estes	(Astron) Avenger	K-38 or #1238
Thrustline	Avenger	TACL-037

Estes (The) Bat Family

Estes	The Bat	#1362
Estes	Hyper Bat	#7217
MMWW	The Micro Bat	#344

Estes Big Daddy Family

Estes	Big Daddy	#2162
Excelsior	Der Grosser Vati	

Estes Blue Bird Zero Family

Estes	Blue Bird Zero	#1335
Excelsior	Goonybird Zero	
InFlight	Blue Bird Zero	IF-K207
K&S Rockets	Blue Bird Zero (1.64")	
MMWW	Micro Blue Bird Zero	#305
Thrustline	Blue Bird Zero	TACL-023

Estes Cherokee D Family

Estes	Cherokee D	K-47 or #1247
MMWW	Micro-Maxx Cherokee	#230
Thrustline	Cherokee D	TACL-001

Estes Cobra Family

Estes	(Astron) Cobra	K-10 or #1210
Thrustline	Cobra	TACL-033

Estes Colonial Viper Family

Estes	Colonial Viper	#1310
MoreRockets.Com	Viper	#1310

Estes Constellation Family

Estes	(Astron) Constellation	K-35 or #1235
Thrustline	Constellation	TACL-30

Estes Courier Family

Estes	Courier	#1911
MMWW	MM Courier	#350

Estes Deep Space Transport Family

Estes	Deep Space Transport	#2034
MMWW	Deep Space Transport	#246
Thrustline	Deep Space Transport	TACL-028

Estes Der Red Max Family

Estes	Der Big Red Max	#1403
Estes	Der Red Max	KC-2 or #0651
Estes	Mini Max	#2445
Excelsior	Der Fat Max	
Excelsior	Der Grosser Vati	
Excelsior	Goony Max	
Leading Edge	Micro Max	LE-07
Retro Rocketry	Mini Blue Max	
Retro Rocketry	Mini Red Max	#0651-RS
Thrustline	Der Big Red Max	TACL-025a
Thrustline	Der Big Red Max 24mm	TACL-025aa
Thrustline	Der Red Max	TACL-025

Estes Dragon Ship 7 Family

Estes	Dragon Ship 7	#1345
MMWW	Dragon Ship-7	#374

Estes Drifter Family

BMS	Astron Drifter	K14
Estes	(Astron) Drifter	K-14 or #1214
Thrustline	Drifter	TACL-010

Estes EAC Viper Family

Estes	**EAC Viper**	**#0820**
MMWW	**T3 EAC Viper**	**#375**
Thrustline	**EAC Viper**	**TACL-039**

Estes Estes Starliner Family

Estes	**Estes Starliner**	**#0863**
Thrustline	**Starliner**	**TACL-021**

Estes Explorer Aquarius Family

Estes	**Explorer Aquarius**	**#2016**
MMWW	**Micro Explorer Aquarius**	**#243**

Estes Falcon Family

Estes	**(Astron) Falcon**	**K-13 or #1213**
MMWW	**Micro Falcon BG**	**#313**
Thrustline	**Falcon**	**TACL-015**

Estes Farside Family

Estes	**Farside**	**K-12 or #1212**
Estes	**Farside-X**	**K-12X or #1261**
Thrustline	**Farside**	**TACL-012a**
Thrustline	**Farside X**	**TACL-012**

Estes Fat Boy Family

Estes	**Fat Boy**	**#1273**
Estes	**Fat Boy**	**#2139**
Polecat Aerospace	**Fat Man (5.5")**	**#13**
Polecat Aerospace	**Fat Man (10”)**	**#10**

Estes Goblin Family

Estes	**Goblin**	**K-55 or #1255**
Leading Edge	**Micro Goblin**	**LE-05**
MMWW	**Micro-Maxx Goblin**	**#233**
New Way	**Quad Goblin**	
Semroc	**Goblin**	**KV-80**
Thrustline	**Goblin**	**TACL-005**

Estes Guardian Family

Estes	**Guardian**	**#2179**
MMWW	**MM Guardian Missile**	**#369**

Estes Gyroc Family

BMS	**Gyroc**	**K24**
Estes	**(Astron) Gyroc**	**K-24 or #1224**
MMWW	**Gyroc Tri-Fin**	**#284**
Thrustline	**Gyroc**	**TACL-009**

Estes Hercules Family

Estes	**Hercules**	**1377**
MMWW	**Micro-Maxx Hercules 2-Stage**	**#239**

Estes Hi Flier Family

Estes	**Hi-Flier**	**#2178**
Estes	**Hi Flier XL**	**#3226**

Estes Interceptor Family

Estes	**Interceptor**	**#1250**
Estes	**Interceptor E**	**#1350**
MMWW	**Micro-Maxx Interceptor**	**#267**
NCR	**Interceptor G**	**#3516**

Estes Mark Family

Estes	**(Astron) Mark**	**K-2 or #1202**
Estes	**(Astron) Mark II**	**K-2A or #1202**
Semroc	**Mark xKit**	**XES-K2**

Estes Mars Lander Family

Estes	**Mars Lander**	**K-43 or #1243**
Tango Papa	**3.9" Mars Lander**	
Tango Papa	**1.6x Mars Lander**	
Tango Papa	**2x Mars Lander**	

Estes Mars Snooper Family

Estes	**Mars Snooper**	**K-20 or #1220**
Estes	**Mars Snooper**	**#2063**
Estes	**Mars Snooper II**	**K-20 or #1220**
MMWW	**Micro_Maxx Mars Snooper**	**#235**
Thrustline	**Mars Snooper**	**TACL-024**

Estes Mean Machine Family

Estes	**Mean Machine**	**#1295**
Estes	**Mini Mean Machine**	**#0865**

Estes Midget Family

Estes	**(Astron) Midget**	**K-40 or #1240**
Estes	**Midget**	**TK-40 or #0840**
MMWW	**Micro T4/T3 Midget 2 Stage**	**#363**

Estes Mk-109 Stingray Family

Estes	**Mk-109 Stingray**	**#1232**
Estes	**Mk-109 Stingray**	**#2131**

Estes Mosquito Family

Estes	**Mega Mosquito**	**#1335**
Estes	**Mosquito**	**TK-1 or #0801**
Estes	**Mosquito**	**#1335**
Madcow	**Mozzie**	**K-112**
Thrustline	**Mosquito**	**TACL-042**
US Rockets	**Mosquito 2.2**	**#1174**

Estes NASA Pegasus Family

Estes	**NASA Pegasus**	**#1376**
MMWW	**NASA Pegasus**	**#353**

Estes National Aerospace Plane Family

Estes	**National Aerospace Plane**	**#2037**
MMWW	**Micro National Aerospace Plane**	**#304**

Estes Nike-X Family

Estes	**Nike-X**	**K-70 or #1270**
QModeling	**NIKEX**	
Thrustline	**Nike-X**	**TACL-002**

Estes Nova Payloader Family

Estes	**Nova Payloader**	**#1960**
MMWW	**Nova Payloader**	**#236**

Estes Omega Family

Estes	**(Astron) Omega**	**K-52 or #1252**
Semroc	**Omega**	**KV-64**
Thrustline	**Omega**	**TACL-035**

Estes Optima Family

Estes	**Optima**	**#2035**
Estes	**Shadow**	**#2094**
MMWW	**T-3 Optima**	**#385**

Estes Orbital Interceptor Family

Estes	**Orbital Interceptor**	**#1359**
Thrustline	**Orbital Interceptor**	**TACL-032**

Estes Orbital Transport Family

Estes	Orbital Transport	K-42 or #1242
Estes	Orbital Transport	#1259
Lawn Dart Rocketry	Piggyback Shuttle	#2
Roachwerks	Orbital Transport	
Semroc	Orbital Transport	KV-66
Thrustline	Orbital Transport	TACL-043

Estes (Citation) Patriot Family

Estes	Patriot	KC-3, MK-3 or #0652
Thrustline	Patriot	TACL-036

Estes Patrol Cruiser Excalibur Family

Estes	Patrol Cruiser Excalibur	#1339
MMWW	Patrol Cruiser Excalibur	#373

Estes Pegasus Family

Estes	Pegasus	#0806

Estes Phantom Family

Estes	(Astron) Phantom	K-7 or #1207
Estes	Phantom	K-7B or #1264

Estes Photon Disruptor Family

Estes	Photon Disruptor	#1282
Estes	Photon Disruptor	#3025
Estes	Photon Disruptor II	#2052

Estes Photon Probe Family

Estes	Photon Probe	#2043
Estes	Photon Probe	#3026

Estes Rainmaker Family

Estes	Rainmaker	#2009
MMWW	Rain Maker	#355

Estes Ram Jet Family

Estes	Ram Jet	#1994
MMWW	Micro-Maxx Ram-Jet	#250

Estes Ranger Family

Estes	Baby Bertha	#1261
Estes	(Astron) Big Bertha	K-23 or #1223
Estes	Big Bertha	#1948
Estes	Mini Bertha	TK-03 or #0803
Estes	(Astron) Ranger	K-6 or #1206

Estes	**Super Big Bertha**	**#2018**
Estes	**Super Big Bertha**	**#2165**
MMWW	**Micro Big Bertha**	**#297**
MMWW	**MMX Ranger**	**#226**
Model Rocket News	**Big Bertha**	**#13**
Thrustline	**Ranger**	**TACL-026**

Estes Rogue Family

Estes	**Rogue**	**#0818**
QModeling	**Rogue**	
Thrustline	**Rogue**	**TACL-038**

Estes Satellite Interceptor Family

Estes	**Crossbow SST**	**#3207**
Estes	**Satellite Interceptor**	**#1296**
Estes	**Satellite Interceptor**	**#3027**
K&S	**Upscale Satellite Interceptor**	

Estes Scamp Family

Estes	**Scamp**	**KL-1 or #1101**
Estes	**Scamp**	**#1286**
Thrustline	**Scamp**	**TACL-022**

Estes Scout Family

Estes	**(Astron) Scout**	**K-1 or #1201**
MMWW	**Micro Scout-1**	**#330**
Semroc	**Golden Scout**	**KV-4**

Estes Sentinel Family

Estes	**Sentinel**	**#1987**
MMWW	**MM Sentinel (T3)**	**#358**
MMWW	**MM Sentinel (T2+)**	**#358**

Estes Skydart Family

Estes	**Skydart**	**K-57 or #1257**
MMWW	**SkyDart Business SST**	**#240**
Neubauer	**MegaDagger**	
Neubauer	**SkyDagger**	

Estes Spaceman Family

Estes	**(Astron) Spaceman**	**K-9 or #1209**
Semroc	**SpaceMan**	**XES-K9**
Thrustline	**Space Man**	**TACL-044**

Estes Sprint Family

Estes	(Astron) Sprint	K-49 0r #1249
MMWW	Micro-Maxx Sprint	#297
Thrustline	Sprint	TACL-018

Estes Sprite Family

Estes	(Astron) Sprite	K-15 or #1215
Hawk's Hobby	Super Sprite	HH-80
Thrustline	Sprite	TACL-031

Estes Starship Vega Family

Estes	Starship Vega	KC-4 or #0653
Estes	Starship Vega	#1320
Estes	Super Vega	#2036
MMWW	Micro Maxx Starship Vega	#268
Semroc	Starship Vega	KV-78

Estes Streak Family

Estes	(Astron) Streak	K-4 or #1204
Estes	Maxi Streak	#1387

Estes Teros Family

Estes	Teros	KL-5 or #1105
Estes	Teros	#1285

Estes Tornado Family

Estes	Tornado	#2004
Estes	Twister	#1449
MMWW	Tornado	#338

Estes Trident Family

Estes	(Astron) Trident	K-33 or #1233
Estes	Trident II	#2033
MMWW	Micro Trident Space Transport	#321
Thrustline	Trident	TACL-034

Estes Viking Family

Estes	Viking	#1755
Estes	Viking	#1949

Estes X-Ray Family

Estes	X-Ray	K-18 or #1218
MMWW	X-Ray	#237
Thrustline	X-Ray	TACL-011

Estes Yellow Jacket Family

Estes	**Yellow Jacket**	**#2008**
Estes	**Yellow Jacket**	**#7005**
MMWW	**T3 Micro Yellow Jacket**	**#326**
Thrustline	**Yellow Jacket**	**TACL-040**

Estes DOM Families

All of the following families have Estes DOM rockets for their patriarch. Other members of the family may or may not be from Estes DOM

Estes DOM Top Secret Family

Estes DOM	**Top Secret**	**#78**
Cygnus	**X-1 N.E.A.V.**	

Fliskit Families

All of the following families have Fliskit rockets for their patriarch. Other members of the family may or may not be from Fliskits

Fliskit OverDue Family

Fliskits	**Long OverDue**	**SP008**
Fliskits	**OverDue**	**OD001**

FSI Viking Family

FSI Families

All of the following families have FSI rockets for their patriarch. Other members of the family may or may not be from FSI.

FSI Viking Family

BMS	**FSI Viking 1**	**#FSIV1**
FSI	**Viking I**	**MRK-9 or #1009**
FSI	**Viking II**	**MRK-10 or #1010**
FSI	**Viking III**	**MRK-11 or #1011**
FSI	**Viking IV**	**MRK-12 or #1012**
FSI	**Viking V**	**#1029**

Giant Leap Rocketry Families

All of the following families have Giant Leap rockets for their patriarch. Other members of the family may or may not be from Giant Leap.

Giant Leap Talon Family

Giant Leap	**Talon 2**
Giant Leap	**Talon 3**
Giant Leap	**Talon 4**
Giant Leap	**Talon 6**

LOC/Precision Families

All of the following families have LOCrockets for their patriarch. Other members of the family may or may not be from MMI.

LOC Bruiser Family

LOC	**Bruiser**	**PK-88**
LOC	**Bruiser EXP**	**PK-96**

LOC EZI-65 Family

LOC	**EZI-65**	**PK-64**
LOC	**EZI-65 Mini**	**#0175**
LOC	**Hi-Tech**	**PK-56**

LOC Nuke Family

LOC	**Big Nuke**	**PK-82**
LOC	**Big Nuke 3E**	**PK-82-3E**
LOC	**Big Nuke Mini**	**#0174**
LOC	**Lil' Nuke**	**PK-4**
LOC	**Nuke Pro Max**	**PK-5**

Model Missiles, Inc. Families

All of the following families have MMI rockets for their patriarch. Other members of the family may or may not be from MMI.

MMI Aerobee Hi Family

MMI	**Aerobee Hi**	**#001-B**
MMI	**Aerobee Hi Deluxe**	**#001-A**
MMI	**Aerobee Hi Economy**	**#001-C**
NCR	**Aerobee Hi-Test**	**K-5**
Semroc	**Aerobee Hi**	**KV-2**

PemTech (Pemberton Technologies) Families

All of the following families have PenTech rockets for their patriarch. Other members of the family may or may not be from PemTech.

PemTech Kraken Family

PemTech	**King Kraken**
PenTech	**Kraken**

Performance Rocketry Families

All of the following families have Performance Rocketry rockets for their patriarch. Other members of the family may or may not be from Performance Rocketry.

Performance Rocketry Gizmo Family

Performance Rocketry	**Gizmo**
Performance Rocketry	**Gizmo XL**

Rocketry Warehouse Families

All of the following families have Rocketry Warehouse rockets for their patriarch. Other members of the family may or may not be from Rocketry Warehouse.

Rocketry Warehouse Formula X Family

Rocketry Warehouse	**Formula 54**
Rocketry Warehouse	**Formula 75**
Rocketry Warehouse	**Formula 98**
Rocketry Warehouse	**Formula 150**

Semroc Families

All of the following families have Semroc rockets for their patriarch. Other members of the family may or may not be from Semroc.

Semroc Hydra VII Family

Semroc	**Hydra One**	**KA-18**
Semroc	**Hydra VII**	**KB-7**
Semroc	**Hydra VII**	**KV-29**

Thrustline Aerospace Families

All of the following families have Thrustline Aerospace rockets for their patriarch. Other members of the family may or may not be from Thrustline.

Thrustline Mike IX Family

Thrustline	**Mike IX**	**TA-015**
Thrustline	**Mini Mike IX**	**TA-027**

Wildman Rocketry Families

All of the following families have Wildman Rocketry rockets for their patriarch. Other members of the family may or may not be from Wildman.

Wildman Rocketry DarkStar Family

MMWW	**T3 DarkStar**
Wildman	**DarkStar**
Wildman	**DarkStar 4**
Wildman	**DarkStar 4 Dual Deploy**
Wildman	**DarkStar Extreme**
Wildman	**DarkStar JR**
Wildman	**DarkStar JR Dual Deploy**
Wildman	**DarkStar Lite**
Wildman	**DarkStar Mini**
Wildman	**Ultimate DarkStar**

Wildman Rocketry Wildman Family

Wildman	**Extreme Wildman**
Wildman	**Ultimate Wildman**
Wildman	**Wildman**
Wildman	**Wildman 22**
Wildman	**Wildman Dual Deploy**
Wildman	**Wildman JR**
Wildman	**Wild Child**

Prototypical Families

"Prototypical" here means that the rocket is based upon a real "prototype" such as a missile or launch vehicle. The prototype may have actually been built, such as the Saturn V, or it may have only reached the design stage as with many of the X-Prize Entries.

Ordnance Families

This includes, bombs, missiles, target drones etc.

AGM 12 Bullpup Ordnance Family

The AGM-12 Bullpup is an air-to-ground missile which was used on the A-4 Skyhawk, A-6 Intruder, F-105 Thunderchief and F-4 Phantom among others. It has been superseded by more advanced armaments, notably the AGM-62 Walleye and AGM-65 Maverick.

Estes	**Bull Pup 12D**	**#1972**
Estes	**Bull Pup 12D**	**#7000**
MMWW	**Micro AGM-12B Bullpup A**	**#276**
Polecat Aerospace	**Bullpup (4")**	**#26**
Polecat Aerospace	**Bullpup (7.5")**	**#4**
Public Missiles LTD	**Bull Puppy**	
Public Missiles LTD	**Bull Puppy 2.1**	
Public Missiles LTD	**Bulldog (6")**	
TLP	**Bullpup AGM-12B**	**K005**
TLP	**Bullpup AGM-12C**	**K006**

AGM 114 Hellfire Ordnance Family

The AGM-114 Hellfire is an air-to-surface missile (ASM) developed primarily for anti-armor use. It has multi-mission, multi-target precision-strike capability, and can be launched from multiple air, sea, and ground platforms. The Hellfire missile is the primary 100 lb-class air-to-ground precision weapon for the armed forces of the United States and many other nations. The HELLFIRE name comes from its original intention as a helicopter-launched fire-and-forget weapon (HELicopter Launched FIRE-and-forget).

The AGM-114 Hellfire is a combat-proven tactical missile system. The missile has been in combat use since the mid-1980s.

AIM 9 Sidewinder Ordnance Family

The AIM-9 Sidewinder is a heat-seeking, short-range, air-to-air missile carried mostly by fighter aircraft and recently, certain gunship helicopters. The missile entered service with the United States Navy in the mid-1950s, and variants and upgrades remain in active service with many air forces after five decades. The United States Air Force purchased the Sidewinder after the missile was developed by the United States Navy at China Lake, California.

The Sidewinder is the most widely used missile in the West, with more than 110,000 missiles produced for the U.S. and 27 other nations, of which perhaps one percent have been used in combat. It has been built under license by some other nations including Sweden. The AIM-9 is one of the oldest, least expensive, and most successful air-to-air missiles, with an estimated 270 aircraft kills in its history of use.

The missile was designed to be simple to upgrade. It has been said that the design goals for the original Sidewinder were to produce a reliable and effective missile with the "electronic complexity of a table model radio and the mechanical complexity of a washing machine"—goals which were well accomplished in the early missiles. The United States Navy hosted a 50th anniversary celebration of its existence in 2002. Boeing won a contract in March 2010 to support Sidewinder operations through 2055, guaranteeing that the weapons system will remain in operation until at least that date. Air Force Spokeswoman Stephanie Powell noted that due to its relative low cost, versatility, and reliability it is "very possible that the Sidewinder will remain in Air Force inventories through the late 21st century."

Estes	**AIM-9 Sidewinder**	**#2125**
The Launch Pad	**Sidewinder AIM-9L**	**K030**

AIM 54 Pheonix Ordnance Family

The AIM-54 Phoenix is a radar-guided, long-range air-to-air missile (AAM), carried in clusters of up to six missiles on F-14 Tomcats, its only launch platform. The Phoenix was the United States' only long-range air-to-air missile. The weapons system based on Phoenix was the world's first to allow simultaneous guidance of missiles against multiple targets. Both the missile and the aircraft was used by the United States Navy and are now retired, the AIM-54 Phoenix in 2004 and the F-14 in 2006. They were replaced by shorter-range AIM-120 AMRAAMs, employed on the F/A-18 Hornet and F/A-18E/F Super Hornet.

Estes	**Phoenix**	**#1380**
Madcow	**Phoenix Rocket**	**K-136**

AIM 120 AMRAAM Ordnance Family

The AIM-120 Advanced Medium-Range Air-to-Air Missile, or AMRAAM (pronounced "am-ram"), is a modern beyond-visual-range air-to-air missile (BVRAAM) capable of all-weather day-and-night operations. Designed with the same form-factor as the previous generation of semi-active guided Sparrow missiles, it is a fire-and-forget missile with active guidance. It is also commonly known as the Slammer in USAF service.

Estes	**AIM 120 AMRAAM**	**#2153**
MMWW	**Micro Maxx AIM-120A AMRAAM (Navy Ver.)**	**#285**
Performance Rocketry	**AMRAAM (1/2 Scale)**	
Rocketarium	**AMRAAM AIM 120A**	**RK-AMRAA**

AQM 37 Jayhawk Ordnance Family

In 1959, the US Navy and US Air Force issued a joint request for a new high-speed expendable target. Beechcraft won the competition, and the result was a small delta-winged drone with wingtip fins and a liquid rocket motor, originally designated XKD2B-1 but now known as the AQM-37. The type first flew in May 1961, entered service with the US Navy in 1963, and remains in service.

The original version was the AQM-37A or Beech Model 1019. The AQM-37A was followed by a confusing list of subvariants, some of which were new production, others which were modifications of existing AQM-37s. These variants were intended to simulate different classes of threats, such as sea-skimming antiship missiles or high-altitude naval attack missiles, or provide better performance. One high-performance variant with improved thermal protection attained a speed of Mach 4.7 and an altitude of over 112,000 feet (34 kilometers) on a ballistic trajectory. The final US Navy variant was designated AQM-37C.

After an evaluation of the AQM-37A in the late 1960s, the US Army bought a small initial batch of Model 1100/1101 AQM-37As that, unlike other variants, were recoverable, using a parachute system. Some of this batch were intended for low-altitude operation and fitted with a radar altimeter, and others were intended for high-altitude operation and had a barometric altimeter. The Army later ordered over 400 improved non-recoverable Model 1102 variants of the AQM-37A.

The USAF evaluated the AQM-37 in the early 1970s but was slow to adopt it. Records of USAF procurement of the type are sketchy, but it does seem to be currently part of the Air Force target inventory. Small quantities of AQM-37s were also sold to Italy, Israel, and France, while Britain bought several hundred of the type. The Meteor company of Italy built a number of AQM-37s under license.

All variants are air-launched, with the US Navy traditionally using the F-4 Phantom for the job and the British using the Canberra.

More than 5,000 AQM-37 targets of all variants have been delivered since the early 1960s. The AQM-37C/D is still in limited production for the U.S. Navy.

The AQM-37's engine is built by Rocketdyne, though in some sources it is credited to Harley Davidson, the motorcycle manufacturer, which appears to be due to a sequence of company buyouts. The engine uses "storable" liquid propellants, in contrast to cryogenic propellants like liquid oxygen and liquid hydrogen that have to be loaded up just before launch lest they evaporate away. The problem is that the storable propellants in common use are corrosive, highly toxic, and "hypergolic", meaning that the propellants spontaneously ignite when mixed together. This tends to make them troublesome to deal with.

ASP	**Micro Jayhawk**	
Centuri	**Magnum D Jayhawk**	**#5342**
Estes	**Pro Series Jayhawk**	**#2085**

Madcow	**Jay Hawk AQM 37A**	**K-109**
Polecat Aerospace	**AQM 37 Jayhawk (4")**	**#21**
Starlight	**Jay Hawk**	**MR4353**

ASRAAM Python Ordnance Family

In the 1950s, the Israeli Air Force (IAF) submitted requirements for a domestically-made air-to-air missile, to promote domestic defense industry and reduce reliance on imports. Rafael Armament Development Authority was contracted to develop the Shafrir in 1959. The missile entered operational status with Israeli Mirage jets in 1963, but the IAF was unhappy with its performance. Soon, the improved Shafrir 2 was made, and it proved to be one of the most successful, and deadly missiles ever made. During the 1973 Yom Kippur War, the IAF launched 176 Shafrir 2 missiles, destroying 89 enemy aircraft. The Shafrir 2 was exported along with Israeli-made aircraft to South American countries.

After the Shafrir 2, the new missiles made by Rafael were given the western name of Python. This is why the next missile built by Rafael in early 1970s was named Python-3, but there is no Python-1 or Python-2 (they were Shafrir 1, Shafrir 2). The Python-3 has improved range and all-aspect attack ability, it proved itself before and during the 1982 Lebanon War, destroying 35 enemy aircraft. The People's Republic of China was impressed with its performance and license-built the Python-3 as the PL-8 AAM.

Further improvements on the Python-3 lead to the development of Python-4 in mid-1980s. The Python-4 had limited "fire-and-forget" ability, and helmet-sight guidance.[4] In the 1990s Rafael started development on the Python-5 AAM, which was equipped with an advanced electro-optical imaging seeker with lock-on after-launch ability.[5] The new missile was show-cased in 2003 Paris Air Show, and intended for service with IAF the F-15I Ra'am ("Thunder") and the F-16I Sufa ("Storm").

The Python-5 is said to have full sphere launch ability or is an all-aspect missile, meaning it can be launched at a target regardless of the target's location relative to the direction of the launching aircraft. It can lock on to targets after launch, even when they are up to 100 degrees off boresight.

Estes	**Python 4 ASRAAM**	**#1245**
Estes	**Python 4 ASRAAM**	**#2054**

CIM-10 Bomarc Ordnance Family

The CIM-10 Bomarc was the only surface-to-air missile (SAM) ever deployed by the United States Air Force. All other U.S. land-based SAMs were and are under the control of the United States Army.

The supersonic Bomarc missiles were the first long-range anti-aircraft missiles in the world. They were capable of carrying conventional or nuclear warheads. Their intended role in defense was in an intrusion prevention perimeter. Bomarcs aligned on the eastern and western coasts of North America theoretically would launch and would destroy enemy bombers before the bombers could drop their payloads on industrial regions.

It involved the deployment of tactical stations armed with Bomarc missiles along the east and west coasts of North America and the central areas of the continent. BOMARC and the SAGE guidance system were phased out in the early 1970s since they seemed to be ineffective and costly. Neither of these systems was ever used in combat, so while their combat effectiveness remains untested, they are still perceived as having been an important deterrent.

In addition to the USAF, the Bomarc was also deployed by Canada after the country had

canceled its advanced Avro Canada CF-105 Arrow manned interceptor in 1959.

BMS	**Mini Bomarc**	**0805(TK-5)**
Estes	**Bomarc**	**KC-5 or #0654**
Estes	**Bomarc**	**#0657**
Estes	**Mini Bomarc**	**TK-5 or #0805**
Madcow	**Bomarc Rocket**	**K-119**

MGR-1 Honest John Ordnance Family

The MGR-1 Honest John rocket was the first nuclear-capable surface-to-surface rocket in the US arsenal. Designated Artillery Rocket XM31, the first such rocket was tested 29 June 1951 and the first production rounds were delivered in January 1953. The designator was changed to M31 in September 1953. The first Army units received their rockets by year's end and Honest John battalions were deployed in Europe in the Spring of 1954. Alternatively, the rocket was designed to be capable of carrying an ordinary high-explosive warhead weighing 1500 pounds, even though that was not the primary purpose for which it was originally envisioned.

Centuri	**Honest John**	**KC-25 or #5085**
Cox	**Honest John**	**#5050**
Estes	**Honest John**	**K-27 or #1227**
Estes	**Honest John**	**#1919**
Estes	**(Maxi) Honest John**	**#2166**
Estes	**Maxi Honest John**	**#1269**
Estes	**Mini Honest John**	**#2446**
Excelsior Rocketry	**Honest Goon**	
Fliskits	**Honest John**	**MX008**
Madcow Rocketry	**Honest John Rocket**	**K-115**
Schoolyard Rockets	**Honest John**	
Thrustline	**Honest John**	**TACL-003**
Thrustline	**Honest John**	**TACL-003**

MGR-3 Little John Ordnance Family

Carried on the XM34 rocket launcher, it could carry either nuclear or conventional warheads. It was primarily intended for use in airborne assault operations and to complement the heavier, self-propelled Honest John rocket systems. Development of the missile was started at Army's Rocket and Guided Missile Agency laboratory at Huntsville, Alabama, the Redstone Arsenal, in June 1955. In June 1956, the first launch of the XM47 Little John occurred. The Littlejohn was delivered to the field in November 1961 and remained in the Army weapons inventory until August 1969.

It was a fin-stabilized field artillery rocket that followed a ballistic trajectory to ground targets. The rocket XM51 consisted of a warhead, a rocket motor assembly, and an igniter assembly. The components were shipped in separate containers and assembled by the user.

The Littlejohn differs from the Honest John in not only its size but how it is stabilized in flight. The flight of the Honest John is stabilized by a spin that is imparted to the rocket by spin rockets after the round leaves the launcher. The Littlejohn rocket flight is stabilized by applying spin to the rocket while on the launcher, just before firing. This manual method of stabilization was called "spin-on-straight-rail" (SOSR). The system was maufactured by the Douglas Aircraft Company.

The missile and launcher system were light enough to be easily transported by helicopters and other aircraft or towed by a vehicle. The Phase II Littlejohn weapon system was initially deployed with the 1st Missile Battalion, 157th Field Artillery in Okinawa, Japan.

The missile was retired beginning in July, 1967, with the final missile removed from inventory in 1970. Five hundred missiles were produced during the life of the weapon program

Estes	**Little John**	**#0819**
Madcow	**Little John (2.6")**	**K-101**
Madcow	**Little John (4")**	**K-142**
Madcow	**Little John Rocket (4") (FG)**	**K-157**
Thrustline	**Little John**	**TACL-020**

MIM-3 Nike Ajax Ordnance Family

The first successful Nike test was during November 1951, intercepting a drone B-17 Flying Fortress. The first type, Nike Ajax (MIM-3), were deployed starting in 1953. The Army initially ordered 1,000 missiles and 60 sets of equipment. They were placed to protect strategic and tactical sites within the US. As a last-line of defense from air attack, they were positioned to protect cities as well as military installations. The missile was deployed first at Fort Meade, Maryland during December, 1953. A further 240 launch sites were built up to 1962. They replaced 896 radar-guided anti-aircraft guns, operated by the National Guard or Army to protect certain key sites. This left a handful of 75 mm Skysweeper emplacements as the only anti-aircraft artillery remaining in use by the US. By 1957 the Regular Army AAA units had been replaced by missile battalions. During 1958 the Army National Guard began to replace their guns and adopt the Ajax system.

Each launch site had three parts, separated by at least 1,000 yards (914 m). One part (designated C) of about six acres (24,000 m²) contained the IFC (Integrated Fire Control) radar systems to detect incoming targets (acquisition and target tracking) and direct the missiles (missile tracking), along with the computer systems to plot and direct the intercept. The second part (designated L), around forty acres (160,000 m²), held 1-3 underground missile magazines each serving a group of four launch assemblies and included a safety zone. The site had a crew of 109 officers and men who ran the site continuously. One launcher would be on 15 minutes alert, two on 30 minutes and one on two hour alert. The third part was the administrative area (designated A), which was usually co-located with the IFC and contained the battery headquarters, barracks, mess, recreation hall, and motor pool. The actual configuration of the Nike sites differed depending on geography. Whenever possible the sites were placed on existing military bases or National Guard armories; otherwise land had to be purchased.

The Nike batteries were organized in Defense Areas and placed around population centers and strategic locations such as long-range bomber bases, nuclear plants, and (later) ICBM sites. The Nike sites in a Defense Area formed a circle around these cities and bases. There was no fixed number of Nike batteries in a Defense Area and the actual number of batteries varied from a low of two in the Barksdale AFB Defense Area to a high of 22 in the Chicago Defense Area. In the Continental United States the sites were numbered from 01 to 99 starting at the north and increasing clockwise. The numbers had no relation to actual compass headings, but generally Nike sites numbered 01 to 25 were to the northeast and east, those numbered 26 to 50 were to the southeast and south, those numbered 51 to 75 were to the southwest and west, and those numbered 76 to 99 were to the northwest and north. The Defense Areas in the Continental United States were identified by a one- or two-letter code which were related to the city name. Thus those Nike sites starting with C were in the Chicago Defense Area, those starting with HM were in the Homestead AFB/Miami Defense Area, those starting with NY were in the New York Defense Area, and so forth. As an example Nike Site SF-88L refers to the launcher area of the battery located in the northwestern part of the San Francisco Defense Area.

During the early-to-mid 1960s the Nike Ajax batteries were upgraded to the Hercules system.

The new missiles had greater range and destructive power, so about half as many batteries provided the same defensive capability. Regular Army batteries were either upgraded to the Hercules system or decommissioned. Army National Guard units continued to use the Ajax system until 1964, when they too upgraded to Hercules. Eventually, the Regular Army units were replaced by the National Guard as a cost-saving measure, since the Guard units could return to their homes when off duty.

Estes	**Nike Ajax**	**#1279**
Roachwerks	**Nike Ajax (13mm)**	
Roachwerks	**Nike Ajax (18mm)**	
The Launch Pad	**Nike Ajax MIM-3A**	**K060**

MIM-23 Hawk Ordnance Family

The Raytheon MIM-23 Hawk is a U.S. medium range surface-to-air missile. The Hawk was initially designed to destroy aircraft and was later adapted to destroy other missiles in flight. The missile entered service in 1960, and a program of extensive upgrades has kept it from becoming obsolete. It was superseded by the MIM-104 Patriot in United States Army service by 1994. It was finally phased out of U.S. service in 2002, the last users, the U.S. Marine Corps replacing it with the man-portable infrared-guided visual range FIM-92 Stinger. The missile was also produced outside the US in Western Europe, Japan and Iran.

Although the U.S. never used the Hawk in combat, it has been employed numerous times by other nations. Approximately 40,000 of the missiles were produced. Jane's reported that the original system's single shot kill probability was 0.56; I-Hawk improved this to 0.85

ASP	**Micro Hawk**	**KHAWK-MM**
Madcow	**Army Hawk MIM-23A**	**K-106**
TLP	**Hawk MIM-23A (1.6")**	**K039**

MIM-104 Patriot Ordnance Family

The MIM-104 Patriot is a surface-to-air missile (SAM) system, the primary of its kind used by the United States Army and several allied nations. It is manufactured by the Raytheon Company of the United States, and derives its name from the national football league (NFL) football franchise nearest the company headquarters in Cambridge, MA. The Patriot System replaced the Nike Hercules system as the U.S. Army's primary High to Medium Air Defense (HIMAD) system, and replaced the MIM-23 Hawk system as the U.S. Army's medium tactical air defense system. In addition to these roles, Patriot has been given the function of the U.S. Army's anti-ballistic missile (ABM) system, which is now Patriot's primary mission.

Patriot uses an advanced aerial interceptor missile and high performance radar systems. Patriot was developed at Redstone Arsenal in Huntsville, Alabama, which had previously developed the Safeguard ABM system and its component Spartan and Sprint missiles. The symbol for Patriot is a drawing of a Revolutionary War-era Minuteman.

Patriot systems have been sold to Taiwan, Egypt, Germany, Greece, Israel, Japan, Kuwait, the Netherlands, Saudi Arabia, United Arab Emirates, Jordan and Spain. Poland hosts training rotations of a battery of U.S. Patriot launchers. It was first deployed in Mora;g in 24 May 2010 but has since been moved to Torun'. The Republic of Korea also purchased several second-hand Patriot systems from Germany after North Korea test-launched ballistic missiles to the Sea of Japan and proceeded with underground nuclear testing in 2006.

Estes	**Mini Patriot**	**#0896**
Estes	**Patriot Missile**	**#2056**
Estes	**Patriot Missile**	**#2066**

Estes	**Patriot RTF Starter Set**	**#1825**
Estes	**Patriot RTF Starter Set**	**#1843**
Estes	**Patriot Starter Set**	**#1450**
Estes	**US Army Patriot**	**#1248**
Performance Rocketry	**Patriot Missile 1/4 Scale**	
Performance Rocketry	**Patriot Missile 1/2 Scale**	
Polecat Aerospace	**7.5" Patriot MIM-104**	**#1**

MX-774 HIROC Ordnance Family

The MX-774 was the United States' first attempt at an intercontinental ballistic missile (ICBM). In 1946, Consolidated-Vultee was given an Army Air Forces research contract and began design and development of the MX-774, which led to Convair's development of the Atlas ICBM.

ARG	**Convair MX-774 HIROC**

V-2 Ordnance Family

The V-2 rocket (German: Vergeltungswaffe 2, i.e. retaliation weapon 2), technical name Aggregat-4 (A4), was a ballistic missile that was developed at the beginning of the Second World War in Germany, specifically targeted at London and later Antwerp. The liquid-propellant rocket was the world's first long-range combat-ballistic missile and first known human artifact to enter outer space. It was the progenitor of all modern rockets, including those used by the United States and Soviet Union's space programs. During the aftermath of World War II the American, Soviet and British governments all gained access to the V-2's technical designs and the actual German scientists responsible for creating the rockets, via Operation Paperclip, Operation Osoaviakhim and Operation Backfire.

The weapon was presented by Nazi propaganda as a retaliation for the bombers that attacked ever more German cities from 1942 until Germany surrendered.

Over 3,000 V-2s were launched as military rockets by the German Wehrmacht against Allied targets during the war, mostly London and later Antwerp. The attacks resulted in the death of an estimated 7,250 military personnel and civilians, while 12,000 forced labourers were killed producing the weapons

ASP	**V-2 (24mm)**	**#KV2-24**
Apogee Components	**Micro V-2**	**#5021**
Centuri	**V2**	**KS-19 or #5149**
Currell Graphics	**V-2 Rocket**	
Estes	**Maxi Brute V-2**	**#K-67 or #1267**
Estes	**Maxi-Brute V-2**	**#1952**
Estes	**V-2**	**K-22 or #1222**
Estes	**V-2**	**#1926**
Hostile Projectiles	**V-2 Rocket**	
LOC/Precision	**3.9" V-2**	**PK-57**
LOC/Precision	**7.5" V2**	**PK-100**
Mountainside Hobbies	**Sport Scale V-2**	**#103**
Mountainside Hobbies	**4" V-2**	**#500**
Noris Raketen	**A-4 Peenemunde**	**#004**
Performance Rocketry	**1/5 Scale V-2**	
Semroc	**V-2 xKit**	**XES-K22**

Thrustline	**V2**	**TA-019**
Thrustline	**V-2**	**TACL-016**

XLIM-49 Nike Zeus Ordnance Family

Development continued, producing Improved Nike Hercules and then Nike Zeus A and B. The Zeus was aimed at intercontinental ballistic missiles (ICBMs).

Zeus, with a new 400,000 lbf (1.78 MN) thrust solid-fuel booster, was first test launched during August 1959 and demonstrated a top speed of 8,000 mph (12,875 km/h). The Nike Zeus system also included the Zeus Acquisition Radar (ZAR), a significant improvement over the Nike Hercules HIPAR system. Shaped like a pyramid, the ZAR featured a Luneburg lens receiver aerial weighing about 1,000 tons. The first successful intercept of an ICBM by Zeus was in 1962, at Kwajalein in the Marshall Islands. Despite its technological advancements, the Department of Defense terminated Zeus development in 1963. The Zeus system, which cost an estimated $15 billion, still suffered from several technical flaws, that were believed to be uneconomical to overcome.

Still, the Army continued to develop an anti-ICBM weapon system referred to as "Nike-X" - that was largely based on the technological advances of the Zeus system. Nike-X featured phase-array radars, computer advances, and a missile tolerant of skin temperatures three times those of the Zeus. In September 1967, the Department of Defense announced the deployment of the LIM-49A Spartan missile system, its major elements drawn from Nike X development.

In March 1969. the Army started the Safeguard ABM program, which was designed to defend Minuteman ICBMs, and which was also based on the Nike-X system. It became operational in 1975, but was shut down after just three months.

Cox	**Nike Zeus**	**#5150**

Exocet Ordnance Family

The Exocet is built by MBDA, a European missile company. Development began in 1967 by Nord as a ship-launched missile named MM 38. A few years later Aerospatiale and Nord merged. The basic missile body design was based on the Nord AS30 air to ground tactical missile. The air-launched Exocet was developed in 1974 and entered service with the French Navy five years later.

The relatively compact missile is designed for attacking small- to medium-size warships (e.g. frigates, corvettes, and destroyers), although multiple hits are effective against larger vessels, such as aircraft carriers. It is guided inertially in mid-flight and turns on active radar late in its flight to find and hit its target. As a counter measure against the air defence around the target, it maintains a very low altitude during ingress, staying 1–2 m above the sea surface. Due to the effect of the radar horizon, this means that the target may not detect an incoming attack until the missile is only 6000 m from impact. This leaves little time for reaction and stimulated the design of CIWS.

Its solid propellant engine gives the Exocet a maximum range of 70 kilometres (43 mi; 38 nmi). The solid-propellant engine was replaced on the Block 3 MM40 ship-launched version of the missile with a solid-propellant booster and a turbojet sustainer engine which extends the range to 180 kilometres (110 mi; 97 nmi). The submarine-launched version places the missile inside a launch capsule.

The Exocet has been manufactured in a number of versions, including:

MM38 (surface-launched)
AM38 (helicopter-launched - tested only)
AM39 (air-launched)
SM39 (submarine-launched)

MM40 (surface-launched)

The chief competitors to the Exocet are the U.S.-made Harpoon, the Swedish RBS-15 and the Chinese Yingji series.

Estes	**Exocet MM 38**	**#1925**

Sounding Rocket Families

Aerobee Sounding Rocket Family

American sounding rocket. In late 1945 James Van Allen was assigned by John Hopkins University to survey sounding rocket requirements for upper atmosphere research. The V-2 was found to be too heavy and complex. In 1946 Van Allen decided that what was needed was a small rocket, derived from the Aerojet Wac Corporal and the Bumblebee missile developed under a US Navy program. This combination of an Aerojet booster and a Bumblebee second stage was dubbed the Aerobee. Aerobees were launched for 53 m tall launch towers to provide the necessary stability until enough speed had been gained for the fins to be effective in controlling the rocket. Launch towers were built at White Sands, Fort Churchill, Wallops Island, and aboard the research ship USN Norton Sound. The Aerobee could take 68 kg to 130 km altitude.

Cosmodrome	**Aerobee Hi**	
MMI	**Aerobee Hi**	**#001-B**
MMI	**Aerobee Hi Deluxe**	**#001-A**
MMI	**Aerobee Hi Economy**	**#001-C**
North Coast Rocketry	**Aerobee Hi-Test**	**K-5**
Semroc	**Aerobee Hi**	**KV-2**
Thrustline	**Aerobee 300**	**TACL-013**

Arcas Sounding Rocket Family

Arcas — also designated ARCAS — was the designation of an American sounding rocket, which was launched between July 31, 1959 and August 9, 1991 at least 421 times. The Arcas has a maximum flight altitude of 52 kilometers, a takeoff thrust of 1.5 kN, a takeoff weight of 34 kilograms, and a diameter of 11 centimeters. The Arcas was 2.30 m long and had a fin span of 0.33 m.

Areotech	**HV Arcas**	**#89012**
Estes	**ARCAS**	**K-26 or 1226**
Madcow	**Arcas HV**	**K-144**
Semroc	**SLS Arcas**	**KS-5**
Semroc	**Arcas**	**KS-8**
Thrustline	**Arcas**	**TACL-017**

Arcon Sounding Rocket Family

American sounding rocket. Similar to the Deacon and Cajun. Developed by the Atlantic Research Corp. for NRL. First used in 1958. Designed to lift 18 kg to 113 km. The two-stage vehicle consisted of two Arcon motors in tandem.

Centuri	**Arcon**	**KB-2**
Centuri	**Arcon**	**KC-1 or #5061**
Centuri	**Arcon-Hi**	**KC-3 or #5063**

Semroc	**Arcon**	**KV-7**
Semroc	**Arcon-Hi**	**KV-15**

AstrobeeSounding Rocket Family

Astrobee is the designation of series of American sounding rockets with 1 - 3 stages. Several versions were realized.

The three-stage Astrobee 500 (first stage: Genius, second stage: Alcor, third stage: Asp) has a ceiling of 1000 km, a takeoff thrust of 161 kN, a takeoff weight of 900 kg, a diameter of 0.38 m and a length of 7.80 m.

The three-stage Astrobee 1500 (first stage: Recruit, second stage: Aero jet, third stage: Alcor) has a ceiling of 1000 km, a takeoff thrust of 566 kN, a takeoff weight of 5200 kg, a diameter of 0.79 m and a length of 10.40 m.

The two-stage Astrobee 200 (first stage: Genius, second stage: Alcor) has a ceiling of 350 km, a takeoff thrust of 161 kN, a takeoff weight of 800 kg, a diameter of 0.38 m and a length of 6.30 m.

The single-stage Astrobee D has a ceiling of 140 km, a takeoff thrust of 23.00 kN, a takeoff weight of 100 kg, a diameter of 0.15 m and a length of 3.90 m.

The single-stage Astrobee F has a ceiling of 375 km, a takeoff thrust of 178.00 kN, a takeoff weight of 1500 kg, a diameter of 0.38 m and a length of 11.50 m.

Centuri	**Astrobee 350**	**KC-5 or #5065**
Yank	**Astrobee D**	

(Carde) Black Brant II Sounding Rocket Family

The Black Brant is a Canadian-designed sounding rocket built by Bristol Aerospace in Winnipeg, Manitoba. Over 800 Black Brants of various versions have been launched since they were first produced in 1961, and the type remains one of the most popular sounding rockets ever built. They have been repeatedly used by the Canadian Space Agency and NASA.

Cosmodrome	**Black Brant II**	
Estes	**Black Brant II**	**#1958**
Madcow Rocketry	**Black Brant II (2.6")**	**K-153**

(Carde) Black Brant IV Sounding Rocket Family

The Black Brant is a Canadian-designed sounding rocket built by Bristol Aerospace in Winnipeg, Manitoba. Over 800 Black Brants of various versions have been launched since they were first produced in 1961, and the type remains one of the most popular sounding rockets ever built. They have been repeatedly used by the Canadian Space Agency and NASA.

ARG	**Black Brant IV**

(Carde) Black Brant V Sounding Rocket Family

The Black Brant V was essentially a Black Brant II with an improved propellant, a lighter casing, smaller fins and a redesigned nose cone. It was designed to carry 70 kg (150 lb) to 320 km (200 miles). This version eventually became the Black Brant VB, while a variant with the BB II's propellant was labeled Black Brant VA. The Black Brant VC was a four-finned version of the BB VB. The BB VA first flew successfully in April 1964, but it was not before June 1965 that the ultimate BB VB lifted off for the first time. The BB V series was highly successful, and has been widely used by NASA, NRCC and other research organizations. More than than 200 rockets of this type have been fired so far, and NASA is still firing about one BB VB/VC per year. The U.S. Air Force's Cambridge

Research Lab (AFCRL) has also launched more than 20 BB VA/VB/VC rockets, the last one in February 1974. The last USAF BB VC launch, an unidentified test mission, occurred in August 1996.

Cosmodrome	**Black Brant VC**

(Carde) Black Brant X Sounding Rocket Family

Canadian sounding rocket. Three stage vehicle consisting of 1 x Terrier + 1 x Black Brant VB or VC + 1 x Nihka. Payload 90 kg to 1,200 km or 317 kg to 550 km.

The Black Brant X rocket system was a three-stage system, and unique because the third stage motor was ignited once the vehicle system reached exoatmospheric conditions. The first stage booster consisted of a Terrier MK 12 Mod 1 rocket motor with four 0.22 square meter fin panels arranged in a cruciform configuration. The finless third stage was the Nihka rocket motor, developed specifically for the Black Brant X rocket system by Bristol Aerospace. The standard payload configuration for the Black Brant X vehicle was 44 cm in diameter with a 3:1 ogive nose shape. Payload length and weight limits for the Black Brant X were the same as the Black Brant V. Standard hardware systems available for Black Brant V motors included aft recovery systems, payload separation systems (including High Velocity Separation System) and despin systems. These units were modular "stackable" so that a great deal of flexibility existed in meeting experiment requirements.

Yank	**Black Brant X (2”)**
Yank	**Black Brant X (3”)**
Yank	**Black Brant X (4”)**

(Sandia) D Region Tomahawk Sounding Rocket Family

The Tomahawk, based on the Thiokol TE-416 Motor, was designed by the Sandia Corp. as a small sounding rockets in the International Quiet Sun Year (IQSY) in 1963. Initial tests from Tonopah, Nevada and Point Mugu, California failed. The fourth launch from Wallops Island was a success, but it was not used in the IQSY experiments. NASA used another Version, the D-Region Tomahawk in 1968, but little further use of it was made.

Although it lacked success as a single stage sounding rocket, it was highly successful as the second stage on Nike, Terrier, Taurus (Honest John), Ute, Paiute and Sandhawk boosters. Several hundred of these configurations were launched.

CMR	**D-Region Tomahawk**	**S1**
Estes	**D-Region Tomahawk**	**#1944**
Estes	**D-Region Tomahawk**	**#2037**
Neubauer	**D-Region Tomahawk**	
Pratt Hobbies	**D-Region Tomahawk (MMX)**	
Semroc	**I.Q.S.Y Tomahawk**	**KD-2**
Thrustline	**D-Region Tomahawk**	**TA-024**
Yank	**IQSY Tomahawk (3”)**	
Yank	**IQSY Tomahawk (4”)**	

(Sandia) Doorknob Sounding Rocket Family

American test vehicle. Test vehicle developed by Sandia for aeronomy measurements during atmospheric nuclear tests. One (Doorknob-1) or two surplus Lacrosse (Doorknob-2) missile motors were mated with the payload section.

IRIS Sounding Rocket Family

The Iris sounding rocket was built by Atlantic Research under contract from the rocket group of the Naval Research Laboratory (NRL). It was designed to combine the smooth acceleration profile of the liquid-fueled Aerobee with the simpler operation of solid-propellant rockets. When NRL's rocket group was transferred to NASA, the Iris became a NASA program. The first launch of the rocket occurred on 22 July 1960.

The Iris was fired from a launch tower, which stabilized the vehicle until the speed was high enough for the fins to become effective. A booster consisting of 7 clustered solid-fueled rockets provided a the initial accleration, and fell free before the Iris left the tower. With a payload of 45 kg (100 lb), the sounding rocket could reach an altitude of 320 km (200 miles). However, the Iris was apparently not regarded as a standard tool, because only four Iris rockets were launched by NASA (the last one in May 1962) with aeronomy payloads.

The U.S. Navy used the Iris rocket in the Hydra-Iris project. This vehicle was a modified three-finned Iris boosted by three Sparrow motors. It was launched from a floating, immersed sea platform. The advantage of this method was that the sounding rocket could be fired from any spot in the open ocean without the risk of a ship-board rocket launch. Between 10 August 1964 and 3 November 1968, eight Hydra-Iris rockets were launched, two of which failed. The payloads included magnetospheric, ionospheric and XR astronomy experiments.

Centuri	**Iris**	**KC-14 or #5074**
Semroc	**Iris**	**KD-4**
Yank	**Iris (2")**	
Yank	**Iris (3")**	
Yank	**Iris (4")**	

(Goddard) Nell Sounding Rocket Family

Goddard launched the first liquid-fueled (gasoline and liquid oxygen) rocket on March 16, 1926, in Auburn, Massachusetts. Present at the launch were his crew chief, Henry Sachs, Esther Goddard, and Percy Roope, who was Clark's assistant professor in the physics department.

Viewers familiar with more modern rocket designs may find it difficult to distinguish the rocket from its launching apparatus in the well-known picture of "Nell". The complete rocket is significantly taller than Goddard, but does not include the pyramidal support structure which he is grasping. The rocket's combustion chamber is the small cylinder at the top; the nozzle is visible beneath it. The fuel tank, which is also part of the rocket, is the larger cylinder opposite Goddard's torso. The fuel tank is directly beneath the nozzle, and is protected from the motor's exhaust by an asbestos cone. Asbestos-wrapped aluminum tubes connect the motor to the tanks, providing both support and fuel transport. This layout is no longer used, since the experiment showed that this was no more stable than placing the rocket engine at the base. By May, after a series of modifications to simplify the plumbing, the engine was placed in the now classic position, at the lower end of the rocket.[citation needed] This was just ten years after colonel Ivan Platonovich Grave's first launch in 1916 (patent in 1924).

Fliskits	**Nell**	**SC003**

Nike Apache Sounding Rocket Family

The Nike Apache was a two-stage sounding rocket used by NASA to loft instruments into the upper atmosphere. The Nike Apache was launched 636 times between 1961 and 1978. It was a

popular rocket due to its low cost (6000 USD) and ability to be fired from many locales.

The Nike Apache was used to carry a variety of payloads to study a wide range of topics including radio astronomy, meteorology, aeronomy, atmospheric conditions, plasma physics, and solar physics. NASA flew them from Brazil, Canada, India, Norway, Pakistan, Spain, Suriname, Sweden, all across the US, and off the USS Croatan (CVE-25). The maximum payload weight was 80 lbs (36 kg) and the maximum altitude about 125 miles (200 km).

The Nike-Apache configuration was also used by one variation of the MQR-13 BMTS target rocket

Cosmodrome	**Nike Apache**	
Estes	**Nike Apache**	**#1957**

Nike Smoke Sounding Rocket Family

Centuri	**Nike Smoke**	**KE-3 or #5183**
Centuri	**Nike Smoke**	**KS-15 or #5145**
Cosmodrome	**Nike Smoke**	
Estes	**Nike Smoke**	**#9704**
FSI	**Nike Smoke**	**#1030**
InFlight	**Nike Smoke**	**IF-K114**
ModelRockets.US	**Nike Smoke 2.6:**	**#01039**
Neubauer	**Micro Nike Smoke**	
Performance Rocketry	**1/4 Scale Nike Smoke**	
Performance Rocketry	**1/3 Scale Nike Smoke**	
Polecat Aerospace	**4" Nike Smoke**	**#23**
Polecat Aerospace	**10" Nike Smoke**	**#6**

(Sandia) Sandhawk Sounding Rocket Family

The Sandhawk was a sounding rocket developed by Sandia National Laboratories in 1966. This single-stage, sub-orbital rocket had a mass of 700 kg (1,540 lb), a takeoff thrust of 80 kN (18,000 lbf), and could reach heights around 200 km or so. Sandia launched eight of these rockets between 1966 and 1974 as part of experiments conducted for the United States Atomic Energy Commission. About 25% of the launches failed.

Yank	**Sandhawk (2”)**
Yank	**Sandhawk (3”)**

WAC Corporal Sounding Rocket Family

The WAC or WAC Corporal was the first sounding rocket developed in the United States. Begun as a spinoff of the Corporal program, the WAC was a "little sister" to the larger Corporal. It was designed and built jointly by the Douglas Aircraft Company and the Guggenheim Aeronautical Laboratory.

The WAC Corporal was a liquid-fuel rocket, with fuming nitric acid and aniline used as oxidizers and furfuryl alcohol as fuel, launched with the help of a solid fuel Tiny Tim booster.

The first WAC Corporal dummy round was launched on September 16, 1945 from White Sands Missile Range near Las Cruces, New Mexico. After a White Sands V-2 rocket had reached 69 miles on May 10, a White Sands WAC Corporal reached 80 km (49 mi) on May 22, 1946 — the first U.S.-designed rocket to reach the edge of space (under the U.S. definition of space at the time). On February 24, 1949, a Bumper (a German V-2 rocket acting as first stage) bearing a WAC Corporal at White Sands accelerated to 5,150 mph to become the first flight of more than five times the speed

of sound.

Scientists were later surprised when almost a year after the launch, tail fragments of the WAC Corporal rocket that reached 5,150 mph and an altitude of over 250 miles, were found and identified in the New Mexico desert near the launch site.

A few WAC Corporals survive in museums, including one at the National Air and Space Museum and another in the White Sands Missile Range Museum.

ASP	**18mm WAC Corporal**	**KWAC-18**
ASP	**Micro WAC Corporal**	**KWAC-MM**
Estes	**WAC Corporal**	**K-11 or #1211**
Thrustline	**WAC Corporal**	**TACL-014**

Aircraft Families

This consists of airplanes and other aircraft not normally thought of as “rockets”..

F-104 Starfighter Aircraft Family

The Lockheed F-104 Starfighter is a single-engine, high-performance, supersonic interceptor aircraft originally developed for the United States Air Force (USAF) by Lockheed. One of the Century Series of aircraft, it served with the USAF from 1958 until 1969, and continued with Air National Guard units until it was phased out in 1975. The National Aeronautics and Space Administration (NASA) flew a small mixed fleet of F-104 types in supersonic flight tests and spaceflight programs until they were retired in 1994.

USAF F-104Cs saw service during the Vietnam War, and F-104A aircraft were deployed by Pakistan briefly during the Indo-Pakistani wars. Republic of China Air Force (Taiwan) F-104s also engaged the People's Liberation Army Air Force (China) over the disputed island of Quemoy. The ultimate production version of the basic fighter model F-104 was the F-104S all-weather interceptor designed by Aeritalia for the Italian Air Force, and equipped with radar-guided AIM-7 Sparrow missiles. An advanced F-104 with a high-mounted wing, known as the CL-1200 Lancer, did not proceed past the mock-up stage.

A set of modifications produced the F-104G model, which won a NATO competition for a new fighter-bomber. Several two-seat trainer versions were also produced, the most numerous being the TF-104G. A total of 2,578 Starfighters were eventually produced, mostly by NATO members. The F-104 served with the air forces of over a dozen nations. The operational service of the Starfighter ended with its retirement by the Italian Air Force in May 2004, some 46 years after its introduction in 1958 by the USAF.

Fat Cat	**F104 Starfighter**

X-15 Aircraft Family

The North American X-15 rocket-powered aircraft/spaceplane was part of the X-series of experimental aircraft, initiated with the Bell X-1, that were made for the USAAF/USAF, NACA/NASA, and the USN. The X-15 set speed and altitude records in the early 1960s, reaching the edge of outer space and returning with valuable data used in aircraft and spacecraft design. As of 2012, it holds the official world record for the fastest speed ever reached by a manned rocket-powered aircraft.

During the X-15 program, 13 different flights by eight pilots met the USAF spaceflight

criteria by exceeding the altitude of 50 miles (80 km) thus qualifying the pilots for astronaut status. The USAF pilots qualified for USAF astronaut wings, while the civilian pilots were awarded NASA astronaut wings in 2005, 35 years after the last X-15 flight.

Of all the X-15 missions, two flights (by the same pilot) qualified as space flights per the international (Fédération Aéronautique Internationale) definition of a spaceflight by exceeding 100 kilometers (62.1 mi, 328,084 ft) in altitude.

Cox **X-15** **#5000**

Launch Vehicle Families

Ares I Launch Vehicle Family

Ares I was the crew launch vehicle that was being developed by NASA as part of the Constellation Program. The name "Ares" refers to the Greek deity Ares, who is identified with the Roman god Mars. Ares I was originally known as the "Crew Launch Vehicle" (CLV).

NASA planned to use Ares I to launch Orion, the spacecraft intended for NASA human spaceflight missions after the Space Shuttle was retired in 2011. Ares I was to complement the larger, unmanned Ares V, which was the cargo launch vehicle for Constellation. NASA selected the Ares designs for their anticipated overall safety, reliability and cost-effectiveness. However, the Constellation program, including Ares I was canceled in October 2010 by the passage of the 2010 NASA authorization bill. Existing Constellation contracts remain in place until Congress passes a new funding bill.

Dr. Zooch **Ares I-X**

Atlas Agena Launch Vehicle Family

The Atlas-Agena was an American expendable launch system derived from the SM-65 Atlas missile. It was a member of the Atlas family of rockets, and was used for 119 orbital launches between 1960 and 1978.

The Atlas-Agena was a two and a half stage rocket, with a stage and a half Atlas missile as the first stage, and an RM-81 Agena second stage. Initially, Atlas D missiles, redesignated as the LV-3, were used as the first stage. These were later replaced by the standardised Atlas SLV-3, and its derivatives, the SLV-3A and B. The final Atlas-Agena launch used an Atlas E/F.

Launches were conducted from Launch Complexes 12, 13 and 14 at the Cape Canaveral Air Force Station, and Launch Complexes 1 and 2 at Point Arguello (now SLC-3 and 4 at Vandenberg Air Force Base).

Dr Zooch **Atlas Agena**

Delta II Launch Vehicle Family

Delta II was an American space launch system, originally designed and built by McDonnell Douglas. Delta II is part of the Delta rocket family and was in service from 1989 until November 1, 2011. Delta II vehicles included the Delta 6000, the Delta 7000, and two 7000 variants ("Light" and "Heavy").

After McDonnell Douglas merged with Boeing in 1997, Delta II rockets were built by Boeing Integrated Defense Systems, until Delta rocket production became the responsibility of United Launch Alliance (ULA) on December 1, 2006. ULA now markets Delta II to U.S. government cus-

tomers, and Boeing Launch Services (BLS) markets Delta II to commercial companies

DFR Technologies	**Delta II (18mm)**

Delta IV Launch Vehicle Family

Delta IV is an active expendable launch system in the Delta rocket family. Delta IV uses rockets designed by Boeing's Integrated Defense Systems division and built in the United Launch Alliance (ULA) facility in Decatur, Alabama. Final assembly is completed at the launch site by ULA. The rockets were designed to launch payloads into orbit for the United States Air Force Evolved Expendable Launch Vehicle (EELV) program and commercial satellite business. Delta IV rockets are available in five versions: Medium, Medium+ (4,2), Medium+ (5,2), Medium+ (5,4), and Heavy, which are tailored to suit specific payload size and weight ranges. Delta IV was primarily designed to satisfy the needs of the U.S. military.

The rockets are assembled at the Horizontal Integration Facility for launches from SLC-37B at Cape Canaveral, and in a similar facility for launches from SLC-6 at Vandenberg AFB.

DFR Technologies	**Delta IV Medium 5+4 (24mm)**

Falcon 9 (Space X) Launch Vehicle Family

Falcon 9 is a rocket-powered spaceflight launch system designed and manufactured by SpaceX, headquartered in Hawthorne, California. Both stages of its two-stage-to-orbit vehicle use liquid oxygen (LOX) and rocket-grade kerosene (RP-1) propellants. The Falcon 9 can lift payloads of 10,450 kilograms (23,000 lb) to low Earth orbit, and 4,450 kilograms (9,800 lb) to geostationary transfer orbit, which places the Falcon 9 design in the medium-lift range of launch systems.

The first Falcon 9 flight was launched, after several delays, from Cape Canaveral Air Force Station on June 4, 2010, at 2:45 pm EDT (19:45 UTC) with a successful orbital insertion.

The second launch of the Falcon 9, and the first of the SpaceX Dragon spacecraft atop it, occurred at 10:43 EST (15:43 UTC) on December 8, 2010, from Cape Canaveral. The Dragon spacecraft completed two orbits, then splashed down in the Pacific Ocean.

The Falcon 9 and Dragon combination won a Commercial Resupply Services (CRS) contract from NASA to resupply the International Space Station under the Commercial Orbital Transportation Services (COTS) program.

SpaceX	**Falcon 9 with Dragon**

Gemini Titan Launch Vehicle Family

Project Gemini was the second human spaceflight program of NASA, the civilian space agency of the United States government. Project Gemini was conducted between projects Mercury and Apollo, with ten manned flights occurring in 1965 and 1966. Its objective was to develop space travel techniques in support of Apollo, which had the goal of landing men on the Moon. Gemini achieved missions long enough for a trip to the Moon and back, perfected extra-vehicular activity (working outside a spacecraft), and orbital maneuvers necessary to achieve rendezvous and docking. All manned Gemini flights were launched from Cape Canaveral, Florida using the Titan II GLV launch vehicle

Estes	**Gemini-Titan**	**K-21 or #1221**
Estes	**Gemini Titan**	**#1978**
Neubauer	**Gemini Titan (4")**	
Neubauer	**Micro Gemini Titan**	
Sheri's Hot Rockets	**Gemini Titan**	

Juno I Launch Vehicle Family

The Juno I was a four-stage American booster rocket which launched America's first satellite, Explorer 1, in 1958. A member of the Redstone rocket family, it was derived from the Jupiter-C sounding rocket. It is commonly confused with the Juno II launch vehicle, which was derived from the PGM-19 Jupiter medium-range ballistic missile.

Neubauer	**1/100 Juno I**

Juno II Launch Vehicle Family

Juno II was an American space launch vehicle used during the late 1950s and early 1960s. It was derived from the Jupiter missile, which was used as the first stage.

Dr Zooch	**Juno II**

Little Joe Lauch Vehicle Family

Little Joe was an unmanned United States solid-fueled booster rocket used for eight launches from 1959–1960 from Wallops Island, Virginia to test the launch escape system and heat shield for Project Mercury capsules, as well as the name given to the test program using the booster. The first rocket designed solely for manned spacecraft qualifications, Little Joe was also one of the pioneer operational launch vehicles using the rocket cluster principle.

A successor, Little Joe II, was used for flight testing of the Apollo launch escape system from 1963–1966.

Dr Zooch	**Mercury Little Joe**
Neubauer	**Little Joe I**
Urban Kartonmodelle	**Mercury Little Joe**

Little Joe II Launch Vehicle Family

Little Joe II was an American space launch vehicle used for five unmanned tests of the launch escape system (LES) and to verify the performance of the command module parachutes for the Apollo spacecraft from 1963–66. Launched from White Sands Missile Range in New Mexico, it was the smallest of four boosters used in the Apollo program

Centuri	**Little Joe II (1/45)**	**KS-8 or #5138**
Centuri	**Little Joe II (1/100)**	**KS-9 or #5139**
Cox	**Apollo Little Joe II**	**#5100**
Estes	**Little Joe II (1/100)**	**#0892**
Quest	**Little Joe II (MMX)**	**#5611**
Semroc	**Little Joe II**	**KS-3**

Mercury Atlas Launch Vehicle Family

Mercury-Atlas was a subprogram of Project Mercury which comprised most of the flights and tests using the Atlas LV-3B launch vehicle. The Atlas was also used for one Mercury flight under the Big Joe subprogram.

Estes	**Mercury Atlas**	**#2111**
Neubauer	**Mercury Atlas (1/100)**	

Mercury Redstone Launch Vehicle Family

The Mercury-Redstone Launch Vehicle, designed for NASA's Project Mercury, was the first American manned space booster. It was used for six sub-orbital Mercury flights from 1960–61;

culminating with the launch of the first, and 11 weeks later, the second American (and the second and third humans) in space.

A member of the Redstone rocket family, it was derived from the U.S. Army's Redstone ballistic missile and the first stage of the related Jupiter-C launch vehicle; but to make it man-rated, its structure and systems were modified to improve safety and reliability.

The four subsequent Mercury manned flights used the more powerful Atlas booster to enter low Earth orbit.

Centuri	**Mercury Redstone**	**KS-1 or #5131**
Dr Zooch	**Mercury Redstone**	
Estes	**Mercury Redstone**	**K-41 or #1241**
Estes	**Mercury Redstone**	**#1921**
Neubauer	**Mercury Redstone 1/100**	
Neubauer	**Mercury Redstone 2.6"**	
Neubauer	**Mercury Redstone 4"**	
Sheri's Hot Rockets	**Mercury Redstone**	

Saturn I Launch Vehicle Family

The Saturn IB (pronounced "one B", alternatively known as the Uprated Saturn I) was an American launch vehicle commissioned by the National Aeronautics and Space Administration (NASA) for use in the Apollo program. It was an uprated version of the Saturn I rocket, which replaced its S-IV second stage with the much more powerful S-IVB, which gave it enough payload capability to allow it be used for early testing of the Apollo spacecraft while the larger Saturn V needed to send Apollo to the Moon was still being developed. Unlike the earlier Saturn I, it could launch either the partially fueled Apollo Command/Service Module (CSM), or the fully fueled Lunar Module (LM) into low Earth orbit.

The Saturn IB was used for two unmanned CSM suborbital flights, one unmanned LM orbital flight, and for the first manned CSM orbital mission (first planned for Apollo 1, later Apollo 7). It was also used for one orbital mission, AS-203, in which it carried neither a CSM nor a LM, so that the S-IVB would have unburned liquid hydrogen fuel remaining in its tank in orbit. The purpose of this mission was to support design of the restartable version of the S-IVB used in the Saturn V, by observing the behavior of the liquid hydrogen in weightlessness.

After completion of the Apollo Moon landing program, the Saturn IB was used to launch the Apollo CSM on three crew missions to the Skylab space station, and a joint US-USSR space mission, the Apollo Soyuz Test Project.

Centuri	**Saturn 1B**	**KS-10 or #5140**
Cox	**Uprated Saturn 1B**	**#5025**
Dr Zooch	**Saturn SA5**	
Estes	**Saturn 1B**	**K-29 or #1229**
Estes	**Saturn 1B**	**#2048**
Neubauer	**Micro Saturn 1B**	
Roachwerks	**Saturn 1B**	
Semroc	**Saturn 1B**	**KS-1**

Saturn V Launch Vehicle Family

The Saturn V (pronounced "Saturn Five") was an American human-rated expendable rocket used by NASA's Apollo and Skylab programs from 1967 until 1973. A multistage liquid-fueled launch

vehicle, NASA launched 13 Saturn Vs from the Kennedy Space Center, Florida with no loss of crew or payload. It remains the tallest, heaviest and most powerful rocket ever brought to operational status and still holds the record for the heaviest launch vehicle payload.

The largest production model of the Saturn family of rockets, the Saturn V was designed under the direction of Wernher von Braun and Arthur Rudolph at the Marshall Space Flight Center in Huntsville, Alabama, with Boeing, North American Aviation, Douglas Aircraft Company, and IBM as the lead contractors. Von Braun's design was based in part on his work on the Aggregate series of rockets, especially the A-10, A-11, and A-12, in Germany during World War II.

To date, the Saturn V is the only launch vehicle to transport human beings beyond Low Earth Orbit. A total of 24 men were flown out to the Moon in the four years spanning December 1968 through December 1972.

Apogee	**Saturn V**	**#05026**
Centuri	**Saturn 5**	**KS-12 or #5142**
Cox	**Apollo Saturn V**	**#5075**
Dr Zooch	**Saturn V**	
Estes	**Saturn V**	**K-36 or #1236**
Estes	**Saturn V**	**#2001**
Estes	**Saturn V**	**#2157**
Estes	**Semi-Scale Saturn V**	**K-39 or #1239**
Neubauer	**Micro Saturn V**	

Soyuz Launch Vehicle Family

Soyuz is a family of expendable launch systems developed by OKB-1, and manufactured by TsSKB-Progress in Samara, Russia. According to the European Space Agency, the Soyuz launch vehicle is the most frequently used and most reliable launch vehicle in the world.

The Soyuz vehicles are used as the launcher for the manned Soyuz spacecraft as part of the Soyuz program, as well as to launch unmanned Progress supply spacecraft to the International Space Station and for commercial launches marketed and operated by Starsem and Arianespace. All Soyuz rockets use RP-1 and liquid oxygen (LOX) propellant, with the exception of the Soyuz-U2, which used Syntin, a variant of RP-1, with LOX. In the United States, it has the Library of Congress designation A-2. The Soyuz family is a subset of the R-7 family.

Dr Zooch	**Soyuz**

Titan III Launch Vehicle Family

The Titan III was a modified Titan II with optional solid rocket boosters. It was developed on behalf of the United States Air Force as a heavy-lift satellite launcher to be used mainly to launch American military payloads and civilian intelligence agency satellites such as the Vela Hotel nuclear-test-ban monitoring satellites, observation and reconnaissance satellites (for intelligence-gathering), and various series of defense communications satellites.

The Titan IIIA was a prototype rocket booster, which consisted of a standard Titan II rocket with a Transtage upper stage. The Titan IIIB with its different versions (23B, 24B, 33B, and 34B) had the Titan III core booster with an Agena D upper stage. This combination was used to launch the KH-8 GAMBIT series of intelligence-gathering satellites. They were all launched from Vandenberg Air Force Base, California, due south over the Pacific into polar orbits. Their maximum payload mass was about 7,500 lb (3,000 kg).

The powerful Titan IIIC used a Titan III core rocket with two large strap-on solid-fuel boosters to increase its launch thrust, and hence the maximum payload mass capability. The solid-fuel

boosters that were developed for the Titan IIIC represented a significant engineering advance over previous solid-fueled rockets, due to their large size and thrust, and their advanced thrust-vector control systems. The Titan IIID was a derivative of the Titan IIIC, without the upper transtage, that was used to place members of the Key Hole series of reconnaissance satellites into low Earth orbits. The Titan IIIE, the one with an additional high-specific-impulse Centaur upper stage, was used to launch several scientific spacecraft, including both of NASA's two Voyager space probes to Jupiter, Saturn and beyond, and both of the two Viking missions to place two orbiters around Mars and two instrumented landers on its surface.

The first guidance system for the Titan III used the AC Spark Plug company IMU (inertial measurement unit) and an IBM ASC-15 guidance computer from the Titan II. For the Titan III, the ASC-15 drum memory of the computer was lengthened to add 20 more usable tracks, which increased its memory capacity by 35%.

The more-advanced Titan IIIC used the Delco Carousel VI IMU and the Magic 352 guidance computer.

Dr Zooch	**Titan IIIc SLV5**

V-2 Launch VehicleFamily

The V-2 rocket (German: Vergeltungswaffe 2, i.e. retaliation weapon 2), technical name Aggregat-4 (A4), was a ballistic missile that was developed at the beginning of the Second World War in Germany, specifically targeted at London and later Antwerp. The liquid-propellant rocket was the world's first long-range combat-ballistic missile and first known human artifact to enter outer space. It was the progenitor of all modern rockets, including those used by the United States and Soviet Union's space programs. During the aftermath of World War II the American, Soviet and British governments all gained access to the V-2's technical designs and the actual German scientists responsible for creating the rockets, via Operation Paperclip, Operation Osoaviakhim and Operation Backfire.

The weapon was presented by Nazi propaganda as a retaliation for the bombers that attacked ever more German cities from 1942 until Germany surrendered.

Over 3,000 V-2s were launched as military rockets by the German Wehrmacht against Allied targets during the war, mostly London and later Antwerp. The attacks resulted in the death of an estimated 7,250 military personnel and civilians, while 12,000 forced labourers were killed producing the weapons

ASP	**V-2 (24mm)**	**#KV2-24**
Apogee Components	**Micro V-2**	**#5021**
Centuri	**V2**	**KS-19 or #5149**
Currell Graphics	**V-2 Rocket**	
Estes	**Maxi Brute V-2**	**#K-67 or #1267**
Estes	**Maxi-Brute V-2**	**#1952**
Estes	**V-2**	**K-22 or #1222**
Estes	**V-2**	**#1926**
Hostile Projectiles	**V-2 Rocket**	
LOC/Precision	**3.9" V-2**	**PK-57**
LOC/Precision	**7.5" V2**	**PK-100**
Mountainside Hobbies	**Sport Scale V-2**	**#103**
Mountainside Hobbies	**4" V-2**	**#500**
Noris Raketen	**A-4 Peenemunde**	**#004**
Performance Rocketry	**1/5 Scale V-2**	

Semroc	**V-2 xKit**	**XES-K22**
Thrustline	**V2**	**TA-019**
Thrustline	**V-2**	**TACL-016**

Vostok Launch Vehicle Family

Vostok (translated as "East") was a family of rockets derived from the Soviet R-7 Semyorka ICBM designed for the human spaceflight programme. This family of rockets launched the first artificial satellite ("sputnik") and the first manned spacecraft in human history. It was a subset of the R-7 family of rockets.

Cosmodrome	**Vostok**
Roachwerks	**Vostok**

X-Prize Family

The Ansari X-Prize was to be awarded to the first, non-governmental, repeatable launch into space by a private enterprize. Although many entries registered, most did not make it past the design phase. The prize was won by Scaled Composites' Spaceship One.

Estes	**Canadian Arrow**	**#2188**
Estes	**Cosmos Mariner**	**#2190**
Estes	**Gauchito**	**#0809**
Estes	**Lucky Seven**	**#0807**

Media Families

This is a fairly broad-based category. It includes rockets that were derrived from a common media source. They could be from a television program, a movie or series of movies, a book, or, conceivably, something else.

Battlestar Gallactica Families

This includes both televisions series and the pilot movie.

Battlestar Galactica Colonial Viper Family

Estes	**Colonial Viper**	**#1310**
MoreRockets.Com	**Viper**	**#1310**

Buck Rogers Families

This can include the comic book, the old movie serials or the television series.

Buck Rogers Draconian Marauder Family

Centuri	**Draconian Marauder**	**#5336**

Star Wars Families

This includes all of the movies in the series.

Star Wars Death Star Family

Estes	**Death Star**	**#2143**

Star Wars Naboo Royal Starship Family

Estes	**Royal Starship**	**#1830**

Star Wars R2-D2 Family

Estes	**Mini R2-D2 RTF**	**#1835**
Estes	**R2-D2**	**#1301**
Estes	**R2-D2**	**#1395**
Estes	**R2-D2**	**#1823**
Estes	**R2-D2**	**#2104**
Estes	**R2-D2**	**#2142**

Marketing Families

Manufactuers sometimes lump rockets together as parts of series. The relationship within the series can be almost anything and sometimes boils down to “because we said so.” These series will be listed here.

Centuri Marketing Families

Centuri Stellar Family

Centuri	**Hercules**	**KD-13 or #5213**

Centuri Super Kit Family

Centuri	**E.S.S. Raven**	**#5312**
Centuri	**S.S.V. Scorpion**	**#5307**
Centuri	**U.S.S. America**	**#5310**

Estes Marketing Families

Estes Aerospace Club Family

Estes	**EAC Viper**	**#0820**

Estes Citation Family

Estes	**Patriot**	**KC-3, MK-3 or #0652**
Estes	**Starship Vega**	**KC-4 or #0653**

Estes Coldpower Family

Estes	Scamp	KL-1 or #1101
Estes	Teros	KL-5 or #1105

Estes Collector's Series Family

Estes	Mars Snooper	#2063

Estes Goonybird Family

Estes	Cloud Hopper	#0851

Estes Launchables Family

Estes	Fat Boy	#1273
Estes	Mk-109 Stingray	#1232
Estes	Python 4 ASRAAM	#1245
Estes	US Army Patriot M-104	#1248

Estes Maxi Brute Family

Estes	Maxi Alpha	#1291
Estes	Maxi-Brute V-2	#1952
Estes	(Maxi) Honest John	#2166
Estes	Maxi Honest John	#1269
Estes	Maxi V-2	K-67 or #1267
Estes	Saturn V	#1236

Estes Mini Brute Family

Estes	Big Yank	#0868
Estes	Condor	#0807
Estes	Eclipse	#0846
Estes	Estes Starliner	#0863
Estes	Hornet	TK-4 or #0804
Estes	Javelin	#0815
Estes	Little John	#0819
Estes	Midget	TK-40 or #0840
Estes	Mini Bomarc	TK-5 or #0805
Estes	Mini Mean Machine	#0865
Estes	Mosquito	TK-1 or #0801
Estes	Pegasus	#0806
Estes	Rogue	#0818

Estes Pro Series Family

Estes	Pro Series Patriot Missile	#2066
Estes	Pro Series Jayhawk	#2085

Estes Pro Series II Family

Estes	Leviathan	#9700
Estes	Nike Smoke	#9704

Estes	**Ventris**	**#9701**

Estes X-Prize Family

Estes	**Canadian Arrow**	**#2188**
Estes	**Cosmos Mariner**	**#2190**
Estes	**Gauchito**	**#0809**
Estes	**Lucky Seven**	**#0807**

FlisKits Marketing Families

Fliskits Micro-to-the-Maxx Family

Fliskits	**Honest John**	**MX008**

Fliskits Robert H. Goddard Historic Series Family

Fliskits	**Nell**	**SC003**

Leading Edge Marketing Families

Leading Edge Micro Classics Family

Leading Edge	**Micro Goblin**	**LE-05**
Leading Edge	**Micro Max**	**LE-07**

LOC/Precision Marketing Families

LOC Advanced Series Family

LOC	**Big Nuke**	**PK-82**
LOC	**Bruiser**	**PK-88**
LOC	**Bruiser EXP**	**PK-96**
LOC	**LOC-IV**	**PK-48**
LOC	**Nuke Pro Max**	**PK-5**

LOC ISP Performance Series Family

LOC	**Big Nuke 3E**	**PK-82-3E**
LOC	**EZI-65**	**PK-64**
LOC	**Hi-Tech**	**PK-56**
LOC	**Warlock**	**PK-80**

LOC Mini Missile Family

LOC	**Big Nuke Mini**	**#0174**
LOC	**EZI-65 Mini**	**#0175**

LOC Novice Kit Series Family

LOC	**Lil' Nuke**	**PK-4**
LOC	**Onyx**	**PK-12**

QModeling Marketing Families

QModeling Retro MEGA Family

QModeling	**NIKEX**	
QModeling	**Rogue**	

Quest Marketing Families

Quest Advanced Rocketry Family

Quest	**High-Q**	**#5012**

Semroc Marketing Families

Semroc Centuri Retro Repro Family

Semroc	**Arcon**	**KV-7**
Semroc	**Arcon-Hi**	**KV-15**
Semroc	**Astro-1**	**KV-30**
Semroc	**BatRok**	**KV-53**
Semroc	**Magnum Hornet**	**KV-69**
Semroc	**Centaur**	**KV-12**
Semroc	**Defender Space Probe**	**KV-60**
Semroc	**Excalibur**	**KV-43**
Semroc	**Javelin**	**KV-16**
Semroc	**Laser-X**	**KV-33**
Semroc	**Lil' Hercules**	**KV-14**
Semroc	**Marauder**	**KV-32**
Semroc	**Recruiter Space Probe**	**KV-22**
Semroc	**SLS Explorer**	**KV-56**
Semroc	**SLS Aero-Dart**	**KV-6**
Semroc	**SLS Hustler**	**KV-11**
Semroc	**SLS Lil' Hustler**	**KV-57**
Semroc	**Snipe Hunter**	**KV-51**
Semroc	**SST Shuttle-1 xKit**	**XCE-KC17**
Semroc	**Swift Boost Glider**	**KV-27**
Semroc	**Taurus Fleet Ship**	**KV-42**
Semroc	**Vector V**	**KV-44**

Semroc Deci Scale Family

Semroc	**I.Q.S.Y Tomahawk**	**KD-2**
Semroc	**Iris**	**KD-4**

Semroc Estes Retro Repro Family

Semroc	**Golden Scout**	**KV-4**
Semroc	**Little Joe II**	**KS-3**
Semroc	**Mark xKit**	**XES-K2**
Semroc	**Omega**	**KV-64**
Semroc	**Orbital Transport**	**KV-66**
Semroc	**Saturn 1B**	**KS-1**
Semroc	**SpaceMan**	**XES-K9**
Semroc	**Starship Vega**	**KV-78**

Semroc MMI Retro Repro Family

Semroc	**Aerobee Hi**	**KV-2**

Semroc Ready to Build Family

Semroc	**Mini Explorer**	**KA-22**

Semroc Retro Repro Family

Semroc	**Hydra VII**	**KV-29**

Semroc SLS Family

Semroc	**SLS Aero-Dart**	**KV-6**
Semroc	**SLS Arcas**	**KS-5**
Semroc	**SLS Explorer**	**KV-56**
Semroc	**SLS Hustler**	**KV-11**
Semroc	**SLS Javelin**	**KLV-16**
Semroc	**SLS Laser-X**	**KLV-33**
Semroc	**SLS Lil' Hustler**	**KV-57**

Semroc xKit Family

Semroc	**Mark xKit**	**XES-K2**
Semroc	**SpaceMan**	**XES-K9**
Semroc	**SST Shuttle-1 xKit**	**XCE-KC17**
Semroc	**V-2 xKit**	**XES-K22**

US Rockets Marketing Families

USR Sport and School Family

USR	**Moquito 2.2**	**#1174**

Other Families

Some things are just difficult to categorize any way apart from "other" but they belong together anyway. These families have nothing in common except that they seem to "belong" together.

Egg Lofter Family

The challenge of launching a raw hen's egg and recovering it safely is on that has long appealed to the rocket community. This family features rockets intended to do just that.

CMR	**ELO**	**C3**
CMR	**Robin**	**C9**

Goony Family

The original Goonies were from Estes but they morphed and expanded. They are difficult to define but seem to have the BT-60 body tube in common along with a Baby Bertha Nosecone. People love them and hate them but they are goonies all.

Estes	**Cloud Hopper**	**#0851**
Excelsior	**Der Fat Max**	
Excelsior	**Der Grosser Vati**	
Excelsior	**Goony Max**	
Excelsior	**Goonybird Zero**	
Excelsior	**Honest Goon**	

Parachute Duration Family

This covers all rockets intended for parachute duration competition.

BMS	**Astron Drifter**	**K14**
Centuri	**Starfire**	**KC-12 or #5072**
CMR	**Break Away**	**C1**
CMR	**Paratrooper**	**C8**
Estes	**Astron Drifter**	**K-14 or #1214**
Semroc	**Starfire**	**KV-20**
Thrustline	**Drifter**	**TACL-010**

Scribe Family

There seems to be a fascination with turning writing implements into rockets and launching them. This has been done by several manufacturer. All of these crayons, pencils and pens are lumped together here in the Scribe Family

Art Applewhite	**Bic Stic**

Streamer Duration Family

This covers all rockets designed specifically for streamer duration competition.

CMR	**Start**	**C7**
CMR	**V.I.P.**	**C11**
Estes	**(Astron) Sprint**	**K-49 or #1249**
Thrustline	**Sprint**	**TACL-018**

Tube Fin Family

Rockets that derive their aerodynamic stability from tubes as opposed to planar fins.

BMS	**FSI Viking 1**	**FSIVK1**
Custom	**Razor**	**#10017**
Fliskits	**Long OverDue**	**SP008**
Fliskits	**OverDue**	**OD001**
FSI	**Viking 1**	**MRK-9 or #1009**
FSI	**Viking II**	**MRK-10 or #1010**
FSI	**Viking III**	**MRK-11 or #1011**
FSI	**Viking IV**	**MRK-12 or #1012**
FSI	**Viking V**	**#1029**
LOC	**Cyclotron**	**PK-47**
Neubauer	**Super Tube**	
PemTech	**King Kraken**	
PemTech	**Kraken**	

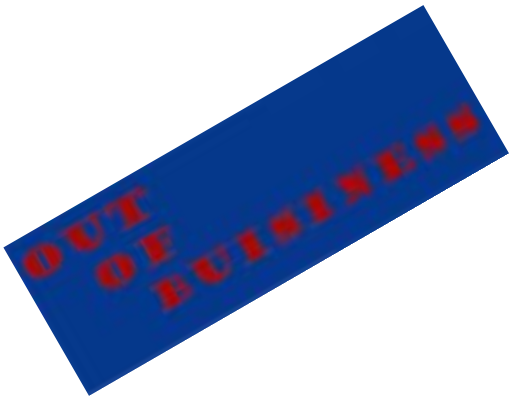
Ace Rocket Mfg.

Ace Rockets

545 N. Orange Grove

San Fernando, CA

91340



Master List for **Ace Rocket Mfg.** by Name

Andante
Mini-Allegro
Shark
Sonic
\Ultra

Andante

MODEL NAME: **Andante** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 42"
Diameter: 2.6"
Span: 8.65"
Weight:

Mfg. Description: The Ace Andante is a classic six fin design for high altitude flights. This high stability rocket was designed as the most reliable kit for low thrust motors like the end burners. Flights to over 2000 ft are possible with F15-4 motors. This kit has been flight tested for drop staging, with F20-0 or F80-0 boosters. Can be modified as an excellent payloader rocket. (Ace Catalog)

Editorial Note:

Catalog Liveries

Unknown Catalog

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

ACE ROCKET MFG.

Mini-Allegro

MODEL NAME: **Mini-Allegro** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Korey Kline

Type: Sport, Cluster
Motor Mount: 4x18mm
Recovery: Parachute
Stages: 1
Length: 37.25"
Diameter: 1.6"
Span: 4.75"
Weight: 12 oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest:

ACE ROCKET MFG.

Shark

MODEL NAME: **Shark** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 36"
Diameter: 4"
Span: 9.25"
Weight:

Mfg. Description: The Ace Shark is designed after the Sears-Haack body of revolution, the most efficient shape for rockets, with its shark like appearance. It is possible to truly combine good looks with high performance. Even with the 4" dia., it still has less drag than a standard 2" model. Flights to 2300 ft are possible with F15-4 motors. Plastic nose cone and boat tail make this kit a pleasure to both build and fly. A real must for any serious rocket collection. (Ace Catalog)

Editorial Note:

Catalog Liveries

Unknown Catalog

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Sonic

ACE ROCKET MFG.

MODEL NAME: **Sonic** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 34"
Diameter: 4"
Span: 9.25"
Weight:

Mfg. Description: he Ace Sonic is the little brother of the Shark, but with a difference. Thru the use of modern computer science we have been able to optimize the performance. This kit has the lowest drag of any kit availible. At .174 CDr computer run simulations show that this kit is capable of speeds approaching mach 1 using a G125 motor. With with the 4" maximum dia. this kit will out perform any 2" dia. model.

Due to the high performance of this kit, it is recommended for advanced rocketeers with high thrust experience. (Ace Catalog)

Editorial Note:

Catalog Liveries

Unknown Catalog

Web Liveries

Face Card(s)

ACE ROCKET MFG.

Ultra

MODEL NAME: **Ultra** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery:
Stages: 1
Length: 52"
Diameter: 4"
Span: 14"
Weight:

Out Of Production

Mfg. Description: The Ace Ultra is designed to be the largest model rocket kit available. Its large simple construction make it an excellent first high power kit. Its super stable design allows a wide variety of motor choices. Flights to 1300 ft. with an F15-4 are possible. This kit has also been flight tested for drop staging using F20-0 or F80-0 as a booster. Its large size provides for slow realistic take offs, a real crowd pleaser at demo launches. (Ace Catalog)

Editorial Note:

Catalog Liveries

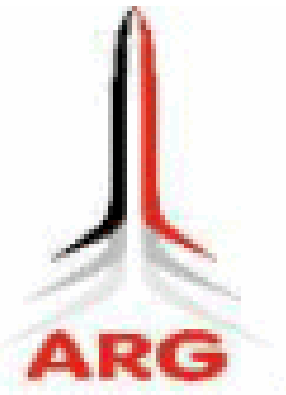
Unknown Catalog

Web Liveries

Face Card(s)

Instruction Header

Also of interest:



Advanced Rocketry Group

(ARG)

Master List for **ARG** by Name

Black Brant IV
Convair MX-774 HIROC
Skyprobe
Trident 13 #117-13

#117-13 Trident 13

Convair MX-774 HIROC

MODEL NAME: **Convair MX-774 HIROC** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 37.5”
Diameter: 3”
Span: 7.75”
Weight: 32 oz

Mfg. Description: America’s first supersonic rocket! Historical scale model, an “in between” vehicle (V-2 and the Atlas), the Convair MX-774 Hiroc.

Our kit contains plastic nose cone, pre-slotted plastic boattail, laser cut centering rings, plywood fins and balsa laminate fins (for that true scale look).

Complete with a 38mm motor mount for the ascent and a highly visible 36” rip stop nylon parachute for the descent.

Spectacular Flights over 1500’ on a Pro38 G motor.

Overall length almost 38” tall, with a 3” diameter and a net weight of approximately 650 grams. (ARG 2008 Web Ad)

Catalog Liveries

Web Liveries

2008

Face Card(s)

Also of interest:

Black Brant IV

MODEL NAME: **Black Brant IV** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 43"
Diameter: 1.72"
Span:
Weight: 4.6oz/130g

Mfg. Description: 1/10th flying scale model of the Canadian sounding rocket, in Bristol Aerospace Limited's 1960's markings. (ARG 2009 Web Ad)

Catalog Liveries

Web Liveries

2009

Face Card(s)

Also of interest:

Skyprobe

MODEL NAME: **Skyprobe** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport, Payload
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 42.5"
Diameter: 2.26"/1.72"
Span:
Weight: 14.2oz/400g.

Mfg. Description: The heavy lift payload carrier rocket with a 2.26" diameter payload section. (ARG 2009 Web Ad)

Catalog Liveries

Web Liveries

2009

Face Card(s)

Also of interest:

Trident 113 (#117-13)

MODEL NAME: **Trident 13** *Also known as*: ***Trident 117-13***

NUMBER: #117-13

Introduced:
Final Year:
Designer:

Type: Sport, Cluster
Motor Mount: 3x13mm
Recovery: Parachute
Stages: 1
Length: 21.25”
Diameter: 1.17”
Span:
Weight:

Mfg. Description: The newest introduction and smallest trident in the series (ARG 2009 Web Ad)

Catalog Liveries

Web Liveries

2009

Face Card(s)

Also of interest:

Aerospace Specialty Products (ASP)

Aerospace Speciality Products

P.O. Box 1408

Gibsonton, FL 33534

Phone: (813) 741-0032

http://www.asp-rocketry.com

About ASP

Thank you for your interest in Aerospace Speciality Products! We manufacture Scale, Competition, Educational and Sport Model Rocket Kits as well as colorful metallized polyester Sport 'Chutes and Hang Time competition recovery devices. Our kits are designed for the modeler who actually likes to build rockets, as opposed to just putting together a totally prefabricated kit - our philosophy is that the more you put into a model, the more pride and enjoyment you get out of it!

We carry a wide variety of top-quality components as well as building and finishing materials. Engines, launch equipment, books, clothing and much more are available as well!

We have been in continuous business under the same ownership for nearly a dozen years, something only a select few speciality rocketry and hobby suppliers can say. We're proud of our quick and reliable service, and even more proud to have been selected as one of the officially recommended vendors for the Team America Rocketry Challenge.

We strive to constantly improve upon our existing products and selection to better serve the rocketry community. We welcome your comments and suggestions as to how we may better serve your needs!

(Company Web Statement 2011)

AEROSPACE SPECIALITY PRODUCTS

Master List for **ASP** by Name

Micro Hawk	KHAWK-MM
Micro Jayhawk	
Micro WAC Corporal	KWAC-MM
Stubby	KSTU-13
V2 (24mm)	KV2-24
WAC Corporal (18mm)	KWAC-18

AEROSPACE SPECIALITY PRODUCTS

Master List for **ASP** by Number

KHAWK-MM	Micro Hawk
KSTU-13	Stubby
KV2-24	V2 (24mm)
KWAC-18	WAC Corporal (18mm)
KWAC-MM	Micro WAC Corporal

Micro Hawk (KHAWK-MM)

MODEL NAME: **Micro Hawk** *Also known as*:

NUMBER: KHAWK-MM

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 4.13"/104.8 mm
Diameter: 0.282"/7.16 mm
Span:
Weight: 0.18 oz/5 gm

Mfg. Description: The Hawk (an acronym for "Homing All-the-Way Killer") was created for the US Army in 1954 and put into service in 1959. Designed as an anti-aircraft missile, the Hawk was also sold to many countries, and later has been used as a sounding rocket for research. The model to the right in the picture is the Hawk.

Our Micro kits are designed to use the Quest TM Micro Maxx TM motors. They are all based on our "Minimum Diameter" T-MM body tubes. As a result they will generally fly higher than most of the other models available for the Micro Maxx TM motors. All kits include Kevlar shock cords, metallized polyester streamers (or Break-Apart recovery), water-slide decals and our usual complete instructions. Due to the small parts involved, these kits are not recommended for the first-time modeler. Younger modelers should have the assistance of an adult when trying to construct these small kits. (ASP 2007 Web Ad)

Catalog Liveries

Web Liveries

2007

2010

Face Card(s)

Micro Jayhawk

MODEL NAME: **Micro Jayhawk** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x6mm
Recovery: Streamer
Stages:
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description: DESC

Catalog Liveries

Web Liveries

2008

Face Card(s)

Micro WAC Corporal (KWAC-MM)

MODEL NAME: **Micro WAC Corporal** *Also known as*:

NUMBER: KWAC-MM

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 7"/177.8 mm
Diameter: 0.282"/7.16 mm
Span:
Weight: 0.23 oz/6.5 gm

Mfg. Description: The Wac Corporal was the United States first sounding rocket. Seventeen Wac and Wac B rockets were flown from 1945 to 1947. The Wac was launched with the aid of the Tiny Tim solid propellant booster. After the booster burned out, it fell away and the liquid fuel propelled sustainer stage continued its' upward flight.

Although it looks like a two-stage kit, this model is cleverly designed to fly on a single Micro motor.

Our Micro kits are designed to use the Quest TM Micro Maxx TM motors. They are all based on our "Minimum Diameter" T-MM body tubes. As a result they will generally fly higher than most of the other models available for the Micro Maxx TM motors. All kits include Kevlar shock cords, metallized polyester streamers (or Break-Apart recovery), waterslide decals and our usual complete instructions. Due to the small parts involved, these kits are not recommended for the first-time modeler. Younger modelers should have the assistance of an adult when trying to construct these small kits. (ASP 2008 Web Ad)

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest:

Stubby (KSTU-13)

MODEL NAME: **Stubby** *Also known as*:

NUMBER: KSTU-13

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 7.25"/18.4 cm
Diameter: 1.637"/41.58 mm
Span:
Weight: 1.5 oz/42.5 gm

Mfg. Description: Cute, fun, easy to build model! Ideal for flying on small fields! Makes a great first or second rocket kit! Designed with the beginner in mind, but it's also a great sport flier for the more experienced modeler.

Features laser-cut balsa fins and balsa nose cone, quick change engine hook and bright parachute recovery. Designed to fly on economical 13 mm "Mini" engines.

Great model to learn basic rocketry modeling. Perfect for school or scout groups - bulk packaging available. (ASP 2011 Web Ad)

Catalog Liveries

Web Liveries

2011

Face Card(s)

V2 (24mm) (KV2-24)

MODEL NAME: **V2 (24mm)** *Also known as*:

NUMBER: KV2-24

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 14.125"/35.88 cm
Diameter: 1.637"/41.6 mm
Span:
Weight: 3.7 oz/105 gm

Mfg. Description: The V - 2 ("Vengeance Weapon 2") is perhaps the most famous, and certainly the most infamous, rocket ever built. Designed by Werner von Braun for the Nazi war effort during WWII, the V - 2 was the world's first large liquid-fueled rocket. Originally designated the A - 4, thousands were built by prisoners during the early 1940s. After the war, many captured V - 2s were flown by the U.S. as well as the Soviet Union. Despite its' horrific inception as a weapon of destruction, the V - 2 was the forerunner of all the large liquid-fuel rockets which were to follow.

Our most popular kit! Like our other V - 2 kits, this model has a pre-drilled balsa boattail & balsa nose cone, laser-cut basswood fins and is accurately scaled. Designed primarily to fly on D12 motors, it will also fly "outta - sight" on a composite E! Also flies great on 18mm Bs & Cs with adapter EA18/24 (not included). (ASP 2011 Web Ad)

Catalog Liveries

Web Liveries

2011

Face Card(s)

WAC Corporal (18mm) (KWAC-18)

MODEL NAME: **WAC Corporal (18mm)** *Also known as*:

NUMBER: KWAC-18

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15.75"/40 cm
Diameter: 0.976"/24.8 mm
Span:
Weight: 1.47 oz/42 gm

Mfg. Description: The Wac Corporal was the United States first sounding rocket. Seventeen Wac and Wac B rockets were flown from 1945 to 1947. The Wac was launched with the aid of the Tiny Tim solid propellant booster. After the booster burned out, it fell away and the liquid fuel propelled sustainer stage continued its' upward flight.

This "Fun - Scale" model of America's first Sounding Rocket is easy to build & flies well on A through C motors - perfect for any size field! (ASP 2011 Web Ad)

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest:

Aerotech Consumer Aerospace

AeroTech Consumer Aerospace Division

RCS Rocket Motor Components, Inc.

2113 W. 850 N. Street

Cedar City, UT 84721

By telephone: 1-435-865-7100

By fax: 1-435-865-7120

http://www.aerotech-rocketry.com

About AeroTech

After the acquisition, AeroTech began to design and develop an advanced line of rocket kits, ground support equipment, igniters and propellant formulations for the "E" through "G" segment of the hobby rocket market. These products were designed to be innovative, durable, easy to assemble with precision, of high quality and with large-rocket adult appeal. AeroTech received a number of patents for these design innovations. The new products first began to be introduced at the end of 1989.

In 1990, AeroTech debuted the revolutionary "RMS™" or Reloadable Motor System™ to the high-power (initially "H" through "K" class) hobby rocket motor market, under the ISP trade name. The RMS was partly based on work that had been performed by ISP during the development of man-rated parachute extraction systems for light aircraft. RMS, then a breakthrough technology, consists of a reusable aluminum alloy casing and separate solid propellant "reload kits". For the first time, hobbyists could fly their rockets for about 1/2 the cost per flight of single-use motors. In 1991, the reloadable motor concept was expanded to include the model rocket portion of the market as well.

In 1995, AeroTech introduced its "RMS/Hybrid™" line of hybrid rocket motors to the high-power rocket motor market. These nitrous oxide and cellulose-fueled reloadable motors offered an alternative to the traditional solid propellant technology and have a per-flight cost of about 1/2 that of solids. AeroTech received a patent for the pyrotechnic valve technology used in the RMS/Hybrid motor in 1996. The hybrid product line was later expanded to include a variation of the hybrid technology that AeroTech has dubbed "RMS/Turbo™". RMS/Turbo combines nitrous oxide injection with a fuel-rich conventional solid propellant for a significant boost in delivered performance at a slightly increased cost per flight.

In 1997, AeroTech introduced the "Econojet" line of single-use motors. AeroTech combined features of performance, design and packaging in the Econojets to create a line of motors that could be sold at a price point midway between its traditional single-use motors and RMS reload kits.

In November 1999, AeroTech was acquired by RocketAdventure, an investment partnership formed by Ken Biba, Dr. Michael Reiner and John Coker, and later joined by Dirk Gates. Also in November, AeroTech introduced its first new kit in several years, the 4" diameter "G-Force", and expanded the Econojet line with the F23 and G38 "Black Max" propellant motors.

In 2000, AeroTech announced two major upgrades to its line of high power RMS motors, the RMS-Plus™ advanced delay sealing system and the FirstFire™ two-lead

igniter. AeroTech and Dr. Franklin Kosdon revealed that an agreement was reached whereby AeroTech would manufacture the Kosdon TRM™ line of reloadable motors under an exclusive licensing arrangement. AeroTech expanded its website to include instructional videos in QuickTime format to assist customers in the assembly of its products. In addition, AeroTech announced the upcoming availability of its new Redline™ propellant formulation.

In May of 2001, AeroTech introduced the Sumo, its second 4" diameter kit and the first to be "convertible" for the use of high power motors. Throughout the Summer of 2001, AeroTech released the previously announced Kosdon TRM™ line under the "Kosdon by AeroTech™" (KBA™) trade name, as well as the Redline™ propellant high power reloads in a wide variety of motor sizes.

On October 15, 2001 AeroTech suffered two devastating fires, the second of which completely destroyed the 1955 South Palm St. propellant and motor manufacturing facilities. Plans were quickly made to rebuild the plant and a suitable site was located in nearby Cedar City, UT. AeroTech initiated construction in early 2002, and the first shipments began from the new facility in April of 2003. Shortly after the fire, AeroTech forged a business relationship with Ellis Mountain Rocket Works of Jacksonville, TX to produce many of its products under a contract manufacturing arrangement.

In April of 2004, the intellectual and physical assets of AeroTech and ISP were purchased by RCS Rocket Motor Components (RCS), Inc., a Utah corporation. RCS initiated the manufacturing of AeroTech and ISP products under the "AeroTech Consumer Aerospace", "Econojet", "Kosdon by RCS", "Industrial Solid Propulsion" and "ISP" brand names.

AeroTech has been producing rocket motors for the motion picture special effects industry since the early 1980's. AeroTech rocket motors have been featured in numerous motion pictures since then, and you can look for them in "Iron Eagle", Delta Force 2", "Tank Girl", "Star Trek: Generations," "Tomorrow Never Dies," and "October Sky". AeroTech also supplies rocket motors to educational institutions and rocket parts to other hobby rocket kit manufacturers. AeroTech kits and motors have been featured in a National Geographic article and PBS television show on thunderstorm research, a Travel Channel special on Ray Halm's "Aries" project, a "Junkyard Wars" episode and a Discovery Channel "Mythbusters" program on the legend of Wan Hu.

The core strength of AeroTech's product line is its composite propellant rocket motor technology. Compared to conventional black powder propellant, composite propellant can produce up to three times the power for the same propellant weight. In addition, composite propellant technology permits the creation of rocket motors with

performance characteristics and sound and visual effects not possible with black powder propellant technology.

Since its founding in 1982, AeroTech has grown to become the largest supplier of "D" through "G" power composite model rocket motors, mid-power rocket kits and related products and "H" through "N" high power rocket motors in the world.

(Company Web Statement 2011)

Master List for **Aerotech** by Name

Arreaux	#89013
G-Force	#89021
HV Arcas	#89012
Initiator	#89011
Stong Arm	#89017
Sumo	#89024
Wart-Hog	#89018

Master List for **Aerotech** by Number

#89011	Initiator
#89012	HV Arcas
#89013	Arreaux
#89017	Strong Arm
#89018	Wart-Hog
#89021	G-Force
#89024	Sumo

Arreaux (#89013)

MODEL NAME: **Arreaux** *Also known as*:

NUMBER: #89013

Introduced: 1989
Final Year:
Designer:

Type: Sport, Payload
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 43"
Diameter: 1.9"
Span:
Weight:

Mfg. Description: The perfect rocket to carry a variety of payloads. Launch altimeters, accelerometers, and other experimental projects. Try flying an egg and recovering it unbroken. (Aerotech 1990 Catalog)

Catalog Liveries

1990

1992

2007

Web Liveries

Face Card(s)

Also of interest:

G-Force (#89021)

MODEL NAME: **G-Force** *Also known as*:

NUMBER: #89021

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 60"
Diameter: 4”
Span:
Weight: 32 oz

Mfg. Description: This kit stands over five feet tall! Featuring a big, four inch diameter, the G-Force provides spectacular, slow lift-offs when powered by Aerotech "G" motors. (2007-08 Aerotech Catalog)

Catalog Liveries

2007

Web Liveries

2012

Face Card(s)

Also of interest:

HV Arcas (#89012)

MODEL NAME: **HV Arcas** *Also known as*:

NUMBER: #89012

Introduced: 1989
Final Year:
Designer: Dan Meyer , Marc McReynolds

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 56"
Diameter: 2.6”
Span:
Weight: 22 oz

Mfg. Description: This replica is 60% the size of the actual high velocity Arcas sounding rocket and features precision molded fins, authentic decals, a data plate and detailed engineering blue-print. (2007-08 Aerotech Catalog)

Catalog Liveries

2007

Web Liveries

Face Card(s)

Also of interest:

Initiator (#89011)

MODEL NAME: Initiator *Also known as*:

NUMBER: #89011

Introduced: 1989
Final Year:
Designer: Bob Sanford

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 39”
Diameter: 2.6”
Span:
Weight: 14 oz

Mfg. Description: The innovative, versatile and durable introduction to advanced model rocket design. Large colorful adhesive decals. (1990 Aerotech Catalog)

Catalog Liveries

1990

1992

2007

Web Liveries

Face Card(s)

Also of interest: Enertek: Initiator: #89814

Strong Arm (#89017)

MODEL NAME: Strong Arm *Also known as*:

NUMBER: #89017

Introduced: 1992
Final Year:
Designer: Bob Sanford

Type: Pseudo Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 44”
Diameter: 2.6”
Span:
Weight: 18 oz

Mfg. Description: Styled after the real military Standard ARM missile, this rocket is a real attention grabber. Fins and strakes are molded plastic to make assembly easy and to give a great finish. Comes with lots of decals to give the Strong Arm just the right look. (Aerotech 1992 Catalog)

Catalog Liveries

1992

2007

Web Liveries

Face Card(s)

Also of interest: Enertek: Strong Arm: #8815

Sumo (#89024)

MODEL NAME: Sumo *Also known as*:

NUMBER: #89024

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 39”
Diameter: 4”
Span:
Weight: 32 oz

Mfg. Description: For those who love to see a short, fat rocket with slow lift offs, this is it! A big, 4 inch diameter kit with impressive decals, the Sumo really stands out! (Aerotech 2007-2008 Catalog)

Catalog Liveries

2007

Web Liveries

Face Card(s)

Also of interest:

Wart Hog (#89018)

MODEL NAME: **Wart Hog** *Also known as*:

NUMBER: #89018

Introduced: 1992
Final Year:
Designer: Bob Sanford

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 37”
Diameter: 2.6”
Span:
Weight: 14 oz

Mfg. Description: As tough and stout as its namesake, the Aerotech Wart-Hog blends E, F, and G performance with the construction convenience of molded fins and self-adhesive decals to create a large rocket of a different breed. (Aerotech 2007-2008 Catalog)

Catalog Liveries

1992

2007

Web Liveries

Face Card(s)

Also of interest:

Always Ready Rocketry (ARR)

Always Ready Rocketry

Dave Ebersole

314 Myrtle street

Mount Vernon, WA 98273

360-336-3533

sales@alwaysreadyrocketry.com

http://www.alwaysreadyrocketry.com

About ARR

I, like a lot of other rocket enthusiasts, got interested in model rocketry when my son, Mike, was in middle school. After building and launching a series of Estes kits in our 3 acre field south of Mount Vernon, Washington, the rocketry hobby fell victim to the reality of not enough time, and insufficient funding, to pursue it any further. After seeing a documentary on the Discovery Channel about launching outhouses and bowling balls in a Midwest field, the spark was again ignited. I looked for a local club here in Northwest Washington. I found and joined the WA Aerospace Club and got really hooked after meeting a great group of creative and excited members. I became a "Born Again Rocketeer".

One of the members I met was John Hawkins. He is a skilled builder and good teacher. He encouraged me and pushed me into attending my first and the largest WAC launch of the year. "Fire in the Sky 2010" was held on the Memorial Day Weekend in the town of Mansfield, Washington. At that launch, with John's help, I certified Level 1 on a modified AeroTech Initiator with an H123W.

During my own building experience and with the lack of a local source of building supplies, I decided to add rocketry supplies to my existing brick & mortar business of almost 20 years, Skagit Lapidary Supply. On July 5th, 2010, Skagit Rocketry was born. I was looking to offer support to the local fliers that helped me get into this hobby.

I wanted to sell Blue Tube because of its strength and affordable price, so I applied to become a Blue Tube dealer and the rest is, as they say, history. I liked the product so much, when an opportunity arose, I bought the company. ARR is now located south of Mount Vernon, Washington.

Yes, like Randy, I too am passionate about Rocketry. Yes, I'm an addict and getting more addicted. Not much has changed. I plan to carry on the legacy of the company that Randy started. You will still find the most common items needed to build and fly rockets right here. Products by LOC, AeroTech and TopFlite, surplus items, the now famous Blue Tube 2.0 airframes and couplers. EX supplies, casting tubes and liners, along with new additions like CNC cut custom fins and centering rings.

We are always interested in adding new products, so send us your suggestions.

Sincerely,

Dave Ebersole

"May all your fights be high, and landings gentle".

(Company Web Statement 2011)

Master List for **ARR** by Name

Basic Blues 38
Basic Blues 3
Basic Blues 4
Predator Jr.

Basic Blues 38

MODEL NAME: **Basic Blues 38** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 44"
Diameter: 38mm
Span:
Weight: ~22 oz

Mfg. Description: Introducing the next line in rocketry kits from ARR, "Basic Blues" a line of economy 3FNC kits for the builder who just want a good solid basic barebones kit featuring Blue Tube 2.0! These rockets all consist of a single deploy configuration with a beautiful 5:1 Ogive plastic nose cone, classic swept fin design, CNC slotted airframes and no hardware or recovery components. You can purchase the electronics bays featured on this site to go along with it, as well as the chutes and shock cords separately, or use your own! Also note that several of the full retail packaged kits below are also offered in a "Basic Blues" configuration as well!

NOTE: When you purchase a Basic Blues kit and an Ebay, the coupler and bulkhead are not used in that configuration. (ARR 2012 Web Ad)

Editorial Note:

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: ARR Basic Blues Family

Basic Blues 3

MODEL NAME: **Basic Blues 3** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x28mm or 1x54mm
Recovery: Parachute
Stages: 1
Length: 63"
Diameter: 3"
Span:
Weight: ~42 oz

Mfg. Description: Introducing the next line in rocketry kits from ARR, "Basic Blues" a line of economy 3FNC kits for the builder who just want a good solid basic barebones kit featuring Blue Tube 2.0! These rockets all consist of a single deploy configuration with a beautiful 5:1 Ogive plastic nose cone, classic swept fin design, CNC slotted airframes and no hardware or recovery components. You can purchase the electronics bays featured on this site to go along with it, as well as the chutes and shock cords separately, or use your own! Also note that several of the full retail packaged kits below are also offered in a "Basic Blues" configuration as well!

NOTE: When you purchase a Basic Blues kit and an Ebay, the coupler and bulkhead are not used in that configuration. (ARR 2012 Web Ad)

Editorial Note:

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: ARR Basic Blues Family

Basic Blues 4

MODEL NAME: **Basic Blues 4** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 60"
Diameter: 4"
Span:
Weight: ~60 oz

Mfg. Description: Introducing the next line in rocketry kits from ARR, "Basic Blues" a line of economy 3FNC kits for the builder who just want a good solid basic barebones kit featuring Blue Tube 2.0! These rockets all consist of a single deploy configuration with a beautiful 5:1 Ogive plastic nose cone, classic swept fin design, CNC slotted airframes and no hardware or recovery components. You can purchase the electronics bays featured on this site to go along with it, as well as the chutes and shock cords separately, or use your own! Also note that several of the full retail packaged kits below are also offered in a "Basic Blues" configuration as well!

NOTE: When you purchase a Basic Blues kit and an Ebay, the coupler and bulkhead are not used in that configuration. (ARR 2012 Web Ad)

Editorial Note:

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: ARR Basic Blues Family

Predator Jr.

MODEL NAME: **Predator Jr.** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport, Altitude
Motor Mount: 1x54mm
Recovery: Dual Deploy Parachute
Stages: 1
Length: 65"
Diameter:
Span:
Weight: ~4 lbs.

Mfg. Description: These quasi-minimum diameter kits feature the high quality Acme fin cans nested INSIDE the next size up laser slotted airframe. These kits come fully dual deploy ready with electronics bays and have the longest motor mount tubes available in a kit to accommodate the 54mm Loki L1500 (Predator 10k) and the Aerotech J510W (Predator Jr.) for amazing altitude and velocity. These kits come with a SHRED WARRANTY too. (ARR 2011 Web Ad)

Catalog Liveries

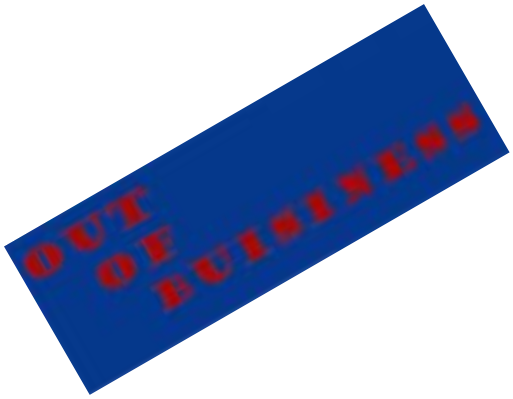
Web Liveries

2011

Face Card(s)

Also of interest:

American Alliance Rocketry



Master List for **American Alliance** by Name

Avenger	F2
Emulator	NB5

Master List for **American Alliance** by *Number*

F2	Avenger
NB5	Emulator

Avenger (F2)

MODEL NAME: **Avenger** *Also known as*:

NUMBER: F2

Introduced:
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

2009

Face Card(s)

Also of interest:

Emulator (NB5)

MODEL NAME: **Emulator** *Also known as*:

NUMBER: NB5

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery:Triple Rear Ejection Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

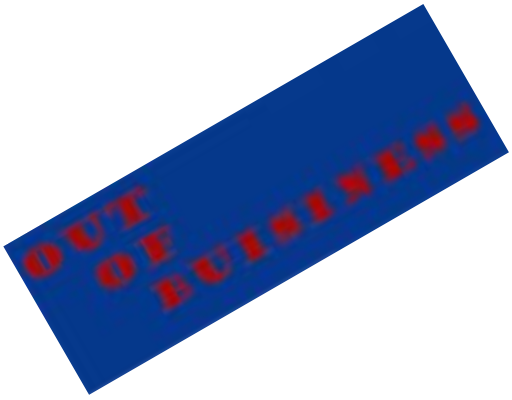
Web Liveries

2009

Face Card(s)

Also of interest:

AMROCS



Master List for **AMROCS** by Name

Wombat	K-5

Master List for **AMROCS** by *Number*

K-5	Wombat

Wombat (K-5)

MODEL NAME: **Wombat** *Also known as*:

NUMBER: K-5

Introduced: 1965
Final Year: 1969
Designer:

Out Of Production

Type: Boost Glider
Motor Mount: 1x18mm
Recovery: Glide
Stages: 1
Length: 8.7"
Diameter: 0.75"
Span: 5.4"
Weight: 0.5 oz

Mfg. Description: The simplicity of this rocket glider makes it ideal as a first boost glider for the new rocketeer or as a quick-to-build contest bird for the more experienced modeler. Due to its design, it can fly even in stiff breezes and is built to take a beating. Containing only 9 pieces (none of them moveable) this glider can be flown less than an hour after construction is started. Weighing about .5 ounces after painting, this glider will fly to amazing heights for long glides and spectacular flights. Complete instructions which include alterations so the glider conforms to NAR rulings. (AMROCS 1967 Catalog)

Editorial Note:

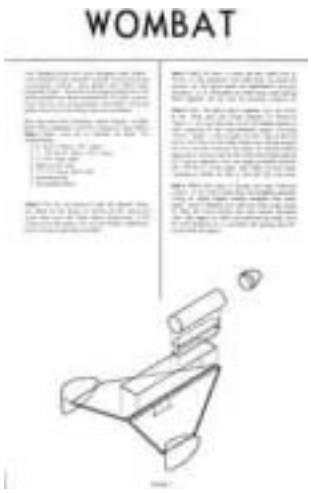
Catalog Liveries

1967

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Apogee Components

Apogee Components
3355 Fillmore Ridge Heights
Colorado Springs, CO, 80907

Tel: (719) 535-9335
Fax: (719) 534-9050

http://www.apogeerockets.com/

About Apogee

Our Mission Statement: To provide a rewarding experience to any person wanting to further their growth in rocketry, by providing exciting products that teach, as well as showing how fun and safe the hobby can be. We also provide in-depth information about rockets, so that customers can make informed decisions about rocketry so they save money. Our motto is: "The first step into space is an Apogee model rocket."

Why We Do What We Do

Why and what we do here is not by accident. Rocketry is ALL we do. We don't carry airplanes, RC cars, or trains. We specialize in just one thing: "Model Rockets." Period!

Obviously, you have a lot of choices to pick from for your rocketry supplies. There are literally hundreds of manufacturers, and probably thousands of kit re-sellers. But why buy from Apogee Components?

You were drawn to our web site for some reason. If it isn't clear why we're different from everyone else, I'll try to explain.

You got this far, and to this particular web page because you had a sense that Apogee really seems to know what rocketry is all about. More than anyone else, we "get" rocketry. Other sites may tell you "how rockets work," but we show you how much fun you really can have with this hobby. That is probably very important to you -- isn't it?Industry leaders in their fields, Estes and COX will continue to turn kids and adults on to flight with innovative new products that will go FASTER, FURTHER AND HIGHER.

(Company Web Statement 2011)

Master List for **Apogee Components** by Name

Diamondback	#05034
Micro V-2	#05021
Saturn V	#05026

Master List for **Apogee Components** by *Number*

#05021	Micro V-2
#05026	Saturn V
#05034	Diamondback

Diamondback (#05034)

MODEL NAME: **Diamondback** *Also known as*:

NUMBER: #05034

Introduced: 2007
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 30.26" (76.86 cm)
Diameter: 1.18" (29.97 mm)
Span:
Weight: 5.02 oz (142.21 gm)

Mfg. Description: The Diamondback rocket is a stunning rocket that will get heads turning like windmills every time you bring it out. Not only does it have colorful graphics, it has a double-trapezoid fin shape with a triangular opening that is totally unique in model rocketry.

The Diamondback is also long and sleek. Combined with its diamond-shaped graphics gives this rocket the appearance of a snake. It slithers into the sky and can bite a cloud faster than you can shake a stick at it.

With an Apogee D10-7 motor in its tail, this rocket can easily climb to over 1100 feet (335m). But because it has a streamer instead of a parachute, it will be back near the launch pad with minimum wind drift. (Apogee 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest:

Micro V-2 (#05021)

MODEL NAME: **Micro V-2** *Also known as*:

NUMBER: #05021

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x10.5mm
Recovery: Streamer
Stages: 1 or 2 with optional Blitzkrieg Booster
Length: 17.15 cm (6.75")
Diameter: 18 mm (0.736")
Span:
Weight: 10.0 grams (.35 oz)

Mfg. Description: The blitz is back with another vengeance! The micro-motor powered V-2 Rocket is ready to thunder into your fleet. At just under seven inches tall, this little dynamo will capture those nostalgic feelings for the glory days of rocketry.

Real balsa wood is used for both the nosecone and tailcone. The tailcone is pre-drilled, ready to accept the motor tube for the 10.5 mm motors. Add the balsa fins, launch lug, and recovery system, and you're ready to launch! (Apogee 2004 Web Ad)

Web Liveries

2001

2004

Face Card(s)

Also of interest: All V-2 Families

Saturn V (#05026)

MODEL NAME: **Saturn V** *Also known as*:

NUMBER: #05026

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 62.20" (157.99 cm)
Diameter: 5.60" (14.22 cm)
Span:
Weight: 17.00 oz (481.94 g)

Mfg. Description: The Saturn V rocket may be gone — but it will never be forgotten. After all, it was the only rocket used to put men on the surface of the moon.

The 1/70th scale Apogee Saturn V is the largest kit version in the world that doesn't require a special waiver to launch. It stands well over 62 inches tall and 5.6 inches diameter. Erect it on your desk and it will nearly touch the ceiling. People coming into the room will have no choice but to look "up." It is the similar situation when looking at the real moon rocket, which stood 363 feet in the sky. It's big, and you gotta look up at it.

There is so much surface detail on the rocket, you can count the number of stringers (on the corrugated sections) and compare it to the real vehicle. You'll be able to immediately tell that this was a model build for scale enthusiasts like you. It will mesmerize you for hours on end as you slowly inspect every square centimeter of its surface. It will ignite your imagination as you dream about what it must have been like to have been an engineer working on it, or an astronaut to ride it into space.

When you are finished building the model, you will have a huge sense of accomplishment and a can-do attitude to tackle other complex rockets. If you can build this one, you can build any rocket kit!

The Apogee Saturn V is more than just space memorabilia. When you look at this new rocket, you'll be awe struck by its size, and commanding presence. Your eyes will be glued to it, like it has cast some sort of hypnotic trance on you. It demands your attention, like a Marine Drill Sergeant barking in your face.

We mean it when we say "museum quality." These models of the Saturn V and the Saturn 1B (built by Tim Doll), are on display at the Seattle Museum of Flight. Other museums have displayed our Saturn V model too.

Its Fun To Build! Upon seeing it, you'll relive the glory days of the space program, and the pride that swells up due to the achievement of man walking on the moon. You'll feel like you were a integral part of the launch team.

While being a Skill Level 5 kit, this rocket will not be difficult for you to build. The instructions are detailed, and easy to follow. Instead of a printed manual with complicated text and fuzzy

illustrations, these instructions are video clips that you watch.

You just slip the instruction DVDs into your computer and turn the electronic pages with your mouse. Each page has a short movie that explains what is done in each assembly step, as well as how to perform the technique. Everyone that has watched the videos has commented that these are the best kit instructions ever made for a model rocket.

By following the techniques in the video instructions, your completed model will be a flawless work of art. People will marvel at the way you have the tube so smooth, and the paint applied with such crisp edges.

And besides building a museum-quality display model, your rocket can be launched in the sky! Yes, it was really designed to be blasted off into space. (Apogee 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Saturn V Launch Vehicle Family

Art Applewhite Rockets

Art Applewhite Rockets

P.O. Box 294064

Kerrville TX 78029-4064

rocket877@aol.com

http://www.artapplewhite.com/

About Art Applewhite Rockets

I'm a BAR or born again rocketeer. I was born in Fort Worth Texas in 1951 and I've been flying model rockets off and on since I was 10 years old. I served 20 years in the U.S. Air Force (mostly overseas) and retired in 1991. I spent another 10 years with the Air Force in various capacities before setting down in my home state of Texas in 2001. I started designing, manufacturing and sell model rocket kits in February of 2002.

(Company Web Statement 2007)

Master List for **Art Applewhite** by Name

Bic Stic
Cinco (13mm)
Cinco (38mm)
Double Helix (24mm)
Helix (13mm)
Helix (18mm)
Helix (20mm)
Helix (24mm)
Helix (29mm)
Micro Maxx Flying Saucer
Micro Maxx Qubit
Micro Maxx Scimitar
Micro Maxx Stealth
Qubit (13mm)
Spartan (13mm)
Super Stealth

Bic Stic

MODEL NAME: **Bic Stic** *Also known as*:

NUMBER:

Introduced: 2002
Final Year:
Designer: Art Applewhite

Type: Oddroc
Motor Mount: 1x6mm
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: These kits contain everthing you need to build a high performance rocket. Recommended engine: Quest Micro Maxx® II.
Warning: These rockets will fly completely out of sight in a heartbeat!
Satisfaction guaranteed or your money back. (Art Applewhite 2004 Web Ad)

Web Liveries

2009

Face Card(s)

Also of interest: Scribe Family

Cinco (13mm)

MODEL NAME: **13mm Cinco** *Also known as*:

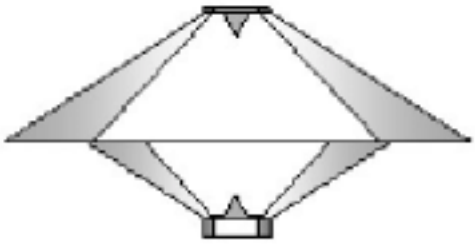
NUMBER:

Introduced: 2005
Final Year:
Designer: Art Applewhite

Type: Oddroc, Saucer
Motor Mount: 1x13mm
Recovery: Aerobrake
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries



2010

Face Card(s)

Also of interest: Art Applewhite Cinco Family

Cinco (38mm)

MODEL NAME: **38mm Cinco** *Also known as*:

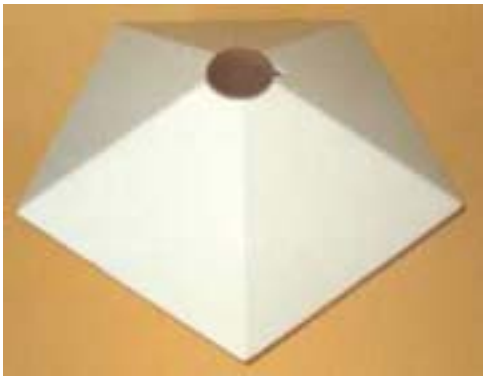
NUMBER:

Introduced: 2007
Final Year:
Designer: Art Applewhite

Type: Oddroc, Saucer
Motor Mount: 1x38mm
Recovery: Aerobrake
Stages: 1
Length: 6"
Diameter: 11"
Span: 11"
Weight: 4.2 oz.

Mfg. Description: Recommended motors: Any 38mm G, H or I motor with an average thrust between 50 and 250 Ns. This kit can be built in a few hours using white glue and a sharp craft knife. This five-sided flying saucer's "low and slow" ascent makes it perfect for small field and windy days. The foolproof aerobrake recovery system ensures this rocket descends slowly and safely and lands close to the pad every time. (Art Applewhite 2011 Web Ad)

Web Liveries



2009 Web Ad

Face Card(s)

Also of interest: Art Applewhite Cinco Family

Double Helix (24mm)

MODEL NAME: **24mm Double Helix** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Art Applewhite

Type: Bi-Copter, Cluster
Motor Mount: 2x24mm
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: All Helix and Double Helix kits are constructed from the highest quality Basswood sheets, Poplar dowels and LOC Precision tubing. Their simple and robust construction means they will continue to fly long after other rockets have been retired. Launch preparation is super simple, just insert the motor and launch! These rockets fly very well even in windy conditions and always land close to the pad. The Double Helix kits use two motors for a unique and exciting, high performance, cluster flight.

Each kit comes with all materials need except glue. They can be built in a single evening using ordinary craft tools and supplies. This kit is recommended for experienced modelers who will appreciate it unusual construction techniques and flight characteristics. The Helix requires a strong launch pad with a short 1/4" rod. (Applewhite 2008 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: Applewhite Helix Family

Helix (13mm)

MODEL NAME: **13mm Helix** *Also known as*:

NUMBER:

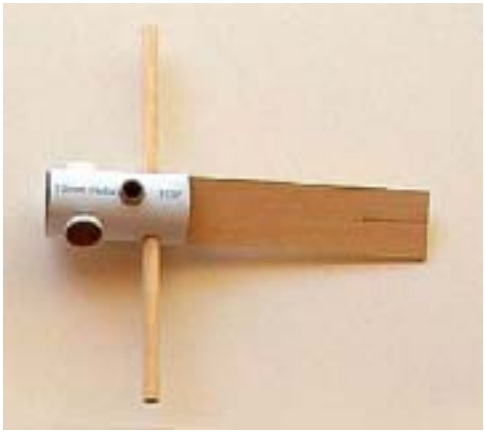
Introduced:
Final Year:
Designer: Art Applewhite

Type: MonoCopter
Motor Mount: 1x13mm
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span: 4"
Weight: 0.3 oz (7 grams)

Mfg. Description: All Helix kits are constructed from the highest quality Basswood sheets, Poplar dowels and LOC Precision tubing. Their simple and robust construction means they will continue to fly long after other rockets have been retired. Launch preparation is super simple, just insert the motor and launch! These rockets fly very well even in windy conditions and always land close to the pad. The Double Helix kits use two motors for a unique and exciting, high performance, cluster flight.

Each kit comes with all materials need except glue. They can be built in a single evening using ordinary craft tools and supplies. This kit is recommended for experienced modelers who will appreciate it unusual construction techniques and flight characteristics. The Helix requires a strong launch pad with a short 1/4" rod. Instructions for building a suitable pad out of readily available materials are included with the kit and also shown below.

Web Liveries



2010

Face Card(s)

Also of interest: Applewhite Helix Family

Helix (18mm)

MODEL NAME: **18mm Helix** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Art Applewhite

Type: MonoCopter
Motor Mount: 1x18mm
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span: 6"
Weight: 0.6 oz (17 grams)

Mfg. Description: All Helix kits are constructed from the highest quality Basswood sheets, Poplar dowels and LOC Precision tubing. Their simple and robust construction means they will continue to fly long after other rockets have been retired. Launch preparation is super simple, just insert the motor and launch! These rockets fly very well even in windy conditions and always land close to the pad. The Double Helix kits use two motors for a unique and exciting, high performance, cluster flight.

Each kit comes with all materials need except glue. They can be built in a single evening using ordinary craft tools and supplies. This kit is recommended for experienced modelers who will appreciate it unusual construction techniques and flight characteristics. The Helix requires a strong launch pad with a short 1/4" rod. Instructions for building a suitable pad out of readily available materials are included with the kit and also shown below.

Web Liveries

2010

Face Card(s)

Also of interest: Applewhite Helix Family

Helix (20mm)

MODEL NAME: **20mm Helix** *Also known as*: D5 Helix

NUMBER:

Introduced:
Final Year:
Designer: Art Applewhite

Type: MonoCopter
Motor Mount: 1x20mm
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: All Helix kits are constructed from the highest quality Basswood sheets, Poplar dowels and LOC Precision tubing. Their simple and robust construction means they will continue to fly long after other rockets have been retired. Launch preparation is super simple, just insert the motor and launch! These rockets fly very well even in windy conditions and always land close to the pad. The Double Helix kits use two motors for a unique and exciting, high performance, cluster flight.

Each kit comes with all materials need except glue. They can be built in a single evening using ordinary craft tools and supplies. This kit is recommended for experienced modelers who will appreciate it unusual construction techniques and flight characteristics. The Helix requires a strong launch pad with a short 1/4" rod. Instructions for building a suitable pad out of readily available materials are included with the kit and also shown below.

Web Liveries

Face Card(s)

Also of interest: Applewhite Helix Family

Helix (24mm)

MODEL NAME: **24mm Helix** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Art Applewhite

Type: MonoCopter
Motor Mount: 1x24mm
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span: 8"
Weight: 1.4 oz (39 grams)

Mfg. Description: Description: All Helix kits are constructed from the highest quality Basswood sheets, Poplar dowels and LOC Precision tubing. Their simple and robust construction means they will continue to fly long after other rockets have been retired. Launch preparation is super simple, just insert the motor and launch! These rockets fly very well even in windy conditions and always land close to the pad. The Double Helix kits use two motors for a unique and exciting, high performance, cluster flight.

Each kit comes with all materials need except glue. They can be built in a single evening using ordinary craft tools and supplies. This kit is recommended for experienced modelers who will appreciate it unusual construction techniques and flight characteristics. The Helix requires a strong launch pad with a short 1/4" rod. Instructions for building a suitable pad out of readily available materials are included with the kit and also shown below.

Web Liveries

2010

Face Card(s)

Also of interest: Applewhite Helix Family

Helix (29mm)

MODEL NAME: **29mm Helix** *Also known as*:

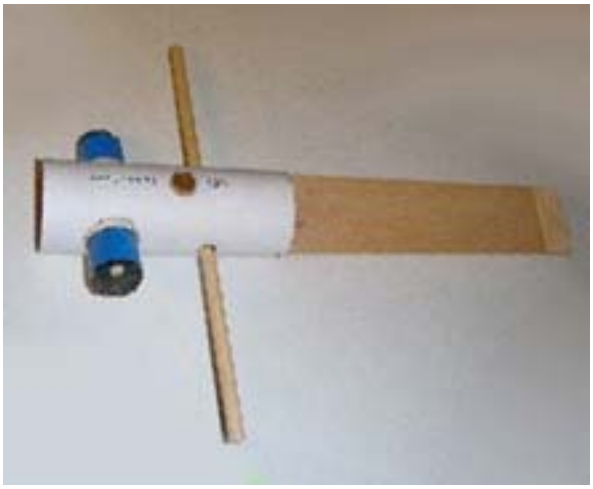
NUMBER:

Introduced:
Final Year:
Designer: Art Applewhite

Type: MonoCopter
Motor Mount: 1x29mm
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries



2010

Face Card(s)

Also of interest: Applewhite Helix Family

Micro Maxx Flying Saucer

MODEL NAME: **Micro Maxx Flying Saucer** *Also known as*:

NUMBER:

Introduced: 2002
Final Year:
Designer: Art Applewhite

Type: Flying Saucer
Motor Mount: 1x6mm
Recovery: Aerobrake
Stages: 1
Length: 1"
Diameter: 3"
Span:
Weight: 0.2 oz

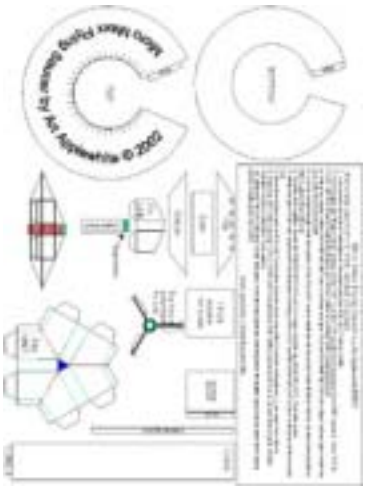
Mfg. Description: As these rockets climb, they spin like real flying saucers. At apogee the Saucer Section separates from the Power Pod and they glide safely down. The fins are 3/32" Basswood and the Saucer Section is 110 lb Card Stock. Engine hooks are used for positive engine retention. The plain flying saucer are white for easy decorating and finishing. Custom colors are available upon request. These kits are intended for the experienced rocketeer looking for a new challenge and something out of the ordinary. With their high visibility and slow ascent and recovery, they are real crowd pleasers. (Art Applewhite 2002 Web Ad)

Web Liveries

2002

2003

Face Card(s)



Also of interest: Applewhite Flying Saucer Family

Micro Maxx Qubit

MODEL NAME: **Micro Maxx Qubit** *Also known as*:

NUMBER:

Introduced: 2004
Final Year:
Designer: Art Applewhite

Type: Oddroc, Saucer, Cardstock
Motor Mount: 1x6mm
Recovery: Aerobrake
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Catalog Liveries

Web Liveries

2004

Face Card(s)

Also of interest: Applewhite Qubit Family

Micro Maxx Scimitar

MODEL NAME: **Micro Maxx Scimitar** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Art Applewhite

Type: Oddroc
Motor Mount: 1x6mm
Recovery: Aerobrake
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Applewhite Qubit Family

Micro Maxx Stealth

MODEL NAME: **Micro Maxx Stealth** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Art Applewhite

Type: Oddroc
Motor Mount: 1x6mm
Recovery: Aerobrake
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Applewhite Qubit Family

Qubit (13mm)

MODEL NAME: **13mm Qubit** *Also known as*:

NUMBER:

Introduced: 2004
Final Year:
Designer: Art Applewhite

Type: Oddroc, Saucer, Cardstock
Motor Mount: 1x13mm
Recovery: Aerobrake
Stages: 1
Length: 3.0 inches (7.6cm)
Diameter:
Span: 4 inch (10 cm)
Weight: 0.2 oz (5 gm)

Mfg. Description: All these rockets ascend rapidly. They are very stable in flight, even with high winds. At apogee they flip over and descend slowly using aerobrake recovery. Preparation is quick and recovery is foolproof. These kits are intended for the rocketeer looking for a new challenge and something out of the ordinary. With their high visibility and dramatic ascent and recovery, they are real crowd pleasers. No long walks to recover your rocket even on a windy day. (Art Applewhite 2011 Web Ad)

Web Liveries

2004

Face Card(s)

Also of interest: Applewhite Qubit Family

Spartan (13mm)

MODEL NAME: **Spartan (13mm)** *Also known as*:

NUMBER:

Introduced: 2012
Final Year:
Designer: Art Applewhite

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Applewhite Spartan Family

Super Stealth

MODEL NAME: **Super Stealth** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Art Applewhite

Type: Oddroc, Cardstock
Motor Mount: 1x18mm or 1x24mm
Recovery: Aerobrake
Stages: 1
Length: 3.75"
Diameter: 5"
Span: 5"
Weight: 0.5 oz

Mfg. Description: Recommended motors: 18mm version: B4-2,B6-0,B6-2, C6-0,C6-3 24mm version: C11-0, C11-3, D11-P, D12-0, D12-3, E9-4, E9-P and any Aerotech 24mm single use or RMS 24/40 reload. This rocket can be built to use either 18mm (A, B & C) or 24mm motors (C, D & E). You decide at build time which size to make. (Applewhite 2011 Web Ad)

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Applewhite Qubit Family

BaddAzz Rocketry

http://www.baddazzrocketry.com/

Master List for **BaddAzz** by Name

Das Blitzkrieg

Das Blitzkrieg

MODEL NAME: **Das Blitzkrieg** *Also known as*:

NUMBER:

Introduced: 2011
Final Year:
Designer: Eric Foster

Type: Sport
Motor Mount: 1x38mm
Recovery: Dual Deploy Parachute
Stages: 1
Length: 49.875"
Diameter: 2.375"
Span:
Weight: 3 lbs.

Mfg. Description: Earth year 104906

After reaching a peace agreement with Trogons. We had years of goodwill. Due to their reptilian breeding they constantly encroached upon the Frontier line.

Negotiations failed, We are at War !!

Our Best defenzze is the BLITZZKRIEG Missiles.Featuring a Positronic Seeker they cannot be evaded. Two part warhead gave the Missile it's Name. A High yield EMP PLASMA burst coupled with a Sodium Zylon Gas. EMP takes down the Trogon shields, Sodium Zylon Vaporizes the Trogon's Flesh.

Do not worry when the Atmospheric Defenzze's engage! BLITZZKRIEG is at work!!!!

Web Liveries

2011

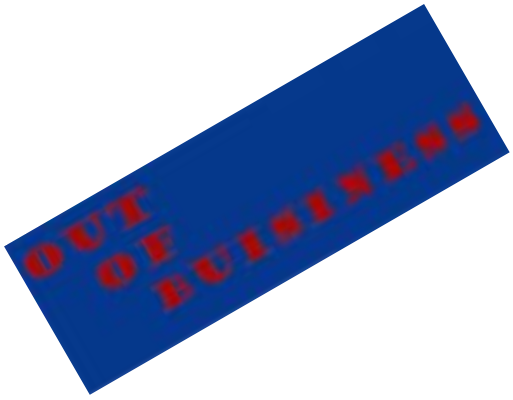
2011

Face Card(s)

Also of interest:

Bal-Rock Industries
Norfolk, Nebraska

Bal-Rock Industries (Bal-Rock)



Master List for **Bal-Rock** by Name

Rock-a-Chute Mark I	Mrk-I

Master List for **Bal-Rock** by Number

Mrk-I	Rock-a-Chute Mark I

Bal-Rock Industries

Rock-a-Chute Mrk-I

MODEL NAME: **Rock-a-Chute Mark I** *Also known as*:

NUMBER: Mrk-I

Introduced: 1954
Final Year:
Designer: Robert Carlisle

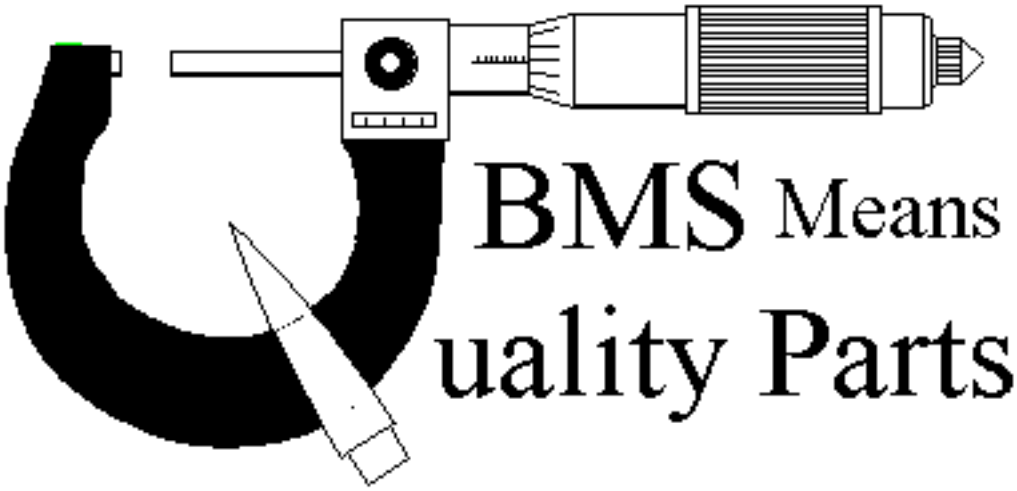
Type: Sport
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: The ROCK-A-CHUTE is a working model of a type of guided missile. It is powered by an expendable solid fuel rocket motor. The ROCK-A-CHUTE rises, under its own power, from its launching ramp to a height of from 100 to 500 feet, depending upon the size of the rocket motor used. After passing the apex of its flight, the time element activates the parachute expelling charge. After the parachute is expelled and opens, the entire model floats slowly to the ground where it can be retrieved, the parachute re-packed as instructed, and a new rocket motor installed. It is then ready to be launched again. The time of the expulsion of the parachute can be extended by withdrawing 1/16 to 1/4 inch of the time element from the hole located nearest the red end of the rocket motor. The position of the launching ramp enables the operator to select the direction the ROCK-A-CHUTE will take. (Bal-Rock 1954 Rock-a-Chute Instructions)

Face Card(s)

1954 Instruction

Also of interest:



Balsa Machining Services (BMS)

Balsa Machining Service

11995 Hillcrest Dr.

Lemont, IL 60439

630-257-5420

http://www.balsamachining.com/

Master List for **BMS** by Name

(Estes) Astron Drifter	K14
(Estes) Gyroc	K24
(Estes) Mini Bomarc	08005(TK-5)
(FSI) Viking 1	FSIVK1

Master List for **BMS** by Number

0805(TK-5)	(Estes) Mini Bomarc
K14	(Estes) Astron Drifter
K24	(Estes) Gyroc
FSIVK1	(FSI) Viking 1

Astron Drifter (K14)

MODEL NAME: **Astron Drifter** *Also known as*:

NUMBER: K14

Introduced:
Final Year:
Designer: Bill Simon

Type: Sport. Parachute Competition, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight

Mfg. Description:

Catalog Liveries

Web Liveries

2009

Face Card(s)

Also of interest: Estes Drifter Family, Parachute Duration Family

(Estes) Gyroc (K24)

MODEL NAME: **Gyroc** *Also known as*:

NUMBER: K24

Introduced:
Final Year:
Designer:

Type: Sport, Helicopter, Clone
Motor Mount: 1x18mm
Recovery: Helicopter
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Estes Gyroc Family

Mini Bomarc (0805(TK-5))

MODEL NAME: **Mini Bomarc** *Also known as*:

NUMBER: 0805(TK-5)

Introduced:
Final Year:
Designer: Larry Renger

Type: Scale, Clone
Motor Mount: 1x13mm
Recovery: parachute
Stages: 1
Length: 11.75"
Diameter: 0.736"
Span: 4.5"
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: CIM-10 Bomarc Ordnance Family

(FSI) Viking 1 (FSIVK1)

MODEL NAME: **FSI Viking 1** *Also known as*:

NUMBER: FSIVK1

Introduced:
Final Year:
Designer:

Type: sport/tubefin/clone
Motor Mount: 1x18mm
Recovery: parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

2009

Web Liveries

Face Card(s)

Also of interest: FSI Viking Family, Tube Fin Family

BARCLONE

http://barclone.rocketshoppe.com/about.htm

About BARCLONE

Who We Are....

Craig McGraw -- The Estes Avenger was my first experience with building an Estes kit back in 1975. It was a disaster because it was beyond my skills at the time, but I remember it fondly nevertheless. Over the years I have built and flown for a while, stopped, then started up again when I had the time and resources. I'm now in my 40's and have rediscovered the world of rocketry all over again. I have rockets in my collection today that I could only drool over in my youth.

The hobby today is richer and broader than it has ever been, even with reduced volume coming from the big names of years past. There are more people providing the stuff we use, with very little remaining that cannot be purchased from somewhere. And with the Internet, sharing ideas with fellow enthusiasts is easier and instant, with constructive feedback that didn't exist back in the "golden age" of the hobby. I'm enjoying the hobby today in a way that wasn't possible before.

Scott D. Hansen -- I grew up and live in Milwaukee, WI. My cousin got me into model rocketry back in 1969 when he gave me his '69 Centuri catalog, which I still have today. My first kit was a Payloader II. I still have the bottom half of that rocket along with the Centuri LIA-77 wooden tripod launch pad I used. Most of my rockets when I was young were from Centuri. I guess I just liked their designs better.

I never did join the NAR as a kid, but I did belong to a NAR sanctioned club in the early 70's. I've got super 8 movies from some of the club launches down at Warnimont Park by Lake Michigan.

I got back into model rocketry in February of 1998. Since I really like the "old style" designs of rockets where the person actually did some building, I wanted to help preserve the history. Hence, Ye Olde Rocket Shoppe and its many spin-offs was born.

(Web Statement 2012)

Master List for **BARCLONE** by Name

Arrow Head

Arrow Head

MODEL NAME: **Arrow Head** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: James Pierson

Type: Exotic
Motor Mount: 1x13mm
Recovery:
Length: 10.0”
Diameter: 0.736” (BT-20)
Fin Span: 4.08”
Weight: 0.98 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

Binder Design

Binder Design

P.O. Box 13376

Salem, OR 97309

Phone: (503) 581-3180

http://binderdesign.com/

About Binder Design

Welcome to Binder Design....The standard for high quality rocket kits and accessories. From our mid-power kits for beginners to high power rocketry, premium kits like the Velociraptor, or extreme experimental motor hardware like the 38mm L project above, we have something for everyone.

(Company Web Statement 2011)

Master List for **Binder Design** by Name

Aspire 29mm
Excel
Excel 38mm Dual Deploy
Excel 54mm
Excel 54mm Dual Deploy
Excel Jr.
Excel Plus
Jackhammer
Stealth 38mm
Stealth 54mm
Stealth Jr. 29mm
Thug

Aspire 29mm

MODEL NAME: **Aspire 29mm** *Also known as*: Aspire

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: parachute
Stages: 1
Length: 46"
Diameter: 2.6"
Span:
Weight: 1 lb 1 oz

Mfg. Description: Easy to build sport rocket with illustrated instructions, 1/8" aircraft grade birch plywood fins with "through the wall" mounting. Plywood centering rings and bulkhead. 3/16" Tubular nylon recovery harness, and high quality 18" chute. Now, the kit even comes with one piece delrin rail buttons!

Perfect rocket for beginners in high power. E through H motors recommended. (approx. empty weight 1lb. 1oz.) (Binder Design 2012 Web Ad)

Editor's Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Also of interest:
1 9 6

Excel

MODEL NAME: **Excel** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 50"
Diameter: 4"
Span:
Weight:

Mfg. Description: The Excel is perfect for level 1 certifications! Pre-slotted airframe makes for an easy build along with all new fin-can instructions. Kit contains 3/16" aircraft grade plywood fins, plywood centering rings, and a high quality parachute. Now comes with motor retention and new decal package! H through K motors recommended.(Binder Design 2012 Web Ad)

Editor's Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Also of interest: Binder Design Excel Family

Excel 38mm Dual Deploy

MODEL NAME: **Excel 38mm Dual Deploy** *Also known as*: Excel 38mm DD

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 71"
Diameter: 4"
Span:
Weight:

Mfg. Description: We've added the optional dual deploy kit to this popular classic. The dual deploy Excel is perfect for Level 2 certifications and features our popular avionics bay kit and extra recovery components to fly dual deploy. Pre-slotted airframe makes for an easy build along with all new fin-can instructions. Kit contains 3/16" aircraft grade plywood fins, plywood centering rings and bulkhead, and a high quality parachute. Now comes with motor retention! H through K motors recommended. (Binder Design 2012 Web Ad)

Editor's Note:

Web Liveries

2011

Face Card(s)

Also of interest: Binder Design Excel Family

Excel 54mm

MODEL NAME: **Excel 54mm** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 50"
Diameter: 4"
Span:
Weight:

Mfg. Description: The Excel is perfect for level 1 certifications! Pre-slotted airframe makes for an easy build along with all new fin-can instructions. Kit contains 3/16" aircraft grade plywood fins, plywood centering rings, and a high quality parachute. Now comes with motor retention and new decal package! H through K motors recommended.

Same as pictured above but comes with a 54mm motor mount. (Binder Design 2012 Web Ad)

Editor's Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Also of interest: Binder Design Excel Family

Excel 54mm Dual Deploy

MODEL NAME: **Excel 54mm Dual Deploy** *Also known as*: Excel 54mm DD

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 71"
Diameter: 4"
Span:
Weight:

Mfg. Description: We've added the optional dual deploy kit to this popular classic. The dual deploy Excel is perfect for Level 2 certifications and features our popular avionics bay kit and extra recovery components to fly dual deploy. Pre-slotted airframe makes for an easy build along with all new fin-can instructions. Kit contains 3/16" aircraft grade plywood fins, plywood centering rings and bulkhead, and a high quality parachute. Now comes with motor retention! H through K motors recommended.

Same as pictured above, except comes with a 54MM motor mount. (Binder Design 2012 Web Ad)

Editor's Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Also of interest: Binder Design Excel Family

2 0 0

Excel Jr.

MODEL NAME: Excel Jr. *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 33"
Diameter: 2.6"
Span:
Weight:

Mfg. Description: The Excel Jr. is a downscale of one of our most popular designs. Perfect for younger flyers who want to fly the same rockets as the "big boys". Awesome performance on F and G class motors, but light enough to fly on D and E motors with optional adapter. Detailed 10 page instruction manual is geared for the beginner to mid/high power. Instructions include special detailing tips for fin finishing, as well as printed Rocksim stability data courtesy of APOGEE COMPONENTS.

Should weigh less than a pound when fully loaded for flight depending on construction methods. Expect about 3,000 ft. on a G motor!

Comes with 1/8" aircraft plywood fins, 12 feet of 3/16" tubular nylon shock cord, and a Binder Design premium chute. This new kit includes pre-slotted airframe for an easier build, and comes with a fin alignment guide! (Binder Design 2012 Web Ad)

Editor's Note:

Web Liveries

2012

Face Card(s)

Also of interest: Binder Design Excel Family

Excel Plus

MODEL NAME: **Excel Plus** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages:
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description: The Excel Plus was replaced by the Excel DD version. It is the same except the DD version uses our avionics bay kit between the booster and payload tube. (Binder Design Personal Communication)

Editor's Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Binder Design Excel Family

Jackhammer

MODEL NAME: **Jackhammer** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Pseudo Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 33"
Diameter: 3.9"
Span:
Weight:

Mfg. Description: Inspired by a popular video game series, this is our rendition of a shoulder launched missile of the future. This stout kit features unique military styling and decals, with a simulated armor piercing nosecone design. This sport kit was designed with short duration high thrust motors in mind but it can be flown on most 38mm motors. Tough and stout, this rocket is great for L1 certifications and is even tough enough for a J motor if you dare.
Instructions include Rocksim stability data courtesy of Apogee Components. This kit also features a Binder Design exclusive.....Modular fin can assembly instructions!

This kit includes pre-slotted airframe for an easier build, and comes with a fin alignment guide! (Binder Design 2012 Web Ad)

Editor's Note:

Web Liveries

2012

Face Card(s)

Also of interest:

Stealth 38mm

MODEL NAME: **Stealth 38mm** *Also known as*: Stealth

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 67"
Diameter: 4"
Span:
Weight:

Mfg. Description: A Binder Design classic! Unique notched fin design. Comes with 3/16" thick aircraft plywood fins that are cut and match sanded. Plywood centering rings and bulkhead, plastic nose cone, and a high quality 36" chute. Vinyl decal, easy to follow instructions, fin alignment guide. Now includes mil-spec tubular nylon shock cord harness at no extra charge! H through J motors recommended. (Binder Design 2012 Web Ad)

Editor's Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Also of interest: Binder Design Stealth Family

Stealth 54mm

MODEL NAME: **Stealth 54mm** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 67"
Diameter: 4"
Span:
Weight:

Mfg. Description: A Binder Design classic! Unique notched fin design. Comes with 3/16" thick aircraft plywood fins that are cut and match sanded. Plywood centering rings and bulkhead, plastic nose cone, and a high quality 36" chute. Vinyl decal, easy to follow instructions, fin alignment guide. Now includes mil-spec tubular nylon shock cord harness at no extra charge! H through J motors recommended.

Same as pictured above except comes with a 54mm motor mount. (Binder Design 2012 Web Ad)

Editor's Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Also of interest: Binder Design Stealth Family

Stealth Jr. 29mm

MODEL NAME: **Stealth Jr. 29mm** *Also known as*: Stealth Jr.

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 47"
Diameter: 2.6"
Span:
Weight:

Mfg. Description: 1/8" Aircraft Birch Plywood The Stealth Jr. is a downscale of one of our most popular designs. Perfect for younger flyers who want to fly the same rockets as the "big boys". Aggressive military inspired design gives awesome performance on F and G class motors. Detailed 10 page instruction manual is geared for the beginner to mid/high power. Instructions include detailing tips for finishing, as well as printed Rocksim stability data courtesy of APOGEE COMPONENTS.

Expect about 2,500 ft. on a G motor!

Comes with 1/8" aircraft plywood fins, 12 feet of 3/16" tubular nylon shock cord, and a Binder Design premium chute. This new kit includes pre-slotted airframe for an easier build, and comes with a fin alignment guide! (Binder Design 2012 Web Ad)

Editor's Note:

Web Liveries

2012

Face Card(s)

Also of interest: Binder Design Stealth Family

Thug

MODEL NAME: **Thug** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 33"
Diameter: 4"
Span:
Weight: 1 lb 6 oz

Mfg. Description: A small rocket with big performance. You can fly it on as little as an E motor or throw an H-180 in it and watch it go. A real crowd pleaser, comes with cut and match sanded 1/8 inch aircraft grade birch plywood.

Includes plastic nose cone, easy to follow instructions, vinyl cut decals. A nice starter rocket to high power. (Binder Design 2011 Web Ad)

Editor's Note:

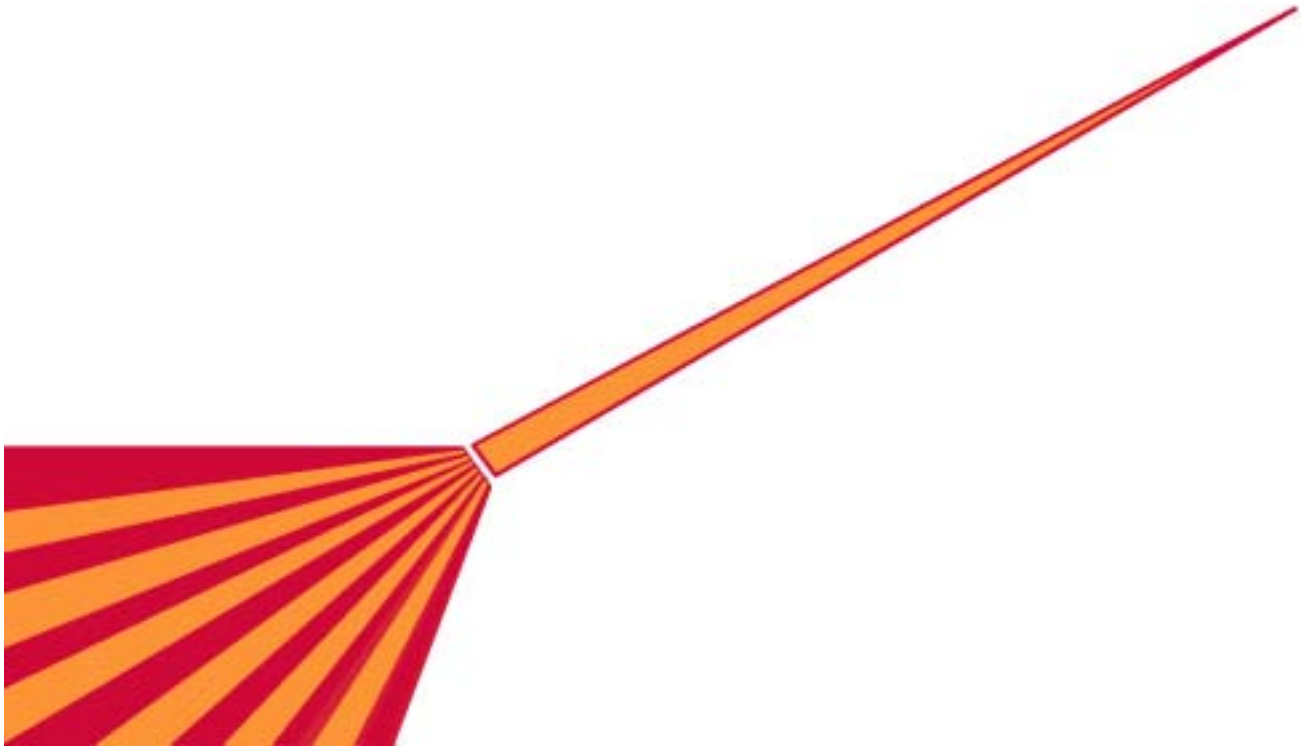
Catalog Liveries

Web Liveries

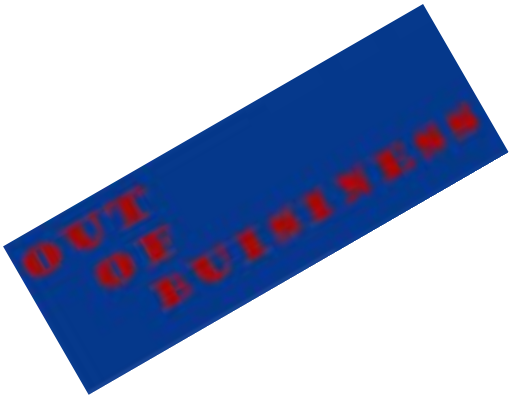
2011

Face Card(s)

Also of interest:



Blast From the Past



(Centuri) Space Shuttle

Centuri Space Shuttle

MODEL NAME: **Centuri Space Shuttel** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Larry Brown

Type: Sport
Motor Mount:
Recovery:Streamer/glide/glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

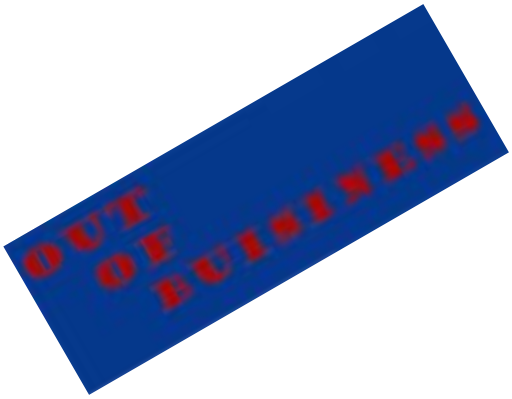
Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Centuri Space Shuttle Family

BSD High Power Rocketry (BSD)



About BSD High Power Rocketry

BSD offers kits for the beginner or sport flyer in Mid to High power rocketry.

BSD Kits include high-quality glassine-coated airframe tubes and New Flexible Phenolic tubing in 7.5", plastic nosecones, great hardware, aircraft-quality plywood parts, centering rings and bulkheads, computer designed and cut self-adhesive vinyl decals, and photo-illustrated instruction books. All the best things that the seasoned high power builder expects in a kit, and features that makes it hard to build anyone else's kits again!

(Company Web Statement 2008)

Master List for **BSD** by Name

Diablo (4”)
Thor (3”)
Thor (4”)

Diablo (4”)

MODEL NAME: **4 “ Diablo** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editor’s Note:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: BSD Diablo Family

Thor (3”)

MODEL NAME: **3” Thor** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery:
Stages: 1
Length: 64"
Diameter: 3"
Span:
Weight:

Mfg. Description:

Editor’s Note:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: BSD Thor Family

Thor (4”)

MODEL NAME: **4” Thor** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery:
Stages: 1
Length: 84.75"
Diameter: 4"
Span:
Weight: 89 oz

Mfg. Description:

Editor’s Note:

Catalog Liveries

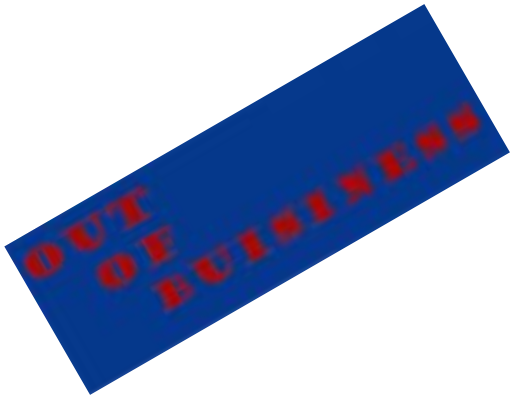
Web Liveries

2008

Face Card(s)

Also of interest: BSD Thor Family

Centuri Engineering



Master List for **Centuri** by Name

Acro-Bat	#5059	
Acro-Bat	KBG-3	
Aero-Bat	#5057	
Aero-Bat	KBG-1	
Aero-Dart	#5182	
Aero-Dart	KF-2	
Aero-Dart	KF-12	
Aero-Dart	KFS-9	
Aero-Dyne	KB-8	
Alien Scoutship Flying Saucer	#5325	
Arcon	#5061	
Arcon	KB-2	
Arcon	KC-1	
Arcon-Hi	#5063	
Arcon-Hi	KC-3	
Astro-1	#5047	
Astro-1	KB-17	
Astrobee 350	#5065	
Astrobee 350	KC-5	
BatRoc	#5038	
BatRoc	KB-8	
Black Widow	#5036	
Black Widow	KB-6	
Centaur	#5075	
Centaur	KC-15	
Centurion	#5062	
Centurion	KC-2	
Chuter Two	#5076	
Chuter Two	KC-16	
Defender Space Probe	#5095	
Defender Space Probe	KC-35	
Draconian Marauder	#5336	*Buck Rogers*
E.S.S. Raven	#5312	*SuperKit*
Excalibur	#5008	
Excalibur	KA-8	
Explorer	#5179	
Explorer	KF-9	
Firefly	#5006	
Firefy	KA-6	
Flutter-By	#5009	
Flutter-By	KA-9	
(Stellar) Hercules	#5213	
(Stellar) Hercules	KD-13	
Honest John	#5085	

Honest John	KC-25
Hummingbird	#5172
Hummingbird	#KF-2
Hustler	#5180
Hustler	KF-10
Iris	#5074
Iris	KC-14
Jaguar	KF-4
Javelin	#5091
Javelin	KC-31
Laser-X	#5110
Laser-X	KC-50
Lil' Hercules	#5001
Lil' Hercules	KA-1
Lil' Hustler	#5178
Lil' Hustler	KF-8
Little Joe II	#5138
Little Joe II	#5139
Little Joe II	KS-8
Little Joe II	KS-9
Long Tom	#5064
Log Tom	KC-4
Mach 10	#5004
Mach 10	KA-4
Magnum D Hornet	#5341
Magnum D Jayhawk	#5342
Marauder	#5105
Marauder	KC-45
Mercury Redstone	#5131
Mercury Redstone	KS-1
Micro-Probe	#5052
Micro-Probe	KB-10
Micro-Probe	KB-22
Micron	#5005
Micron	KA-5
Nike Smoke	#5145
Nike Smoke	#5183
Nike Smoke	KE-3
Nike Smoke	KS-15
Nomad	#5035
Nomad	KB-5
Orion	#5068
Orion	KC-8
Payloader	KB-4
Payloader II	#5080
Payloader II	KC-20
Photon Probe	KD-16

(The) Point	#5073	
(The) Point	KC-13	
Python Fighter	#5358	
Recruiter	#5090	
Recruiter	KC-30	
S.S.V. Scorpion	#5307	*Super Kit*
Satellite 62SL	#5302	
Satellite 62SL	KM-2	
Saturn 1B	#5140	
Saturn 1B	KS-10	
Saturn 5	#5142	
Saturn 5	KS-12	
Scorpion	#5176	
Scorpion	KF-6	
Scram Jet	#5174	
Scram Jet	KF-4	
Screaming Eagle	#5173	
Screaming Eagle	KF-3	
Sky Devil	#5040	
Sky Devil	KB-10	
Snipe Hunter	#5043	
Snipe Hunter	KB-13	
Space Shuttle	#5006	
Space Shuttle	KC-6	
SST Shuttle 1	#5077	
SST Shuttle 1	KC-17	
Star Trooper	#5103	
Star Trooper	KM-3	
Starfire	#5072	
Starfire	KC-12	
Swift	KBG-3	
T Bird	#5069	
T Bird	KC-9	
Taurus Fleet Ship	#5033	
Taurus Fleet Ship	KB-3	
Thunder Hawk	#5338	
Thunder Roc	#5340	
U.S.S. America	#5310	*Super Kit*
Vector V	#5032	
Vector V	KB-2	
V2	#5149	
V2	KS-19	
X-21	BG-21	

Master List for **Centuri** by *Number*

#5001	Lil' Hercules
#5004	Mach 10
#5005	Micron
#5006	Fire Fly
#5008	Excalibur
#5009	Flutter-By
#5032	Vector V
#5033	Taurus Fleet Ship
#5035	Nomad
#5036	Black Widow
#5038	BatRoc
#5040	Sky Devil
#5043	Snipe Hunter
#5047	Astro-1
#5052	Micro-Probe
#5057	Aero-Bat
#5059	Acro-Bat
#5061	Arcon
#5062	Centurion
#5063	Arcon-Hi
#5064	Long Tom
#5065	Astrobee 350
#5066	Space Shuttle
#5068	Orion
#5069	T Bird
#5072	Starfire
#5073	(The) Point
#5074	Iris
#5075	Centaur
#5076	Chuter Two
#5077	SST Shuttle 1
#5080	Payloader II
#5085	Honest John
#5090	Recruiter
#5091	Javelin
#5095	Defender Space Probe
#5103	Star Trooper
#5105	Marauder
#5110	Laser-X
#5131	Mercury Redstone
#5138	Little Joe II
#5139	Little Joe II
#5140	Saturn 1B
#5142	Saturn 5

#5145	Nike Smoke	
#5149	V2	
#5172	Hummingbird	
#5173	Screaming Eagle	
#5174	Scram Jet	
#5176	Scorpion	
#5178	Lil' Hustler	
#5179	Explorer	
#5180	Hustler	
#5182	Aero-Dart	
#5183	Nike Smoke	
#5213	(Stellar) Hercules	*Stellar*
#5302	Satellite 62SL	
#5307	S.S.V. Scorpion	*Super Kit*
#5310	U.S.S. America	*Super Kit*
#5312	E.S.S. Raven	*Super Kit*
#5325	Alien Scoutship Flying Saucer	
#5336	Draconian Marauder	*Buck Rogers*
#5338	Thunder Hawk	
#5340	Thunder Roc	
#5341	Magnum D Hornet	
#5342	Magnum D Jayhawk	
#5358	Python Fighter	
BG-21	X-21	
KA-1	Lil' Hercules	
KA-4	Mach 10	
KA-5	Micron	
KA-6	Fire Fly	
KA-8	Excaibur	
KA-9	Flutter-By	
KB-2	Arcon	
KB-2	Vector V	
KB-3	Taurus Fleet Ship	
KB-4	Payloader	
KB-5	Nomad	
KB-6	Black Widow	
KB-8	Aero-Dyne	
KB-8	BatRoc	
KB-10	Micro-Probe	
KB-10	Sky Devil	
KB-13	Snipe Hunter	
KB-17	Astro-1	
KB-22	Micro-Probe	

KBG-1	Aero-Bat	
KBG-3	Acro-Bat	
KBG-3	Swift	
KC-1	Arcon	
KC-2	Centurion	
KC-3	Arcon-Hi	
KC-4	Long Tom	
KC-5	Astrobee 350	
KC-6	Space Shuttle	
KC-8	Orion	
KC-9	T Bird	
KC-12	Starfire	
KC-13	(The) Point	
KC-14	Iris	
KC-15	Centaur	
KC-16	Chuter Two	
KC-17	SST Shuttle 1	
KC-20	Payloader II	
KC-25	Honest John	
KC-30	Recruiter	
KC-31	Javelin	
KC-35	Defender Space Probe	
KC-45	Marauder	
KC-50	Laser-X	
KD-12	Aero-Dart	
KD-13	(Stellar) Hercules	*Stellar*
KD-16	Photon Probe	
KE-3	Nike Smoke	
KF-2	Aero-Dart	
KF-2	Hummingbird	
KF-3	Screaming Eagle	
KF-4	Jaguar	
KF-4	Scram Jet	
KF-6	Scorpion	
KF-8	Lil' Hustler	
KF-9	Explorer	
KF-10	Hustler	
KFS-9	Aero-Dart	
KM-2	Satellite 62SL	
KM-3	Star Trooper	

KS-1	Mercury Redstone
KS-8	Little Joe II
KS-9	Little Joe II
KS-10	Saturn 1B
KS-12	Saturn 5
KS-15	Nike Smoke
KS-19	V2

Acro-Bat (KBG-3 or #5059)

MODEL NAME: **Acro-Bat** *Also known as*:

NUMBER: KBG-3 or #5059

Introduced: 1963
Final Year: 1965
Designer: Lee Piester

Type: Boost Glider
Motor Mount: 1x18mm
Recovery: Glide
Stages: 1
Length: 15"
Diameter:
Span:
Weight:

Mfg. Description: Powered flight straight up - - then glide return for a soft landing. New improved design incorporated canard control surfaces with delta wing to give longer glide duration time. With the insertion of a new rocket engine, the Acro-Bat is ready to fly again. Completed model measures 15" from tip to tail. (Centuri 1964 Catalog)

1965 Centuri Catalog text identical to 1964

Editor's Note:

Catalog Liveries

1964

1965

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Aero-Bat (KBG-1 or #5057)

MODEL NAME: **Aero-Bat** *Also known as*:

NUMBER: KBG-1 or #5057

Introduced: 1962
Final Year: 1964
Designer: Lee Piester

Type: Rocket Glider
Motor Mount: 1x18mm
Recovery: Glide
Stages: 1
Length: 14"
Diameter:
Span:
Weight:

Mfg. Description: Powered flight straight up ------- then glide return for a soft landing. With the insertion of a new engine, the Aero-Bat is ready to fly again.

The completed model measures 14" from tip to tail. Comes in kit form --- easy to assemble. (Centuri 1962 Catalog)

Editor's Note:

Catalog Liveries

1962

Web Liveries

Face Card(s)

Instruction Header

Aero-Dart (KF-2)

MODEL NAME: **Aero-Dart** *Also known as*:

NUMBER: KF-2

Introduced: 1962
Final Year: 1964
Designer: Lee Piester

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter: 1.5"
Span:
Weight:

Mfg. Description: Designed for use with F-type rocket engines. Single-stage model with high altitude capabilities. Chute recovery system brings Aero-Dart safely back to earth, ready for another flight. (Centuri 1962 Catalog)

Catalog Liveries

1962

1964

Web Liveries

Face Card(s)

Also of interest: Centuri Aero-Dart Family

Aero-Dart (KF-12 or #5182)

MODEL NAME: **Aero-Dart** *Also known as*:

NUMBER: KF-12 or #5182

Introduced: 1967
Final Year: 1971
Designer: Lee Piester

Type: Sport/payload
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter: 1.75"
Span:
Weight:

Mfg. Description: All new - - from cone to fins! High performing single-stage operating model rocket with high altitude capabilities. New payload compartment provides more space for live biological specimans or instrumentation. New positive chute recovery system brings the Aero-Dart and its payload safely back to earth - ready for another flight. (Centuri 1967 Catalog)

Catalog Liveries

1967

1969

Web Liveries

Face Card(s)

Instruction Header(s)

Also of interest: Centuri Aero-Dart Family

Aero-Dart (KFS-9)

MODEL NAME: **Aero-Dart** *Also known as*:

NUMBER: KFS-9

Introduced: 1965
Final Year: 1966
Designer: Lee Piester

Type: Sport/payload
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter: 1.75"
Span:
Weight:

Mfg. Description: All new - - from cone to fins! High performing single-stage operating model rocket with high altitude capabilities. New payload compartment provides more space for live biological specimans or instrumentation. New positive chute recovery system brings the Aero-Dart and its payload safely back to earth - ready for another flight. (Centuri 1965 Catalog)

Catalog Liveries

1965

Web Liveries

Face Card(s)

Also of interest: Centuri Aero-Dart Family

Aero-Dyne (KB-8)

MODEL NAME: **Aero-Dyne** *Also known as*:

NUMBER: KB-8

Introduced: 1963
Final Year: 1964
Designer: Lee Piester

Type: 3 Stage
Motor Mount: 1x18mm/1x18mm/1x18mm
Recovery: Tumble/Tumble/Parachute
Stages: 3
Length:
Diameter:
Span:
Weight:

Mfg. Description: This new Centuri kit, designed for the advanced model rocketeer, demonstrates the method for reaching extreme altitudes through the staging of engines. The simplified stage coupling technique results in reliable separation of stages.

As each stage engine is expended and falls away, the next stage engine ignites and takes over. The final stage climbs to well over 2,000 feet, then returns by parachute, ready for another flight. (Centuri 1964 Catalog)

Editor's Note: This rocket shares the number KB-8 with the Bat-Roc, a completely different rocket.

Catalog Liveries

1964

Face Card(s)

Instruction Header

Also of interest:

Alien Scoutship Flying Saucer (#5325)

MODEL NAME: **Alien Scoutship Flying Saucer** *Also known as*:

NUMBER: #5325

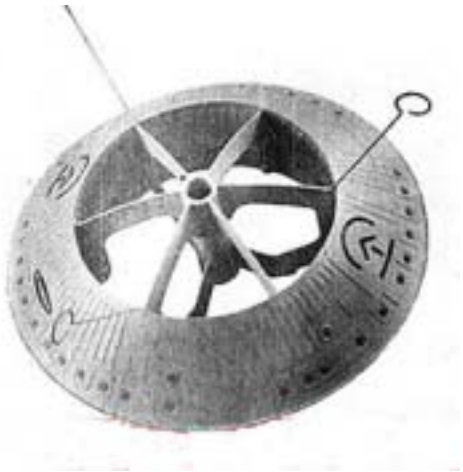
Introduced: 1978
Final Year: 1982
Designer:

Type: Oddroc/Saucer
Motor Mount: 1x18mm
Recovery: Aerobrake
Stages: 1
Length: 3.5"
Diameter: 9.125"
Span: 9.125"
Weight: 2.4 oz

Out Of Production

Mfg. Description: Streaking across the galaxy, flying saucers may bring alien life forms of all sorts to our planet. Centuri's model of this frequently observed craft features sturdy pre-cut, pre-formed fiber parts, embossed surface detail, aerials that double as landing gear plus an engine block. All parts are pre-colored and no special tools are necessary - just white glue. The Flying Saucer fits any launcher and flies to surprising altitudes with a single "Super C" booster engine. It glides back to earth for a safe landing ready to fly again. (Centuri 1978 Catalog 2)

Catalog Liveries



1978 Catalog 2

1979

1980

1981

1982

Web Liveries

Face Card(s)

Also of interest:

Arcon (KB-2)

MODEL NAME: **Arcon** *Also known as*:

NUMBER: KB-2

Introduced: 1962
Final Year: 1964
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 16"
Diameter:
Span:
Weight:

Mfg. Description: Single-stage upper atmosphere research vehicle. High altitude capabilities. Basic design makes this kit the ideal rocket for beginner or novice. Parachute recovery system brings model safely back to earth. (Centuri 1962 Catalog)

Single-stage scale model of the upper atmosphere research vehicle. High altitude capabilities. The Arcon's basic design makes this kit the ideal rocket for beginner or novice. Parachute recovery system brings it safely back to earth, ready for another flight. Comes to you in easy-to-build kit form. (Centuri 1964 Catalog)

Editor's Note:

Catalog Liveries

1962

1964

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Arcon Sounding Rocket Family

Arcon (KC-1 or #5061)

MODEL NAME: **Arcon** *Also known as*:

NUMBER: KC-1 or #5061

Introduced: 1965
Final Year: 1971
Designer:

Type: Scale, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21"
Diameter: 1.04"
Span:
Weight: 1.25 oz

Mfg. Description:

Editor's Note:

Catalog Liveries

1967

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Arcon Sounding Rocket Family

Arcon-Hi (KC-3 or #5063)

MODEL NAME: **Arcon-Hi** *Also known as*:

NUMBER: KC-3 or #5063

Introduced: 1965
Final Year: 1977
Designer:

Type: Scale, Payload, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 25"
Diameter: 1.04"
Span:
Weight: 1.27 oz

Mfg. Description:

Editor's Note:

Catalog Liveries

1965

1967

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Arcon Sounding Rocket Family

Astro-1 (KB-17 or #5047)

MODEL NAME: **Astro-1** *Also known as*:

NUMBER: KB-17 or #5047

Introduced: 1969
Final Year: 1983
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16"
Diameter: 1.05"
Span:
Weight: 1.1 oz

Mfg. Description: Easy and fast to build, ASTRO-1 is an excellent starting kit for the beginning rocketeer. Its high performance design assures you excellent, high altitude flights every time. Upon ignition, ASTRO-1 zooms hundreds of feet into the sky and returns safely by a large red and white parachute. Kit comes complete with parachute, colorful decals, "Quick-Change" engine mount and step-by-step illustrated instructions. (Centuri 1969 Catalog)

Catalog Liveries

1969

1970 Christmas

1971

1972

1975

1979

1980

1982

1983

Web Liveries

Face Card(s)

Also of interest: Centuri Astro-1 Family

Centuri Astrobee 350 (KC-5 or #5065)

MODEL NAME: **Astrobee 350** *Also known as*:

NUMBER: KC-5 or #5065

Introduced: 1965
Final Year: 1975
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.5"
Diameter: 1"
Span:
Weight: 1.1 oz

Mfg. Description: High altitude, scale, operating model of the 50 ft. solid propellant, upper atmosphere research vehicle. Terrific model for both beginner and advanced rocketeer. Upon ignition, the Astobee 350 streaks hundreds of feet into the sky, and returns by multi-color parachute, ready for another flight. This rocket may be multi-staged with the addition of the Booster Kit shown on page 7. (Centuri 1965 Calalog)

=====

High altitude, scale, operating model of the 50 ft. solid propellant, upper atmosphere research vehicle. Terrific model for both beginner and advanced rocketeer. Upon ignition, the Astobee 350 streaks hundreds of feet into the sky, and returns by multi-color parachute, ready for another flight. (Centuri 1967 Calalog)

Editor's Note:

Catalog Liveries

1965

1967

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Astrobee Sounding Rocket Family

BatRoc (KB-8 or #5038)

MODEL NAME: **BatRoc** *Also known as*:

NUMBER: KB-8 or #5038

Introduced: 1968
Final Year: 1968
Designer: Ron Maggiano

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Centuri BatRoc Family

Black Widow (KB-6 or #5036)

MODEL NAME: **Black Widow** *Also known as*:

NUMBER: KB-6 or #5036

Introduced: 1963
Final Year: 1981
Designer: Lee Piester

Type: Sport, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: glide/Parachute
Stages: 2
Length: 15"
Diameter: 0.76"
Span:
Weight: 1.3 oz

Mfg. Description: Simple enough for the beginner to build and launch, yet advanced in function and design. Using the B.8-0 and B.8-6 engine combination, this "bird" had flown to well over 1,500 feet. The unusual "first stage" or "booster" glides slowly back to earth after separation. Sure-safe parachute recovery system brings the second stage safely back to earth, ready for another flight. (Centuri 1964 Catalog)

1965 Centuri Catalog Identical to 1964

1967 Centuri Catalog Identical to 1964

Catalog Liveries

1962

1964

1965

1967

1969

1971

1972

1975

1979

Face Card(s)

Also of interest:

Centaur (KC-15 or #5075)

MODEL NAME: **Centaur** *Also known as*:

NUMBER: KC-15 or #5075

Introduced: 1965
Final Year: 1971
Designer:

Type: Sport, Payload
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 20.5"
Diameter: 1.3"
Span:
Weight: 1.8 oz

Mfg. Description: The futuristic Centaur Space Probe represents the ultimate in advanced model rocket design. A perfect kit for the advanced modeler, the Centaur has new, low drag fins and unique reliable stage coupling. This "bird" soars to well over1800 feet and returns safely by parachute. (Centuri 1965 Catalog)

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The futuristic Centaur Space Probe represents the ultimate in advanced model rocket design. A perfect kit for the advanced modeler, the Centaur has new, low drag fins and unique reliable stage coupling. This "bird" soars to well over1800 feet and returns safely by parachute.

This Easy-to-Build CENTAUR kit comes to you with all engine mounts and stage couplers pre-installed. Simply attach the fins, install recovery system, and paint. Kit includes roll pattern decals, two-color parachute, and complete assembly and launching instructions. (Centuri 1967 Catalog)

Catalog Liveries

1965

1967

1968

1969

1971

Web Liveries

Face Card(s)

Also of interest: Centuri Centaur Family

Centurion (KC-2 or #5062)

MODEL NAME: **Centurion** *Also known as*:

NUMBER: KC-2 or #5062

Introduced: 1970
Final Year: 1977
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: NUMBER
Length: 24"
Diameter: 1.64"
Span:
Weight: 2.3 oz.

Mfg. Description: Big and Beautiful! - is Centuri's new kit the CENTURION. Slow, realistic lift-offs are topped by a slow descent to earth on a large parachute. This kit features our new Baffle Ejection System which protects the parachute from the heat of the engine ejection gasses, eliminating the need for chute wadding. An engine lock makes engine change a snap. Kit is complete with illustrated assembly instructions and special CENTURION decal. (1971 Catalog)

Catalog Liveries

1971

1972

Web Liveries

Face Card(s)

Also of interest: Centuri Centurion Family

Centuri Chuter Two (KC-16 or #5076)

MODEL NAME: **Chuter Two** *Also known as*: Chuter 2, Chuter II

NUMBER: KC-16 or #5076

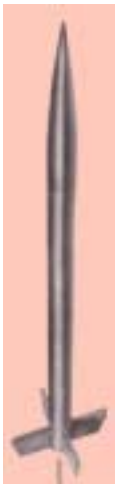
Introduced: 1967
Final Year: 1971
Designer:

Out Of Production

Type: Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18.5"
Diameter: 0.908"
Span:
Weight: 1.0 oz

Mfg. Description: A terrific high performance bird! This sleek-trim model is an excellent starter kit and a challenging one for the experience pro. THe 3" long cone capsule will carry your insect or instrument payload to well over 1500 feet altitude. The Chuter-Two contain 2 colorful parachutes - - one to recover the cone capsule and the other to recover the main body. (Centuri 1967 Catalog)

Catalog Liveries


1967

1969

1971

Web Liveries

Face Card(s)

Also of interest: Centuri Chuter Two Family

Defender Space Probe
(KC-35 or #5095)

MODEL NAME: **Defender Space Probe** *Also known as*:

NUMBER: KC-35 or #5095

Introduced: 1967
Final Year: 1970
Designer:

Type: cluster/sport/payload
Motor Mount: 3x18mm
Recovery: parachute
Stages: 1
Length: 21"
Diameter: 1.64"
Span:
Weight: 2.0 oz

Mfg. Description: The Defender represents the latest in futuristic aero space design as applied to model rocketry. Launch your payload (up to 3 ounces) in either of two compartments to high altitudes with 3-Enging cluster thrust. The Defender is a real challenge for the experienced modeler. Kit comes complete with all parts, decals, detailed assembly instructions and engine clustering and launching information. Engines not included. Recovers safely by a large 20" two color parachute. (Centuri 1967 Catalog)

Catalog Liveries

1967

1969

Web Liveries

Face Card(s)

Also of interest: Centuri Defender Space Probe Family

Draconian Marauder (#5336)

MODEL NAME: **Draconian Marauder** *Also known as*:

NUMBER: #5336

Introduced: 1979
Final Year: 1981
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Catalog Liveries

1979

1980

Web Liveries

Face Card(s)

Also of interest: Buck Rogers Draconian Marauder Family

E.S.S. Raven (#5312)

MODEL NAME: **E.S.S. Raven** *Also known as*:

NUMBER: #5312

Introduced: 1976
Final Year: 1981
Designer:

Type: Exotic
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 30.5"
Diameter: 1.6"
Span: 10.5"
Weight: 5.3 oz

Mfg. Description: The E.S.S. Raven is the proud flagship of the Earth Science Service (E.S.S.). The service was founded in 1981 when leading scientists united in a world federation that cuts across national boundaries and politics. The E.S.S. has pushed the frontiers of science ever outward with the recently announced Faster Than Light Drive, and the rumors of time travel. The Raven is part of the E.S.S. Ozone Research Project which tests the upper stratosphere. Based somewhere in the Sierra Mountains, the Raven can fly to the very limits of the atmosphere. The huge lower scoop gathers air samples to be analyzed by the vast shipboard computer buried within the huge vessel. (Centuri 1st 1976 Catalog)

Editor's Note:

Catalog Liveries

1976 Catalog 1

1976 Catalog 2

1979

1980

Web Liveries

Face Card(s)

Also of interest: Centuri ESS Raven Family, Centuri Super Kit Family

Excalibur (KA-8 or #5008)

MODEL NAME: **Excalibur** *Also known as*:

NUMBER: KA-8 or #5008

Introduced: 1972
Final Year: 1980
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: More than 2 feet long, the EXCALIBUR is in a class of its own with the dynamic lines of real research rockets. Rapid assembly techniques include molded body reducer, plastic nose cone, engine lock, die-cut smooth-faced fibre fins and a minimum of tools required. Detailed assembly instructions include painting tips and customizing option to form upper section payload capsule. The custom decal sheet and bright reflective chrome trim finish off this lean bird...long on looks and performance. (Centuri 1972 Catalog)

Editor's Note:

Catalog Liveries

1972

1979

Web Liveries

Face Card(s)

Also of interest: Centuri Excalibur Family

Explorer (KF-9 or #5179)

MODEL NAME: **Explorer** *Also known as*:

NUMBER: KF-9 or #5139

Introduced: 1965
Final Year: 1971
Designer: Lee Piester

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 27"
Diameter: 1.75"
Span:
Weight: 3.9 oz

Mfg. Description: Extremely versatile!!! The Explorer may be powered by either Atlas or Hercules series engines. Upon ignition the Explorer streaks to altitudes approaching 2000 feet. With the addition of a payload section, it can carry your payload to upper atmosphere altitude. (Centuri 1965 Catalog)

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Extremely versatile!!! The Explorer may be powered by either the "E" of "F" type MINI-MAX engines shown on pages 64 and 65. Upon ignition the Explorer streaks to altitudes approaching 2000 feet. With the addition of a payload section, it can carry your payload to upper atmosphere altitude. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1965

1967

1969

1971

Web Liveries

Face Card(s)

Instruction Header(s)

Also of interest: Centuri Explorer Family

Fire Fly (KA-6 or #5006)

MODEL NAME: **Fire Fly** *Also known as*:

NUMBER: KA-6 or #5006

Introduced: 1967
Final Year: 1974
Designer:

Type: Sport/2-Stage
Motor Mount:
Recovery: Tumble/Streamer
Stages: 2
Length: 9"
Diameter: 0.906"
Span:
Weight: 0.90 oz

Mfg. Description: The world's smallest two-stage rocket!
Only 9" long, the FIREFLY packs a lot of altitude into a very small package. Centuri's "dual-lock" stage coupling provides reliable upper stage ignition and separation. The FIREFLY streaks nearly out of site, then returns by "low-drag" streamers. Booster tumble recovers. Fly second stage by itself for excellent single stage flights. (Centuri 1969 Catalog)

Editor's Note:

Catalog Liveries

1969

1970 Christmas

1971

Web Liveries

Face Card(s)

Also of interest: Centuri Firefly Family

Flutter-By (KA-9 or #5009)

MODEL NAME: **Flutter-By** *Also known as*:

NUMBER: KA-9 or #5009

Introduced: 1972
Final Year: 1974
Designer: Grant Boyd

Out Of Production

Type: Sport
Motor Mount:
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: This little fellow is a bird with a difference! Power separates at apogee into two wing shapes that flutter safely to earth. The simple recovery system and engine lock make the Flutter-By easy to prep and fun to fly over and over. Designed for low power engines, the Flutter-By is a great crowd pleaser. Kit includes custom decal, shiny high-visibility chrome trim, detailed instruction and die cut fins. (Centuri 1972 Catalog)

Editor's Note:

Catalog Liveries

1972

Web Liveries

Face Card(s)

Also of interest:

(Stellar) Hercules (KD-13 or #5213)

MODEL NAME: **Hercules** *Also known as*: Stellar Hercules

NUMBER: KD-13 or #5213

Introduced: 1975
Final Year: 1976
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

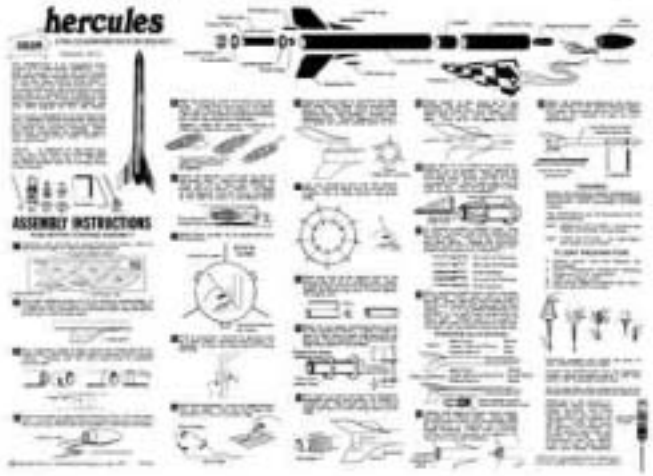
Editor's Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Centuri Stellar Marketing Family

Honest John (KC-25 or #5085)

MODEL NAME: **Honest John** *Also known as*:

NUMBER: KC-25 or #5085

Introduced: 1966
Final Year: 1975
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13.4"
Diameter: 0.907"
Span:
Weight: 1.05 oz

Out Of Production

Mfg. Description: A true-scale operating model of the U.S. Army's famous surface-to-surface ballistic missile. This 1/25th detailed scale model of HONEST JOHN lifts off the pad for a thrilling flight skyward, and returns gently to earth by a colorful parachute. Comes to you in easy-to-build kit form. Complete, except for engines. (Centuri 1967 Catalog)

Editor's Note:

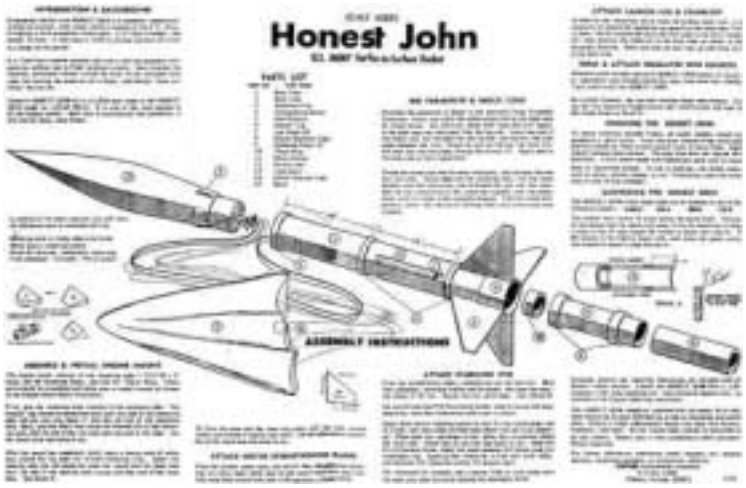
Catalog Liveries

1967

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Honest John Ordnance Family

Centuri Hummingbird (KF-2 or #5172)

MODEL NAME: **Hummingbird** *Also known as*:

NUMBER: KF-2 or #5172

Introduced: 1973
Final Year: 1977
Designer:

Type: Boost Glider
Motor Mount:
Recovery: Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Now it's easier than ever to get in on this fun recovery technique! Pre-colored, pre-cut, light-weight fibre parts go together in a jiffy! (Centuri 1973 Catalog)

Editor's Note:

Catalog Liveries

1973

Web Liveries

Face Card(s)

Also of interest:

Hustler (KF-10 or #5180)

MODEL NAME: **Hustler** *Also known as*:

NUMBER: KF-10 or #5180

Introduced: 1965
Final Year: 1971
Designer: Lee Piester

Type: Payload
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 37"
Diameter: 2.25"
Span:
Weight: 8.2 oz

Mfg. Description: A real work horse!! Designed to carry your biological specimen or instrumentation payload to extreme altitudes. Study acceleration effects -- build miniature camera -- build radio transmitter or receiver. The Hustler and its payload returns safely by large hemispherical silk parachute for many repeat launchings. (Centuri 1965 Catalog)

1967 Catalog entry identical to 1965

Editor's Note:

Catalog Liveries

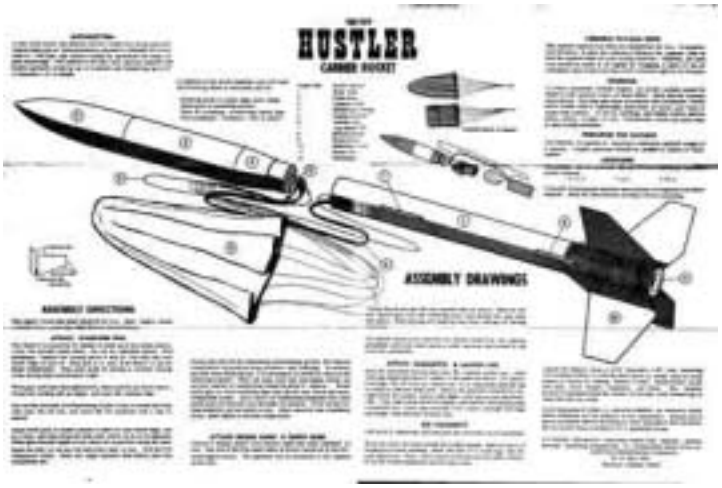
1965

1967

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Centuri Hustler Family

Iris (KC-14 or #5074)

MODEL NAME: **Iris** *Also known as*:

NUMBER: KC-14 or #5074

Introduced: 1967
Final Year: 1975
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.75"
Diameter: 0.907"
Span: 3.75"
Weight: 0.90 oz

Mfg. Description: The IRIS model rocket is a true scale. operating miniature of the big sounding rocket produced by Atlantic Research Corp. for NASA and the Naval Research Laboratories. The "big" IRIS has the capability of lifting a 100 lb. payload to 200 miles altitude.

Now you can build this beautiful scale model yourself, watch it streak hundreds of feet upward, returning safely by a colorful parachute. An excellent model for both the beginning and advanced rocketeer. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1967

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Iris Sounding Rocket Family

Jaguar (KF-4)

MODEL NAME: **Jaguar** *Also known as*:

NUMBER: KF-4

Introduced: 1967
Final Year: 1971
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 23"
Diameter: 1.20"
Span:
Weight: 2.5 oz

Out Of Production

Mfg. Description: Top altitude possible with MINI-MAX 'EB' engines!! Easy-to-assemble. Comes with engine mounts pre-installed. Complete instructions, roll pattern decal, and engine information included. The JAGUAR streaks out of sight and returns safely by colorful silk parachute, ready for another spectacular flight. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1967

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Javelin (KC-31 or #5091)

MODEL NAME: **Javelin** *Also known as*:

NUMBER: KC-31 or #5091

Introduced: 1965
Final Year: 1983
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 11.5"
Diameter: 0.75"
Span:
Weight: 0.5 oz

Mfg. Description: This easy-to-build, high performance rocket is just the "bird" for the beginning model rocketeer. Upon lift-off, the Javelin streaks into the sky hundreds of feet and returns safely by colorful parachute to be flown again and again. (Centuri 1965 Catalog)

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This easy-to-build, high performance rocket is just the "bird" for the beginning model rocketeer. Upon lift-off, the Javelin streaks into the sky hundreds of feet and returns safely by colorful parachute to be flown again and again.

This model has been tracked to over 1,800 feet using a B.8-6 Centuri engine. The payload cone, PC-70 or PS-72 on page 40 may be coupled for payload carrying capabilities. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1965

1967

1969

1970 Christmas

1972

1975

1979

1980

1982

1983

Face Card(s)

Also of interest: Centuri Javelin Family

Laser-X (KC-50 or #5110)

MODEL NAME: **Laser-X** *Also known as*:

NUMBER: KC-50 or #5110

Introduced: 1968
Final Year: 1981
Designer: Bill Blair

Type: Exotic
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 21.5"
Diameter: 1.35"
Span:
Weight: 1.75 oz

Mfg. Description: A great new kit by Centuri! One of our most popular "birds", the Laser-X looks and performs fantastically. It's futuristic design and large size give you exciting, realistic looking lift-offs, and after reaching peak altitude, a colorful big parachute blossoms out and returns LASER-X safely back to earth. New pre-cut balsa fins make assembly easy. (Centuri 1969 Catalog)

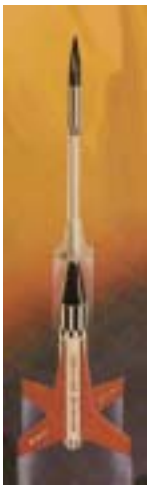
Editor's Note:

Catalog Liveries

1969

1970 Christmas

1971



1972

1975

1976 Catalog 1

1979

1981

Web Liveries

Face Card(s)

Also of interest: Centuri Laser-X Family

Lil’ Hercules (KA-1 or #5001)

MODEL NAME: **Lil’ Hercules** *Also known as*:

NUMBER: KA-1 or #5001

Introduced: 1965
Final Year: 1983
Designer:

Type: Sport
Motor Mount:
Recovery: Tumble
Stages: 1
Length: 5.6"
Diameter: 0.75"
Span:
Weight: 0.16 oz

Mfg. Description: Perfect for the beginner in model rocketry. Designed exclusively for use with the 'S' or Series III engines. Extremely small and light weight, the Lil' Hercules streaks skyward and returns safely for many flights. Easy-to-build kit. (Centuri 1965 Catalog)

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1967 Catalog Description identical to 1965 Catalog

Editor’s Note:

Catalog Liveries

1965

1967

1969

1970 Christmas

1972

1979

1980

1982

1983

Face Card(s)

Also of interest: Centuri Lil' Hercules Family

Lil’ Hustler (KF-8 or #5178)

MODEL NAME: **Lil’ Hustler** *Also known as*:

NUMBER: KF-8 or #5178

Introduced: 1967
Final Year: 1971
Designer:

Type: Payload, Downscale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 29"
Diameter: 1.33"
Span:
Weight: 6.5 oz

Mfg. Description: A real payload carrier!! The "LIL' HUSTLER" is a 3/4 scale version of its big brother, the HUSTLER. Designed for its higher altitude capability, the LIL' HUSTLER will carry up to 6 ounces of payload. Comes with pre-installed engine mount and recovery system. Includes 3 powerful MINI-MAX F10-4 rocket engines with igniter packet and complete instructions. Safe recovery with colorful silk parachute. (Centuri 1967 Catalog)

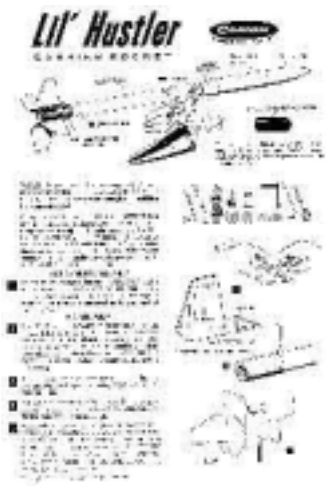
Editor’s Note: The Lil' Hustler is mis-labeled as KF-10 in the 1967 catalog.

Catalog Liveries

1967

Web Liveries

Face Card(s)



Also of interest: Centuri Hustler Family

(1/45) Little Joe II (KS-8 or #5138)

MODEL NAME: **Little Joe II** *Also known as*: Apollo Little Joe 2

NUMBER: KS-8 or #5138

Introduced: 1968
Final Year: 1977
Designer:

Type: Scale. Cluster
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 23.4"
Diameter: 3.4"
Span:
Weight: 5.5 oz

Mfg. Description: A terrific looking, top performing Real Flying Model of the famous rocket booster used by NASA to test out the APOLLO Capsule series before mating with the SATURN rockets. Now you can recreate those historic test flights with your own APOLLO Little Joe. Almost 2 feet tall, the LITTLE JOE model is strikingly impressive with its chrome plated corrugated body and pre-printed roll patterns. Powered by a 3 engine cluster, LITTLE JOE streaks hundreds of feet skyward, reaches maximum altitude, then separates into two parts -- each part returning on its own large 24" red and white parachute. Launch it over and over. Comes in easy-to-assemble kit form with complete instructions - plus Scale Data Booklet. (Centuri 1968 Catalog)

Editor's Note:

Catalog Liveries

1968

1970 Christmas

1971

1972

1975

Web Liveries

Face Card(s)

Also of interest: Little Joe II aunch Vehicle Family

(1/100) Little Joe II (KS-9 or #5139)

MODEL NAME: **Little Joe II** *Also known as*: Little Joe

NUMBER: KS-9 or #5139

Introduced: 1969
Final Year: 1975
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 10.5"
Diameter: 1.58"
Span:
Weight: 1.1 oz

Mfg. Description: A real high flyer!! This sharp "bird" looks just like its big brother. Kit includes corrugated metalized skin, pre-printed roll patterns, pre-shaped fins and molded plastic capsule with tower. The 1/100th Scale Little Joe streaks hundreds of feet upward, then returns safely by colorful chute. (Centuri 1969 Catalog)

Editor's Note:

Catalog Liveries

1969

1970 Christmas

1971

1972

Web Liveries

Face Card(s)

Also of interest: Little Joe II Launch Vehice Family

Long Tom (KC-4 or #5064)

MODEL NAME: **Long Tom** *Also known as*:

NUMBER: KC-4 or #5064

Introduced: 1970
Final Year: 1981
Designer:

Type: Sport, 2 Stage
Motor Mount:
Recovery: Tumble/Parachute
Stages: 2
Length: 35.5"
Diameter: 1.34"
Span:
Weight: 2.5 oz

Mfg. Description: The long, sleek lines of this two stage kit are sure to attract more than the usual amount of interest on the launch pad. Centuri's new innovations, Pass-Port Staging and Baffle Ejection help to make the LONG TOM tops in performance. If you want a big, impressive rocket for a low price -- then you've found it. (Centuri 1971 Catalog)

Editor's Note:

Catalog Liveries

1971

1972

1979

Web Liveries

Face Card(s)

Also of interest: Centuri Long Tom Family

Mach 10 (KA-4 or #5004)

MODEL NAME: **Mach 10** *Also known as*:

NUMBER: KA-4 or #5004

Introduced: 1971
Final Year: 1979
Designer: Larry Brown

Type: Rocket Glider
Motor Mount: 1x18mm
Recovery: Streamer/Glide
Stages: 1
Length: 12"
Diameter: 1.64"
Span: 11"
Weight: 1.85 oz

Mfg. Description: The MACH 10 screams skyward at speeds better than 100 m.p.h. Pealing off at peak altitude, the MACH 10 ejects a target marker (with streamer), then after a couple of loops, settles into a circular glide path earthward. Making a "wheels up" landing, the MACH 10 skids gently to a stop on its belly tank.

Great for neighborhood contests! In a "MACH 10 Competition", you can see who can drop the target marker closest to a prescribed ground target, you can compete for glide endurance times, you can try for "spot landings" on a "runway" marked out on the ground. Fun to fly and easy to construct, the MACH 10 comes complete with all parts, illustrated instructions and three-color decals. (Centuri 1971 Catalog)

Editor's Note:

Catalog Liveries

1971

1972

1975

1979

Web Liveries

Face Card(s)

Also of interest:

Magnum D Hornet (#5341)

MODEL NAME: **Magnum D Hornet** *Also known as*: Magnum Hornet

NUMBER: #5341

Introduced: 1980
Final Year: 1983
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Streamer
Stages: 1
Length: 19.8"
Diameter: 1.325"
Span:
Weight: 1.76 oz

Out Of Production

Mfg. Description: SLEEK & SWIFT FLYER!
Your friends will marvel at how fast the sleek Hornet moves off the pad on Magnum-D power! Easy to build, the Hornet makes an excellent first "D" kit. Plastic nose cone, snappy decal, pre-cut balsa fins and long 90" streamer make Hornet fun to build and fly! (Centuri 1981 Catalog)

Catalog Liveries

1981

1982

Web Liveries

Face Card(s)

Also of interest: Centuri Hornet Family

Magnum D Jayhawk (#5342)

MODEL NAME: **Magnum D Jayhawk** *Also known as*: Magnum Jayhawk

NUMBER: #5342

Introduced: 1980
Final Year: 1983
Designer: Chris Pocock and Doug Frost

Out Of Production

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 30.4"
Diameter: 2.6"
Span:
Weight: 3.5 lbs.

Mfg. Description: Spectacular 1/5 scale model of the U.S. Navy's AQM 37A target drone, probably the prettiest U.S. missile ever. This massive rocket is over 30" long...it's impressive on the pad and in the air. Fantastically detailed, a challenge to all modelers. Special features include a molded plastic nosecone, huge pre-cut balsa sheets, and 112 sq. inch decal sheet (almost a square foot!) printed in five bold colors. Magnum D power gives it quite a ride and two 20 inch parachutes bring it safely to earth, ready for another flight. Designed for the advanced model rocketeer, this kit is a model you'll be extra proud to display and fly.

Editor's Note:

Catalog Liveries

1981

1982

Web Liveries

Face Card(s)

Also of interest: AQM-37 Jayhawk Ordnance Family

Marauder (KC-45 or #5105)

MODEL NAME: **Marauder** *Also known as*:

NUMBER: KC-45 or #5105

Introduced: 1969
Final Year: 1971
Designer:

Type: Sport, 2 Stage, Payload
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 18"
Diameter: 0.908"
Span:
Weight: 1.1 oz

Mfg. Description: The ideal beginning multi-stage rocket! Real 2-stage action using Centuri's "dual lock" stage coupling. The MARAUDER will carry your payload to over 2000 feet in two successive stages, eject its parachute and return safely to be flown again. Booster tumble recovers. Second stage can be launched by itself as a great single stage rocket. Includes simulated exhaust nozzle and trim decals. (Centuri 1969 Catalog

Editor's Note:

Catalog Liveries

1969

1971

Web Liveries

Face Card(s)

Also of interest: Centuri Marauder Family

Centuri Mercury Redstone (KS-1 or #5131)

MODEL NAME: **Mercury Redstone** *Also known as*:

NUMBER: KS-1 or #5131

Introduced: 1971
Final Year: 1983
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 29"
Diameter: 2.04"
Span:
Weight: 3.7 oz

Mfg. Description: A true 1/38 scale version of the pioneer MERCURY REDSTONE. This is an accurately detailed scale model such as you would expect from Centuri. Measuring 2" in diameter, the REDSTONE stands 29" tall - a big, impressive model. Relatively simple in construction, this kit makes no sacrifice to detail and scale fidelity. The MERCURY capsule and tower are hi-impact molded styrene parts. Fins are pre-printed on quality basla stock. Large decals include roll patterns and all markings found on the real rocket.

Flight performance is both realistic and exciting. Recovery is dual parachute type: the main body descends on a large 24" chute while the capsule returns on its 12" chute. Featuring a Baffle Ejection System and "quick change" engine lock, the REDSTONE is a snap to "prep" for firing. Complete kit includes informative historical brochure. (Centuri 1971 Catalog)

Editor's Note:

Catalog Liveries

1971

1972

1975

1979

1982

Web Liveries

Face Card(s)

Also of interest: Mercury Redstone Launch Vehicle Family

Micro-Probe (KB-10)

MODEL NAME: **Micro-Probe** *Also known as*:

NUMBER: KB-10

Introduced: 1964
Final Year: 1964
Designer:

Type: 2 Stage
Motor Mount:
Recovery:
Stages: 2
Length: 12"
Diameter:
Span:
Weight: 0.75 oz

Out Of Production

Mfg. Description: The ultimate in reliable multi-stage miniaturization. May be flown as either two stage or single stage. Model weighs only 3/4 oz. Reaches altitudes in excess of 2,000 ft. Basic two stage design makes this kit ideal for both beginners and novices. (Centuri 1964 Catalog)

Editor's Note: Not to be confused with Centuri Micro Probe KB-22.

Catalog Liveries

1964

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Micro-Probe Family

Micro-Probe (KB-22 of #5052)

MODEL NAME: **Micro-Probe** *Also known as*:

NUMBER: KB-22 or #5052

Introduced: 1965
Final Year: 1971
Designer:

Type: Payload, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 16"
Diameter: 1.0"
Span:
Weight: 1.1 oz

Mfg. Description: All new in every detail! This kit is the perfect beginning multi-stager for the aspiring rocketeer. Using the new, reliable dual-lock stage coupling system, the Micro-Probe caries your payload to well over 1800 feet and returns it safely by parachute. (Centuri 1965 Catalog)

=====

All new in every detail! This kit is the perfect beginning multi-stager for the aspiring rocketeer. Using the new, reliable dual-lock stage coupling system, the Micro-Probe caries your payload to well over 1800 feet. The plastic see-thru compartment allows you to see the payload without removing the capsule. This model may be flown either single or multi-stage. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1965

1967

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Micro-Probe Family

Micron (KA-5 or #5005)

MODEL NAME: **Micron** *Also known as*:

NUMBER: KA-5 or #5005

Introduced: 1963
Final Year: 1981
Designer: Lee Piester

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 8.5"
Diameter:
Span:
Weight: 0.38 oz

Mfg. Description: The single stage Micron kit is perfect for the beginner in model rocketry. Its basic stable design will aid your understanding of rocketry fundamentals. This models has been tracked to well over 2000 ft using a B8-0 engine. Streamer recovery system provides a soft landing so that the Micron can be flown again and again. Comes to you in easy to build kit form with easy-to-follow instructions. (Centuri 1964 Catalog)

=====

The perfect kit for the beginner in model rocketry. Its basic stable design will aid your understanding of rocketry fundamentals. This rocket has been tracked to well over 2,000 feet using a B.8-6 engine. Streamer recovery system provides a soft landing so the Micron can be flown many times. Comes to you in easy-to-build kit. (Centuri 1965 Catalog)

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1967 Catalog Description Identical to 1965 Catalog

Editor's Note:

1964

1965

1967

1969

1970 Christmas

1971

1972

1975

1979

1980

Also of interest: Centuri Micron Family

Centuri Nike Smoke (KS-15 or #5145)

MODEL NAME: **Nike Smoke** *Also known as*:

NUMBER: KS-15 or #5145

Introduced: 1969
Final Year: 1981
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.65"
Diameter: 1.64"
Span:
Weight: 2.3 oz

Mfg. Description: A real collector's item and challenge for all rocketeers. Nearly 2 feet tall, this big impressive looking model lifts slowly off the pad, streaks skyward almost out of sight, and then returns safely suspended from a large 20" parachute. Kit includes decals plus "Scale Data Sheet" with photos and scale drawings of the real NIKE SMOKE. (Centuri 1969 Catalog)

Editor's Note:

Catalog Liveries

1969

1970 Christmas

1971

1972

1979

Web Liveries

Face Card(s)

Also of interest: Nike Smoke Sounding Rocket Famiy

Nike Smoke (KE-3 or #5183)

MODEL NAME: Nike Smoke *Also known as*:

NUMBER: KE-3 or #5145

Introduced: 1972
Final Year: 1976
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editor's Note:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Nike Smoke Sounding Rocket Family

Nomad (KB-5 or #5035)

MODEL NAME: **Nomad** *Also known as*:

NUMBER: KB-5 or #5035

Introduced: 1973
Final Year: 1981
Designer:

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18"
Diameter: 1.0"
Span:
Weight: 1.75 oz

Mfg. Description: Its not a scale model...but sure looks like a real U.S. Navy Missile! Includes parachute, molded cone, pre-cut fibre-fins & vanes, engine lock, chrome bands and a fabulous 2 color decal sheet and "spec plate". (Centuri 1973 Catalog)

Catalog Liveries

1973

1975

1979

1980

1981

Web Liveries

Face Card(s)

Also of interest:

Orion (KC-8 or #5068)

MODEL NAME: **Orion** *Also known as*:

NUMBER: KC-8 or #5068

Introduced: 1971
Final Year: 1977
Designer: Larry Brown

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 22.5"
Diameter: 2.04"
Span:
Weight: 4.5 oz

Mfg. Description: The ORION is one of the largest single engine sports rockets available. Loaded with detail from end to end, the ORION is one of the most impressive rockets you could ever build. Featuring single engine power, Baffle Ejection System, engine lock and parachute recovery, the ORION is as great on the launch pad as it is on the display stand. Kit includes complete detailing parts, simulated exhaust nozzle and illustrated instructions. (Centuri 1971 Catalog)

Editor's Note:

Catalog Liveries

1971

1972

1975

Face Card(s)

Also of interest: Centuri Orion Family

Payloader (KB-4)

MODEL NAME: **Payloader** *Also known as*:

NUMBER: KB-4

Introduced: 1962
Final Year: 1964
Designer:

Type: Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15"
Diameter:
Span:
Weight:

Mfg. Description: Low-drag design permits high altitude exposure of live payloads such as crickets, lizards, insects, etc. Plastic see-thru payload compartment in nose and mid-section. Can be coupled with booster kit below for two-stage operation. (Centuri 1962 Catalog)

The ideal rocket for both beginner and novice. Excellent for both demonstrations and displays. Study the effects of acceleration on insects and small animals with assured safe recovery by parachute. Kit includes payload nose cone, body tube, fin material and pattern, bulkhead, parachute pak, shock cord, contrasting checkerboard decal, and compele instructions.

The Payloader's low-drag design permits high altitude exposure of live payloads such as crickets, ants, beetles and other insects. Plastic see-thru payload compartment in nose and mid-section. Can be coupled with either the basic booster kit on page 11 or the Gliding Booster listed on page 14 for two-stage operation. (Centuri 1964 Catalog)

Editor's Note:

Catalog Liveries

1962

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Payloader Family

Centuri Payloader II (KC-20 or #5080)

MODEL NAME: **Payloader II** *Also known as*:

NUMBER: KC-20 or #5080

Introduced: 1965
Final Year: 1981
Designer:

Type: Sport/Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18.5"
Diameter: 1.04"
Span:
Weight: 1.2 oz

Out Of Production

Mfg. Description: New larger improved version of Centuri's famous Payloader. Larger, more spacious see-thru payload capsule permits launching of bigger payloads. Payloader II is an excellent kit for both the beginning and advanced rocketeer. Terrific for demonstrations and displays. Study the effects of acceleration on insects and small animal life with assured safe recovery. (Centuri 1965 Catalog)

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Terrific for demonstrations and displays. Large, spacious see-thru payload capsule permits launching of insects or other small animal life to study acceleration effects, with assured safe recovery. Launch crickets, beetles, ants, and other insects to high altitudes. Colorful parachute recovery system. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1965

1967

1969

1970 Christmas

1971

1972

1979

1980

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Payloader Family

Photon Probe (KD-16)

MODEL NAME: **Photon Probe** *Also known as*:

NUMBER: KD-16

Introduced:
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editor's Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Laser-X Family

(The) Point (KC-13 or #5073)

MODEL NAME: **The Point** *Also known as*:

NUMBER: KC-13 or #5073

Introduced: 1969
Final Year: 1976
Designer: Doug Malewicki

Type: Oddroc
Motor Mount: 1x18mm
Recovery: Pseudo Parachute
Stages: 1
Length: 8.1"
Diameter: 3.9"
Span: 3.9"
Weight: 0.55 oz

Mfg. Description: This brand new easy-to-assemble "finless" rocket really flies! Learn about rocket stability by building and flying the POINT. Kit comes with colorful pre-painted body skin and astronaut cockpit. Unusual body shape acts as its own rigid parachute for sure, safe recovery every flight. Use B4-2 engine only. (Centuri 1969 Catalog)

Editor's Note:

Catalog Liveries

1969

1970 Christmas

1971

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Point Family

Python Fighter (#5358)

MODEL NAME: **Python Fighter** *Also known as*:

NUMBER: #5358

Introduced: 1983
Final Year: 1983
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.875"
Diameter: 0.876"
Span:
Weight: 1.25 oz

Mfg. Description: Futuristic space fighter design. This short range support craft is based on large space carriers. Quad mounted laser canon and force field defense. (Centuri 1983 Catalog)

Editor's Note:

Catalog Liveries

1983

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Recruiter (KC-30 or #5090)

MODEL NAME: **Recruiter** *Also known as*: Recruiter Space Probe

NUMBER: KC-30 or #5090

Introduced: 1967
Final Year: 1971
Designer:

Type: Sport, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19"
Diameter: 1.34"
Span:
Weight: 1.1 oz

Mfg. Description: Impressive display model!! Excellent flight bird!! Easy-to-build, yet a real challenge for the model rocketeer. The RECRUITER's futuristic design includes a Gemini-styled capsule cone and new, six-fin stabilizers. The top section of the RECRUITER serves as a payload compartment. This bird streaks hundreds of feet skyward and returns safely by a colorful parachute to be flown again and again. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1967

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Recruiter Family

S.S.V. Scorpion (#5307)

MODEL NAME: **S.S.V. Scorpion** *Also known as*:

NUMBER: #5307

Introduced: 1977
Final Year: 1981
Designer: Dave Smith

Type: Exotic
Motor Mount: 1x28mm
Recovery: Parachute
Stages: 1
Length: 29.7"
Diameter: 2"
Span: 8.5"
Weight: 5.7 oz

Out Of Production

Mfg. Description: Until 1983 most satellite repair and service was conducted with NASA Space Shuttles. This encouraged peaceful applications of space travel so that today Earth is surrounded by thousands of solar energy collecting satellites. The Satellite Service Vehicle (S.S.V.) Scorpion maintains this complex network which conserves our dwindling natural fuels. Its name comes from the stinger shaped rudder that magnetically launches and retrieves satellites from earth orbit. They slide down the rudder into storage slots on the hull, and are later brought into the open hanger. Maintenance crews work in the vacuum of space to prevent atmospheric damage to these satellites so vital to the 21st century. (Centuri 1977 Catalog 1)

Editor's Note:

Catalog Liveries

1977-1

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Super Kit Marketing Family

Satellite 62SL (KM-2 or #5302)

MODEL NAME: **Satellite 62SL** *Also known as*:

NUMBER: KM-2 or #5302

Introduced: 1973
Final Year: 1979
Designer:

Out Of Production

Type: Oddroc
Motor Mount:
Recovery: Dowel-Copter
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Spins down like a copter, after engine ejection. Includes precision Molded Nose Cone. Long wooden "Antenna" Fins (use 3 or 4). Chrome decals. No painting required. (Centuri 1973 Catalog)

Editor's Note:

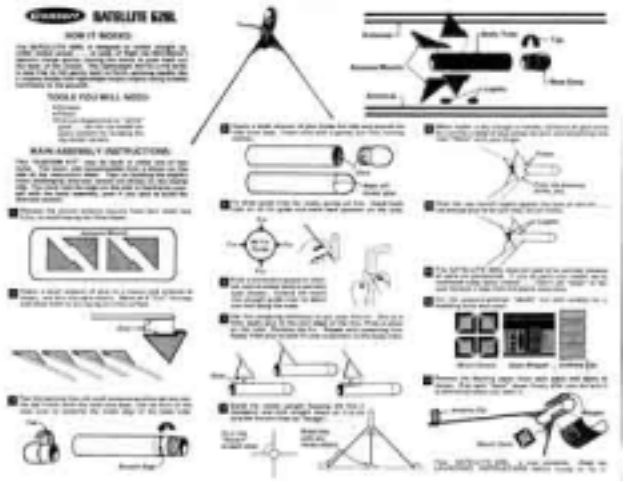
Catalog Liveries

1973

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Centuri Saturn 1B (KS-10 or #5140)

MODEL NAME: **Saturn 1B** *Also known as*:

NUMBER: KS-10 or #5140

Introduced: 1969
Final Year: 1982
Designer:

Out Of Production

Type: Scale, Cluster
Motor Mount: 2x18mm
Recovery: Parachute
Stages: 1
Length: 26.8"
Diameter: 2.02"
Span:
Weight: 4.7 oz

Mfg. Description: This sharp looking model of the first manned APOLLO flight vehicle stands over 2 feet tall, yet weighs less than 5 ounces. Perfect for all modelers to build, Saturn 1-B promises you an eye catching display plus thrill high altitude flights. Powered by two engines, the 1-B lifts off, climbs hundreds of feet to peak altitude and then separates into two parts. The APOLLO spacecraft descends on a colorful 16" parachute while the launch vehicle returns safely on a big red and white 24" chute. Kit includes illustrated assembly and launching instructions plus directions for reliable clustering. (Centuri 1969 Catalog)

Editor's Note:

Catalog Liveries

1969

1970 Christmas

1971

1972

1979

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Saturn I Launch Vehicle Family

Saturn 5 (KS-12 or #5142)

MODEL NAME: **Saturn 5** *Also known as*: Saturn V

NUMBER: KS-12 or #5142

Introduced: 1969
Final Year: 1983
Designer: Keith Niskern

Type: Scale, Cluster
Motor Mount: 3x18mm
Recovery: Parachute
Stages: 1
Length: 43.6"
Diameter: 3.96"
Span:
Weight: 9.9 oz

Mfg. Description: This real flying model of the world's most powerful space rocket is an excellent project for any modeller. Standing over 43" tall, the Saturn 5 is a real beauty both on display and in flight. Powered by a cluster of 3 engines, it climbs hundreds of feet up to "apogee", then separates into two parts and ejects 3 parachutes. The APOLLO space craft descends gently on its own 24" parachute while the main body returns safely with two big 24" chutes. Launch your SATURN 5 many times. Kit includes complete assembly and operating instructions plus tech report on clustering techniques. (Centuri 1969 Catalog)

Editor's Note:

Catalog Liveries

1969

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Saturn V Launch Vehicle Family

Scorpion (KF-6 or #5176)

MODEL NAME: **Scorpion** *Also known as*: Scorpion Space Probe

NUMBER: KF-6 or #5176

Introduced: 1965
Final Year: 1970
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 28"
Diameter: 1.25"
Span:
Weight: 3.8 oz

Mfg. Description: Terrific kit for entry into Large Scale model rocketry. Easy-to-build, the Scorpion offers many hours of building and launching enjoyment for the advanced model rocketeer. Designed for use with Centuri's Atlas engines, the Scorpion rockets out of sight and returns safely by parachute --- ready to be flown again. (Centuri 1965 Catalog)

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Terrific kit for entry into Large Scale model rocketry. Easy-to-build, the Scorpion offers many hours of building and launching enjoyment for the advanced model rocketeer. Designed for use with Centuri's Mini Max "E" type engines, the Scorpion rockets out of sight and returns safely by parachute --- ready to be flown again. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

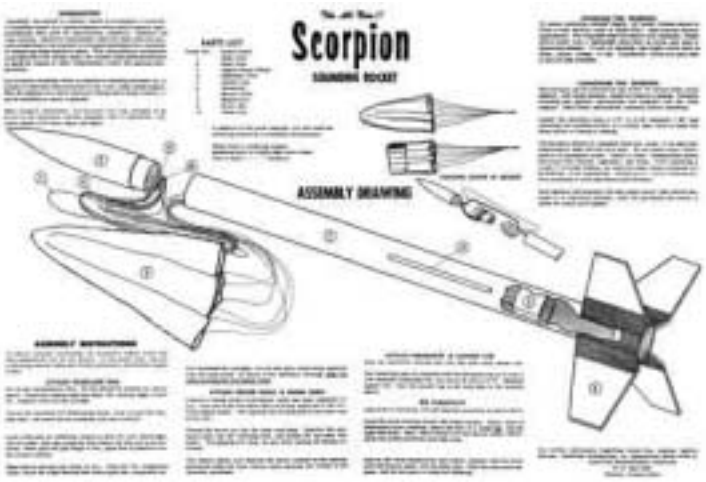
1965

1967

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Centuri Scorpion Family

Scram Jet (KF-4 or #5174)

MODEL NAME: **Scram Jet** *Also known as*:

NUMBER: KF-4 or #5174

Introduced: 1973
Final Year: 1981
Designer:

Type: pseudo-scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18.5"
Diameter:
Span:
Weight: 1.4 oz

Mfg. Description: Unique off-center fins highlight this "pseudo-scale" kit. Includes parachute, molded nose cone, 2-color decals, engine lock and pre-cut balsa fins. (Centuri 1973 Catalog)

Editor's Note:

Catalog Liveries

1973

1980

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Centuri Screaming Eagle (KF-3 or #5173)

MODEL NAME: **Screaming Eagle** *Also known as*:

NUMBER: KF-3 or #5173

Introduced: 1973
Final Year: 1983
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.4"
Diameter: 0.91"
Span:
Weight: 1.6 oz

Out Of Production

Mfg. Description: Ideal for group projects! Shiny chrome "decals"! "Out-a-sight" with a "C"! Chute & engine lock! 5 built-in colors! (Centuri 1973 Catalog)

Editor's Note:

Catalog Liveries

1973

1975

1979

1980

1982

Face Card(s)

Instruction Header

Also of interest:

Sky Devil (KB-10 or #5040)

MODEL NAME: **Sky Devil** *Also known as*:

NUMBER: KB-10 or #5040

Introduced: 1973
Final Year: 1983
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer or Parachute
Stages: 1
Length: 12" to 14"
Diameter: 0.78"
Span:
Weight: 0.8 oz

Mfg. Description: A basic rocket with a twist...the balsa fin shapes can be cut from any one of eight different patterns! Includes Spec-Plate, molded cone and parachute. (Centuri 1973 Catalog)

Editor's Note:

Catalog Liveries

1973

1979

1980

1982

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Centuri Snipe Hunter (KB-13 or #5043)

MODEL NAME: **Snipe Hunter** *Also known as*:

NUMBER: KB-13 or #5043

Introduced: 1967
Final Year: 1981
Designer:

Type: Payload
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 12.5"
Diameter: 0.907"
Span:
Weight: 0.85 oz

Mfg. Description: A fantastic performer!! Chosen for its new, high performance design characteristics, the SNIPE HUNTER was flown in the first International Model Rocket Championship Meet held at Dubnika, Czechoslovakia. Comes with clear plastic see-thru payload capsule. Terrific for demonstration or display. Study the effects of acceleration on insect life with assured parachute recovery. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1967

1969

1971

1972

1975

1979

1980

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Snipe Hunter Family

Space Shuttle (KC-6 or #5066)

MODEL NAME: **Space Shuttle** *Also known as*:

NUMBER: KC-6 or #5066

Introduced: 1971
Final Year: 1981
Designer: Larry Brown

Type: Sport
Motor Mount:
Recovery:Streamer/glide/glide
Stages: 1
Length: 15"
Diameter: 1.64"
Span: 10"
Weight:

Mfg. Description: The Centuri Space Shuttle is based upon the current proposals now under study by NASA. Flight performance is astounding. The SPACE SHUTTLE streaks skyward to apogee and separates into three parts. Both the carrier ship and the shuttle craft glide slowly back to earth. The "power pod" containing the expended engine returns via streamer. THe kit is complete with colorful decals. (Centuri 1971 Catalog)

Catalog Liveries

1971

1972

1976

Web Liveries

Face Card(s)

Also of interest: Centuri Space Shuttle Family

SST Shuttle 1 (KC-17 or #5077)

MODEL NAME: **SST Shuttle 1** *Also known as*: SST Shuttle

NUMBER: KC-17 or #5077

Introduced: 1971
Final Year: 1982
Designer:

Out Of Production

Type: Exotic, Boost Glider
Motor Mount: 1x18mm
Recovery: Glide/Parachute
Stages: 1
Length: 22.5"
Diameter: 1.04"
Span:
Weight: 2.6 oz

Mfg. Description: Long, sleek and impressive, the Centuri SST SHUTTLE blasts skyward in spectacular flight. At peak altitude the rocket plane separates for a long sweeping glide back to earth. The SST deploys a large parachute and begins descending, not hanging by the nose, but horizontally - in flying position! This kit is a must! Complete with detailing parts, SST "Concepts Report" and large full-color decals. (Centuri 1971 Catalog)

Editor's Note:

Catalog Liveries

1971

1972

1975

1979

1980

1982

Face Card(s)

Instruction Header

Also of interest: Centuri SST Shuttle 1 Family

Centuri Star Trooper (KM-3 or #5103)

MODEL NAME: **Star Trooper** *Also known as*:

NUMBER: KM-3 or #5103

Introduced: 1973
Final Year: 1979
Designer:

Type: Sport
Motor Mount:
Recovery: Streamer
Stages: 1
Length:
Diameter: 0.54"
Span:
Weight:

Mfg. Description: The highest flying single engine mini kit! Hollow molded cone for REAR EJECTION streamer. Includes balsa fins and decals plus parts for alternate longer version. (Centuri 1973 Catalog)

Editor's Note:

Catalog Liveries

1973

1979

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Star Trooper Family

Starfire (KC-12 or #5072)

MODEL NAME: **Starfire** *Also known as*:

NUMBER: KC-12 or #5072

Type: Sport/Competition
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15.8"
Diameter: 0.907"
Span:
Weight: 0.90 oz

Mfg. Description: A real high performance flyer! The STARFIRE is an excellent model for both beginning and advanced rocketeer. It lifts off the launch pad and streaks hundreds of feet skyward. At the peak altitude, a colorful parachute blossoms out and the STARFIRE returns safely for many, many more flights. NOTE!! Both a standard 12" and a large 20" chute are included with this kit - - easily interchanged. Comes complete in kit form, less engines. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1967

1968

1969

1970 Christmas

1971

1972

1979

1980

1981

1982

Web Liveries

Face Card(s)

Also of interest: Centuri Starfire Family, Parachute Duration Family

Swift (KBG-3)

MODEL NAME: **Swift** *Also known as*: Swift Boost Glider

NUMBER: KBG-3

Introduced: 1969
Final Year: 1974
Designer: Lee Piester

Out Of Production

Type: Boost Glider
Motor Mount: 1x18mm
Recovery: Tumble/Glide
Stages: 1
Length: 19"
Diameter:
Span: 16"
Weight: 1.4 oz

Mfg. Description: Whoosh!...This amazing bird streaks hundreds of feet straight up, turns over at peak altitude, and ejects the "Pop-Pod". Then it starts into a long soaring glide and circles slowly back to earth: coming in for a smooth safe landing. The "Pop-Pod" falls separately, slowed by a colorful streamer. Perfect model for glide duration contests and demonstrations. Recommended for the experienced modeller. Includes all parts plus detailed assembly instructions. (Centuri 1969 Catalog)

Editor's Note:

Catalog Liveries

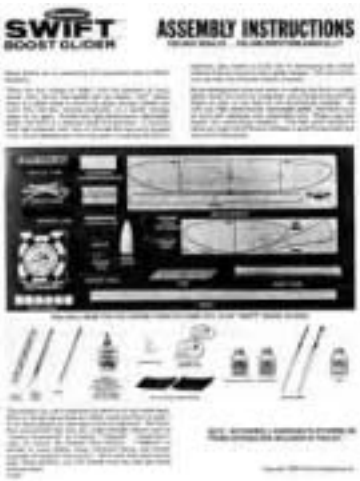
1969

1970 Christmas

1972

Face Card(s)

Instruction Header



Also of interest: Centuri Swift Family

T Bird (KC-9 or #5069)

MODEL NAME: **T Bird** *Also known as*:

NUMBER: KC-9 or #5069

Introduced: 1965
Final Year: 1975
Designer:

Type: Payload, 3 Stage
Motor Mount: 1x18mm/1x18mm/1x18mm
Recovery: Tumble/Tumble/Parachute
Stages: 3
Length: 21.5"
Diameter: 1"
Span:
Weight: 2.8 oz

Mfg. Description: This new super rocket, designed for the experienced model rocketeer, demonstrates the method for reaching extreme altitudes through staging of engines. The advanced, dual lock, stage coupling technique results in reliable ignition and separation of the upper stages.

As each stage engine is expended and falls away, the next stage ignites and takes over. The final stage caries your payload to well over 2400 feet, then returns safely by parachute. (Centuri 1965 Catalog)

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This new super rocket, designed for the experienced model rocketeer, demonstrates the method for reaching extreme altitudes through staging of engines. The advanced, dual lock, stage coupling technique results in reliable ignition and separation of the upper stages.

As each stage engine is expended and falls away, the next stage ignites and takes over. The final stage caries your payload to well over 2400 feet, then returns safely by colorful parachute to be used again and again. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1965

1967

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Taurus Fleet Ship (KB-3 or #5033)

MODEL NAME: **Taurus Fleet Ship** *Also known as*: Taurus

NUMBER: KB-3 or #5033

Introduced: 1972
Final Year: 1981
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.3"
Diameter: 1.34"
Span:
Weight: 2.6 oz

Mfg. Description: You can fly this interstellar craft from the planet of Taurus at your next launch! This massive model of the proud Taurian ship is surprisingly easy to build. Kit comes with precision formed nose cones and two reducers, chrome trim, die-cut fins, quick change engine lock and exotic Taurian decals. For a real challenge, paint your two foot model in the Taurian Admiralty color! If you are unfamiliar with the extra terrestrial civilization of the Taurians, you'll learn about them in the kit's illustrated Science Fiction storysheet. (Centuri 1972 Catalog)

Editor's Note:

Catalog Liveries

1972

1975

1979

1980

1981

Face Card(s)

Instruction Header

Also of interest: Centuri Taurus Fleet Ship Family

Thunder Hawk (#5338)

MODEL NAME: **Thunder Hawk** *Also known as*: ThunderHawk, Thunderhawk

NUMBER: #5338

Introduced: 1980
Final Year: 1983
Designer: Bill Stine

Type: Sport
Motor Mount:
Recovery: Streamer
Stages: 1
Length: 21.5"
Diameter: 0.716"
Span:
Weight: 1 oz

Mfg. Description: A great performer, this sleek long Thunder Hawk is easy to build and impressive in the air with flights to 1,000 feet. Streamer recovery slows the model's descent to a gentle landing. The Thunder Hawk is ideal for beginners and a super quick kit for more advanced rocketeers. (Centuri 1980 Catalog)

Editor's Note:

Catalog Liveries

1980

1982

1983

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Thunder Rock Family

Thunder Roc (#5340)

MODEL NAME: **Thunder Roc** *Also known as*: ThunderRoc, Thunderroc

NUMBER: #5340

Introduced: 1980
Final Year: 1983
Designer: Bill Stine

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 61.5"
Diameter: 1.64"
Span:
Weight: 6.6 oz

Mfg. Description: Biggest kit in the Centuri line, Thunder Roc lumbers off the pad under Super-C power, Or, remove the convertible engine mount and fly it with a D engine. Two 16" parachutes bring the big bird back for another exciting flight. (Centuri 1980 Catalog)

Editor's Note:

Catalog Liveries

1980

1982

1983

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Thunder Roc Family

U.S.S. America (#5310)

MODEL NAME: **U.S.S. America** *Also known as*:

NUMBER: #5310

Introduced: 1976
Final Year: 1982
Designer:

Type: Exotic
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 25"
Diameter: 1.6"
Span: 12"
Weight: 5.5 oz

Mfg. Description: In the year 1983 the president approved the building of the U.S.S. America command post. The keel was laid at the San Diego Space Shipyards and the great bird first took to the skies in 1986. America now serves as a Presidential aerial Command Post Center and diplomatic courier. Able to land at large conventional airports, the America helps maintain peace on earth as well as in space. The ship's Orville/Stine nuclear rocket engines place the craft in earth orbit and augment the six ramjets used for atmospheric travel. These combined systems economically transport high government officials to global trouble spots. (Centuri 1976 Catalog 1)

Editor's Note:

Catalog Liveries

1976-1

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Super Kit Marketing Family

V2 (KS-9 or #5149)

MODEL NAME: **V2** *Also known as*:

NUMBER: KS-9 or #5149

Introduced: 1969
Final Year: 1971
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.2"
Diameter: 1.64"
Span:
Weight: 2.1 oz

Mfg. Description: At last, an accurately scaled and detailed, high performance flying model of the famous V-2. A real collector's item for both beginner and experienced modeler. Thrilling high altitude flights with realistic lift-off. The V-2 returns by colorful 16" parachute. Kit includes all parts plus easy-to-follow assembly and painting plans. Engines not included. (Centuri 1969 Catalog)

Catalog Liveries

1969

1970 Christmas

1971

Face Card(s)

Also of interest: V2 Ordnance Family, V2 Launch Vehicle Family

Vector V (KB-2 or #5032)

MODEL NAME: Vector V *Also known as*: Vector-V

NUMBER: KB-2 or #5032

Introduced: 1972
Final Year: 1981
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.5"
Diameter: 1.34"
Span:
Weight: 0.9 oz

Mfg. Description: Over 12 ways to go! Here's one you customize to one of over a dozen configuration. And it goes together fast too, with pre-cut fibre fins, plastic nose cone, a large decal sheet of exotic markings & super detailing and finishing ideas. Recover by parachute for a fast turnaround with Centuri's Quick Change Engine Lock. Get started in the Design-Your-Own game today with Vector-V. (Centuri 1975 Catalog)

Editor's Note:

Catalog Liveries

1972

1975

1979

1980

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Vector V Family

X-21 (BG-21)

MODEL NAME: **X-21** *Also known as*:

NUMBER: BG-21

Introduced: 1964
Final Year: 1968
Designer: Lee Piester

Type: Rocket Glider, Payload
Motor Mount: 1x18mm
Recovery: Glide
Stages: 1
Length: 18"
Diameter:
Span:
Weight:

Mfg. Description: Rocket powered flight straight up - hundreds of feet - then glide return for a safe landing. Successor to Centuri's famous Aero-Bat, the X-21 is easy to build and can be launched many times. It can be controlled to maneuver left and right turns for ease of recovery. Its plastic payload compartment can be used to carry live biological specimens or light scientific instruments. Simply insert a new rocket engine, connect the automatic elevon release mechanism, and the X-21 is ready for another flight. The completed model measures 18" from cone to stabilizer tip. (Centuri 1964 Catalog)

=====

Rocket powered flight straight up - hundreds of feet - then glide return for a safe landing. Controlable to maneuver left and right turns. Plastic payload capsule carries insect payloads to high altitudes. The X-21 kit comes to you with pre-marked balsa parts and wing mounting jig. Complete instructions and trimming decals also included. (Centuri 1967 Catalog)

Editor's Note:

Catalog Liveries

1964

1965

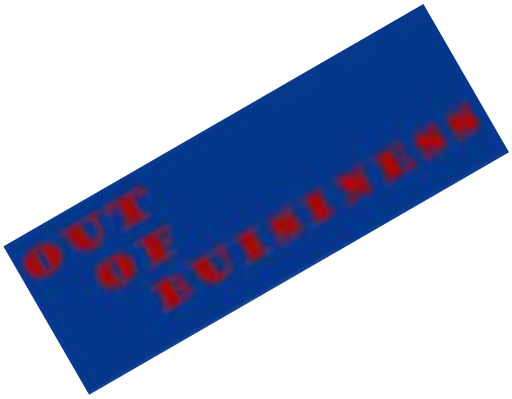
1967

Face Card(s)

Instruction Header

Also of interest: Centuri X-21 Family

Centuri American Rocketeer



Finless

Finless (V4 N1)

MODEL NAME: **Finless** *Also known as*: Finless Rocket

NUMBER: V4 N1

Introduced:
Final Year:
Designer:

Type: Sport, Cone Stabilized
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: An unusual design that is sure to draw interest on the launch pad. The finless rocket demonstrates that stability can be obtained thru use of shapes other than usual fin design. The tail fairings on Centuri's Saturn V work exactly the same way, helping to give stability without the need for greatly oversized fins. (American Rocketeer Vol. 4 No. 1)

Editorial Note:

Catalog Liveries

Plan

Web Liveries

Face Card(s)

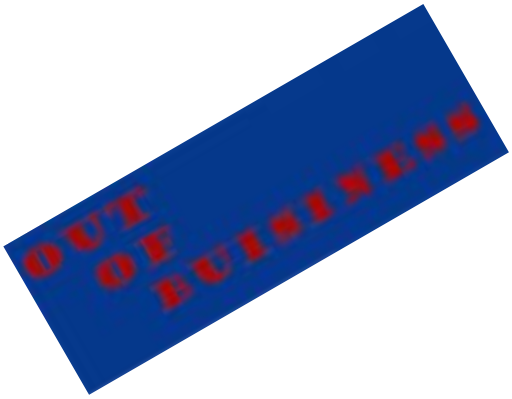
Instruction Header

Also of interest:

The Coaster Company

The Coaster Company
358 Majestic Bldg.
Fort Worth, Texas

Tel: ED6-3416



Master List for **Coaster** by Name

Centauri Dynasoar
Mercury
Saturn
Space Probe I
Super-Son

THE COASTER COMPANY Centauri Dynasoar

MODEL NAME: **Centauri Dynasoar** *Also known as*: Centauri

NUMBER:

Introduced: 1959
Final Year:
Designer:

Type: Boost Glider
Motor Mount:
Recovery: Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

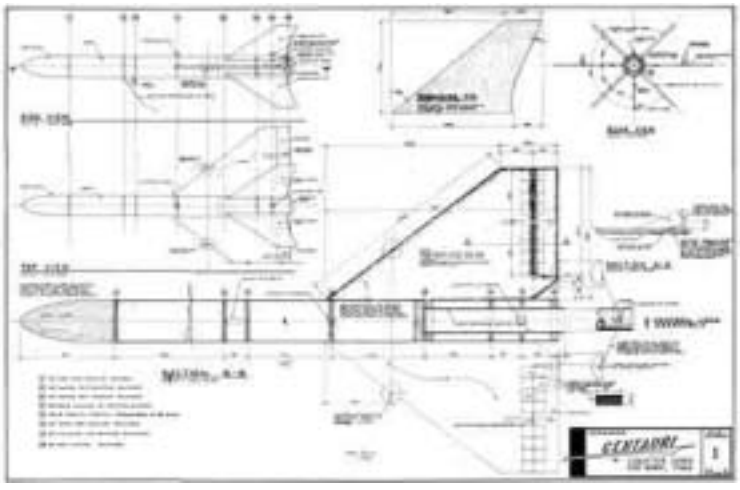
Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Mercury

THE COASTER COMPANY

MODEL NAME: **Mercury** *Also known as*:

NUMBER:

Introduced: 1962
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description: PARACHUTE EJECTION FAILURE ELIMINATED

The MERCURY is our most beautiful and stable craft. It now comes to you completely new. The trigger tube has been eliminated and the parachute chamber has been relocated. No fuse or bursting charge is needed.

This beautiful craft comes to you ready to paint and equipped with six 30 lb. motors, launcher, parachute and squibs.

30" parachute included unless otherwise specified.

The Mercury can also be ordered with 3-30 lb. for only $15.95 (Coaster 1962 Catalog)

Editorial Note:

Catalog Liveries

1962

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

370

THE COASTER COMPANY

Saturn

MODEL NAME: **Saturn** *Also known as*:

NUMBER:

Introduced: 1962
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 24"
Diameter:
Span:
Weight:

Mfg. Description: Beautiful 24" craft with its special high efficiency fin design, comes to you with 3-20 lb. thrust motors, rigged with professional silk parachute recovery. No parts to cut, craft is ready for your own color scheme. Can be flown again and again. (Coaster 1962 Catalog)

Editorial Note:

Catalog Liveries

1962

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Space Probe I

THE COASTER COMPANY

MODEL NAME: **Space Probe I** *Also known as*:

NUMBER:

Introduced: 1962
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 32"
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description: 32" tall, like the SATURN and MERCURY, this craft has a professional silk parachute installed. There are no parts to cut, this craft is ready for color or colors to your own liking.

SPACE PROBE I comes with 3-30 lb. thrust motors for $12.95. These crafts fade into the blue approaching the speed of sound or better. (Coaster 1962 Catalog)

Editorial Note:

Catalog Liveries

1962

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

THE COASTER COMPANY

Super-Son

MODEL NAME: **Super-Son** *Also known as*: Super Son, Superson

NUMBER:

Introduced: 1955
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 22"
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description: This is a scientific construction model with solid fuel propellant. At the very apex of the flight of the rocket, a parachute ejects, opens and the rocket components come back to earth for refueling and refiring. Sonic speeds are possible with this rocket. It will thrill the most inveterate modelcraft enthusiast with the sight of the rocket zooming skyward at sonic speeds and at the very top of flight, seeing a parachute eject and open. The rocket may be re-charged and fired many times. (Coaster Original Brochure c.1955)

Editorial Note:

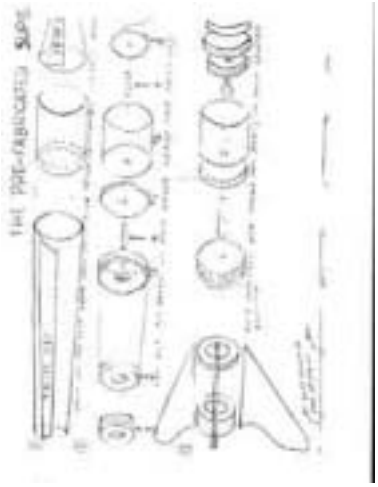
Catalog Liveries

c. 1955

Web Liveries

Face Card(s)

Instruction Header

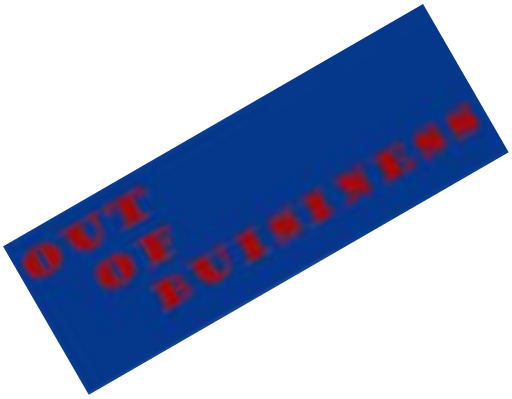


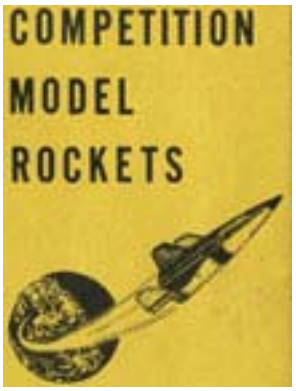
Other Printed Matter

Alternate image from original brochure, c. 1955

Also of interest:

Competition Model Rockets (CMR)





Master List for **CMR** by Name

Break Away	C1
Buzzard	BG4
Chameleon	C12
D-Region Tomahawk	S1
Effy	C4
ELO	C3
Hyper	C2
Manta	BG1
Marcus	C6
Orbitron	BG3
Paratrooper	C8
Pen	C10
Rapier	C5
Robin	C9
Start	C7
Sting Ray	BG2
V.I.P.	C11

Master List for **CMR** by *Number*

BG1	Manta
BG2	Sting Ray
BG3	Orbitron
BG4	Buzzard
C1	Break Away
C2	Hyper
C3	ELO
C4	Effy
C5	Rapier
C6	Marcus
C7	Start
C8	Paratrooper
C9	Robin
C10	Pen
C11	V.I.P.
C12	Chameleon
S1	D-Region Tomahawk

Break Away (C1)

MODEL NAME: **Break Away** *Also known as*: Break-Away

NUMBER: C1

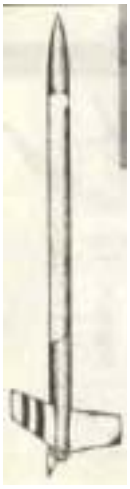
Introduced: 1969
Final Year: 1987
Designer:

Type: Parachute Duration
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15"
Diameter: 0.766"
Span:
Weight: 20g

Mfg. Description: An unusual designed parachute duration rocket that comes apart to eject large size parachute from small diameter body tube. Pre-cut 1/64" plywood fins, large 28" dia. lightweight chute, plastic nose cone, all parts necessary for construction. (CMR 1972 Catalog)

Editorial Note:

Catalog Liveries

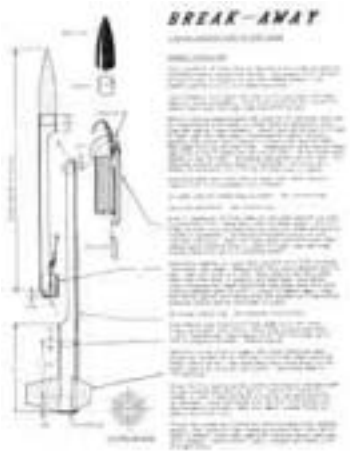


1972

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Parachute Duration Family

Buzzard (BG4)

MODEL NAME: **Buzzard** *Also known as*:

NUMBER: BG4

Introduced: 1972
Final Year: 1987
Designer:

Type: Rocket Glider
Motor Mount: 1x13mm
Recovery: Glide
Stages: 1
Length: 12"
Diameter:
Span: 13"
Weight: 15g

Out Of Production

Mfg. Description: Especially designed for the NAR rocket glider event. An unusual new sliding wing concept that converts to a boost glider. Comes complete with pre-cut parts, molded plastic wing slides, plastic nose cone and instructions. Designed for Mini Jets. Recommended for the experienced modeler. Placed 2nd at NARAM 13 in "D" division. (CMR 1972 Catalog)

=====

Especially designed for the NAR rocket glider event. An unusual new sliding wing concept originally designed for record attempts that converts to a glider at ejection without separating any parts. Can be flown as a boost glider by ejecting the engine. Comes complete with pre-cut balsa parts, plastic nose cone and instructions.

Recommended for the experienced modeler. (CMR 1987 Catalog)

Editorial Note:

Catalog Liveries

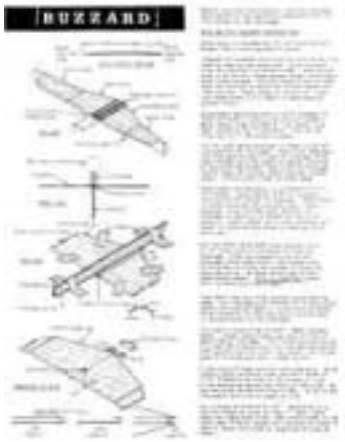
1972

1987

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Chameleon (C12)

MODEL NAME: **Chameleon** *Also known as*:

NUMBER: C12

Introduced: 1972
Final Year: 1987
Designer:

Out Of Production

Type: Payload
Motor Mount: 1x21mm
Recovery: Parachute
Stages: 1
Length: 21"
Diameter: 1.17"
Span:
Weight:

Mfg. Description: Designed especially as an electronic payload carrier rocket with an aluminized mylar covered payload to reduce interference. Basically "F" engine powered but kit includes conversion materials for "E" and "D" power. Changes to an "F" powered egg lofter by using the Egg Capsule ENC120 designed for this rocket. Kit features pre-cut plywood fins, payload section, parabolic plastic nose cone and aluminized adhesive mylar. (CMR Catalog 1972)

Editorial Note:

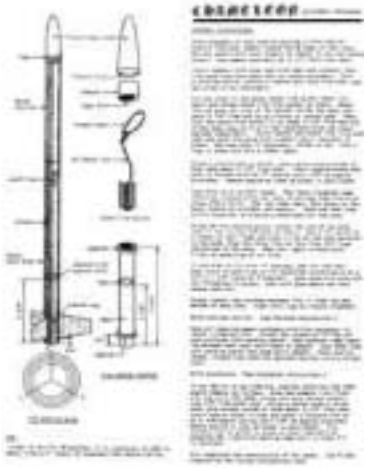
Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

D-Region Tomahawk (S1)

MODEL NAME: **D-Region Tomahawk** *Also known as*:

NUMBER: S1

Introduced: 1970
Final Year: 1987
Designer:

Type: Scale
Motor Mount: 1x21mm, Later 1x18mm
Recovery: Parachute
Stages: 1
Length: 20"
Diameter: 0.93"
Span:
Weight: 39g

Mfg. Description: This is an exact scale model of the single stage sounding rocket, NASA Flight No. 12.08GT, built by the Astro-Met Division of the Thiokol Chemical Corporation. This rocket was designed and flown to determine vehicle performance and establish payload environment during flight before acceptance in the NASA rocket stable. The performance was as predicted and the basic rocket was accepted by NASA. Model is precisely scaled from full size manufacturer's drawings. Color was determined from many NASA color photographs. Ideal for NAR Scale and Scale Altitude events. Original model won first in Scale and first in Scale Altitude at NARAM 11. Kit contains detailed instructions, precision scale plastic nose cone, special built up fins, true to prototype shroud, "pop" launch lug, screw head embossing tool. Recommended for experienced modelers. (CMR 1972 Catalog)

=====

This is an exact scale model of the single stage sounding rocket, NASA Flight No. 12.08GT, built by the Astro-Met Division of the Thiokol Chemical Corporation. This rocket was designed and flown to determine vehicle performance and establish payload environment during flight before acceptance in the NASA rocket stable.

The model is precisely scaled from full size manufacturer's drawings. Ideal for NAR Scale and Scale Altitude events. Original model won first in Scale and first in Scale Altitude at NARAM 11. Kit contains very detailed instructions, precision scale plastic nose cone, built up fins, true to prototype shroud, pop launch lug, screw head embossing tool. Has won numerous places in national and international competition.

Recommended for experienced modelers. (CMR 1987 Catalog)

Editorial Note:

Catalog Liveries

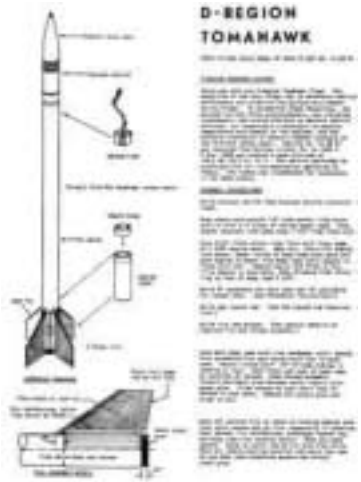
1972

1987

Web Liveries

Face Card(s)

Instruction Header



D-REGION
TOMAHAWK

Also of interest: D-Region Tomahawk Sounding Rocket Family

Effy (C4)

MODEL NAME: **Effy** *Also known as*:

NUMBER: C4

Introduced: 1970
Final Year: 1987
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15"
Diameter: 0.736"
Span:
Weight: 18g

Mfg. Description: High efficiency single stage starter kit with all the features of the regular kits except the "pop" launch lug.Kit contains plastic nose cone, pre-cut fins, parachute and instructions.
The "EFFY" has accumulated an impressive list of victories in altitude and design efficiency events. (CMR 1972 Catalog)

Editorial Note:

Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

ELO (C3)

MODEL NAME: **ELO** *Also known as*:

NUMBER: C3

Introduced: 1970
Final Year: 1987
Designer:

Out Of Production

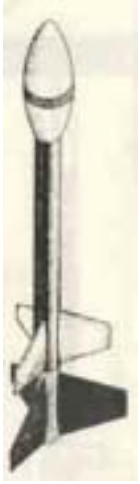
Type: Egglofter, 2 Stage
Motor Mount: 1x18mm or 1x21mm/1x18mm or 1x21mm
Recovery: Tumble/Parachute
Stages: 1
Length: 17"
Diameter: 0.920"
Span:
Weight: 43g

Mfg. Description: The bird that changed egg lofting history and still going strong. Improved two-stage rocket designed especially for all NAR egg loft competition events. Special egg capsule is foam rubber lined for use of delicate payloads. Can be flown single stage.

A constant winner complete with pre-cut 1/32" plywood fins, special standoff "pop" lug for 3/16" rod, and materials required for 18mm or 21mm engine use. (CMR 1972 Catalog)

Editorial Note:

Catalog Liveries



1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Egg Lofter Family

Hyper (C2)

MODEL NAME: **Hyper** *Also known as*:

NUMBER: C2

Introduced: 1969
Final Year: 1987
Designer:

Type: 2 Stage, Payload
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 18"
Diameter: 0.766"
Span:
Weight: 25g

Mfg. Description: This is a two-stage high performance rocket designed for payload and altitude events. The upper stage can be flown separately as a Quadrathon bird. Almost any combination of booster and upper stage engines can be used depending upon total impulse restrictions of the event flown. Pre-cut plywood fins, "pop" launch lug, plastic nose cone and parachute. Payload section designed for a standard NAR payload.

Add an Egg Capsule Catalog No. ENC77 for $2.50 and convert the Hyper into a highly efficient egg lofter. (CMR 1972 Catalog)

Editorial Note:

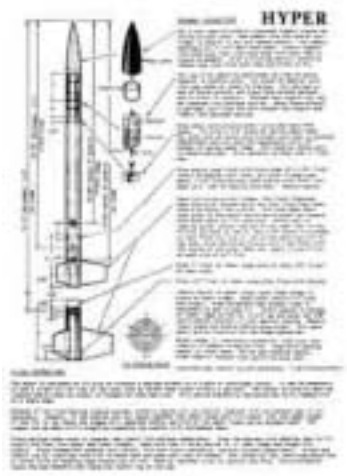
Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Manta (BG1)

MODEL NAME: **Manta** *Also known as*:

NUMBER: BG1

Introduced: 1969
Final Year: 1987
Designer:

Type: Boost Glider
Motor Mount: 1x18mm or 1x21mm
Recovery: Glide
Stages: 1
Length: 12"
Diameter:
Span: 8.5"
Weight: 12g

Out Of Production

Mfg. Description: This unique rocket boost glider is easy to build and adjust. Very stable during both power and glide phase. Can be flown in all classes of NAR boost glider events. Features precut parts, "pop" power pod, light weight, high strength.

This glider has compiled a long list of victories in both National and Regional Meets. (CMR 1972 Catalog)

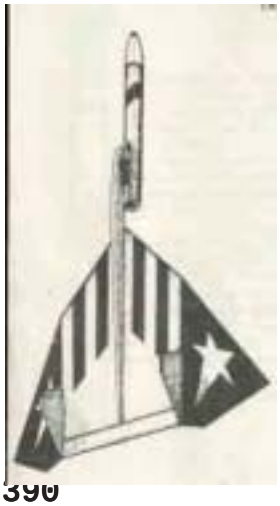
=====

This unique rocket boost glider is easy to build and fly. Very stable during boost and performs well during glide. Can be flown in all classes of NAR boost glider events. Features precut balsa parts, pop power pod, light weight, high strength, easy construction.

This glider has compiled a long list of impressive victories over the years. (CMR 1987 Catalog)

Editorial Note: The designation BG1a refers to the 21mm power pod.

Catalog Liveries



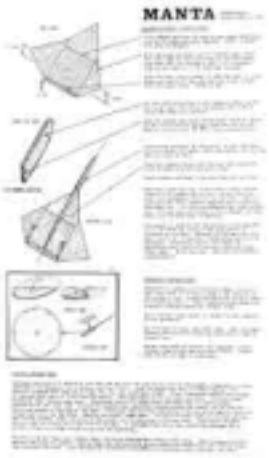
1972

1987

Web Liveries

Face Card(s)

Instruction Header



Also of interest: CMR Manta Family

Marcus (C6)

MODEL NAME: **Marcus** *Also known as*:

NUMBER: C6

Introduced: 1970
Final Year: 1987
Designer:

Type: Strap On Booster
Motor Mount: 1x18mm
Recovery: Streamer
Stages:
Length: 7.5"
Diameter: 0.736"
Span:
Weight:

Out Of Production

Mfg. Description: This unique kit is a strap-on booster designed to supplement the main engine to provide additional weight lifting capability for lofting heavy payloads. Makes any rocket a cluster payloader. After liftoff, boosters drop off and are recovered by streamer. Two or four boosters can be used for 4 fin rockets while 3 boosters are needed for 3 fin rockets. Recommended for the experienced modeler. (CMR 1972 Catalog)

Editorial Note:

Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Orbitron (BG3)

MODEL NAME: **Orbitron** *Also known as*: Micro-Manta

NUMBER: BG3

Introduced: 1972
Final Year: 1987
Designer:

Type: Boost Glider
Motor Mount: 1x13mm
Recovery: Glide
Stages: 1
Length: 13.5"
Diameter: 0.558"
Span: 5.5"
Weight:

Mfg. Description: A new parasite Micro-Manta boost glider. The glider attaches to the side of a special carrier rocket which detaches upon ejection and returns by streamer. A real performer. Has been officially timed at 306 sec. using a 1/2A3-3m. (CMR 1972 Catalog)

=====

A parasite Micro-Manta boost glider. This glider attaches to the side of a special carrier rocket which detaches upon ejection and returns by streamer, a real performer that flies high with small engines. Has been officially timed at 306 sec. using a 1/2A3-3m. (CMR 1987 Catalog)

Editorial Note:

Catalog Liveries

1972

1987

Web Liveries

Face Card(s)

Instruction Header

Also of interest: CMR Manta Family

Paratrooper (C8)

MODEL NAME: **Paratrooper** *Also known as*:

NUMBER: C8

Introduced: 1971
Final Year: 1987
Designer:

Type: Parachute Duration
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 12.5"
Diameter: 0.736"
Span:
Weight:

Mfg. Description: This Mini Jet rocket was designed for the parachute duration event. The larger body will hold a good sized parachute while the plastic boat tail decreases drag and increases performance. Kit features plastic nose cone, plastic boat tail, 1/4 mil. aluminized mylar duration parachute, and sheet plastic fins. (CMR 1972 Catalog)

Editorial Note:

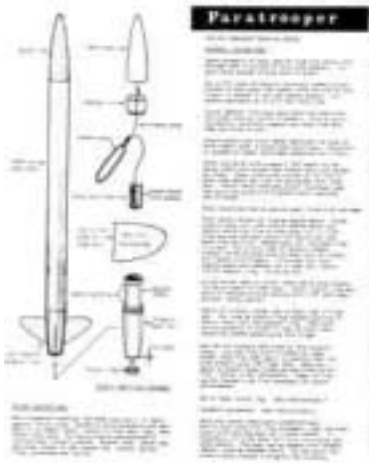
Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Parachute Duration Family

Pen (C10)

MODEL NAME: **Pen** *Also known as*:

NUMBER: C10

Introduced: 1972
Final Year: 1987
Designer:

Type: Altitude Competition
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 13.5"
Diameter: 0.558"
Span:
Weight: 5g

Mfg. Description: A high altitude Mini Jet rocket that is easy to build kit with contest performance. Its long length is designed for better tracking and extra stability for the NAR altitude events. Pre-cut plywood fins and plastic parabolic nose cone adds to the performance. (CMR 1972 Catalog)

Editorial Note:

Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Rapier (C5)

MODEL NAME: **Rapier** *Also known as*:

NUMBER: C5

Introduced: 1970
Final Year: 1987
Designer:

Type: Sport
Motor Mount: 1x18mm or 1x21mm
Recovery: Parachute
Stages: 1
Length: 15"
Diameter: 0.890"
Span:
Weight: 29g

Out Of Production

Mfg. Description: A great sport flyer that was designed as an easy to build parachute duration bird. Utilizes either 18mm dia. or 21mm dia. engines. So versatile that it can be used with the egg capsule and Marcus strap-on boosters to lift payloads to high altitudes. Comes with adapter to fit either size engine, plastic nose cone, "pop" launch lug, 12" diameter parachute for sport flying. Will take up to a 36" dia. parachute.

Add an Egg Capsule Cat. No. ENC 92 for $2.50 and convert it into a highly efficient egg lofter. (CMR 1972 Catalog)

Editorial Note:

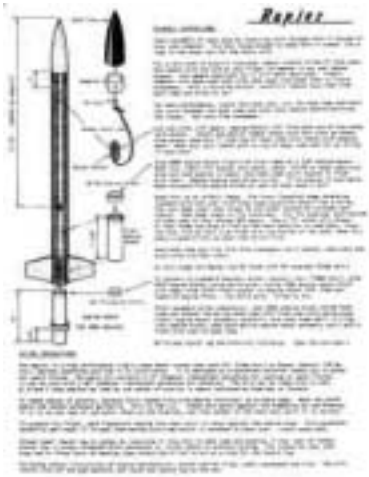
Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Robin (C9)

MODEL NAME: **Robin** *Also known as*:

NUMBER: C9

Introduced: 1972
Final Year: 1987
Designer:

Out Of Production

Type: Egg Lofter
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14"
Diameter: 0.766"
Span:
Weight:

Mfg. Description: A new egg lofter for 18mm engines only. Single stage for the NAR Robin and Pigeon egg lofting event. Designed for easy conversion to a two-stage rocket using CMR parts. Design your own second stage and increase the versatility of this model. "Pop" launch lug, pre-cut plywood fins, the famous CMR egg capsule, are among the many features of this kit. (CMR 1972 Catalog)

Editorial Note:

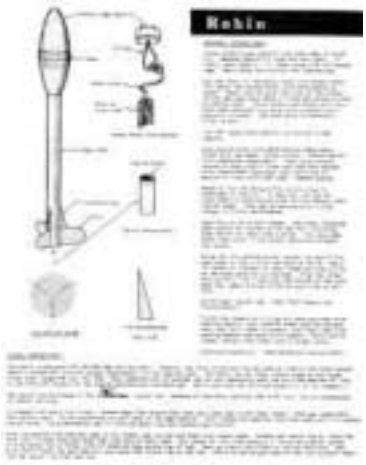
Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Egg Lofter Family

Start (C7)

MODEL NAME: **Start** *Also known as*:

NUMBER: C7

Introduced: 1971
Final Year: 1987
Designer:

Type: Streamer Duration
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 10.5"
Diameter: 0.736"
Span:
Weight: 12g

Mfg. Description: The ideal beginner's contest kit. Parabolic plastic nose cone, pre-cut balsa fins, clear instructions, ease of construction, low cost, make this kit the best bet for that first try at model rocketry. Streamer recovery and a new type shock cord attachment simplify building. A good model for streamer duration and altitude events. Added to its simplicity is the same high performance contest standards inherent in all CMR kits. (CMR 1972 Catalog)

Editorial Note:

Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Streamer Duration Family

Sting Ray (BG2)

MODEL NAME: **Sting Ray** *Also known as*:

NUMBER: BG2

Introduced: 1972
Final Year: 1987
Designer:

Out Of Production

Type: Boost Glider
Motor Mount: 1x13mm
Recovery: Glide
Stages: 1
Length:
Diameter:
Span: 7.5"
Weight:

Mfg. Description: A high performance boost glider designed especially for MiniJets. Kit comes complete with precut parts, a special pop pod and moveable flaps. Patterned after the Manta, this version incorporates all of the latest developments. (CMR 1972 Catalog)

=====

A high performance boost glider designed for 13mm engines. Kit comes complete with precut balsa parts, a special pop pod and moveable flaps.

Patterned after the Manta, this version incorporates all of the latest improvements. (CMR 1987 Catalog)

Editorial Note:

Catalog Liveries

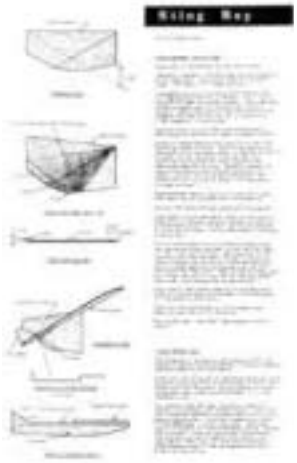
1972

1987

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

V.I.P. (C11)

MODEL NAME: **V.I.P.** *Also known as*: Very Impressive Performing

NUMBER: C11

Introduced: 1972
Final Year: 1987
Designer:

Type: Streamer Duration
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 9.5"
Diameter: 0.59"
Span:
Weight:

Mfg. Description: A very impressive performing Mini Jet bird designed for streamer duration. The kit features pre-cut eliptical plywood fins, parabolic plastic nose cone and a 10 foot aluminized mylar streamer. An excellent performing altitude rocket. (CMR 1972 Catalog)

Editorial Note:

Catalog Liveries

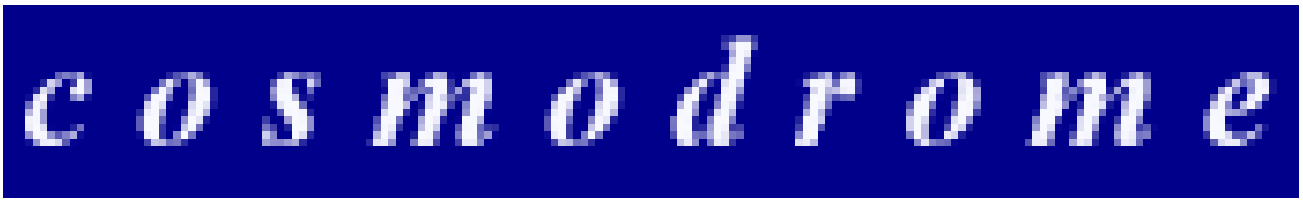
1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Streamer Duration Family



Cosmodrome Rocketry

Cosmodrome Rocketry

275 West St.

Randolph, MA

02368

(781)961-1051

http://www.cosmodromerocketry.com

About Cosmodrome

Cosmodrome was founded on April 20, 1995. We have built a loyal following by specializing in detailed sport-scale kits suitable for entering in NAR competitions. Our kits feature decals, finely turned balsa nose cones and transitions, plywood fins and centering rings, and nylon parachutes. These kits are recommended for the experienced modeler. They require epoxy and/or cyanoacrylates (super glue) for construction. Adhesives, paint and other finishing supplies must be purchased separately.

(Company Web Statement 2011)

Master List for **Cosmodrome** by Name

Aerobee Hi
Black Brant II
Black Brant VC
Nike Apache
Nike Smoke
Vostok

Aerobee Hi

cosmodrome

MODEL NAME: **Aerobee Hi** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Mike Kruger

Type: Scale, 2 Stage
Motor Mount: 1x29mm/1x29mm
Recovery: Parachute/Parachute
Stages: 2
Length: 61.3"
Diameter: 2.63"
Span:
Weight: 27 oz

Mfg. Description: Balsa nose cones (2)
Two color self-adhesive decals
24" and 18" rip-stop nylon parachutes
F through H power
Through-the-wall fins
Motor retension on both stages (Cosmodrome 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2002

2003

2008

2012

Face Card(s)

Instruction Header

Also of interest: Aerobee Sounding Rocket Family

Black Brant II

cosmodrome

MODEL NAME: **Black Brant II** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Mike Kruger

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 50.8"
Diameter: 2.63"
Span:
Weight: 19oz

Mfg. Description: Balsa nose cone and boat tail
Three color self-adhesive decals
24" rip-stop nylon parachutte
F through H power
Through-the-wall fins
Motor retension (Cosmodrome 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2009

2011

cosmodrome

Face Card(s)

Instruction Header

Also of interest: Black Brant II Sounding Rocket Family

Black Brant VC

cosmodrome

MODEL NAME: Black Brant VC *Also known as*:

NUMBER:

Introduced: 2012
Final Year:
Designer: Mike Kreuger

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 2.63"
Span:
Weight:

Mfg. Description: Plastic nose cone
Movable forward vanes
28" rip-stop nylon parachute
F through H power
Through-the-wall fins
Motor retension (Cosmodrome 2012 Web Ad)

Editorial Note: Though the BB VC did not become available until 2012, it appeared on the website earlier and the earlier photo is included here.

Catalog Liveries

Web Liveries

2011

2012

Face Card(s)

Instruction Header

Also of interest: Black Brant V Sounding Rocket Family

Nike Apache

cosmodrome

MODEL NAME: **Nike Apache** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Mike Kruger

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 52.5"
Diameter: 2.63",1.06"
Span:
Weight: 18 oz

Mfg. Description: Balsa nose cone and transition
Two color self-adhesive decals
28" rip-stop nylon parachutte
F and G power
Through-the-wall fins
Positive motor retension (Cosmodrome 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2009

2011

Face Card(s)

Instruction Header

Also of interest: Nike Apache Sounding Rocket Family

Nike Smoke

cosmodrome

MODEL NAME: **Nike Smoke** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Mike Kruger

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 36.5"
Diameter: 2.63"
Span:
Weight: 17oz

Mfg. Description: Balsa nose cone
Self-adhesive decals
24" rip-stop nylon parachute
E through H power
Through-the-wall fins
Motor retension (Cosmodrome 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2002

2003

2005

2009

2012

cosmodrome

Face Card(s)

Instruction Header

Also of interest: Nike Smoke Sounding Rocket Family

Vostok

cosmodrome

MODEL NAME: **Vostok** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Mike Kruger

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 45.0"
Diameter: 3.216"
Span:
Weight: 55 oz

Mfg. Description: Over 160 parts
Balsa nose cones (5)
Self-adhesive decals
35" and 24" rip-stop nylon parachuttes
H power
Motor retention
Open air interstage struts (Cosmodrome 2012 Web Ad)

Editorial Note:

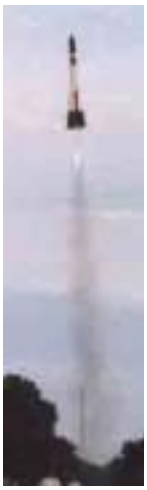
Catalog Liveries

Web Liveries

2003

2004

2006


2008

cosmodrome

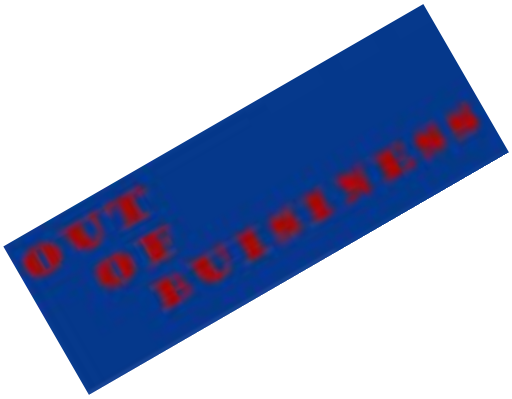
2012

Face Card(s)

Instruction Header

Also of interest: Vostok Launch Vehicle Family

Cox



Master List for **Cox** by Name

Apollo Little Joe II	#5100
Apollo Saturn V	#5075
Honest John	#5050
Nike Zeus	#5150
Saturn 1B	#5025
Saturn V	#5075
Space Shuttle America	#5200
Uprated Saturn 1B	#5025
X-15	#5000

Master List for **Cox** by *Number*

#5000	X-15
#5025	Saturn 1B
#5025	Uprated Saturn 1B
#5050	Honest John
#5075	Apollo Saturn V
#5075	Saturn V
#5100	Apollo Little Joe II
#5150	Nike Zeus
#5200	Space Shuttle America

Apollo Little Joe II (#5100)

MODEL NAME: **Apollo Little Joe II** *Also known as*:

NUMBER: #5100

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 8.5"
Diameter:
Span:
Weight:

Mfg. Description: A single stage 1/125 scale model of the launch vehicle used to thoroughly test the abort system for the Apollo Capsule. (Cox 1970 Catalog)

Editorial Note:

Catalog Liveries

1970

1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Little Joe II Launch Vehicle Family

Apollo Saturn V (#5075)

MODEL NAME: **Apollo Saturn V** *Also known as*: Saturn V

NUMBER: #5075

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 2x18mm
Recovery: Parachute
Stages: 1
Length: 33.5"
Diameter:
Span:
Weight:

Mfg. Description: A 1/125 scale model of the world's largest launch vehicle, as used for the moon orbiting and landing missions in the Apollo space program. Powered by a cluster of two single stage engines. (Cox 1970-71 Catalog)

Editorial Note:

Catalog Liveries

1970

1972

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Saturn V Launch Vehicle Family

Honest John (#5050)

MODEL NAME: **Honest John** *Also known as*:

NUMBER: #5050

Introduced:
Final Year:
Designer:

Type: Scale, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14"
Diameter:
Span:
Weight:

Mfg. Description: A single-stage 1/24 model of the U.S. Army's 1st line ballistic missile. Has a payload type nose cone. (Cox 1970 Catalog)

A single-stage 1/24 model of the U.S. Army's 1st line ballistic missile. Has a payload type nose cone. A great beginner's rocket. (Cox 1972 Catalog)

Editorial Note:

Catalog Liveries

1970

1972

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MGR-1 Honest John Ordnance Family

Nike Zeus (#5150)

MODEL NAME: **Nike Zeus** *Also known as*:

NUMBER: #5150

Introduced:
Final Year:
Designer:

Type: Scale, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 18"
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description: A 1/24 scale model of a U.S. antiaircraft missile. Equipped with a removable payload-type nose cone. Launched as either a single or a two stage rocket when using a booster engine. (Cox 1970 Catalog)

Editorial Note:

Catalog Liveries

1970

1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest: XLIM-49 Nike Zeus Ordnance Family

Space Shuttle America (#5200)

MODEL NAME: **Space Shuttle America** *Also known as*:

NUMBER: #5200

Introduced:
Final Year:
Designer:

Type: Boost Glider
Motor Mount: 1x18mm
Recovery: Glide + Glide + Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Space Shuttle America has outer orbit style excitement. NASA has developed the concept of a hypersonic transport carrying shuttlecraft to the edge of space where the shuttle leaves the mother ship and heads for an orbiting space station with a cargo of men and materials. The shuttlecraft then can return to earth to make a conventional landing at an airstrip. Cox's Space Shuttle America blasts-off, climbs to altitude, then separates, with the mother ship returning to earth on a parachute and the two shuttlecraft gliding in a circular path to a perfect landing. Complete with modernistic transport, two detailed delta-wing re-entry gliders, engine retainer ring, flameproof ejection wadding, and extra detailing decals. the re-entry gliders are also designed for catapult launching (hand held launcher included). (Cox 1972 Catalog)

Editorial Note:

Catalog Liveries

1972

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Uprated Saturn 1B (#5025)

MODEL NAME: **Uprated Saturn 1B** *Also known as*: Saturn 1B

NUMBER: #5025

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 2x18mm
Recovery: Parachute
Stages: 1
Length: 21"
Diameter:
Span:
Weight:

Mfg. Description: A 1/125 scale model of the launch vehicle used to orbit the first manned Apollo space mission. (Cox 1970 Catalog)

Editorial Note:

Catalog Liveries

1970

1972

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Saturn I Launch Vehicle Family

X-15 (#5000)

MODEL NAME: **X-15** *Also known as*:

NUMBER: #5000

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Reaching speeds in excess of 4,500 mph and altitudes of 350,000 feet, the X-15 was flown by men like Neil Armstrong to explore the fringes of space. Cox's ready-to-launch scale model recreates the excitement of the X-15 flights when its solid-propellant engine lifts it off the launch pad and streaks towards space. Authentically detailed, including official black fuselage molded in high impact plastic with NASA markings. Includes engine retainer ring, re-entry type parachute and flameproof ejection wadding. (Cox 1972 Catalog)

Editorial Note:

Catalog Liveries

1972

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest: X-15 Aircraft Family

Currell Graphics

http://www.currell.net/models/index.htm

Master List for **Currell** by Name

V-2 Rocket

V-2 Rocket

MODEL NAME: **V-2 Rocket** *Also known as*:

NUMBER:

Introduced: 2005
Final Year:
Designer: Ralph Currell

Type: Scale, Cardstock
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

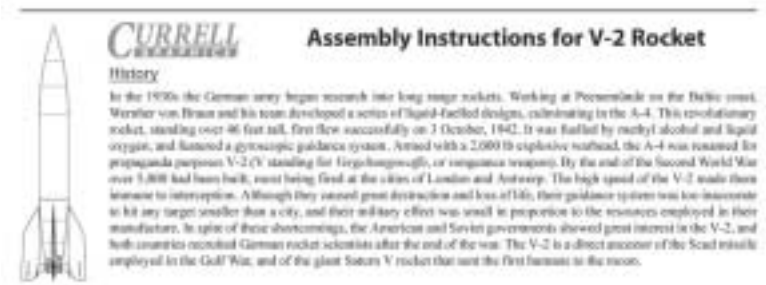
Mfg. Description:

Web Liveries

2011

2011 Alternate

Face Card(s)



CURRELL GRAPHICS

Assembly Instructions for V-2 Rocket

History

In the 1930s the German army began research into long range rockets. Working at Peenemünde on the Baltic coast, Wernher von Braun and his team developed a series of liquid-fuelled designs, culminating in the A-4. This revolutionary rocket, standing over 46 feet tall, first flew successfully on 3 October, 1942. It was fuelled by methyl alcohol and liquid oxygen, and featured a gyroscopic guidance system. Armed with a 2,000 lb explosive warhead, the A-4 was renamed for propaganda purposes V-2 (V standing for Vergeltungswaffe, or vengeance weapon). By the end of the Second World War over 5,000 had been built, most being fired at the cities of London and Antwerp. The high speed of the V-2 made them immune to interception. Although they caused great destruction and loss of life, their guidance system was too inaccurate to hit any target smaller than a city, and their military effect was small in proportion to the resources employed in their manufacture. In spite of these shortcomings, the American and Soviet governments showed great interest in the V-2, and both countries recruited German rocket scientists after the end of the war. The V-2 is a direct ancestor of the Scud missile employed in the Gulf War, and of the giant Saturn V rocket that sent the first humans to the moon.

Also of interest: V-2 Ordnance Family, V-2 Launch Vehicle Family

Custom Rockets

Custom Rocket Company

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Bedford, IA 50833

928-846-4790

888-371-6990 fax

Email: sales@customrocketcompany.com

http://www.customrocketcompany.com

About Custom Rockets

Since 1988, Custom Rocket Company has been providing quality model rocket kits and components. Each of our kits are made in the U.S. from high quality components. Our rockets are constructed from light-weight components such as balsa wood, paper tubes, and plastic. Kits are designed to be flown over and over again with commercially available model rocket engines. Most of our kits are able to fly over 1000 feet on a single engine!

(Company Web Statement 2011)

Master List for **Custom** by Name

A.T.W. Anti Tank Weapon	#10039
Bullet	#10015
Engage	#10002
Fiesta	#10030
Galileo	#10012
Game Over	#10042
Ion Pulsar	#10028
Lamprey	#10006
Landviper	#10001
Liberty	#10045
Nomad	#10054
P.O.N.G.	#10043
Razor	#10017
Redliner	#10011
Scavenger	#10046
Serin	#10038
S.L.V.	#10044
Tristar	#10027
Venture	#10019

Master List for **Custom** by Number

#10001	Landviper
#10002	Engage
#10006	Lamprey
#10011	Redliner
#10012	Galileo
#10015	Bullet
#10017	Razor
#10019	Venture
#10027	Tristar
#10028	Ion Pulsar
#10030	Fiesta
#10038	Serin
#10039	A.T.W. Anti Tank Weapon
#10042	Game Over
#10043	P.O.N.G.
#10044	S.L.V.
#10045	Liberty
#10046	Scavenger
#10054	Nomad

CUSTOM ATW Anti Tank Weapon (#10039)

MODEL NAME: ATW Anti Tank Weapon *Also known as*:

NUMBER: #10039

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 11" (27.9 cm)
Diameter: 0.736" (18.7 mm)
Span:
Weight: 0.65 oz (18.5 g)

Mfg. Description: Scale-like, model of the Army's next generation, ultra powerful anti-tank weapon. injection-molded plastic nose cone, die-cut balsa fins, and streamer recovery. Includes pressure-sensitive decals. Flights of over 1,000 feet are possible. (Custom 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest:

Bullet (#10015)

MODEL NAME: **Bullet** *Also known as*:

NUMBER: #10015

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

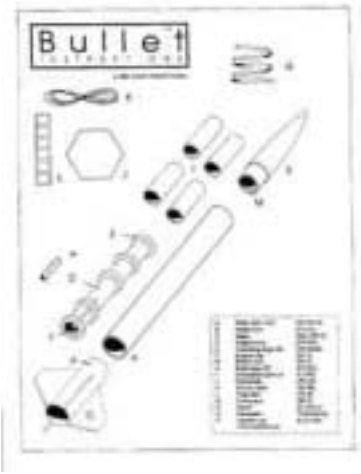
Catalog Liveries

2004

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Engage (#10002)

MODEL NAME: **Engage** *Also known as*:

NUMBER: #10002

Introduced:
Final Year:
Designer:

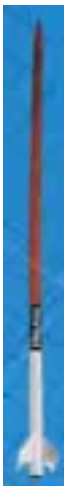
Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

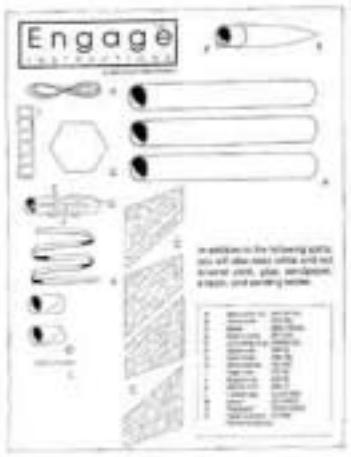


2004

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Fiesta (#10030)

MODEL NAME: **Fiesta** *Also known as*:

NUMBER: #10030

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 11.75"
Diameter: 0.976"
Span:
Weight:

Mfg. Description: Great beginner's kit! Assembly is quick and easy with plastic nose cone, pre-cut balsa fins, colorful water-slide decals, quick release engine mount, and bright streamer. (Custom 1998 Catalog)

Editorial Note:

Catalog Liveries

1998

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Custom Fiesta Family

Galileo (#10012)

MODEL NAME: **Galileo** *Also known as*: Galileo Probe

NUMBER: #10012

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Helicopter
Stages: 1
Length: 8"
Diameter: 1.325"
Span:
Weight: 0.4 oz

Mfg. Description: Explore futuristic planets with Galileo. Galileo can quickly launch from most space exploration craft and quickly gather information about distant planets, either by landing or by orbiting. This can greatly reduce the risk of endangering an entire mission by unsafe conditions. Our model is based on what such a futuristic probe might look like. Galileo goes up like a rocket, flips over, and comes down like a helicopter! Model features detailed 2 color water-slide decal, balsa fins, hardwood dowel and balsa nose cone. (Custom 1998 Catalog)

Editorial Note:

Catalog Liveries

1994

1998

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest:

Game Over (#10042)

MODEL NAME: **Game Over** *Also known as*:

NUMBER: #10042

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 11.75"
Diameter: 0.976"
Span:
Weight: 0.7 oz

Mfg. Description: Flashback to the early 80's with GAME OVER. The 8-bit graphics on the decals remind us of another time. Model features an injection nose cone, die-cut fins, and streamer recovery. Includes pressure-sensitive decals, quick-release engine mount for fast engine change. Flights over 1000 ft are possible. (Custom 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Custom Fiesta Family

Ion Pulsar (#10028)

MODEL NAME: **Ion Pulsar** *Also known as*:

NUMBER: #10028

Introduced:
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 17" (42.5 cm)
Diameter: 1.325" (33.5 mm)
Span:
Weight: 1.4 oz (40 g)

Mfg. Description: In 1939, something strange was being built in complete secrecy on a remote island off the coast of Ireland.

McKimmons, a local inventor, had become well known for his aeronautical discoveries. Now an eccentric millionaire, McKimmons lived alone on the island and spent his days and nights working. His work would not be made public until it's discovery in 2029.

In 2029 Nasa sent it's first manned exploration team to Mars. It was during this exploration of the planet, astronauts made a startling discovery. What they found was an Ion pulsar powered spacecraft. It's discovery found technology that was years ahead of it's time, even in 2029! What the astronauts saw before them was a spacecraft that had been flown by the late inventor. McKimmons was never found, however a diary inside the ship detailed his journey up until 1973. Among the other items found, plans for the Ion engine, living quarter with unique life support equipment. Also inside was hydroponic growing equipment to supply food.

By 2035 Nasa had a working Ion pulsar engine that enabled the team to travel to distant galaxies.

Futuristic kit! Makes a great display kit with its super detailed parts. Features a blow molded plastic nose cone, die-cut balsa fins, and 12" parachute recovery. Includes precision printed waterslide decals and quick-release engine mount for fast engine change. Flights of over 750 feet are possible with a C6-5 motor. (Custom 2011 Web Ad)

Editorial Note:

Catalog Liveries

1998

Web Liveries

2011

Face Card(s)

Also of interest:

Lamprey (#10006)

CUSTOM

MODEL NAME: **Lamprey** *Also known as*:

NUMBER: #10006

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

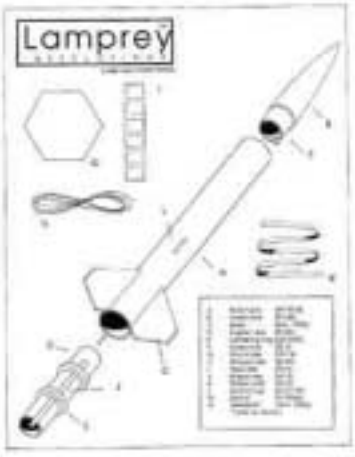
1994

CUSTOM

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Landviper (#10001)

CUSTOM

MODEL NAME: **Landviper** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport, Cluster
Motor Mount: 3x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

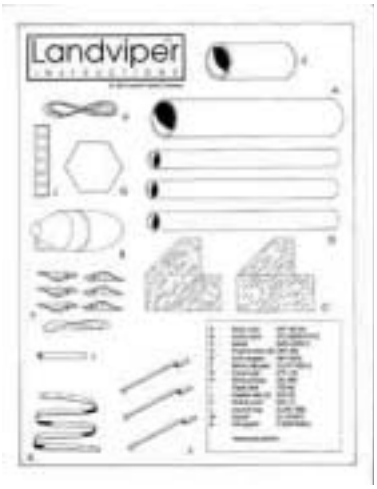
Editorial Note:

Catalog Liveries

1994

Web Liveries

Face Card(s)



Instruction Header

Also of interest:

Liberty (#10045)

MODEL NAME: **Liberty** *Also known as*:

NUMBER: #10045

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 29.63" (75.26 cm)
Diameter: 1.63" (41.4 mm)
Span:
Weight: 3.5 oz (100 g)

Mfg. Description: If you like our Freedom kit then you'll want this kit. Big sport rocket with big decals! Features blow-molded plastic nose cone, die-cut balsa fins, and 18" parachute recovery. Includes pressure-sensitive decals and quick-release engine mount for fast engine change. Flights of over 750 feet are possible with a D12-5 motor. (Custom 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

CUSTOM

Face Card(s)

Instruction Header

Also of interest:

Nomad (#10054)

MODEL NAME: **Nomad** *Also known as*:

NUMBER: #10054

Introduced: 2011
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 9.88” (25.1 cm)
Diameter: 1.637” (41.6 mm)
Span:
Weight: 1.8 oz (51 g)

Mfg. Description: Deep space satellite camera. Vac-u-form plastic nose cone, laser-cut balsa fins, and 12” parachute. Self-adhesive decal sheet and quick-release engine mount. Flies over 750 feet. (Custom 2011 Web Ad)

Web Liveries

2011

Face Card(s)

P.O.N.G. (#10043)

MODEL NAME: **P.O.N.G.** *Also known as*: Protector of the Ninth Galaxy

NUMBER: #10043

Introduced:
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 19.5" (49.53 cm)
Diameter: 0.541" (13.74 mm)
Span:
Weight: 0.7 oz (22 g)

Mfg. Description: The nineth galaxay is protected by a fleet of these craft. Protectors Of Nineth Galaxy or P.O.N.G for short, is well detailed. You might say it's over detailed. It uses mid-body separation and flies under mini-engine power. Recovery is by streamer and it will fly over 500 feet. Another unique feature is that it uses a ping pong ball for the nose cone. Add this one to your collection if you want something different. (Custom 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest:

Razor (#10017)

MODEL NAME: **Razor** *Also known as*:

NUMBER: #10017

Introduced:
Final Year:
Designer:

Type: Sport, Tube Fin
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12” (30.5 cm)
Diameter: 0.976” (24.8 mm)
Span:
Weight: 1.6 oz (46 g)

Mfg. Description: This unique model uses tubes as fins! With pre-colored parts there is no painting required! Features injection-molded plastic nose cone, and 12” parachute recovery. Includes self-adhesive decals and quick-release engine mount for fast engine change. Flies over 1,000 feet with a C6-7 motor. Also available in bulk. (Custom 2011 Web Ad)

Editorial Note:

Catalog Liveries

1994

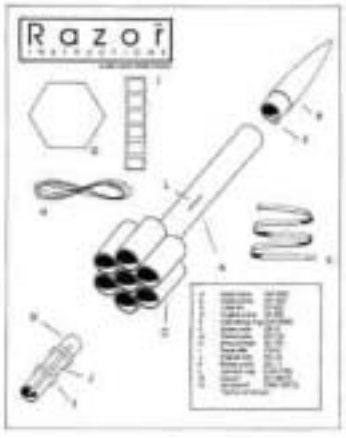
1998

Web Liveries

2011

Face Card(s)

Instruction Header



Also of interest: Tube Fin Family

Redliner (#10011)

MODEL NAME: **Redliner** *Also known as*:

NUMBER: #10011

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 20.75" (52.6 cm)
Diameter: 0.976" (24.8 mm)
Span:
Weight: 1.3 oz (38 g)

Mfg. Description: Modern graphics and styling make Redliner unique. Designed to go together easily and fly over 900 ft. (Custom 1994 Catalog)

==========

Sleek, long design! Easy to build and fly; makes a great beginner kit. Features a blow molded plastic nose cone, die-cut balsa fins, and 12" parachute recovery. Includes precision printed water-slide decals and quick-release engine mount for fast engine change. Flights of over 1000 feet are possible with a C6-7 motor. (Custom 2012 Web Ad)

Editorial Note:

Catalog Liveries

1994

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

CUSTOM Scavenger (#10046)

MODEL NAME: **Scavenger** *Also known as*:

NUMBER: #10046

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 20.75" (52.7 cm)
Diameter: 1.63" (41.6 mm)
Span:
Weight: 2.3 oz (64 g)

Mfg. Description: D-powered rocket with big decals! Easy to build and fly; makes a great demonstration kit. Features blow-molded plastic nose cone, die-cut balsa fins, and 18" parachute recovery. Includes pressure sensitive decals and quick-release engine mount for fast engine change. Flights of over 1000 feet are possible with a D12-5 motor. (Custom 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest:

Serin (#10038)

MODEL NAME: **Serin** *Also known as*:

NUMBER: #10038

Introduced:
Final Year:
Designer:

Type: Sport, Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.3" (36.32 cm)
Diameter: 0.976" (24.8 mm)
Span:
Weight: 1.07 oz (30.37 g)

Mfg. Description: Scale-like, surface-to-air missile! Looks realistic on the launch pad and in the air! Easy to build and fly; makes a great beginner kit. Features a blow molded plastic nose cone, die-cut balsa fins, and 12" parachute recovery. Includes precision water-slide decals and quick-release engine mount for fast engine change. Flights of over 1000 feet are possible with a C6-7 motor. (Custom 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

S.L.V. (#10044)

MODEL NAME: **S.L.V.** *Also known as*: SLV, Satellite Launch Vehicle

NUMBER: #10044

Introduced:
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.5” (59.7 cm)
Diameter: 0.736” (18.69 mm)
Span:
Weight: 1.4 oz (40 g)

Mfg. Description: Satellite launch vehicle. Impressive, slow liftoffs that look so real. Features injection-molded plastic nose cone, six die-cut balsa fins, and 12” parachute recovery. Self-adhesive decals. Flights of over 750 feet. (Custom 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest:

Tristar (#10027)

MODEL NAME: **Tristar** *Also known as*:

NUMBER: #10027

Introduced:
Final Year: 2010
Designer:

Type: Futuristic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.75"
Diameter: 0.976"
Span:
Weight: 0.8 oz

Mfg. Description: Have your ticket ready for this coast-to-coast jet. Civilian travel is scheduled to depart in 2012. Using advanced engine and airframe design, coast-to-coast flights should take less than an hour! Our model features plastic nose cone, pre-cut balsa fins, water-slide decals, quick release engine mount and 12" parachute recovery. (Custom 1998 Catalog)

Airliner kit! Travel coast to coast in less than an hour! Easy to build and fly; makes a great beginner kit. Features a blow molded plastic nose cone, die-cut balsa fins, and 12" parachute recovery. Includes precision printed water-slide decals and quick-release engine mount for fast engine change. Flights of over 1000 feet are possible with a C6-7 motor. (Custom 2008 Web Ad)

Editorial Note:

Catalog Liveries

1998

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest:

4 7 6

Venture (#10019)

MODEL NAME: **Venture** *Also known as*:

NUMBER: #10019

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 11.75” (29.8 cm)
Diameter: 0.976” (24.8 mm)
Span:
Weight: 0.7 oz (19 g)

Mfg. Description: Easy Assembly and excellent performance make this a great kit for the beginner. Flights over 1500 feet. (Custom 1994 Catalog)

Great kit for your first or second rocket. Features injection-molded plastic nose cone, laser-cut balsa fins, and 12” parachute recovery. Includes self-adhesive decal and quick-release engine mount. Also available in bulk. (Custom 2012 Web Ad)

Editorial Note:

Catalog Liveries

1994

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

Cygnus Model Rocket Company

http://www.cygnusrocketry.com/

Master List for **Cygnus** by Name

76er
Blazer
Critter
X-1 N.E.A.V.

76er

MODEL NAME: **76er** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 79"
Diameter: 1.637"
Span: 6.7"
Weight:

Mfg. Description: 79" Length = 6 1/2 Feet of FUN! (Cygnus 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2009

Face Card(s)

Instruction Header

Also of interest:

Blazer

MODEL NAME: **Blazer** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 40"
Diameter: 0.976"
Span:
Weight: 1.5 oz

Mfg. Description: Long & Lean (Cygnus 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

Critter

MODEL NAME: **Critter** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13.1"
Diameter: 2.6"
Span:
Weight: 4.8 oz

Mfg. Description: Big and Fat! Oh Boy! (Cygnus 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2009

Face Card(s)

Instruction Header

Also of interest:

X-1 N.E.A.V.

MODEL NAME: **X-1 N.E.A.V.** *Also known as*: N.E.A.V., Near Earth Attach Vehicle

NUMBER:

Introduced:
Final Year:
Designer:

Type: Futuristic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 9.5”
Diameter: 0.736”
Span: 3"
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2009

Face Card(s)

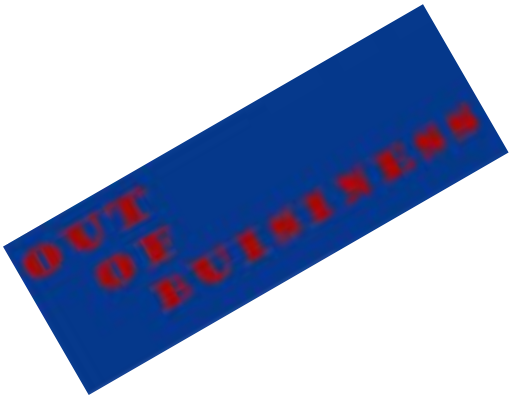
Instruction Header

Also of interest: Estes DOM Top Seccret Family

DG&A

HIGH POWER ROCKETRY

DG&A High Power Rocketry (DG&A)



Master List for **DG&A** by Name

Armageddon 29mm
Armageddon 38mm
Armageddon 54mm

DG&A
HIGH POWER ROCKETRY

Armageddon (29mm)

MODEL NAME: **Armageddon (29mm)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Danny Cantu

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 4"
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: DG&A Armageddon Family

Armageddon (38mm)

MODEL NAME: **Armageddon (38mm)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Danny Cantu

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 4"
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Unknown Date

Face Card(s)

Instruction Header

Also of interest: DG&A Armageddon Family

DG&A
HIGH POWER ROCKETRY

Armageddon (54mm)

MODEL NAME: **Armageddon (54mm)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Danny Cantu

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 4"
Span:
Weight:

Mfg. Description:

Editorial Note:

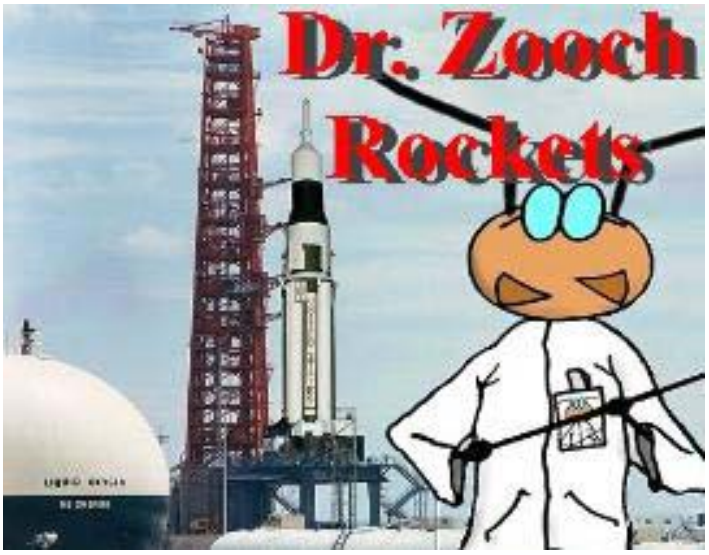
Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: DG&A Armageddon Family



Dr. Zooch Rockets

http://drzooch.com/

A Rocketeer’s View of Dr. Zooch

Dr. Zooch Rockets is a small company specializing in "ant-scale" (semiscale) rocket kits of prototypes typically not produced by other manufacturers. Dr. Zooch is run by Wes Oleszewski, who brings his unique talents as a cartoonist and writer, as well as an avid rocketeer, pilot, and rocket designer together to produce high quality, one-of-a-kind kits you won't find anywhere else. The instructions are humorously written and well illustrated, using characters from his "The Program" web-produced cartoon strip, and the kits are well designed and tested and contain very good-quality parts and components. These are "builder's kits"-- not your typical three-fins-n-nosecone RTF plastic bricks, using balsa nosecones and fins, the way rockets were meant to be built! You'll also learn some new tricks along the way building Dr. Zooch Rockets, because there are a lot of neat "illusion" detail tricks that Wes incorporates in his kits from paper modeling and making miniature detail parts from common items that really make the model come alive. Even with the novel techniques and more involved build, there's nothing particularly hard about Dr. Zooch kits if you've built a few rockets before, and the skills you learn will carry over to your other builds, and when you're done, you'll have a very nice flying model of a rocket that no other manufacturer likely makes, and you won't spend a fortune to get it, either, because Dr. Zooch Rocket's prices are some of the best values in rocketry!

The Dr. Zooch fleet is continuously growing, with lots of options, from "fun kits" like the Gumball Lofting Vehicle, to improved versions of old favorites like the semi-scale BT-60 sport flying Saturn V, to various ant-scale replicas of everything from the Russian Sputnik, Luna, and Soyuz, to all the different versions of the Saturn I and IB, other early space program vehicles like the Mercury Redstone, Mercury Atlas, Atlas Agena, Discoverer Thor-Agena, Jupiter and Juno launch vehicles, through the Gemini-like Mark II and Titan III MOL, to the later space program vehicles like the Space Shuttle, to today's prospective shuttle replacement vehicles like the Ares I/I-X, the SLS, and the EFT-1 flight vehicles, and even some that never really existed but probably should have, like the Lifting Body Shuttle. You can reenact virtually the entire space program in miniature with Dr. Zooch Rockets... how it turns out is up to you!

Jeff Roberts 2011

Master List for **Dr. Zooch** by Name

Ares I-X
Atlas Agena
Gb-LV
Juno II
Mark II
Mercury Little Joe
Mercury Redstone
Saturn SA5
Saturn V
Soyuz
Space Launch System (SLS)
Titan IIIc SLV5
Vanguard Eagle

Ares I-X

MODEL NAME: **Ares I-X** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight: 1.29 oz

Mfg. Description: As plans moved ahead for NASA's next manned launch vehicle, the Ares I, some fundamental questions needed to be answered. What aerodynamic surprises await it in actual flight? To find out, NASA planned a series of unmanned launches similar to the Titan I and Saturn I launches of the early 1960s using a dummy upper stage. The first such launch was the Ares I-X! The flight took place on October 28th, 2009. The I-X boosted on a standard Shuttle SRB that is extended with a 5th segment simulator. The upper section was a boilerplate of the proposed upper stage, adapter, Orion spacecraft and LAS. Standing 327 feet tall and weighing as much as three and a half un-fueled Saturn V moon rockets, the Ares I-X rolled out of the VAB 01:39 on October 20. Eight days later the vehicle thundered majestically from Pad 39B. Contrary to the speculation of mindless critics, the flight was 100% successful. In fact it was awe-inspiring. At staging, the entire upper section simply tumbled into the Atlantic and the SRB first stage returned by parachute just as it does on Shuttle missions. The data gained will help to evaluate the Ares I configuration for flight. Like an arrow to the future, the Ares I-X has pointed the way. The only question remaining is whether or not our politicians will have the brains and fortitude to go in that direction. This Dr. Zooch Rockets' version of the Ares I-X stands just over 19 inches tall and weighs 1.5 ounces. Stabilized by our trademarked FlameFins, the model Ares I-X can achieve flights of over 2,000 feet. It returns by parachute and, if you manage to actually find it, can be flown over and over again. Although NO ENGINES ARE INCLUDED, it flies on 18 mm B or C engines that you can buy at most local hobby or craft stores. So- get yours now and be ready when NASA launches theirs! This is a great demonstration tool for educators who want to impress students, parents who want to impress kids or someone who just wants to punch a hole in the sky and impress themselves. (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2009

2011

Face Card(s)

Instruction Header

Also of interest: Ares I Launch Vehicle Family

Atlas Agena

MODEL NAME: **Atlas Agena** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight: 2.4 oz

Mfg. Description: This kit is NOT for beginners- nor is it for people who don't bother to read the text. So, if you are either of those and you buy it- don't come cryin' to us if it's beyond your skill level. This kit is a semi-scale version of the Atlas Agena. It uses 18mm engines such as any B or C engine (not included). You do, however get everything else you'll need to build the kit… well… excluding glue… a hobby knife… paints, sand paper and skill… okay so you won't get everything, but there are lots of parts… just look at the parts photo!

Wow! That's lots of stuff in there and there's and very complete and well illustrated set of instructions, too.

The rocket is based on a T-60 tube and stands just under 20 inches tall with its FlameFins and 15.75 inches tall without the fins. It has a basic empty weight of 2.4 oz and can fly over 1,000 feet high.

Now since you're probably wondering just what skill level this kit actually is, here's how we measure skill levels at Dr. Zooch Rockets:
Skill level 0: You have no idea what a model rocket is or does and are just reading this because you have no life and lots of time on your hands.
Skill level 1: You've seen model rockets before, but have never built one. In fact you do not even have a hobby knife or glue, but know where you can get such things.
Skill level 2: You have your own hobby knife and glue and know how to use each.
Skill level 3: You once slipped and cut the heck out of your finger with your hobby knife, but the folks in the emergency room knew how to re-attach it.
Skill level 4: You've slipped and cut yourself so many times with your hobby knife that the little "snit" sound that the blade makes when it gets you is familiar, you can make a tourniquet out of a paint brush and the local emergency ward keeps blood on standby just for you.
Skill level 5: You once slipped with your hobby knife and cut off a finger, but were able to repair it yourself with stuff in your hobby tool box.

This kit is a skill level **2.5** (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

2011

Face Card(s)

Instruction Header

Also of interest: Atlas Agena Launch Vehicle Family

Gb-LV

MODEL NAME: **Gb-LV** *Also known as*: Gumball Lofting Vehicle

NUMBER:

Introduced: 2011
Final Year:
Designer: Wes Oleszewski

Type: Sport, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12"
Diameter:
Span: 5.5"
Weight: 1.1 oz

Mfg. Description: For Dr. Zooch Rockets this is our first “Educational” kit. Additionally, this is our first kit priced to help folks fly rockets in these difficult financial times- in other words, it is priced to fight inflation.

The kit is called the “Gb-LV” which stands for Gumball-Lofting Vehicle. The highlight of the Gb-LV is its nosecone, which is a common capsule that you will find in most gumball machines! The advantage is that you can put a bug, a gummy bear, or some other critter into the capsule and send it into the sky. The capsule then returns on its own parachute while the booster returns by a streamer. This has several fun aspects- first off you can see into the capsule and the passenger can see out. Also, if you lose the capsule, you can replace it by simply going to your nearest gumball machine and dropping a coin in! Or, if you are really daring or you just make a mistake, the capsule can land in water and you can have a “splashdown!”

Use your Gb-LV for school science projects! You can take insects, shoot them aloft and then study how they react to the flight! A handy altitude prediction chart, which is included in the kit, tells you the estimated altitude that the Gb-LV will fly on all 3 classes of rocket engines so you can use it as a part of your project.

Get your Gb-LV today. Fly, learn, have fun. You can touch the sky, if you try. (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest:

Juno II

MODEL NAME: **Juno II** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.5"
Diameter:
Span:
Weight: 1.6 oz

Mfg. Description: Perhaps the most un-glamorized booster ever produced by von Braun's team at Army Ballistic Missile Agency (ABMA) was the Juno II. Only ten of these vehicles were launched in a two and one half year period, and only four of those were able to be called successful. By the end of 1958, the von Braun team, on behalf of the newly created NASA, assembled and launched the first Juno II from Pad 5 at Cape Canaveral. NASA was itching to go from space planning to space flying and the Juno II, although developed by the ABMA, would give the public appearance of being a NASA vehicle and NASA project. The first launch of a Juno II was on December 6, 1958 and lofted the Pioneer III probe. Thereafter, the vehicle's track record gets fairly dismal with only 3 of the next nine flights officially being able to be considered successful. In the end the Juno II was simply a vehicle that was quickly passed by as spaceflight technology experienced an explosive growth. It now holds the record as being NASA's least successful US launch vehicle. So, if you get more than four fully successful flights out of your Juno II… you'll be doing better with your Juno II than either NASA or ABMA did with theirs.

This rocket is designed to a semi-scale and stands 16.5 inches tall when flown successfully, somewhat smaller when crashed. It is stabilized with Dr. Zooch's FlameFins and has a span of 2.8 inches. Basic empty weight of the rocket is 1.59oz. The rocket DOES NOT include ANY engines- and flies on a standard 18mm, such as a B or a C. Altitudes of more than 1,200 feet can be gained when flown upward and no other direction is recommended. (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Juno II Launch Vehicle Family

Mark II

MODEL NAME: **Mark II** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Pseudo Scale, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.2"
Diameter:
Span: 2.93"
Weight: 2.4 oz

Mfg. Description: This is the Dr. Zooch Rockets Mark II flying model rocket kit. It is a model that represents …well… no real rocket at all! It is actually derived from a rocket created by the guy who owns the company. He invented this rocket back in 1972 as a part of his rocket dweeb child-hood. Now he has refined and re-funned the design to make an easy to build fun flyer so that every-one out there can either relive their own twisted childhood or get a start at being the weirdest kid in their neighborhood.

When fully constructed, this model stands 12.2 inches tall with a 2.93 inch fin-span and has a basic empty weight of 2.4 ounces. It is single stage and uses a standard 18mm motor, such as a B6-4 (NO engines are included with the kit). Flights over 1,000 feet high are easy to obtain and the kit is constructed with a payload compartment for launching small “things.” This is a basic skill level kit, meaning that almost anyone can build and fly it successfully. All of the primary parts are either wood or paper. So buy it, build it and- young or old- become the strangest kid in the neighborhood. (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

2011

Face Card(s)

Instruction Header

Also of interest:

Mercury Little Joe

MODEL NAME: **Mercury Little Joe** *Also known as*: Little Joe

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.95"
Diameter:
Span: 5.27"
Weight: 1.74 oz

Mfg. Description: This is a semi-scale model kit of the Project Mercury test vehicle known as Little Joe. This kit comes with everything you'll need to construct a flying small scale model of the test vehicle… okay, almost everything… it does not include the glue, or the hobby knife, or the sand paper, or the sergeant rocket engines, or the Wallops Island launch pad, or the 60 or so engineers it took to launch the real thing, or either of the two monkeys who rode aboard it (mainly because they're… well… dead.). You also do not get the United States Navy to help you recover the rocket, but that should not stop you from phoning them and asking them to do so (Give 'em that "I pay your salary" line… they just love that). Also NO 18 mm rocket engines such as B6-4s or C6-5s, which the rocket uses are included in the kit- you'll have to go to a hobby store and buy your own. Which brings to mind another thing you won't get… skill! Well, actually, you will develop some skill as you build the kit, but we have to tell you this because we have to assume that you may be a skill-less slug who, if we implied so, would believe that somehow by just opening our box a magic skill pixie will leap out dive down your throat and then bust out through your chest and build the model for you. This will not happen… or at least we don't expect it to happen… okay be careful opening the box just in case and remember to keep your mouth closed at all times just in case. If you do release a magic skill pixie- alert the Navy while you have them on the phone discussing that recovery fleet thing. (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Little Joe Launch Vehicle Family

Mercury Redstone

MODEL NAME: **Mercury Redstone** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.5"
Diameter:
Span: 4.15"
Weight: 3.2 oz

Mfg. Description: This is the Dr. Zooch Rockets Mercury Redstone flying model rocket kit. It is a model that represents the rocket that sent the first American into space! But this kit is much more than that- it is designed to give the builder a choice of building it to represent ANY of the Mercury Redstone flights- MR-1A, MR-2, MRBD (Yes, you get all you need for the obscure, but historically critical MRBD flight), MR-3 (Freedom 7) or MR-4 (Liberty Bell 7). This kit contains NO plastic parts and is designed to be flown with the escape tower on- like it's supposed to fly- not with the tower off like a squirming hatch-blower would fly it. This is an average skill level kit- but the escape tower is a complex build and will require patience and direction-following.

The kit is based on a T-60 tube and, when fully constructed stands 23.5 inches tall with a 4.15 inch fin-span and has a basic empty weight of 3.2 ounces. It is single stage and uses a standard 18mm motor, such as a B6-4 (NO engines are included with the kit). This is an average skill level kit, meaning that most modelers can build and fly it successfully. All of the primary parts are either wood or paper. So buy it, build it and make spaceflight history come alive! (Dr Zooch 2011 Web Ad)

Editorial Note:

Web Liveries

Also of interest: Mercury Redstone Launch Vehicle Family

Saturn SA-5

MODEL NAME: **Saturn SA-5** *Also known as*: Saturn SA5, Saturn I SA5, Saturn I Block II SA5

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.5"
Diameter:
Span:
Weight:

Mfg. Description: If anyone tells you that SA-5 was not the coolest rocket ever flown they are only demonstrating their lack of taste in rocket coolness. Such people are likely to be found at the local Whatever Mart buying one of those buy-n-fly kits with plastic fins. We urge you not to talk further to them as you can lose I.Q. points just standing too close to such people. Instead, you should buy this kit right now and regain those points that you may have already lost. SA-5 was the first of the Saturn I Block II vehicles.

Launched on January 29, 1964 it was one of a kind. Rather than an Apollo spacecraft, SA-5 carried a really pointy Jupiter nose cone. This kit, although being ant-scale, is very close to actual scale -- in fact it's as close as we could get it without having to get any smarter ourselves. The kit is in scale with our other Saturn I Block II and our Saturn IB. It stands just under 13 inches tall (just for luck) and comes with a nosecone that is so pointy, when you hold it in your hand you'll hear your father's voice saying "Be careful you don't put someone's eye out with that." Rumor has it that when JFK visited Cape Canaveral and saw the real SA-5 on the pad he pointed toward the nose cone and told von Braun, "Be careful you don't put someone's eye out with that."

You'll also get the Dr. Zooch instruction booklet, where Dr. Zooch himself, from the crazy spaceflight cartoon strip "The Program," guides you through some madcap instructions that are almost more fun than the rocket itself. This kit is part of the line of Dr. Zooch rockets and there are plenty more where this came from. So you can buy it, build it, crash it and WHO CARES!, we'll sell you another one! Just be careful you don't put someone's eye out with it. (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2007

2011

Face Card(s)

Also of interest: Saturn I Launch Vehicle Family

Saturn V

MODEL NAME: **Saturn V** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: *Wes Oleszewski*

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18”
Diameter:
Span: 3.6”
Weight: 2.4 oz

Mfg. Description: If you came here looking for an Estes K-39… this AIN’T it! Although this model is about the same size, it is a vastly improved rocket. Remember back to when you bought your first semi-scale Saturn V? Sometime between 1969 and 1979 and as you rode your bike back from the hobby store, with the rocket kit and bag gripped onto the handlebars, you envisioned your backyard turned into Launch Complex 39 as your ant-sized Saturn V thundered into the sky with USA and the American flags on its side, F-1 engines hard at work.

Then remember when you finished the kit and you looked at it and said to yourself “What a piece of cr&p!” There were no details, no USAs, no F-1 engines!

It hardly even looked like a Saturn V. And on the first or second flight at least one of those stinking glass fins broke away and was lost so the rocket was no good anymore. Well here at Dr. Zooch Rockets we have developed an ant-scale Saturn V that has ALL of the details!

GONE are the glass fins, GONE are the pain-to-build engine fairings. Included are the full set of decals with all of the USAs, and first motion markings, INCLUDED are the F-1 engines and they do not have to come off for flight! THIS IS the ant-scale Saturn V that you dreamed of as a kid and it won’t cost you an arm and a leg to get it, so if you lose it in a tree, you afford to buy another one. In designing this kit we used RockSim software and balanced the vehicle so that it could fly with tiny fins that are just 10% larger than true scale. And it really flies too! Put in a “C” engine and you’ll chase it for a half mile. Everything you need is in the kit. We even give you extra decals for when you screw one up. (Dr Zooch 2011 Web Ad)

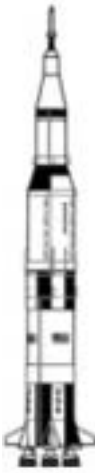
Catalog Liveries

Web Liveries

2010

2011

Face Card(s)



Also of interest:

Soyuz

MODEL NAME: **Soyuz** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: This flying model rocket kit is the Russian Soyuz! Made in America, it is as Russian as we can get it without getting the State Department involved. This is a builder's kit- meaning that there are lots of pieces and you have to do lots of work- yet it still has everything you'll need to get it ready to fly- except engines. When finished the rocket stands just over 18 inches tall and weighs 2.2 oz. It is a single engine-single stage rocket with parachute recovery and can be built with average skill. This kit is in scale with our R-7 Luna and Sputnik kits- a clever ploy on our part, because if you have either of those you'll now have to buy this one to complete the set. This Soyuz kit is so Russian you'll find yourself suddenly talking with a Russian accent, writing your "R"s backward, drinking vodka and saying "Da!" as it launches for the first time. (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

Face Card(s)

Instruction Header

Also of interest: Soyuz Launch Vehicle Family

Space Launch System (SLS)

MODEL NAME: **Space Launch System** *Also known as*: SLS

NUMBER:

Introduced:
Final Year:
Designer:

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: ~17"
Diameter:
Span: 4"
Weight: 2.7 oz

Mfg. Description: With the ending of the Space Shuttle program, as mandated by President Bush, followed by President Obama's unexpected cancelation of the Shuttle's replacement- the Constellation program- the United States was left without a federal manned spaceflight capability for the first time in a half century. The Congress found that unacceptable and thus mandated that the national policy would be that the USA must have a Shuttle replacement and that same launcher must be able to loft vehicles for exploration beyond low earth orbit. This heavy lift launch vehicle became known as the Space Launch System (SLS) and was placed into the NASA Authorization Act of 2010. Although NASA has refused to make public the details of the SLS, we here at Dr. Zooch Rockets have developed this kit based on leaked information. Thus, you can fly the SLS before NASA even gets started on it!

The rocket stands just over 17 inches tall without fins and flies using or FlameFin design. It weighs 2.7 oz. empty and has a 4 inch fin span. It is a single stage rocket with parachute recovery and uses 18mm engines such as a "B" or a "C." (Dr. Zooch 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Instruction Header

Also of interest:

Titan IIIc SLV5

MODEL NAME: **Titan IIIc SLV5** *Also known as*: Titan IIIc

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.75"
Diameter:
Span:
Weight: 3.6 oz

Mfg. Description: This is the Dr. Zooch Rockets Titan IIIC SLV5 flying model rocket kit. It is a semi-scale model that represents the very first of the Titan IIIC launch vehicles, which flew on June 18, 1965 and lofted Space Launch Vehicle number 5 (SLV5) for the US Air Force. After that the Titan IIIC vehicles went on to fly 35 more times performing everything from sending the first pair of landers to the planet Mars, to having a starring role in the Oscar winning movie Marooned- when they fictionally launched one through the eye of a hurricane.

When fully constructed this model stands 12.75 inches tall and has a basic empty weight of 3.6 ounces. It is single stage and uses a standard 18mm motor, such as a B6-4 (NO engines are included with the kit). Recovery is by parachute or by impact with the planet earth, depending on how close you follow the instructions. This is a basic skill level kit, meaning that almost anyone can build and fly it successfully. All of the primary parts are either wood or paper. So buy it, build it and wait for the eye of a hurricane so you can launch yours Hollywood style! (Dr Zooch 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

2011

Face Card(s)

Instruction Header

Also of interest: Titan III Launch Vehicle Family

Vanguard Eagle

MODEL NAME: **Vanguard Eagle** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Wes Oleszewski

Type: Scale
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 19.75"
Diameter:
Span: 4.75"
Weight: 2.79 oz

Mfg. Description: Dr. Zooch Rockets introduces our first two stager! This is the Vanguard Eagle which was one of the competitors in the X-Prize.

This is an advanced kit and is NOT for the first-time builder or the rocketeer who has been away from the hobby for a long period of time. You are going to need some skill to build this one. This rocket employs a complex and innovative form of gap-staging that allows the hot gasses from the first stage to ignite the second stage while being vented overboard through the aft engine bells of the first stage. That's right, the engine bells on the first stage are not just for decoration, they actually serve a purpose in making this rocket fly! The 9.5 inch long first stage then drops away gracefully in a realistic staging event that will have everyone saying "Cool!!" (Dr Zooch 2011 Web Ad)

Web Liveries

Face Card(s)

DRF Technologies (DFR)

[Formerlly Known as Delta IV]

info@dfrtech.com

http://www.dfrtech.com/

Master List for **DFR** by Name

Delta II (18mm)
Delta IV Medium 5+4 (24mm)

Delta II (18mm)

MODEL NAME: **Delta II (18mm)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Carl Campbell

Type: Scale, Cluster
Motor Mount: 1x18mm + 6x13mm
Recovery: Parachute
Stages: 1
Length: 21.24"
Diameter: 1.325" (T55)
Span: 5.75"
Weight: 4.5 oz

Mfg. Description: The Delta II-7925H configuration using a 2.9 meter fairing was used 3 times on the Delta 2 flying the Mars Rover Opportunity in 2003, The Planet Mercury Messenger mission in 2004 and the Dawn Asteroid mission in 2007. Delta IIs have been in service since February 1989 and launch from Cape Canaveral Air Force Station in Florida and Vandenberg Air Force Base in California.

This kit is based on the 6 ground start and 3 air start SRM configuration and is designed to be able to fly with upto 6 A10-PT motors and a core B6 motor in the main airframe. (DFR 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

2011

Face Card(s)

Instruction Header

Also of interest: Delta II Launch Vehicle Family

Delta IV Medium 5+4 (24mm)

MODEL NAME: **Delta IV Medium 5+4 (24mm)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Carl Campbell

Type: Scale, Cluster
Motor Mount: 1x24mm + 4x18mm
Recovery: Parachute
Stages: 1 with 4 Parallel Boosters
Length: 33"
Diameter: 2.6" (T80)
Span: 7.75"
Weight: 11.0 oz
Mfg. Description: This kit is an approximate 1/78th scale of the United Launch Alliance's Evolved Expendable Launch Vehicle (EELV). This kit of the Delta IV Medium 5+4 configuration has 4 boosters that can be either captive or separating powered with 18mm motors. The kit employs clear acrylic fins that are mounted on the aft of the airframe (normal placement) that make them almost invisible during launch and fly out.

This is a kit for the experienced builder. Adhesive wraps are provided to simulate some of the smaller external details and the foam on the fuel tanks. Please note, this is a sport scale model, some actual details are modified from the real rocket in order to accommodate extra durability for many flights. (DFR 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

2011

Face Card(s)

Instruction Header

Also of interest: Delta IV Launch Vehicle Family

DynaStar Mid-Power Model Rockets (DynaStar)

DynaStar Mid-Power Rockets

By Apogee Components

3355 Fillmore Ridge Heights

Colorado Springs, CO, 80907

Tel: (719) 535-9335

Fax: (719) 534-9050

http://www.dynastar-rockets.com/

About DynaStar

DynaStar Mid-Power Model Rockets is a brand of kits and supplies from Apogee Components. These are larger than the traditional entry-level model rockets, but share many of the same assembly characteristics. You'll use similar tools, like pencils, hobby knife, and ruler. You'll also use familiar supplies like, wood glue, balsa wood sealer, and spray paints. Really, the only difference is the size of the model rocket itself. All of the rockets are designed to use the Estes D12 motor, as well as any other 24mm diameter motor. If you want to make them go higher, just drop in an Aerotech E15, or one of the reloadable F-size rocket engines.

DynaStar Mid-Power Model Rockets meets the needs of modelers that built small kits and wanted to move up to the next level of rocketry. But more than just that. Many modelers have looked around at the kits from other companies, and were not happy to see that they all seem to look alike. There is no variety other than color; just a rocket with three fins and a nose cone. The DynaStar Mid-Power Model Rockets were designed with a lot of unique shapes and visible eye-appeal. Sure, we have some rocket that are simple shapes, but our objective is to provide a wide variety of kits to choose from that will get you noticed at your next launch because they are so different.

Check out our web site, and be sure to bookmark our page in your favorite web pages. If you have your own web site, we are grateful for a link to this site so that we can spread around the news of our awesome rocket kits.

For more information about Apogee Components, the parent company of DynaStar Mid-Power Model Rockets, please visit: http://www.apogeerockets.com/about.asp

(Company Web Statement 2012)

Master List for **DynaStar** by Name

Grappler	#05031
Sky Torpedo	#05033
Snarky	#05030
Stonebreaker	#05028

Master List for **DynaStar** by *Number*

#05028	Stonebreaker
#05030	Snarky
#05031	Grappler
#05033	Sky Torpedo

Grappler (#05031)

MODEL NAME: **Grappler** *Also known as*:

NUMBER: #05031

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 45.0" (114.3 cm)
Diameter: 2.60" (66 mm)
Span:
Weight: 10.0 oz (283.5 gm)

Mfg. Description: Are you looking for a big rocket that you can launch from just about any small launch field? Then the DynaStar Grappler is the perfect rocket for you.

As you can see from the images here, this rocket is very big. It is 45 inches (114.3 cm) tall, and 2.6 inches (66mm) in diameter. You most certainly will impress the kiddies when you bring this model out to the range, because it is that big. They'll all come running up to you and ask when are you going to launch it; that is a guarantee!

While this rocket is big, it is very light weight. It weighs just 10 ounces (283.5g) empty and well under a pound with a D12-3 engine installed. The reason it is so light is that it is engineered to use thin-wall paper tubes and also uses a brand new BT-80 size plastic nose cone that is also very light for its size.

Even though this rocket is large, that doesn't mean it needs a big field. The rocket flies to about 300 feet on a D12-3 motor. This is a perfect altitude for small fields. Just think how impressive it will be, and how much you'll love being able to bring out a big rocket even on small field. (Apogee 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

2011

Face Card(s)

Instruction Header

Also of interest:

Sky Torpedo (#05033)

MODEL NAME: **Sky Torpedo** *Also known as*:

NUMBER: #05033

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 27" (68.58 cm)
Diameter: 2.60" (66 mm)
Span:
Weight: 7.0 oz (198.4 gm)

Mfg. Description: The Sky-Torpedo kit from DynaStar Mid-Power Model Rockets is awesome! What makes it one of my favorites is that it sports awesome graphics designed by Shrox!

Like the other kits from "DynaStar Mid-Power Rockets", the Sky-Torpedo is designed to fly on the less expensive "D" size black-powder rocket motors. And it will give you the same performance as other mid-power kits that require "E" and "F" size composite propellant rocket motors. The lighter weight rockets fly faster and higher.

How do you get the same performance using smaller motors? Simple: the DynaStar brand of rocket kits use thin-wall body tubes, which are significantly lighter. So the rocket doesn't need a big motor just to get it off the launch pad. You'll save money, because you don't necessarily need to buy larger rocket motors! (Apogee 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

2011

Face Card(s)

Instruction Header

Also of interest:

Snarky (#05030)

MODEL NAME: **Snarky** *Also known as*:

NUMBER: #05030

Introduced:
Final Year:
Designer: Shrox

Type: Pseudo Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 28.5" (72.4 cm)
Diameter: 2.217" (56.3 mm)
Span:
Weight: 6.3 oz (180 gm)

Mfg. Description: The Snarky rocket is a very distinctive rocket kit. It was designed by Shrox, which explains why it has a unique shape. It looks more like an airplane than it does a missile. But don't let that fool you. It is fully rocket-powered, and it is big! This unique combination is definitely something that will get you noticed at your next rocket launch.

The Snarky is designed to look like an Air Force target drone. That means its purpose is to mimic the flight of enemy airplanes, so that the Air Force can practice intercepting it. But this isn't a scale model. We designed it just for kicks, and to show you how much fun you really can have with model rocketry.

The air-scoop on the bottom of the model is just one thing that makes this rocket kit unusual. No other rocket kit has one like this. And it actually helps stabilize the rocket; you'll find that it flies straight as an arrow on every single launch.

Besides the air scoop, the fins are asymmetric. That means they aren't equally spaced around the rocket like they are on other kits. The combination of the scoop and the asymmetric. fins, plus the large size of this kit is what makes it stand out amongst all the other rockets at the flying range.

Besides the cool design, the model is accented by lots of colorful pressure-sensitive decals. Without the teeth, this rocket wouldn't look so mean, would it? (Apogee 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2009 2011

Face Card(s)

Instruction Header

Also of interest: DynaStar Snarky Family

Stonebreaker (#05028)

MODEL NAME: **Stonebreaker** *Also known as*:

NUMBER: #05028

Introduced: 2004
Final Year:
Designer: Shrox

Type: Pseudo Ordnance
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 28.50" (72.39 cm)
Diameter: 2.22" (5.64 cm)
Span:
Weight: 4.90 oz (138.91 g)

Mfg. Description: Mid-power Kit with GREAT looks and Impressive Size! (DynaStar 2010 Web Ad)

Someday in the future, an asteroid or comet may threaten the destruction of the earth. Your urgent mission is to smash the asteroid to bits with the defender missile called the "Stonebreaker."

You'll find that the Stonebreaker is more than capable of completing this important mission. But to be safe, you might want to launch two or three of them — just to make sure.

The sleek design and minimum-drag nose cone allow this rocket to achieve fantastic altitudes on inexpensive rocket motors. Or you can put in an F21 motor, and watch it go to hyper-warp speeds.

The new Stonebreaker is a mid-power model rocket that is easy to build that was designed by Shrox. If you've built a model rocket before, you'll have no problems building this Skill Level-2 kit. It is straight-forward to assemble, and a breeze to decorate. The body is painted a light gray, and the tip of the nose is painted black. All the other decoration is done by applying the colorful self-adhesive decals.

Flying the rocket is even more fun than building it. Since it is a relatively large rocket, it is easy to load the rocket motor and the large plastic parachute.

When you push the launch button though, be ready for this rocket to leave the pad with noise and authority. It won't hesitate on the pad like other big rockets, it jumps into the air quite quickly. The reason is that it is a low-mass rocket that has a very clean shape. That makes it ultra-efficient for it's size. (Apogee 2012 Web Ad)

Editorial Note: Some time in 2012, the DynaStar web site ceased to be active. DynaStar is a subsidiary of Apogee Components. Apogee continued to advertise DynaStar Products.

Catalog Liveries

Web Liveries

2010 DynaStar

2012 Apogee

Face Card(s)

Instruction Header

Also of interest:

Edmonds Aerospace

http://edmondsaerospace.com/

About Edmonds

The Rocket Launched Aircraft of the Edmonds Aerospace are designed to let you fly in ways you've never flown before. If you're a new, young modeler, you'll be able to see your very first construction project blast hundreds of feet into the sky with rocket speed, then soar above your head for a minute or more, long enough for you to realize just what you've accomplished with your own two hands.

If you're an experienced modeler, you can fly the massive Thunder series models for a sensation unlike any other in model aviation or model rocketry. If you're the leader of a school or youth group, you can give your students an engrossing afternoon together in the sunshine as they watch each other's handiwork perform, because each flight is a little bit different.

The secret behind these aircraft is the technology of laser cutting. Whenever a model design requires precise angles or part positioning to work, the computer-controlled laser lets me create accurate fits between pieces to guarantee that precision as you build. That means you always end up with a model that doesn't need special adjustment to fly correctly, even if you're a brand new modeler.

(Company Web Statement 2012)

Master List for **Edmonds** by Name

Deltie
Ecee
Ivee
Tinee

Deltie

MODEL NAME: **Deltie** *Also known as*:

NUMBER:

Introduced: 1995
Final Year:
Designer: Robert Edmonds

Type: Glider
Motor Mount: 1x13mm
Recovery: Glide
Stages: 1
Length:
Diameter:
Span: 9"
Weight:

Mfg. Description: These familiar triangles find their homes in the skies over flying fields from New England to San Diego. This 1995 design inaugurated the Edmonds Aerospace standards for mistake-proof beginner-oriented kits with precision wet die-cutting and realistically illustrated instruction sets. Now laser cutting has only made them better. Your students or scouts will love the little triangles, as they give the best performance of any of my beginner's models. The model is a traditional boost glider, with a motor pod and a glider that separates after being carried to altitude. Builders assemble the model and add balancing clay, and they're ready to fly. No other adjustment is required. (Edmonds 2011 Web Ad)

Editorial Note:

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Edmonds Deltie Familie

Ecee

MODEL NAME: **Ecee** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Robert Edmonds

Type: Rocket Glider
Motor Mount: 1x13mm
Recovery: Glide
Stages: 1
Length:
Diameter:
Span: 13.5"
Weight:

Mfg. Description: The Ecee series models give you a sophisticated ride. Ecee gives you a quick introduction to the world of Rocket Glide (R/G) where the model climbs aloft and descends as a single unit. The Ecee uses the Edmonds Canard system for boost, in which the elevator surface on the canard is left to move freely for flight under thrust and coast, but then locked down into position for glide. The regular Ecee uses mini engine power and can be flown on almost any field. (Edmonds 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Edmonds Ecee Family

Ivee

MODEL NAME: **Ivee** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Robert Edmonds

Type: Boost Glider
Motor Mount: 1x13mm
Recovery: Streamer/Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Edmonds Ivee Family

Tinee

MODEL NAME: **Tinee** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Robert Edmonds

Type: Rocket Glider
Motor Mount: 1x13mm
Recovery: Glider
Stages: 1
Length:
Diameter:
Span: 6"
Weight:

Mfg. Description: It's cute and a little bit sporty, but you'll finish assembling your Tinee in less than a half hour, even if you've never built a model before. Thanks to the repeatability of laser cut parts, you can fly Tinee with no adjustments at all. This is the model for your scout troops and school science clubs, as I designed it to be the most mistake-proof and lowest-cost kit that the current state of the art will allow me to produce. Though the flight can fit within a typical school athletic field, students will be delighted by the time that Tinee remains in the air. (Edmonds 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

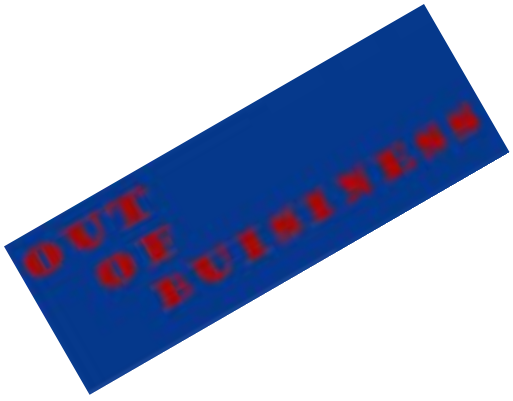
Face Card(s)

Instruction Header

Also of interest:

ROCKET POWERED BY

Enerjet



Master List for **Enerjet** by Name

Aero-Dart	#5182
Aero-Dart	KE-12
Enerjet 1340 Sounding Rocket	#1340

Master List for **Enerjet** by Number

#1340	Enerjet 1340 Sounding Rocket
#5182	Aero-Dart
KE-12	Aero-Dart

Aero-Dart (KE-12 or #5182)

MODEL NAME: **Aero-Dart** *Also known as*:

NUMBER:

Introduced: 1972
Final Year: 1976
Designer:

Type: Sport/payload
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 33"
Diameter: 2"
Span:
Weight:

Mfg. Description: The sight of a big model rocket like the Aero-Dart flying over half a mile is an experience you won't want to miss. The big rocket sits on the pad for several seconds as the motor builds up thrust, then leaps into the air and accelerates away at terrific speed. At apogee, the Aero-Dart almost disappears.

The Aero-Dart features a payload capsule with tremendous volume. For heavily instrumented flights or just spectacular flying, the Aero-Dart is your bird. (Enerjet 1972 Catalog)

Catalog Liveries

1972

Web Liveries

Face Card(s)

Also of interest: Centuri Aero-Dart Family

Enerjet 1340 Sounding Rocket (#1340)

MODEL NAME: **Enerjet 1340 Sounding Rocket** *Also known as*:Enerjet 1340, 1340, 1340 Sounding Rocket

NUMBER: #1340

Introduced: 1972
Final Year: 1976
Designer:

Type: Sport, Payload
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 28"
Diameter: 1.34"
Span: 5.8"
Weight: 4.5 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

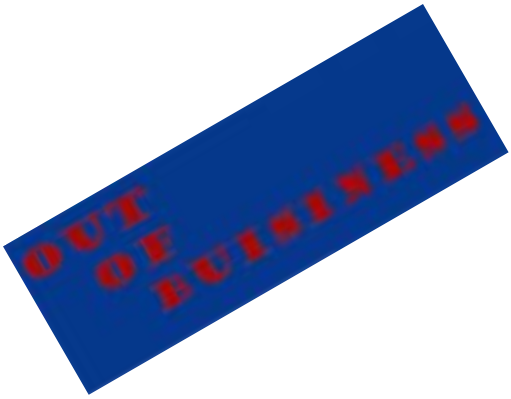
Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Enertek



Master List for **Enertek** by Name

Astra 2000	#8819
Initiator	#8814
Strong Arm	#8815

Master List for **Enertek** by Number

#8814	Initiator
#8815	Strong ARM
#8819	Astra 2000

Astra 2000 (#8819)

MODEL NAME: **Astra 2000** *Also known as*:

NUMBER: #8819

Introduced:
Final Year:
Designer: Grant Boyd

Type: Pseudo Scale
Motor Mount: 1x30mm
Recovery: Parachute
Stages: 1
Length: 38"
Diameter: 2.0"
Span:
Weight: 9 oz

Mfg. Description: This single stage kit looks like a two-stage model. It is designed like many of the scientific research vehicles used throughout the world today. The model stands over 38" tall when complete and the decals make it a real attention getter at the flying field.

The kit features molded plastic nose cone and tail section, pre-cut lite-ply fins and strakes, baffle ejections system and parachute recovery. (Enertek 1989 Catalog)

Catalog Liveries

1989

Web Liveries

Face Card(s)

Also of interest: Enertek Astra 2000 Family

Initiator (#8814)

MODEL NAME: **Initiator** *Also known as*:

NUMBER: #8814

Introduced:
Final Year:
Designer: Bob Sanford

Type: Sport
Motor Mount: 1x30mm
Recovery: Parachute
Stages: 1
Length: 39"
Diameter: 2.5"
Span:
Weight: 14 oz.

Mfg. Description: Flagship of the Enertek line, this easy to assemble kit should be the first advanced rocketry kit you build. Big pre-cut lite-ply fins are part of the "positive" fin alignment system that assures you will get the fins on straight. The ejection baffle system keeps the big 30" fabric parachute from burning. Large colorful easy to apply self adhesive decals finish the kit.

This is the kit you should start with! Can be flown with E, F and G motors. (Enertek Catalog 891)

Editorial Note: This kit later became the Aerotech Initiator

Catalog Liveries

1989

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Enertek Initiator Family

Strong ARM (#8815)

MODEL NAME: **Strong ARM** *Also known as*:

NUMBER: #8815

Introduced:
Final Year:
Designer: Bob Sanford

Type: Pseudo scale
Motor Mount: 1x30mm
Recovery: Parachute
Stages: 1
Length: 42"
Diameter: 2.5"
Span:
Weight: 16 oz:

Mfg. Description: This scale-like model is styled after the real military Standard ARM missile. Standing over 42" tall, this rocket is an attention grabber. The kit features all pre-cut parts and a molded nose cone and tail section to make assembly easy. After you build this kit you'll want to finish it with the big detailed decal sheet that really makes the model. Impressive scale-like flights are what you'll get with E, F & G motors. (Entertek 1989 Catalog)

Editorial Note: This model became the Aerotech Strong ARM

Catalog Liveries

1989

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Enertek Strong ARM Family

Estes Industries

http://www.estesrockets.com

About Estes

Estes-Cox History Estes Industries was founded in 1958 in Denver, Colorado. Vern Estes developed a machine that mass-produced solid propellant model rocket engines.

This invention gave people a consistent and reliable way to launch model rockets. Later, the company branched out into the mass production of balsa nose cones and adapters for model rockets. Estes® began selling model rockets by mail in 1960.

The company was moved in 1961 to a 77-acre tract of land on the outskirts of Penrose, Colorado. Rapid growth followed and soon Penrose became known as the "Model Rocket Capital of the World". Estes Industries has grown to be the leading manufacturer of model rocket kits, engines and accessories in the world. COX® joined the Estes family of products in 1996.

For over 50 years, COX has been the choice of millions of families getting started in model airplane flying. COX products are designed for first time users who want the best start to a flying adventure and for more advanced fliers. Experience the magic of flying with COX Free Flying, Control Line or Radio Control aircraft. In January 2010, the Estes-Cox Corporation was purchased by Hobbico, a 100% Employee-Owned Corporation based in Champaign, Illinois, and will continue operations in Penrose, Colorado.

Industry leaders in their fields, Estes and COX will continue to turn kids and adults on to flight with innovative new products that will go FASTER, FURTHER AND HIGHER.

(Company Web Statement 2011)

Master List for **Estes** by Name

220 Swift	#0810	
36 D Squared	#2119	
Aero-Fin	#1390	
Aero-Hi	#0817	
AIM-9 Sidewinder	#2125	
AIM 120 AMRAAM	#2153	
Airborne Surveillance Missile	#0867	
Alien Explorer	#1372	
Alien Invader	#1281	
Alien Invader	#3003	
Alien Space Probe	#2038	
Alien Space Probe	#7502	*Limited Offer*
(Astron) Alpha	#1225	
(Aston) Alpha	K-25	
Alpha II	#1421	
Alpha II	EK-25	
(Astron) Alpha III	#1256	
(Astron) Alpha III	K-56	
(Astron) Alpha IV	#1258	
(Astron) Andromeda	#1273	
(Astron) Andromeda	K-73	
(Astron) Apogee	K-5	
(Astron) Apogee II	#1205	
(Astron) Apogee II	K-5	
ARCAS	#1226	
ARCAS	K-26	
Attack Craft Orion	#1374	
(Astron) Avenger	#1238	
(Astron) Avenger	K-38	
Baby Bertha	#1261	
Bail-Out	#2070	
Bandit	#1248	
Bandit	K-48	
(The) Bat	#1362	
(Astron) Big Bertha	#1223	
(Astron) Big Bertha	K-23	
Big Bertha	#1948	
Big Daddy	#2162	
Big Dawg	#2151	
Big Yank	#0868	*Mini Brute*
(Astron) Birdie	#1244	
(Astron) Birdie	K-44	
Birdie	#0844	*Mini Brute*
Birdie	TK-44	*Mini Brute*
Black Brant II	#1958	

Black Hole Space Probe	#1350	*The Black Hole*
Blazer	#1956	
Blue Bird Zero	#1335	
Bomarc	#0654	
Bomarc	#0657	
Bomarc	KC-5	
Bull Pup 12D	#1972	
Bull Pup 12D	#7000	
CC Express	#1302	
Cajun	#2028	
Canadian Arrow	#2188	*X-Prize*
Challenger II	#1330	
(Astron) Cherokee D	#1247	
(Astron) Cherokee D	K-47	
Chuter Two	#3009	*Centuri Reissue*
Cloud Hopper	#0851	*Goonybird*
(Astron) Cobra	#1210	
(Astron) Cobra	K-10	
Cobra 1500	#1294	
Colonial Viper	#1310	*Battlestar Galactica*
Comanche 3	#1382	
Comet Chaser	#3202	
Condor	#0807	*Mini Brute*
(Astron) Constellation	#1235	
(Astron) Constellation	K-35	
Corkscrew	#2114	
Cosmic Explorer	#3009	
Cosmos Mariner	#2190	*X-Prize*
Courier	#1911	
Crossbow SST	#3207	
Crossfire ISX	#1469	*Tandem-X Launch Set*
Crusader Swing Wing Glider	#1961	
Customizer	#1500	
D.A.R.T.	#1981	
D-Region Tomahawk	#1944	
D-Region Tomahawk	#2037	
Dark Star	#2045	
Death Star	#2143	*Star Wars*
Deep Space Transport	#2034	
Defender	#1924	
Delta Clipper	#2067	
Delta Star	#1322	
Der Big Red Max	#1403	*Starter Set*
Der Big Red Max	#1977	
Der Red Max	#0651	
Der Red Max	KC-2	
Dragon Ship 7	#1345	

EAC Viper	#0820	
Echo	#1950	
Eclipse	#0846	*Mini Brute*
Estes Starliner	#0863	*Mini Brute*
Explorer Aquarius	#2016	
Execution	#1951	
Exocet MM38		
(Astron) Falcon	#1213	
(Astron) Falcon	K-13	
(Astron) Farside	#1212	
(Astron) Farside	K-12	
(Astron) Farside X	#1261	
(Astron) Farside X	K-12X	
Fat Boy	#1273	*Launchables*
Fat Boy	#2139	
Gauchite	#0809	*X-Prize*
Geo Sat LV	#1977	
Gemini DC	#2136	
Gemini-Titan	#1221	
Gemini-Titan	K-21	
Gemini Titan	#1978	
Goblin	#1255	
Goblin	K-55	
Guardian	#2179	
(Astron) Gyroc	#1224	
(Astron) Gyroc	K-24	
Hawkeye	#0873	
Hercules	#1377	
Hi-Flier	#2178	
Hi Flier XL	#3226	
Honest John	#1227	
Honest John	#1919	
Honest John	K-27	
(Maxi) Honest John	#2166	*Maxi Brute, Reissue*
Hornet	#0804	*Mini Brute*
Hornet	#3037	*Centuri Reissue*
Hornet	TK-4	*Mini Brute*
Hyper Bat	#7217	
Icarus	#1277	
Icarus	K-77	
Interceptor	#1250	
Interceptor	K-50	
Interceptor E	#1350	
(Astron) Invader	#1219	
(Astron) Invader	K-19	
Javelin	#0815	*Mini Brute*
Jayhawk	#2085	*Pro Series*

Leviathan	#9700	*Pro Series II*
Little Joe II	#0892	
Little John	#0819	*Mini Brute*
Long Tom	#3016	*Centuri Reissue*
Lucky Seven	#0807	*X-Prize*
Mach-2	#1379	
Magician	#2440	
Magnum	#2032	
(Astron) Mark	#1202	
(Astron) Mark	K-2	
(Astron) Mark II	#1202	
(Astron) Mark II	K-2A	
Mars Lander	#1243	
Mars Lander	K-43	
Mars Snooper	#1220	
Mars Snooper	#2063	*Collector's Series*
Mars Snooper	K-20	
Mars Snooper II	#1220	
Mars Snooper II	K-20	
Maxi Alpha	#1291	*Maxi Brute*
Maxi Alpha 3	#1321	
Maxi Alpha 3	#1903	
Maxi-Brute V-2	#1952	*Maxi Brute*
Maxi Honest John	#1269	*Maxi Brute*
Maxi Streak	#1387	
Maxi V-2	#1267	*Maxi Brute*
Maxi V-2	K-67	*Maxi Brute*
Mean Machine	#1295	
Mega Mosquito	#1335	
Menace	#2173	
Mercury Atlas	#2111	
Mercury Redstone	#1241	
Mercury Redstone	#1921	
Mercury Redstone	K-41	
Metalizer	#2168	
Micron	#0876	
Midget	#0840	*Mini Brute*
(Astron) Midget	#1240	
(Astron) Midget	K-40	
Midget	TK-40	*Mini Brute*
Mini Bertha	#0803	*Mini Brute*
Mini Bertha	TK-3	*Mini Brute*
Mini Bomarc	#0805	*Mini Brute*
Mini Bomarc	TK-5	*Mini Brute*
Mini Cobra	#0898	
Mini Honest John	#2446	
Mini Max	#2445	

Mini Mean Machine	#0865	*Mini Brute*
Mini Meanie	#1202	
Mini Patriot	#0896	
Mini R2-D2	#1835	*Star Wars*
Mk-109 Stingray	#1232	*Launchables*
Mk-109 Stingray	#2131	
Monarch	#2172	
Monarch	#7214	
Mongoose	#2092	
Moon Mutt	#1476	*EX2 Starter Set*
Mosquito	#0801	*Mini Brute*
Mosquito	#1335	
Mosquito	TK-1	*Mini Brute*
NASA Pegasus	#1376	
National Aerospace Plane	#2037	
Nemesis	#2175	
Nike Ajax	#1279	
Nike Apache	#1957	
Nike Smoke	#9704	*Pro Series II*
Nike-X	#1270	
Nike-X	K-70	
Ninja	#0882	
Nova Payloader	#1960	
Odyssey	#1289	
(Aston) Omega	#1252	
(Aston) Omega	K-52	
Optima	#2935	
Orbital Interceptor	#1359	
Orbital Transport	#1242	
Orbital Transport	#1259	
Orbital Transport	K-42	
Outlander	#2110	
Pathfinder	#1997	
Patriot	#0652	*Citation*
Patriot	#1450	*EX2 Starter Set*
Patriot	#1825	*RTF Starter Set*
Patriot	#1843	*RTF Starter Set*
Patriot	KC-3	*Citation*
Patriot	MK-3	*Citation*
Patriot Missile	#2056	
Patriot Missile	#2066	*Pro Series*
Patrol Cruiser Excalibur	#1339	
Payloader II	#3022	*Centuri Reissue*
Pegasus	#0806	*Mini Brute*
(Astron) Phantom	#1207	
Phantom	#1264	
(Astron) Phantom	K-7	

Phantom	K-7B	
Pheonix	#1380	
Photon Disruptor	#1282	
Photon Disruptor	#3025	
Photon Disruptor II	#2052	
Photon Probe	#2043	
Photon Probe	#3026	
Plasma Probe	#3211	
Polaris	#2174	
Prime Number Explorer	#0891	
Python 4 ASRAAM	#1245	*Launchables*
Python 4 ASRAAM	#2054	
Quark	#0802	
QCC Explorer	#3221	
R2-D2	#1301	*Star Wars*
R2-D2	#1395	*Star Wars*
R2-D2	#1823	*Star Wars*
R2-D2	#2104	*Star Wars*
R2-D2	#2142	*Star Wars*
Rainmaker	#2009	
Ram Jet (Astron) Ranger	#1206	
(Astron) Ranger	K-6	
Rascal	#2021	
Raven	#2029	
Red Alert	#0893	
Rogue	#0818	
(Naboo) Royal Starship	#1830	*Star Wars*
Satellite Interceptor	#1296	
Satellite Interceptor	#3027	
Saturn 1B	#1229	
Saturn 1B	#2048	
Saturn 1B	K-29	
Saturn V	#1236	*Maxi Brute*
Saturn V	#2001	
Saturn V	#2157	
Saturn V	K-36	
Scamp	#1101	*Cold Power*
Scamp	KL-1	*Cold Power*
(Astron) Scout	#1201	
(Astron) Scout	K-1	
Semi-Scale Saturn V	#1239	
Semi-Scale Saturn V	K-39	
Sentinel	#1987	
Shadow	#2094	
(Astron) Sky Hook	#1208	
(Astron) Sky Hook	K-8	

(Astron) Skydart	#1257	
(Astron) Skydart	K-57	
Solar Probe	#2051	
(Astron) Space Plane	#1203	
(Astron) Space Plane	K-3	
(Astron) Spaceman	#1209	
(Astron) Spaceman	K-9	
Spin Fin	#1355	
(Astron) Sprint	#1249	
(Astron) Sprint	K-49	
(Astron) Sprite	#1215	
(Astron) Sprite	K-15	
Star Stryker	#3206	
Star Trooper	#3031	*Centuri Reissue*
Starship Vega	#0653	*Citation*
Starship Vega	#1320	
Starship Vega	KC-4	*Citation*
(Astron) Streak	#1204	
(Astron) Streak	K-4	
Super Alpha	#3216	
Super Big Bertha	#2018	
Super Big Bertha	#2165	
Super Vega	#2036	
Teros	#1105	*Cold Power*
Teros	#1285	
Teros	KL-5	*Cold Power*
Tornado	#2004	
(Astron) Trident	#1233	
(Astron) Trident	K-33	
Trident II	#2033	
Twister	#1449	*Super Shot Starter Set*
US Army Patriot M-104	#1248	*Launchables*
US Army Patriot M-104	#2056	
V-2	#1222	
V-2	#1926	
V-2	K-22	
Vagabond	#3217	
Ventris	#9701	*Pro Series II*
Viking	#1755	*Bulk Pack*
Viking	#1949	
WAC Corporal	#1211	
WAC Corporal	K-11	
Wizard	#1292	
X-Ray	#1218	
(Astron) X-Ray	K-18	
Yellow Jacket	#2008	
Yellow Jacket	#7005	

Master List for **Estes** by Number

#0651	Der Red Max	
#0652	Patriot	*Citation*
#0653	Starship Vega	*Citation*
#0654	Bomarc	
#0657	Bomarc	
#0801	Mosquito	*Mini Brute*
#0802	Quark	
#0803	Mini Bertha	*Mini Brute*
#0804	Hornet	*Mini Brute*
#0805	Mini Bomarc	*Mini Brute*
#0806	Pegasus	*Mini Brute*
#0807	Condor	*Mini Brute*
#0807	Lucky Seven	*X-Prize*
#0809	Gauchito	*X-Prize*
#0810	220 Swift	
#0815	Javelin	*Mini Brute*
#0817	Aero-Hi	*Mini Brute*
#0818	Rogue	*Mini Brute*
#0819	Little John	*Mini Brute*
#0820	EAC Viper	
#0840	Midget	*Mini Brute*
#0844	Birdie	*Mini Brute*
#0846	Eclipse	*Mini Brute*
#0851	Cloud Hopper	*Goonybird*
#0863	Estes Starliner	*Mini Brute*
#0865	Mini Mean Machine	*Mini Brute*
#0867	Airborne Surveillance Missile	
#0868	Big Yank	*Mini Brute*
#0873	Hawkeye	
#0876	Micron	
#0882	Ninja	
#0891	Prime Number Explorer	
#0892	Little Joe II	
#0893	Red Alert	
#0896	Mini Patriot	
#0898	Mini Cobra	
#1101	Scamp	*Cold Power*
#1105	Teros	*Cold Power*
#1201	(Astron) Scout	
#1202	(Astron) Mark	
#1202	(Astron) Mark II	
#1202	Mini Meanie	
#1203	(Astron) Space Plane	
#1204	(Astron) Streak	
#1205	(Astron) Apogee II	

#1206	(Astron) Ranger	
#1207	(Astron) Phantom	
#1208	(Astron) Sky Hook	
#1209	(Astron) Spaceman	
#1210	(Astron) Cobra	
#1211	WAC Corporal	
#1212	(Astron) Farside	
#1213	(Astron) Falcon	
#1215	(Astron) Sprite	
#1218	(Astron) X-Ray	
#1219	(Astron) Invader	
#1220	Mars Snooper	
#1220	Mars Snooper II	
#1221	Gemini-Titan	
#1222	V-2	
#1223	(Astron) Big Bertha	
#1224	(Astron) Gyroc	
#1225	(Astron) Alpha	
#1226	ARCAS	
#1227	Honest John	
#1229	Saturn 1B	
#1232	Mk-109 Stingray	*Launchables*
#1233	(Astron) Trident	
#1235	(Astron) Constellation	
#1236	Saturn V	*Maxi Brute*
#1238	(Astron) Avenger	
#1239	Semi-Scale Saturn V	
#1240	(Astron) Midget	
#1242	Orbital Transport	
#1241	Mercury Redstone	
#1243	Mars Lander	
#1244	(Astron) Birdie	
#1245	Python 4 ASRAAM	*Launchables*
#1247	(Astron) Cherokee D	
#1248	Bandit	
#1248	US Army Patriot M-104	*Launchables*
#1249	(Astron) Sprint	
#1250	Interceptor	
#1252	(Astron) Omega	
#1255	(Astron) Goblin	
#1256	(Astron) Alpha III	
#1257	(Astron) Skydart	
#1258	(Astron) Alpha IV	
#1259	Orbital Transport	
#1261	Baby Bertha	
#1261	(Astron) Farside X	
#1264	Phantom	

#1267	Maxi V-2	*Maxi Brute*
#1269	Maxi Honest John	*Maxi Brute*
#1270	Nike-X	
#1273	(Astron) Andromeda	
#1273	Fat Boy	*Launchables*
#1277	Icarus	
#1279	Nike Ajax	
#1281	Alien Invader	
#1282	Photon Disruptor	
#1285	Teros	
#1289	Odessey	
#1291	Maxi Alpha	
#1292	Wizard	
#1294	Cobra 1500	
#1295	Mean Machine	
#1296	Satellite Interceptor	
#1301	R2-D2	*Star Wars*
#1302	CC Express	
#1310	Colonial Viper	*Battlestar Galactica*
#1320	Starship Vega	*Citation*
#1321	Maxi Alpha 3	
#1322	Delta Star	
#1330	Challenger II	
#1335	Blue Bird Zero	
#1335	Mega Mosquito	
#1335	Mosquito	
#1339	Patrol Cruiser Excalibur	
#1345	Dragon Ship 7	
#1350	Black Hole Space Probe	*The Black Hole*
#1350	Interceptor E	
#1355	Spin Fin	
#1359	Orbital Interceptor	
#1362	(The) Bat	
#1372	Alien Explorer	
#1374	Attack Craft Orion	
#1376	NASA Pegasus	
#1377	Hercules	
#1379	Mach-2	
#1380	Phoenix	
#1382	Comanche 3	
#1387	Maxi Streak	
#1390	Aero-Fin	
#1395	R2-D2	*Star Wars*
#1403	Der Big Red Max	*Starter Set*
#1421	Alpha II	
#1449	Twister	*Super Shot Starter Set*
#1450	Patriot	*EX2 Starter Set*

#1469	Crossfire ISX	*Tandem-X Launch Set*
#1476	Moon Mutt	*EX2 Starer Set*
#1500	Customizer	
#1755	Viking	*Bulk Pack*
#1823	R2-D2	*Star Wars*
#1825	Patriot	*RTF Starter Set*
#1830	(Naboo) Royal Starship	*Star Wars*
#1835	Mini R2-D2	*Star Wars*
#1843	Patriot	*RTF Starter Set*
#1903	Maxi Alpha 3	
#1911	Courier	
#1919	Honest John	
#1921	Mercury Redstone	
#1924	Defender	
#1925	Exocet MM38	
#1926	V-2	
#1944	D-Region Tomahawk	
#1948	Big Bertha	
#1949	Viking	
#1950	Echo	
#1951	Executioner	
#1952	Maxi-Brute V-2	*Maxi Brute*
#1956	Blazer	
#1957	Nike Apache	
#1958	Black Brant II	
#1960	Nova Payloader	
#1961	Crusader Swing Wing Glider	
#1972	Bull Pup 12D	
#1977	Der Big Red Max	
#1977	Geo Sat LV	
#1978	Gemini Titan	
#1981	D.A.R.T.	
#1987	Sentinel	
#1994	Ram Jet	
#1997	Pathfinder	
#2001	Saturn V	
#2004	Tornado	
#2008	Yellow Jacket	
#2009	Rainmaker	
#2016	Explorer Aquarius	
#2018	Super Big Bertha	
#2021	Rascal	
#2028	Cajun	
#2029	Raven	
#2032	Magnum	
#2033	Trident II	
#2034	Deep Space Transport	

#2035	Optima	
#2036	Super Vega	
#2037	D-Region Tomahawk	
#2037	Nastional Aerospace Plane	
#2038	Alien Space Probe	
#2043	Photon Probe	
#2045	Dark Star	
#2048	Saturn 1B	
#2051	Solar Probe	
#2052	Photon Disruptor II	
#2054	Python 4 ASRAAM	
#2056	Patriot Missile	
#2063	Mars Snooper	*Collector's Series*
#2066	Patriot Missile	*Pro Series*
#2067	Delta Clipper	
#2070	Bail-Out	
#2085	Jayhawk	*Pro Series*
#2092	Mongoose	
#2094	Shadow	
#2104	R2-D2	*Star Wars*
#2110	Outlander	
#2111	Mercury Atlas	
#2114	Corkscrew	
#2119	36 D Squared	
#2125	AIM-9 Sidewinder	
#2131	Mk-109 Stingray	
#2136	Gemini DC	
#2139	Fat Boy	
#2142	R2-D2	*Star Wars*
#2143	Death Star	*Star Wars*
#2151	Big Dawg	
#2153	AIM 120 AMRAAM	
#2157	Saturn V	
#2162	Big Daddy	
#2165	Super Big Bertha	
#2166	(Maxi) Honest John	*Maxi Brute, Reissue*
#2168	Metalizer	
#2172	Monarch	
#2173	Menace	
#2174	Polaris	
#2175	Nemesis	
#2178	Hi-Flier	
#2179	Guardian	
#2188	Canadian Arrow	*X-Prize*
#2190	Cosmos Explorer	*X-Prize*
#2440	Magician	
#2445	Mini Max	

#2446	Mini Honest John	
#3003	Alien Invader	
#3009	Chuter Two	*Centuri Reissue*
#3009	Cosmic Explorer	
#3016	Long Tom	*Centuri Reissue*
#3022	Payloader II	*Centuri Reissue*
#3025	Photon Disruptor	
#3026	Photon Probe	
#3027	Satellite Interceptor	
#3031	Star Trooper	*Centuri Reissue*
#3037	Hornet	*Centuri Reissue*
#3202	Comet Chaser	
#3206	Star Stryker	
#3207	Crossbow SST	
#3211	Plasma Probe	
#3216	Super Alpha	
#3217	Vagabond	
#3221	QCC Explorer	
#3226	Hi Flier XL	
#7000	Bull Pup 12D	
#7005	Yellow Jacket	
#7214	Monarch	
#7217	Hyper Bat	
#7502	Alien Space Probe	*Limited Offer*
#9700	Leviathan	*Pro Series II*
#9701	Ventris	*Pro Series II*
#9704	Nike Smoke	*Pro Series II*
EK-25	Alpha II	
K-1	(Astron) Scout	
K-2	(Astron) Mark	
K-2A	(Astron) Mark II	
K-3	(Astron) Space Plane	
K-4	(Astron) Streak	
K-5	(Astron) Apogee	
K-5	(Astron) Apogee II	
K-6	(Astron) Ranger	
K-7	(Astron) Phantom	
K-7B	Phantom	
K-8	(Astron) Sky Hook	
K-9	(Astron) Spaceman	
K-10	(Astron) Cobra	
K-11	WAC Corporal	
K-12	(Astron) Farside	
K-12X	(Astron) Farside X	
K-13	(Astron) Falcon	

K-15	(Astron) Sprite	
K-18	(Astron) X-Ray	
K-19	(Astron) Invader	
K-20	Mars Snooper	
K-20	Mars Snooper II	
K-21	Gemini-Titan	
K-22	V-2	
K-23	(Astron) Big Bertha	
K-24	(Astron) Gyroc	
K-25	(Astron) Alpha	
K-27	Honest John	
K-29	Saturn 1B	
K-33	(Astron) Trident	
K-35	(Astron) Constellation	
K-36	Saturn V	*Maxi Brute*
K-38	(Astron) Avenger	
K-39	Semi-Scale Saturn V	
K-26	ARCAS	
K-40	(Astron) Midget	
K-41	Mercury Redstone	
K-42	Orbital Transport	
K-43	Mars Lander	
K-44	(Astron) Birdie	
K-47	(Astron) Cherokee D	
K-48	Bandit	
K-49	(Astron) Sprint	
K-50	Interceptor	
K-52	(Astron) Omega	
K-55	(Astron) Goblin	
K-56	(Astron) Alpha III	
K-57	(Astron) Skydart	
K-67	Maxi V-2	*Maxi Brute*
K-70	Nike-X	
K-73	(Astron) Andromeda	
K-77	Icarus	
KC-2	Der Red Max	
KC-3	Patriot	*Citation*
KC-4	Starship Vega	*Citation*
KC-5	Bomarc	
KL-1	Scamp	*Cold Power*
KL-5	Teros	*Cold Power*
MK-3	Patriot	*Citation*
TK-1	Mosquito	*Mini Brute*

TK-3	Mini Bertha	*Mini Brute*
TK-4	Hornet	*Mini Brute*
TK-5	Mini Bomarc	*Mini Brute*
TK-40	Midget	*Mini Brute*
TK-44	Birdie	*Mini Brute*

220 Swift (#0810)

MODEL NAME: **220 Swift** *Also known as*:

NUMBER: #0810

Introduced: 2004
Final Year:
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Tumble
Stages: 1
Length: 4.5"
Diameter: 0.54"
Span:
Weight: 0.094 oz

Mfg. Description: This fun and easy to build "itty-bitty" rocket really scoots through the sky. The 220 Swift is sleek and launches on mini-engines then tumbles back to earth. (Estes 2004 Catalog)

Editorial Note:

Catalog Liveries

2004

2005

2006

2007

2010

Web Liveries

2011

Face Card(s)

Also of interest: Estes 220 Swift Family

36 D Squared (#2119)

MODEL NAME: **36 D Squared** *Also known as*:

NUMBER: #2119

IIntroduced: 2006
Final Year: 2009
Designer:

Out Of Production

Type: Sport, Cluster, Payload
Motor Mount: 2x24mm
Recovery: Parachute
Stages: 1
Length: 36"
Diameter: 2.217"
Span:
Weight: 5.7 oz

Mfg. Description: What a beauty! This is the one you've been dreaming about. It's got the full package. Sleek, yet full body design, a payload section, laser cut fins and water slide decals. The rocket launches on two Estes D sized model rocket engines and is recovered by a large 24" parachute. (Estes 2006 Catalog)

Catalog Liveries

2006

2007

2008

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Aero-Fin (#1390)

MODEL NAME: **Aero-Fin** *Also known as*:

NUMBER: #1390

Introduced: 1983
Final Year: 1985
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 11.62"
Diameter: 0.736"
Span:
Weight: 0.53 oz

Mfg. Description: Unique five fin design. Flights over 1200' with 18" streamer recovery. (Estes 1983 Catalog)

Catalog Liveries

1984

1985

Face Card(s)

Also of interest:

Aero-Hi (#0817)

MODEL NAME: **Aero-Hi** *Also known as*:

N 1UMBER: #0817

Introduced: 1973
Final Year: 1975
Designer:

Type: Pseudo Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 11.6"
Diameter: 0.736"
Span:
Weight: 0.75 oz

Out Of Production

Mfg. Description: A sounding rocket vehicle of scale-like appearance. High performance design with realistic decor. Features fin strap-on and payload coupler decals, ogive nose cone. (Estes 1973 Catalog)

Catalog Liveries

1973

Web Liveries

Face Card(s)

Also of interest:

AIM-9 Sidewinder (#2125)

MODEL NAME: **AIM-9 Sidewinder** *Also known as*:

NUMBER: #2125

Introduced: 1996
Final Year: 2000
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 30.2"
Diameter: 1.325"
Span:
Weight: 4.2 oz

Out Of Production

Mfg. Description: Beta Series - Skill Level 1
Giant 1/4 Scale model of the authentic air to air missile
Realistic Sport Scale Appearance
Detailed plastic molded nose cone and decals
Slotted body tube and nose section for fin alignment
(Estes 1996 Catalog)

Editorial Note:

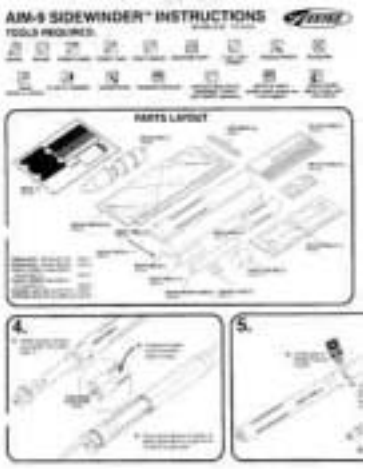
Catalog Liveries

1996

Web Liveries

Face Card(s)

Instruction Header



Also of interest: AIM 9 Sidewinder Ordnance Family

AIM 120 AMRAAM (#2153)

MODEL NAME: **AIM 120 AMRAAM** *Also known as*:

NUMBER: #2153

Introduced: 1998
Final Year: 2001
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 27.5"
Diameter: 1.33"
Span:
Weight: 4.2 oz

Out Of Production

Mfg. Description: This is a stellar looking scale military rocket of the US Air Force air-to-air missile. The Estes version of the AMRAAM features high quality die cut balsa fins, slotted body tubes and extremely detailed self-adhesive decals (taken from actual blueprints). Create excitement in the air with this authentic air combat flying model rocket. (Estes 1998 Catalog)

Editorial Note:

Catalog Liveries

1998

Web Liveries

Face Card(s)

Instruction Header

Also of interest: AIM-120 AMRAAM Ordinance Family

Airborn Surveillance Missile (#0867)

MODEL NAME: **Airborn Surveillance Missile** *Also known as*:

NUMBER: #0867

Introduced: 1983
Final Year: 1985
Designer:

Type: Pseudo Scale
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 11.4"
Diameter: 0.976"
Span:
Weight: 0.71 oz

Mfg. Description: Unique scale-like appearance and a challenging build. (Estes 1983 Catalog)

Catalog Liveries

1983

1984

Web Liveries

Face Card(s)

Also of interest:

Alien Explorer (#1372)

MODEL NAME: **Alien Explorer** *Also known as*:

NUMBER: #1372

Introduced: 1981
Final Year: 1982
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 45"
Diameter: 0.976"
Span:
Weight: 2.43 oz

Mfg. Description: Incredible alien starship believed to be from a distant galaxy, is it friend or foe? Its size and unique appearance make it a most dramatic demonstration and display model. Really spectacular lift off and recovery. (Estes 1981 Catalog)

Editorial Note:

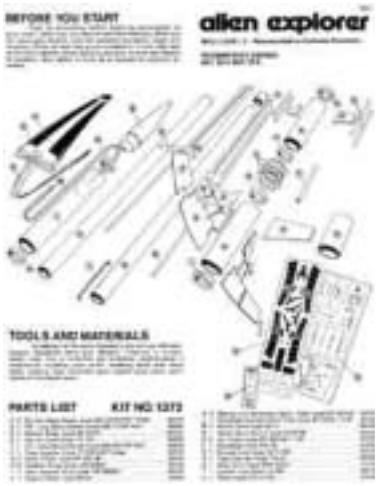
Catalog Liveries

1981

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Alien Explorer Family

Alien Invader (#1281)

MODEL NAME: **Alien Invader** *Also known as*:

NUMBER: #1281

Introduced: 1976
Final Year: 1981
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 20.5"
Diameter: 0.976"
Span:
Weight: 1.62 oz

Mfg. Description: By computer enhancement of declassified portions of sensor readings, Estes engineers have produced a replica of the Alien Invader spacecraft. Available data indicates alien spacecraft capable of limited atmospheric operations. Precise crew complement, internal features and weaponry not determined from sensor data secured by Rigel IV outpost before aliens disengaged and fled. You model includes a plastic forward command hull, engine engineering section, and outboard atmospheric propulsion units. Kit is complete with die-cut balsa parts, quick release engine mount, 12" chute and unusual battle insignia decals. (Estes 1976 Catalog)

Catalog Liveries

1976

1977

Web Liveries

Face Card(s)

Also of interest:

5 8 8

Alien Invader (#3003)

MODEL NAME: **Alien Invader** *Also known as*:

NUMBER: #3003

Introduced: 2010
Final Year:
Designer:

Type: Exotic, Reissue
Motor Mount: 1x18
Recovery: Parachute
Stages: 1
Length: 20.2 in. (51.3 cm)
Diameter: 0.98 in. (25 mm)
Span:
Weight: 2.4 oz. (25 g)

Mfg. Description: The Alien Invader is yet another great rocket from days gone by. Another great addition to our Classic Series line, this rocket is a must-have for all serious rocketeers! Estes is once again proud to reintroduce you to another Classic!

A high quality plastic nose cone, laser cut wood fins and waterslide decals mimic the original kit. Any changes Estes made only enhanced this classic kit. (Estes 2011 Web Ad)

Catalog Liveries

2010

Web Liveries

Face Card(s)

Also of interest: Estes Alien Invader (#1281)

Alien Space Probe (#2038)

MODEL NAME: **Alien Space Probe** *Also known as*:

NUMBER: #2038

Introduced: 1990
Final Year: 1992
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 17.75"
Diameter: 2.6"
Span:
Weight: 3.51 oz

Mfg. Description: Designed to resemble a landing craft used in the exploration of planets, moons, and asteroids, this rocket delivers excitement! Fly it to heights of 525 feet and watch it return to earth with an 18" parachute recovery system. (Estes 1990 Catalog)

Catalog Liveries

1990

1991

Face Card(s)

Also of interest:

Alien Space Probe (#7502)

MODEL NAME: **Alien Space Probe** *Also known as*: Special Offer Space Probe

NUMBER: #7502

Introduced: 1992
Final Year: 1992
Designer:

Out Of Production

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 17.75"
Diameter: 2.6"
Span:
Weight: 3.51 oz

Mfg. Description:

Catalog Liveries

1992

Web Liveries

Face Card(s)

Note: Available only as part of a special offer in the 1992 catalog.

Also of interest:

(Astron) Alpha (K-25 or #1225)

MODEL NAME: **Astron Alpha** *Also known as*: Alpha

NUMBER: K-25 or #1225

Introduced: 1966
Final Year:
Designer: Bill Simon

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.3 in. (31.2 cm)
Diameter: 0.98 in. (25 mm)
Span:
Weight: 0.8 oz. (23 g)

Mfg. Description: When a rocket has been sold to millions of model rocketeers for over three decades, there has to be a reason. With its high quality components, easy assembly and reliable performance, the Estes Alpha has become the all time leading entry level rocket!

With a rocket this well known you are bound to get compliments from fellow rocketeers on choosing such a thoroughbred. The Alpha is a classic Skill Level 1 kit that includes a one piece body tube, laser cut wood fins and an aerodynamic nose cone that completes the sleek look.

Building this speed merchant takes about an afternoon and flying is just as easy and enjoyable as building this classic. When powered with a C engine, the rocket can reach cloud topping altitudes of 1,000 feet. Recovery of this aerodynamic wonder is accomplished with a colorful 12 inch preassembled parachute.

Its suggested color scheme and classy red, white and blue decals are as American as you can get. You'll feel patriotic building this sleek and colorful rocket as well as flying it. Get an Alpha and start flying today! (Estes 2011 Web Ad)

Catalog Liveries

1967

1968

1969

1970

1971

1972

1973

1975

1977

1981

1982

1983

1985

1991

1993

1995

1998

2003

2004

2005

2006

2007

2008

2010

Web Liveries

Face Card(s)

(Astron) Alpha II (EK-25 or #1421)

MODEL NAME: **Astron Alpha II** *Also known as*: Alpha II

NUMBER: EK-25 or #1421

Introduced:
Final Year:
Designer:

Type: Sport, Educational
Motor Mount: 1x18mm
Recovery: Parachute
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest:

(Astron) Alpha III (K-56 or #1256)

MODEL NAME: **Astron Alpha III** *Also known as*: Alpha III

NUMBER: K-56 or #1256

Introduced: 1971
Final Year:
Designer: Mike Dorffler

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.25"
Diameter: 0.976"
Span:
Weight: 1.2 oz

Mfg. Description: Just like the Alpha except it's easier to assemble and fly! Plastic nose cone and fins. (Estes 1971 Catalog)

Catalog Liveries

1971

1973

1975

1978

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2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest: Estes Alpha, Alpha II, Alpha IV

(Astron) Alpha IV (#1258)

MODEL NAME: **Astron Alpha IV** *Also known as*: Alpha IV

NUMBER: #1258

Introduced: 1998
Final Year: 1998
Designer:

Type: Sport, Commemorative
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Web Liveries

Face Card(s)

(Astron) Andromeda (K-73 or #1273)

MODEL NAME: **Astron Andromeda** *Also known as*: Andromeda, U.S.S. Andromeda

NUMBER: K-73 or #1273

Introduced: 1975
Final Year: 1982
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 43.3"
Diameter: 0.736"
Span: 11.8"
Weight: 3.0 oz

Out Of Production

Mfg. Description: Designed for journeys to distant planets this incredible "Starship of the Future" will be an outstanding addition to your model rocket collection. Performing interplanetary missions within the galaxy, our engineers' conception of the actual ship features simulated hybrid fission ion propulsion engines, forward crew module and colorful mission decor. This beauty is over 43" long and represents a unique entry to our own Starship Fleet. Kit features include die-cut parts, highly detailed decals and quick release engine mount. Andromeda's flights are of course most spectacular, especially with giant 18" chute recovery. (Estes 1975 Catalog)

Catalog Liveries

1975

1977

1981

Web Liveries

Face Card(s)

Also of interest:

(Astron) Apogee (K-5)

MODEL NAME: **Astron Apogee** *Also known as*: Apogee

NUMBER: K-5

Introduced: 1962
Final Year: 1963
Designer: Bill Simon

Type: Sport, Payload, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 12.2"
Diameter: 0.736"
Span:
Weight: 0.55 oz

Mfg. Description: High performance two stage rocket. The Astron Apogee is the first two stage kit designed specifically for payload research. Kit comes with large capacity transparent payload compartment! Now you can launch payloads to high altitudes and observe the condition of the payload without removing it from the rocket. Excellent for use with science fair projects. The Astron Apogee gives thrilling performance because of its superior aerodynamic form and extremely light weight - - only 1/2 ounce with booster, payload section and parachute in place. The Astron Apogee kit comes complete with parachute, payload section, and full instructions for assembly and flight. May be flown either with or without payload section. (Estes 1963 Catalog)

Editorial Note:

Catalog Liveries

1963

Face Card(s)

Instruction Header

Also of interest: Estes Apogee Family

(Astron) Apogee II (K-5 or #1205)

MODEL NAME: **Astron Apogee II** *Also known as*: Apogee II

NUMBER: K-5 or #1205

Introduced: 1963
Final Year: 1981
Designer: Bill Simon

Type: Sport, Payload, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 12.2"
Diameter: 0.736"
Span:
Weight: 0.55 oz

Mfg. Description: High performance two stage rocket. The Astron Apogee is the first two stage kit designed specifically for payload research. Kit comes with large capacity transparent payload compartment! Now you can launch payloads to high altitudes and observe the condition of the payload without removing it from the rocket. Excellent for use with science fair projects. The Astron Apogee gives thrilling performance because of its superior aerodynamic form and extremely light weight - - only 1/2 ounce with booster, payload section and parachute in place. The Astron Apogee kit comes complete with parachute, payload section, and full instructions for assembly and flight. May be flown either with or without payload section. (Estes 1963 Catalog)

Catalog Liveries

1963

1964

1966

1967

1968

1969

1970

1971

1972

1973

1975

1977

1981

Web Liveries

Face Card(s)

Also of interest: Estes Apogee Family

Arcas (K-26 or #1226)

MODEL NAME: **Arcas** *Also known as*:

NUMBER: K-26 or #1226

Introduced: 1966
Final Year: 1977
Designer:

Type: Scale
Recovery: Parachute
Stages: 1
Length: 22.82"
Diameter: 1.325"
Span: 3.82"
Weight: 1.44 oz.

Mfg. Description: Precise scale model of the famous ARCAS sounding rocket. A handsome model to display, an exciting one to launch. Zooms hundreds of feet into the sky, return's gently by its 18" multi-color parachute ready for a fresh engine and another flight. Easily assembled, kit comes complete with all parts, decal and instruction. (Estes 1967 Catalog)

Editorial Note:

Catalog Liveries

1967

1970

1971

1972

1973

1975

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Arcase Sounding Rocket Family

Attack Craft Orion (#1374)

MODEL NAME: **Attack Craft Orion** *Also known as*:

NUMBER: #1374

Introduced: 1982
Final Year: 1984
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.3"
Diameter: 0.976"
Span:
Weight: 1041 oz

Mfg. Description: Unique design for dramatic space fighter of the future with quad mounted laser cannons in nose and dual fusion reaction engines. Flies to over 1300 feet with C engine. (Estes 1982 Catalog)

Catalog Liveries

1982

1983

1984

Web Liveries

Face Card(s)

Also of interest:

(Astron) Avenger (K-38 or #1238)

MODEL NAME: **Astron Avenger** *Also known as*: Avenger

NUMBER: K-38 or #1238

Introduced: 1969
Final Year: 1981
Designer: Bill Simon

Type: Sport, Payload, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 32"
Diameter: 1.325"
Span:
Weight: 2.7 oz

Mfg. Description: Long slender lines give this bird the appearance of a sounding rocket. Two stage design gives the Astron Avenger high altitude capabilities for sport or demonstration flights. A clean, good-looking rocket, it gives great flights and is an impressive addition to your fleet. Large 18" parachute brings payload section back gently, while booster section flutters in softly. Comes complete with all parts, instructions and TR-2 on staging. (Estes 1969 Catalog

Editorial Note:

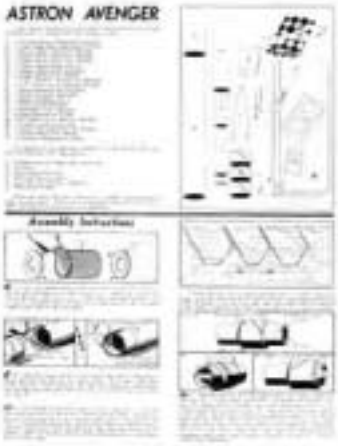
Catalog Liveries

1969

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Avenger Family

Baby Bertha (#1261)

MODEL NAME: **Baby Bertha** *Also known as*:

NUMBER: #1261

Introduced: 2002
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.75 in. (32.4 cm)
Diameter: 1.64 in. (42 mm)
Span:
Weight: 2.1 oz. (58.2 g)

Mfg. Description: The Baby Bertha is a half-sized version of one of Estes' most popular rockets, the Big Bertha. We took the great looks of the original design and shrunk it down to just under 13 inches making it an ideal Skill Level 1 building experience. The result of this engineering effort is a sky grabbing, high performance mini version of its bigger cousin, but in a smaller and easier to build model rocket.

The Estes Baby Bertha is a Skill Level 1 kit, which requires assembly and can be built and finished in just a few hours. You can paint this high flying rocket like the package or create your own Go Wild design! The kit features the distinctive looking laser cut wood fins, a blow molded nose cone and easy to apply self-stick decals. When powered with standard C engines, it can streak to over 575 feet and is easily recovered with the aid of a colorful 12 inch preassembled parachute.

Complete your set of Berthas with the addition of this mini missile today! (Estes 2011 Web Ad)

Catalog Liveries

2002

2003

2004

2005

2006

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest: Estes Big Bertha

Bail-Out (#2070)

MODEL NAME: **Bail-Out** *Also known as*:

NUMBER: #2070

Introduced: 1992
Final Year: 1998
Designer:

Type: Sport, "Payload (Toy Soldier)"
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24.5"
Diameter: 1.637"
Span:
Weight: 3.07 oz

Mfg. Description: Action figure bails out of rocket. (Estes 1992 Catalog)

Editorial Note:

Catalog Liveries

1992

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Bandit (K-48 or #1248)

MODEL NAME: **Bandit** *Also known as*:

NUMBER: K-48 or #1248

Introduced: 1970
Final Year: 1982
Designer:

Type: Sport, Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 25.75"
Diameter: 1.325"
Span:
Weight: 2.6 oz

Mfg. Description: Features a new Ejection Ducting System so there's no need for recovery wadding. The Bandit has military rocket styling. The advanced recovery system will further your knowledge of model rocketry techniques. (Estes 1972 Catalog)

Catalog Liveries

1972

1973

1975

1977

1981

Web Liveries

Face Card(s)

Also of interest:

The Bat (#1362)

MODEL NAME: **The Bat** *Also known as*:

NUMBER: #1362

Introduced: 1981
Final Year: 1984
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 16.63"
Diameter: 0.976"
Span:
Weight: 0.92 oz

Out Of Production

Mfg. Description: Unique sport model with far-out "BAT" decor. Easy to build. Delivers great flights to over 1,000 feet and returns via 90" long streamer. (Estes 1981 Catalog)

Catalog Liveries

1981

1983

Web Liveries

Face Card(s)

Also of interest:

6 2 0

(Astron) Big Bertha (K-23 or #1223)

MODEL NAME: **Astron Big Bertha** *Also known as*: Big Bertha

NUMBER: K-23 or #1223

Introduced: 1965
Final Year: 1985
Designer: Vern Estes

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24"
Diameter: 1.6"
Span:
Weight: 2.25 oz

Mfg. Description: Easy-to-build, reliable and impressive in flight, Big Bertha is an ideal model for demonstration flights. Features a slow, realistic takeoff that fascinates spectators. This is the model shown in action on the inside front and back covers. Big 18" chute gives slow descent and gentle landings. Kit comes complete with all parts and easy to follow instructions (but no engines). (Estes 1966 Catalog)

Catalog Liveries

1966

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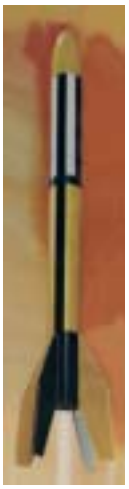
1971

1973

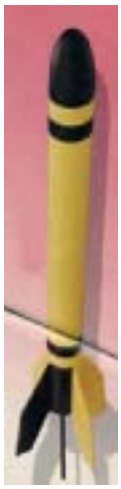
1975



1978

1981

1983



1985

Face Card(s)

Also of interest:
6 2 2

Big Bertha (#1948)

MODEL NAME: **Big Bertha** *Also known as*:

NUMBER: #1948

IIntroduced: 1986
Final Year:
Designer: Vern Estes

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24 in. (61 cm)
Diameter: 1.64 in. (42 mm)
Span:
Weight: 2.5 oz. (71 g)

Mfg. Description: Big Bertha is an Estes original! Big, burly, black and beautiful perfectly describes this classic. She's an all around Estes favorite that has truly withstood the test of time. Over the decades, Big Bertha has been most modelers' first big build. While standing on its massive fins, this big black rocket checks in at an impressive 2 feet tall. If you've never flown a Bertha, get one and launch it. Once you've flown it, you'll take it to every launch!

The Big Bertha gives you a slow, realistic liftoff. What a thrill it is to watch! Propelled by powerful standard Estes engines, this beauty travels to 500 feet and comes back to earth with a decorated 18 inch parachute. Quality Estes body tubes, laser cut wood fins, molded plastic nose cone and easy to apply self-stick decals make for an afternoon of building enjoyment. In one afternoon your Bertha is ready for an exciting time at the launch field! (Estes 2011 Web Ad)

Catalog Liveries

1986

1992

1993

1995

1998

2002

2003

2004

2005

2006

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest:

Big Daddy (#2162)

MODEL NAME: Big Daddy *Also known as*:

NUMBER: #2162

Introduced: 1998
Final Year:
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 19 in. (48.3 cm)
Diameter: 3 in. (76 cm)
Span:
Weight: 5.3 oz. (150.3 g)

Mfg. Description: BIG is better! Well in most things - big is better. Using Estes E engines, this highly streamlined rocket can reach a cloud topping 900 feet. If you prefer to keep it suborbital, it will also fly extremely well on C11 engines or D engines! Either way, this extreme rocket is returned safely on a colorful 24 inch preassembled parachute.

Standing just under 20 inches tall and having a Big Daddy waist size of 3 inches, This high powered bullet is built to handle all the power you can stuff into the motor tube.

Experience in model building and finishing is necessary to build this big guy, but the end result is worth the effort. (Estes 2011 Web Ad)

Catalog Liveries

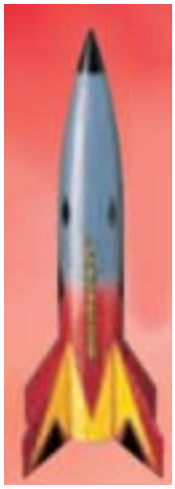
2002

2003

2004

2006

2007


2008

2010

Web Liveries

2011

Face Card(s)

Also of interest: Estes Big Daddy Family

Big Dawg (#2151)

MODEL NAME: **Big Dawg** *Also known as*:

NUMBER: #2151

Introduced: 1998
Final Year: 2000
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.8"
Diameter: 1.33"
Span:
Weight: 1.6 oz

Out Of Production

Mfg. Description: This bulldog of a rocket has a slotted body tube for precise fin alignment and strong fin/tube joints. It comes with cool junkyard dog looking self-adhesive decals and die cut fins. It's built tough to keep flying over and over. A fun sport flyer that soars over 700 feet high! (Estes 1998 Catalog)

Catalog Liveries

1998

Face Card(s)

Also of interest:

6 2 8

Big Yank (#0868)

MODEL NAME: **Big Yank** *Also known as*:

NUMBER: #0868

Introduced: 1984
Final Year: 1986
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 26.5"
Diameter: 0.736"
Span:
Weight: 0.92 oz

Mfg. Description: Mini-engine powered sport flyer. Easy to build and capable of flights to over 400 feet. (Estes 1984 Catalog)

Catalog Liveries

1984

1985

Web Liveries

Face Card(s)

Also of interest: Estes Mini Brute Marketing Family

(Astron) Birdie (K-44 or #1244)

MODEL NAME: Astron Birdie *Also known as*: Birdie

NUMBER: K-44 or #1244

Introduced: 1969
Final Year: 1972
Designer: Bill Simon

Type: Oddroc
Motor Mount: 1x18mm
Recovery: Tumble
Stages: 1
Length: 2.8"
Diameter: 2.6"
Span: 2.6"
Weight: 0.27 oz

Out Of Production

Mfg. Description: You can change a badminton "bird" to a rocketeer's "bird" with this unusual kit...and watch it fly! (Estes 1969 Catalog)

Catalog Liveries

1969

1970

1971

Web Liveries

Face Card(s)

Also of interest:

Birdie (TK-44 or #0844)

MODEL NAME: **Birdie** *Also known as*:

NUMBER: TK-44 or #0844

Introduced: 1972
Final Year: 1973
Designer: Bill Simon

Type: Oddroc
Motor Mount: 1x13mm
Recovery: Tumble
Stages: 1
Length: 2.8"
Diameter: 2.6"
Span: 2.6"
Weight: 0.5 oz

Out Of Production

Mfg. Description: Badminton goes "out of sight" when you launch your mini-engine powered Birdie. It's a standard plastic badminton shuttlecock with an engine mount...and it goes like no bird ever thought of going. (Estes 1972 Catalog)

Catalog Liveries

1972

197

Face Card(s)

Also of interest: Estes Astron Birdie

Black Brant II (#1958)

MODEL NAME: **Black Brant II** *Also known as*:

NUMBER: #1958

Introduced: 1986
Final Year: 1998
Re-introduced: 2001
Withdrawn: 2003
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24.875"
Diameter: 1.325"
Span:
Weight: 2.29 oz

Mfg. Description: An outgrowth of the 1950's Black Brant I program, Black Brant II's payload capacity was increased to 6.2 cu. ft. by changing the nose cone's shape. The Canadair air frame was aerodynamically stabilized by 3 fixed fins. Total fin span was 39". The motor contained 2,000 lbs of solid propellant and delivered 16,000 lbs of thrust over a 25 second burn time. Total vehicle weight with propellant was 2,642 lbs.

The first two Black Brant II's were launched in October 1960 at Fort Churchill, Canada. The next two were launched from Wallops Island, VA during November 1961.

Used by the Canadian Armament Research and Development Establishment for upper atmosphere research studies, Black Brant II's were fired mostly in Canada's Northlands, carrying up to 150 lbs of payload to altitudes of 100 statute miles.

Beautiful model of Canadian sounding rocket features a 1 to 13 scale ration. Complete with detailed plastic parts, three color decal, huge 18" recovery parachute, and die cut balsa fins, this powerful D-engine model can fly well over 1200 feet. (Estes 1986 Catalog)

Catalog Liveries

1986

1988

1993

1995

1998

2002

2003

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Black Brant II Sounding Rocket Family

Black Hole Space Probe (#1350)

MODEL NAME: **Black Hole Space Probe** *Also known as*:

NUMBER: #1350

Introduced: 1980
Final Year: 1980
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 25"
Diameter: 0.976"
Span:
Weight: 1.59 oz

Out Of Production

Mfg. Description:

Catalog Liveries

1980

Face Card(s)

Also of interest:
6 3 6

Blazer (#1956)

MODEL NAME: **Blazer** *Also known as*:

NUMBER: #1956

Introduced: 1986
Final Year: 1991
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 12.75"
Diameter: 0.736"
Span:
Weight: 0.71 oz

Mfg. Description: Excellent beginner's model features die cut fiber fins, red decal, streamer recovery and 1000 foot flights with a "C" engine. No painting required! (Estes 1986 Catalog)

Catalog Liveries

1986

Face Card(s)

Also of interest:

Blue Bird Zero (#1335)

MODEL NAME: **Blue Bird Zero** *Also known as*:

NUMBER: #1335

Introduced: 1980
Final Year: 1985
Designer: Mike Dorffler

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 39.75"
Diameter: 1.325"
Span: 2.7 oz
Weight:

Mfg. Description: Experimental sounding design over 3 feet tall. Easy to assemble with die cut balsa fins, plastic nose cone and scale-like kit decals. High performance flights and gentle recovery with 18" chute. (Estes 1980 Catalog)

Catalog Liveries

1980

1981

1983

1985

Web Liveries

Face Card(s)

Also of interest:

Bomarc (KC-5 or #0654)

MODEL NAME: **Bomarc** *Also known as*:

NUMBER: KC-5 or #0654

Introduced: 1972
Final Year: 1977
Designer: Larry Renger

Type: Scale
Motor Mount: 1x18mm
Recovery: parachute/glide
Stages: 1
Length: 23"
Diameter: 1.325"
Span:
Weight: 3.8 oz

Mfg. Description: A beautifully detailed superb scale rendering of the U.S.A.F. surface-to-air interceptor missile. Features molded plastic components and die cut balsa parts. Big authentic decals, vinyl striping and metalized mylar panels. At apogee the engine pod is ejected and comes down by parachute while the model returns as a boost glider...with a gentle flat glide pattern. (Estes 1973 Catalog)

Catalog Liveries

1973

1975

1977

Web Liveries

Face Card(s)

Also of interest: CIM-10 Bomarc Ordnance Family

Bomarc (#0657)

MODEL NAME: **Bomarc** *Also known as*:

NUMBER: #0657

Introduced: 1978
Final Year: 1980
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: parachute
Stages: 1
Length: 23"
Diameter: 1.325"
Span: 9"
Weight: 3.5 oz

Mfg. Description: A beautifully detailed superb 1/24 scale rendering of the U.S.A.F. surface-to-air interceptor missile. Our replica features authentic four color decals, die cut balsa fins and quick release engine mount. Great performance too with dramatic 18" parachute recovery. (Estes 1978 Catalog)

Catalog Liveries

1978

1978 Summer Cat.

Web Liveries

Face Card(s)

Also of interest: CIM-10 Bomarc Ordnance Family

Bull Pup 12D (#1972)

MODEL NAME: **Bull Pup 12D** *Also known as*: Bullpup 12D

NUMBER: #1972

Introduced: 1986
Final Year: 1995
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15.625"
Diameter: 1.325"
Span:
Weight: 1.8 oz

Mfg. Description: Scaled down version of U.S. Air Force air-to-air missile features three-color decal, 800 foot flights and recovery via 12" chute. (Estes 1987 Catalog)

Catalog Liveries

1987

1989

1993

1994

1995

Web Liveries

Face Card(s)

Also of interest:

Bull Pup 12D (#7000)

MODEL NAME: Bull Pup 12D *Also known as*: Bullpup 12D

NUMBER: #7000

Introduced: 1996
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15.6 in. (39.6 cm)
Diameter: 1.33 in. (34 mm)
Span:
Weight: 1.8 oz. (51 g)

Mfg. Description: For all you sport scale enthusiasts, this one's for you! The Estes Bull Pup 12D is a highly detailed version of the USAF AGM-12D Bull Pup air to ground missile. First developed in the 1950s, the Bull Pup was used in combat until the 1970s. Over 30,000 Bull Pups were built and used until it was decommissioned in the mid 80s. If you're just getting started in scale model rockets, the Bull Pup 12D is a great kit to develop your scale model building skills.

This kit comes with a large diameter, single piece body tube, high quality molded plastic tail and nose cone, laser cut wood fins and authentic full color self-stick decals. Standing 15.6 inches tall, this rocket can pack a ballistic punch by reaching almost 675 feet on standard engines and recovering with a colorful 12 inch preassembled parachute. (Estes 2011 Web Ad)

Catalog Liveries

1996

1998

2002

2003

2004

2005

2006

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest:

CC Express (#1302)

MODEL NAME: CC Express *Also known as*:

NUMBER: #1302

Introduced: 2002
Final Year:
Designer:

Type: Sport, 2 Stage
Motor Mount: 1x24mm/1x24mm
Recovery: Tumble/Parachute
Stages: 2
Length: 28.38"
Diameter: 1.33"
Span:
Weight: 2.7 oz

Mfg. Description: The CC Express is a high flying, two stage rocket powered by "C11" engines. It can also be flown with D engines. It soars to over 1790 ft. in the air. (Estes 2002 Catalog)

Catalog Liveries

2002

2003

2004

2005

2006

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest:

6 4 8

Cajun (#2028)

MODEL NAME: **Cajun** *Also known as*:

NUMBER: #2028

Introduced: 1990
Final Year: 1991
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 17.06"
Diameter: 0.976"
Span:
Weight: 1.07 oz

Mfg. Description: Nearly 1 1/2 feet tall, the Cajun is easy to construct and will deliver flights to altitudes over 1200 feet. A silver foil pressure sensitive decal adds a finishing highlight to this model with blue and purple paint scheme. (Estes 1990 Catalog)

Catalog Liveries

1990

Face Card(s)

Also of interest:

Canadian Arrow (#2188)

MODEL NAME: **Canadian Arrow** *Also known as*:

NUMBER: #2188

Introduced: 2005
Final Year: 2006
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 26.8"
Diameter: 2.6"
Span:
Weight: 5.3 oz

Mfg. Description: The Canadian Arrow team V-2 based X Prize rocket stands over 2 feet tall and includes laser cut balsa parts. It safely recovers with a colorful, fully assembled 18-inch parachute. 1:24 scale. (Estes 2005 Catalog)

Catalog Liveries

2005

2006

Web Liveries

Face Card(s)

Also of interest: Estes X-Prize Marketing Family, X-Prize Launch Vehicle Family

Challenger II (#1330)

MODEL NAME: **Challenger II** *Also known as*:

NUMBER: #1330

Introduced: 1980
Final Year: 1985
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 24.25"
Diameter: 1.34"
Span:
Weight: 3.0 oz

Mfg. Description: High performance "D" engine powered sport model. Easy-to-assemble and fly in less than one hour. No painting required with black plastic fin-unit, yellow nose cone and pre-colored white body tube. Features kit decals, quick-release engine mount and 12" recovery parachute. Recommended high altitude launch vehicle for the AstroCam 110 Aerial Camera. Take fantastic aerial photos from over 1,200 feet. (AstroCam 110 camera not included) (Estes 1980 Catalog)

Editorial Note:

Catalog Liveries

1980

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

(Astron) Cherokee D (K-47 or #1247)

MODEL NAME: **Astron Cherokee D** *Also known as*: Cherokee D

NUMBER: K-47 or #1247

Introduced: 1970
Final Year: 1983
Designer: Gene Street

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 21.6"
Diameter: 1.325"
Span:
Weight: 2.75 oz

Mfg. Description: The Astron Cherokee comes on strong! Especially designed for the Estes "D" engine, this sleek bird will practically sail out of sight. But its big 18" chute will bring it down safely flight after flight. Comes with a beautiful decal sheet to complement its trim lines. Other kit features include die-cut fins, quick change engine mount, and heavy duty construction. The Cherokee is easy to build but, because of the powerful "D" engine, it's recommended only for experienced rocketeers. (Estes 1970 Catalog)

Catalog Liveries

1970

1971

1972

1973

1974

1975

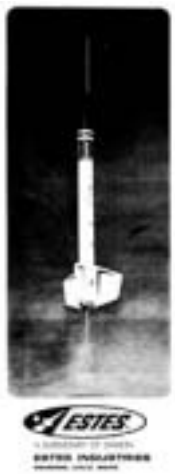
1977

1980

1981

1983

Face Card(s)



Also of interest: Estes Cherokee D Family

Chuter Two (#3009)

MODEL NAME: **Chuter Two** *Also known as*: Chuter 2, Chuter II

NUMBER: #3009

Introduced: 2010
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18.5"
Diameter: 0.98"
Span:
Weight: 1.2 oz

Mfg. Description:

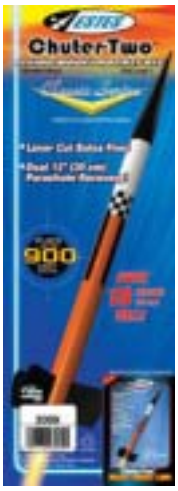
Catalog Liveries

2010

Web Liveries

2011

Face Card(s)



Also of interest: Centuri Chuter Two Family

Cloud Hopper (#0851)

MODEL NAME: **Coud Hopper** *Also known as*:

NUMBER: #0851

Introduced: 1973
Final Year: 1975
Designer: Wayne Kellner, Mike Dorffler

Type: Goony
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: ~8"
Diameter: 1.637"
Span:
Weight:

Out Of Production

Mfg. Description: Cottontail design. Rabbit's foot appearance. Sleek ears. Full color stick-on decals. Quick release engine mount. (Estes 1973 Catalog)

Editorial Note:

Catalog Liveries

1973

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Goonybird Marketing Family, Goony Family

(Astron) Cobra (K-10 or #1210)

MODEL NAME: **Astron Cobra** *Also known as*: Cobra

NUMBER: K-10 or #1210

Introduced: 1963
Final Year: 1973
Designer: Bill Simon

Type: Sport, Payload, Cluster
Motor Mount: 3x18mm
Recovery: Parachute
Stages: 1
Length: 22.25"
Diameter: 1.6"
Span:
Weight: 2.5 oz

Mfg. Description: The ideal bird for getting started in clustering, yet challenging to the experienced rocketeer, the Astron Cobra gives you top performance. Medium size payloads (up to four ounces) get a real ride in the Cobra's 1" diameter capsule. Kit comes complete with all parts, instructions and a copy of Technical Report TR-6 on cluster techniques. (Estes 1964 Catalog)

Catalog Liveries

1964

1966

1967

1968

1969

1970

1971

1972

1973

Face Card(s)

Also of interest:

Cobra 1500 (#1294)

MODEL NAME: **Cobra 1500** *Also known as*:

NUMBER: #1294

Introduced: 1978
Final Year: 1985
Designer: Mike Dorffler

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 59"
Diameter: 1.325"
Span:
Weight: 3.17 oz

Out Of Production

Mfg. Description: Attain flights over 700 feet with "C" engines with this extra long sport flier. Giant decal sheet plus die-cut balsa fins, quick release engine mount, and plastic nose cone. Perfect demonstration model with large 18" parachute recovery. (Estes 1978 Catalog)

Catalog Liveries

1978

1981

1983

Web Liveries

Face Card(s)

Also of interest:

Colonial Viper (#1310)

MODEL NAME: **Colonial Viper** *Also known as*: Battlestar Galactica Colonial Viper

NUMBER: #1310

Introduced: 1979
Final Year: 1979
Designer:

Type: Fantasy Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 11.76"
Diameter: 0.976"
Span: 4.635"
Weight: 2.01 oz

Mfg. Description: Outstanding sport-scale model of the BATTLESTAR GALACTICA's primary attack craft. Backbone of colonial defense, the Colonial Viper is small, fast and dead on target when encountering the treacherous Cylon raiders. This sensational kit is easy to assemble with die-cut fins, plastic nose cone, quick release engine mount and realistic BATTLESTAR GALACTICA decals. Cam attain altitudes over 800 feet with Estes "C" type rocket engines. The Colonial Viper deploys a 12" recovery parachute for a safe flight and gentle recovery time after time. (Estes 1979 Catalog)

Catalog Liveries

1979

Face Card(s)

Also of interest: Estes Colonial Viper Family, Battlestar Galactica Colonial Viper Family

Comanche 3 (#1382)

MODEL NAME: **Comanche 3** *Also known as*:

NUMBER: #1382

Introduced: 1982
Final Year:
Designer:

Type: Sport, 3 Stage
Motor Mount: 1x24mm/1x18mm/1x18mm
Recovery: Tumble/Tumble/Streamer
Stages: 3
Length: 41"
Diameter: 0.976"
Span:
Weight: 2.08 oz

Mfg. Description: Big three-stager with mighty "D" powered booster. Can be flown in single, two stage or three stage configurations. Incredible flights over 2,600 ft. (Estes 1982 Catalog)

Catalog Liveries

1982

1983

1985

1991

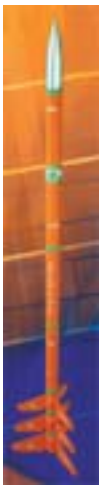
1993

1998

2002

2003

2004


2005

2006

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest:

Comet Chaser (#3202)

MODEL NAME: **Comet Chaser** *Also known as*:

NUMBER: #3202

Introduced: 2010
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.4 in. (36.5 cm)
Diameter: 0.98 in. (25 mm)
Span:
Weight: 1.3 oz. (36.8 g)

Mfg. Description: Simple to glue and paint, the Comet Chaser deserves to be in your rocket collection or if you are just starting out, it's a great starter rocket. Just a few hours of your time and you'll be ready to go! (Estes 2011 Web Ad)

Catalog Liveries

2010

Web Liveries

2011

Face Card(s)

Also of interest:

Condor (#0807)

MODEL NAME: **Condor** *Also known as*: Mini Brute Condor

NUMBER: #0807

Introduced: 1977
Final Year: 1981
Designer: Bill Simon

Type: Boost Glider
Motor Mount: 1x13mm
Recovery: Parachute/Glide
Stages: 1
Length: 18.25"
Diameter: 0.976"
Span: 5"
Weight: 1 oz

Out Of Production

Mfg. Description: Designed by Estes Engineers as a futuristic orbital booster with recoverable shuttle for near earth missions, this exotic sports model will be an exciting addition in your model rocket collection. Shuttle-like parasite glider gives flights up to 90 seconds while realistic booster is recovered via 12" parachute. Economically mini-engine powered, the Condor features great looking decals, die-cut balsa fins, quick release engine mount and molded plastic nose cone. (Estes 1977 Catalog)

Catalog Liveries

1977

1979

1980

Face Card(s)

Also of interest: Estes Mini Brute Family

(Astron) Constellation (K-35 or #1235)

MODEL NAME: **Astron Constellation** *Also known as*: Constellation

NUMBER: K-35 or #1235

Introduced: 1969
Final Year: 1978
Designer: Gene Street

Type: Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.2"
Diameter: 0.976"
Span:
Weight: 1 oz

Mfg. Description: The perfect high performance bird for single stage payload work or just flying for fun. The long slender lines and the "landing shocks" at each fin tip lend the appearance of a space vehicle of the future. Parachute recovery, "see-though" payload section plus a quick change engine mount make the Constellation easy to fly and reliable. Kit comes complete with all parts and instructions (less engines). (Estes 1969 Catalog)

Editorial Note:

Catalog Liveries

1969

1970

1971

1972

1973

1975

1976

1977

1978

Web Liveries

Face Card(s)

Also of interest: Estes Constellation Family

Corkscrew (#2114)

MODEL NAME: **Corkscrew** *Also known as*:

NUMBER: #2114

Introduced: 1995
Final Year: 1998
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21.3"
Diameter: 1.0"
Span:
Weight: 1.9 oz

Out Of Production

Mfg. Description: With a canted fin and a canted engine, the Corkscrew goes wild upon engine ignition spinning and spiraling upward. It creates a zany smoke trail. The Corkscrew features thru-the-body tube fin construction for super durable rocket. (Estes 1995 Catalog)

Catalog Liveries

1995

1998

Web Liveries

Face Card(s)

Also of interest:

Cosmos Mariner (#2190)

MODEL NAME: **Cosmos Mariner** *Also known as*:

NUMBER: #2190

Introduced: 2005
Final Year: 2008
Designer:

Type: Boost Glider
Motor Mount: 1x24mm
Recovery: Parachute/Glide or Tumble
Stages: 1
Length: 18"
Diameter: 1.637"
Span: 13.5"
Weight: 8.6 oz

Mfg. Description: The Estes Cosmos Mariner is a boosted glider version of the sleek X Prize rocket plane from the Lone Star Space Access team. The rocket plane blasts off 250 ft. into the air using a powerful "D" engine. Laser cut balsa parts. 1:67 scale.

Catalog Liveries

2005

2006

2007

2008

Web Liveries

Face Card(s)

Also of interest: Estes X-Prize Family, X-Prize Family

Courier (#1911)

MODEL NAME: **Courier** *Also known as*:

NUMBER: #1911

Introduced: 1983
Final Year: 1987
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 12.13"
Diameter: 0.736"
Span:
Weight: 3.53 oz

Mfg. Description: Single stage performance. Scale-like appearance of two stage sounding rocket. Flights over 1100 ft. (Estes 1983 Catalog)

Catalog Liveries

1983

1985

Web Liveries

Face Card(s)

Also of interest: Estes Courier Family

Crossbow SST (#3207)

MODEL NAME: **Crossbow SST** *Also known as*:

NUMBER: #3207

Introduced: 2010
Final Year:
Designer:

Type: Exotic, Downscale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.4 in. (36.6 cm)
Diameter: 0.74 in. (17 mm)
Span:
Weight: 1.1 oz. (31.2 g)

Mfg. Description: If you love the Satellite Interceptor then the Crossbow SST is just the rocket for you! Designed along the lines of the Satelitte Interceptor, the Crossbow SST is a down sized version of one of Estes' most popular kits! (Estes 2011 Web Ad)

Catalog Liveries

2010

Web Liveries

2011

Face Card(s)

Also of interest: Estes Satellite Interceptor Family

Crossfire ISX (#1469)

MODEL NAME: **Crossfire ISX** *Also known as*:
(Comes with Tandem-X Launch Set)
NUMBER: #1469

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages:
Length: 15.6"
Diameter:
Span:
Weight:

Mfg. Description: Two is better than one! You'll get X-tra value with the Estes Tandem-X Model Rocket Launch Set. This exceptional rocket set features a pair of extreme, high performance rockets with a launch system for launching them. Whether you're a new rocketeer or a seasoned veteran, launch in tandem for an exciting model rocket experience!

The E2X Amazon is as imposing as the name sounds. This giant towers almost three feet high and is quick and easy to build! A tiger-striped body tube, precolored plastic nose cone and fins and self-stick decals make building this rocket easy to do in about an hour. When flown on our standard engines, this huge rocket can reach heights over 650 feet with recovery on a colorful 18 inch preassembled parachute.

The Crossfire ISX is a Skill Level 1 kit that can easily be built in about a day. This rocket features a totally streamlined shape with aerodynamic fins and nose cone. It stands 15.6 inches tall. When launched with powerful Estes standard engines, this bullet can reach cloud busting heights up to 1,200 feet. A preassembled 12 inch parachute returns the Crossfire back to earth to launch again and again.

LAUNCH SYSTEM includes Electron Beam Launch Controller and Porta-Pad II Launch Pad. (Estes 2011 Web Ad)

Catalog Liveries

2006

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest:

Crusader Swing Wing Glider (#1961)

MODEL NAME: **Crusader Swing Wing Glider** *Also known as*:

NUMBER: #1961

Introduced: 1986
Final Year: 1988
Designer:

Type: Boost Glider
Motor Mount: 1x18mm
Recovery: Streamer/Glide
Stages: 1
Length: 18"
Diameter: 1.637"
Span: 11.5"
Weight: 2.2 oz

Mfg. Description: Our model of this NASA advanced fighter concept will soar to 800 feet. The internal power pod is ejected at apogee and the rocket becomes a winged glider with glide times of 45 seconds or more. Pod descent is via recovery streamer. Kit includes die-cut parts, balsa fins, plastic nose cone and sections, plus quick-release engine mount and two color decal. (Estes 1986 Catalog)

Editorial Note:

Catalog Liveries

1986

1987

1988

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Customizer (#1500)

MODEL NAME: **Customizer** *Also known as*:

NUMBER: #1500

Introduced: 2010
Final Year:
Designer:

Type: Sport (Customizable set of parts to make many designs)
Motor Mount: 1x18mm
Recovery: Varies
Stages: Varies
Length: Varies
Diameter: Varies
Span: Varies
Weight: Varies

Mfg. Description: BECOME A ROCKET INVENTOR! Build and design your own concept rockets! The Customizer Rocket Set will turn YOU into a MODEL ROCKET DESIGNER! Develop, design and build dozens of custom rockets! You can even create a rocket up to 46 inches tall! Estes has researched hundreds of combinations of the 45 different rocket parts included in the Customizer to allow you to create over 64 custom rockets! Combine the different colored body tubes and colored molded plastic parts to create High-Speed High-Altitude Rockets or Radical Research Rockets! Blast-Off your sister's mini-dolls into the upper atmosphere with the clear payload section. Launch your favorite micro-car, candy or bugs into orbit! You can even customize your own rocket deco designs with over 30 self-stick decals!

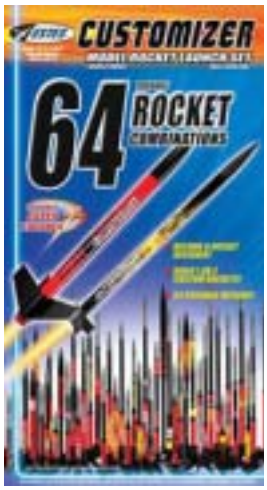
LAUNCH SYSTEM includes Electron Beam Launch Controller and Porta-Pad II Launch Pad. (Estes 2011 Web Ad)

Catalog Liveries

2010

Web Liveries

Face Card(s)



Also of interest:

D-Region Tomahawk (#1944)

MODEL NAME: **D-Region Tomahawk** *Also known as*:

NUMBER: #1944

Introduced: 1985
Final Year: 1986
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 35.5"
Diameter: 1.637"
Span:
Weight: 3.7 oz

Out Of Production

Mfg. Description: DESC

Catalog Liveries

1985

1986

Web Liveries

Face Card(s)

Also of interest: D Region Tomahawk Sounding Rocket Family

D-Region Tomahawk (#2037)

MODEL NAME: **D-Region Tomahawk** *Also known as*:

NUMBER: #2037

Introduced: 2007
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 38.8 in. (98.6 cm)
Diameter: 1.8 in. (46 mm)
Span:
Weight: 9.2 oz. (260 g)

Mfg. Description: Bring on the Beauty and the Beast! For all model rocket enthusiasts out there that enjoy building and launching scale rockets, the Estes D-Region Tomahawk is for you! This authentic rocket is a 1/5 scale of NASA's sounding rocket. Launched only one time in 1968, this rocket was designed to take measurements of the D-layer of the ionosphere - thus its name. Our version of this fantastic scale rocket captures all the detail of the original in an easy to assemble model that flies as good as it looks.

In terms of performance, this gigantic rocket can blast nearly 800 feet high when powered with our *E engine. If you don't want to test the limits of your visibility, we've included an adapter to launch on Estes D engines. Finally, to protect this beautiful scale model when it lands, we've included an 18 inch preassembled nylon parachute! Get in touch with your inner astronaut today! (Estes 2011 Web Ad)

Catalog Liveries

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest: D Region Tomahawk Sounding Rocket Family

D.A.R.T. (#1981)

MODEL NAME: **D.A.R.T.** *Also known as*:

NUMBER: #1981

Introduced: 1987
Final Year: 1988
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16"
Diameter: 1.637"
Span:
Weight: 1.76 oz

Mfg. Description: Looks like a high speed tracker for data acquisition and reconaissance. Easy to build, fun to fly. Flights to 800' with "C" engine are possible. A 12" parachute provides reliable recovery. (Estes 1987 Catalog)

Catalog Liveries

1987

Face Card(s)

Also of interest:

Dark Star (#2045)

MODEL NAME: **Dark Star** *Also known as*:

NUMBER: #2045

Introduced: 1991
Final Year: 1991
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 27"
Diameter: 1.637"
Span:
Weight: 2.7 oz

Out Of Production

Mfg. Description: Gloss black paint scheme and gold pressure-sensitive decals highlight this great looking sport model. Estimated maximum altitude with a "C" engine is 500 ft (170 meters)! (Estes 1991 Catalog)

Catalog Liveries

1991

Web Liveries

Face Card(s)

Also of interest:

Death Star (#2143)

MODEL NAME: **Death Star** *Also known as*: Star Wars Death Star

NUMBER: #2143

Introduced: 1997
Final Year: 1998
Designer:

Type: Fantasy Scale
Motor Mount: 1x18mm
Recovery: Streamer/Parachute
Stages: 1
Length: 15.5"
Diameter: 5.0"
Span:
Weight: 2.3 oz

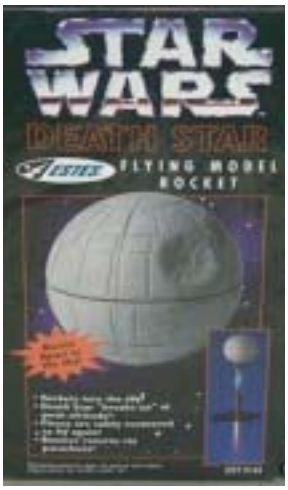
Mfg. Description: Fly the Death Star and watch it burst apart in the sky. Multiple pieces return on streamers. Reassemble and fly again and again. (Estes 1998 Catalog)

Catalog Liveries

1998

Web Liveries

Face Card(s)



Also of interest: Star Wars Death Star Family

Deep Space Transport (#2034)

MODEL NAME: **Deep Space Transport** *Also known as*:

NUMBER: #2034

Introduced: 1990
Final Year: 1995
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 26.5"
Diameter: 1.325"
Span:
Weight: 3.75 oz

Mfg. Description: Futuristic model of an interplanetary passenger transport modified with external power pods for deep space travel. Double deck forward passenger area provides necessary additional living space. Kit features large, colorful decal, unique tri-body design, and launches to 350 feet. (Estes 1990 Catalog)

Catalog Liveries

1990

1993

1995

Web Liveries

Face Card(s)

Also of interest: Estes Deep Space Transport Family

Defender (#1924)

MODEL NAME: **Defender** *Also known as*:

NUMBER: #1924

Introduced: 1983
Final Year: 1987
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 25"
Diameter: 1.325"
Span:
Weight: 1.8 oz

Mfg. Description: "D" powered high-performance sport flier capable of flights over 1,200 feet. (Estes 1984 Catalog)

Catalog Liveries

1984

1985

1986

Web Liveries

Face Card(s)

Also of interest:

Delta Clipper (#2067)

MODEL NAME: **Delta Clipper** *Also known as*:

NUMBER: #2067

Introduced: 1992
Final Year: 1996
Designer: Tim Van Milligan

Type: Sport, 2 Stage
Motor Mount: 1x24mm/1x24mm
Recovery: Tumble, Streamer
Stages: 2
Length: 26"
Diameter: 1"
Span:
Weight: 2.6 oz

Mfg. Description: Reach for the clouds with super high performance! (Estes 1992 Catalog)

Catalog Liveries

1992

1993

1994

1995

Web Liveries

Face Card(s)

Also of interest:

Delta Star (#1322)

MODEL NAME: **Delta Star** *Also known as*:

NUMBER: #1322

Introduced: 1979
Final Year: 1983
Designer:

Type: Sport, Staged, Payload
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 24"
Diameter: 0.98"
Span:
Weight: 1.13 oz

Mfg. Description: Really sleek, super high performance two-stage payloader capable of lofting a 1 oz. payload over 1,000' with "C" type engines. Can be flown either single or multi-stage. Booster stage employs tumble recovery. Easy-to-assemble with die cut balsa fins, quick release engine mount, plastic nose cone and blue and red kit decals. Dramatic recovery via 12" parachute. (Estes 1979 Catalog)

Catalog Liveries

1979

1981

1983

Web Liveries

Face Card(s)

Also of interest:

Der Big Red Max (#1403)

MODEL NAME: **Der Big Red Max** *Also known as*:
Part of a Starter Set
NUMBER: #1402

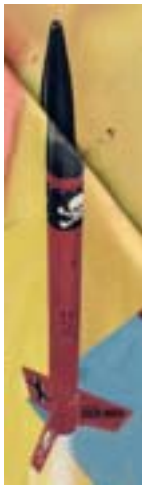
Introduced: 1978
Final Year: 1982
Designer: Wayne Kellner

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Catalog Liveries


1978

1979

1981

Web Liveries

Face Card(s)

Also of interest: Estes Der Red Max Family

Der Red Max (KC-2 or #0651)

MODEL NAME: **Der Red Max** *Also known as*:

NUMBER: KC-2 or #0651

Introduced: 1972
Final Year:
Designer: Wayne Kellner

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.25"
Diameter: 1.637"
Span:
Weight: 2.375 oz

Mfg. Description: The Der Red Max is a classic Estes model rocket and another of our most requested bring back models...and for good reason. Not only is this a uniquely decorated model, but this model performs as good as it looks. This is one of those model rockets that has a personality all its own!

Standing just a tad over 16 inches tall, the Max is one of our rockets that's a must have in your rocket arsenal. From the long, ballistic-shaped nose cone to the stubby fins and the truly unique decor, this rocket has attitude! Every launch with our standard engines will give you stellar flights over 700 feet. Recovery is accomplished with a colorful 18 inch preassembled parachute for safe landings.

In addition to retaining all of the great looks and flying qualities of the original, this new version now features laser cut wood fins for improved performance and has a waterslide decal set that replicates the original - including the totally cool skull and crossbones. Pick up a classic Der Red Max today and add it to your collection. You are sure to be the envy of all your model rocket buddies...until they get theirs. (Estes 2011 Web Ad)

Catalog Liveries

1973

1975

1977

1979

1980

1981

1982

1984

1985

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest: Estes Der Red Max Family

Dragon Ship 7 (#1345)

MODEL NAME: **Draagon Ship 7** *Also known as*: Dragonship 7

NUMBER: #1345

Introduced: 1980
Final Year: 1981
Designer: Keith Niskern

Type: Exotic, Retro
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.75"
Diameter: 1.637"
Span:
Weight: 2.7 oz

Mfg. Description: Dreaded Dragonship of the Outlaw Galactic Pirate Confederacy. Dragonship 7, based on the asteroid Careb-Sing, is an outstanding example of evil technical genius. The ship's Twin Hydran-Stethode canon furnish a firepower of the seventh magnitude. This alien marauder from deep space is aptly named and universally feared. The Estes version of this villainous craft includes die-cut balsa fins, plastic nose cone, quick release engine mount and large "Galactic Pirate" decal sheet. Dramatic recovery with 18" recovery parachute. (Estes 1980 Catalog)

Catalog Liveries

1980

1981

Web Liveries

Face Card(s)

Also of interest: Estes Dragon Ship 7 Family

EAC Viper (#0820)

MODEL NAME: **EAC Viper** *Also known as*:

NUMBER: #0820

Introduced: 1972
Final Year: 1986
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

EAC Publicity Shot

Face Card(s)

Also of interest: Estes EAC Viper Family, Estes Aerospace Club Family

Echo (#1950)

MODEL NAME: **Echo** *Also known as*:

NUMBER: #1950

ntroduced: 1985
Final Year: 1989
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 10.5"
Diameter: 0.736"
Span:
Weight: 0.47 oz

Out Of Production

Mfg. Description: Forward-swept, elliptical fins lend futuristic appearance to this high performance sport model. Flights over 1000 feet with a "C" engine and recovery via streamer. (Estes 1986 Catalog)

Editorial Note:

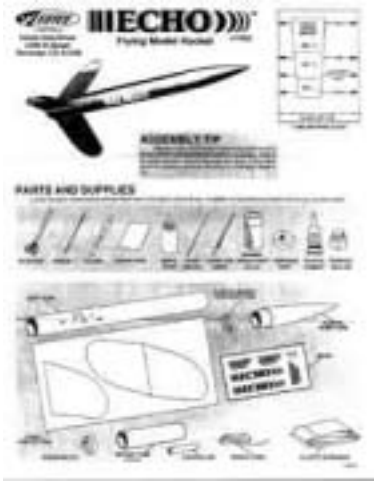
Catalog Liveries

1986

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Eclipse (#0846)

MODEL NAME: **Eclipse** *Also known as*:

NUMBER: #0846

Introduced: 1979
Final Year: 1987
Designer: Wayne Kellner

Type: Sport
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 12.1"
Diameter: 0.736"
Span:
Weight: 0.51 oz

Mfg. Description: Reach altitudes over 600 feet with this great "new" Mini-Brute sport flier. High performance design with die-cut balsa fins, quick release engine mount, kit decals and 10" parachute recovery. (Estes 1979 Catalog)

Editorial Note:

Catalog Liveries

1979

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Mini Brute Marketing Family

Estes Starliner (#0863)

MODEL NAME: **Estes Starliner** *Also known as*: Starliner

NUMBER: #0863

Introduced: 1981
Final Year: 1984
Designer: Michael Hambright

Type: Exotic
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 12.6"
Diameter: 0.736"
Span:
Weight: 0.9 oz

Mfg. Description: Futuristic Estes version of a commercial space transport ship of the 21st century. Mini-engine powered for low cost flights. (Estes 1981 Catalog)

Editorial Note:

Catalog Liveries

1981

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Estes Starliner Family, Estes Mini Brute Marketing Family

Executioner (#1951)

MODEL NAME: **Executioner** *Also known as*:

NUMBER: #1951

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 38.5 in. (97.9 cm)
Diameter: 2.6 in. (66 cm)
Span:
Weight: 8.1 oz. (230 g)

Mfg. Description: Dominate the skies with the massive *E engine powered Executioner! Now this is what a rocket should look like - large and in charge! This giant is impossible to miss during flight with its huge 2.5 inch diameter body tube and over 36 inch length. It's no wonder this goliath needs D and *E engines to fly!

The Executioner has several features that make it easier to assemble and extremely durable when powered with D and *E rocket engines. First, we've provided a slotted main body tube for a perfect through-the-tube fin attachment and alignment of the laser cut birch wood fins. This style of fin assembly provides superior fin to body tube strength and exceptional stability during flight. This rocket kit also features a blow mold, aerodynamically streamlined nose cone for improved vertical performance. Flying this giant is just as much fun as building it. When loaded up with one of our powerful E engines, this huge model can reach altitudes of almost 600 feet. As an added feature, we've also included a ¼ in. x 36 in. rubber shock cord and a 24 inch preassembled parachute to ensure safe landings so you can recover this behemoth for more exciting, ear deafening launches. Pick up an Executioner today and be the talk of your rocket club with this awesome rocket!

The Executioner also includes an adapter that allows you to quickly convert from *E engine power to D engine power. (Estes 2011 Web Ad)

Catalog Liveries

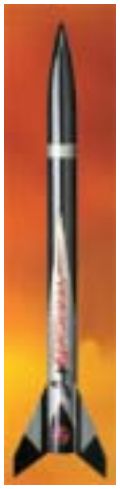
2002

2003

2004

2005

2006


2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest:

Exocet MM38 (#1925)

MODEL NAME: **Exocet MM38** *Also known as*: Exocet

NUMBER: #1925

Introduced:
Final Year: 1984
Designer: 1985

Type: Semi-Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.5"
Diameter: 1.595"
Span:
Weight: 2.37 oz

Mfg. Description: Nearly two feet tall, the semi-scale model of the French anti-ship missile produced by the Societe Nationale Industrielle Aerspatiale is an excellent sport flier capable of altitudes up to 900 feet. It's also an excellent display model. (Estes 1984 Catalog)

Editorial Note:

Catalog Liveries

1984

1985

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Exocet Ordnance Family

Explorer Aquarius (#2016)

MODEL NAME: **Explorer Aquarius** *Also known as*:

NUMBER: #2016

Introduced: 1989
Final Year: 1994
Designer:

Type: Exotic
Motor Mount:
Recovery: 1x24mm
Stages: 1
Length: 21.75"
Diameter: 2.75'
Span:
Weight: 4.2 OZ

Mfg. Description: Futuristic craft used in the exploration of distant star systems. Almost two feet long this model will test your construction skills. It's beautiful on display and in flight. Includes removable plastic display engine nozzles. (Estes 1989 Catalog)

Catalog Liveries

1989

1990

1993

Web Liveries

Face Card(s)

Also of interest: Estes Explorer Aquarius Family

(Astron) Falcon (K-13 or #1213)

MODEL NAME: **Astron Falcon** *Also known as*: Falcon

NUMBER: K-13 or #1213

Introduced: 1963
Final Year: 1973
Designer: Larry Renger

Type: Rocket Glider
Motor Mount: 1x18mm
Recovery: Glide
Stages: 1
Length: 12"
Diameter:
Span: 10"
Weight: 0.4 oz

Mfg. Description: Get sky-high performance with the new Astron Falcon boost glider. Beautiful climb--glide duration up to and over 1-1/2 minutes on 1/2A engines, even more with larger engines. A great bird for the experienced rocketeer. Glide recovery brings it back gently, ready for a fresh engine and another flight. Kit comes complete with all parts and instructions (engines not included). (Estes 1964 Catalog)

Catalog Liveries

1964

1966

1967

1968

1969

1970

1971

1972

1973

Web Liveries

Face Card(s)

Also of interest: Estes Falcon Family

(Astron) Farside (K-12 or #1212)

MODEL NAME: Astron Farside *Also known as*: Farside

NUMBER: K-12 or #1212

Introduced: 1963
Final Year: 1981
Designer: Bill Simon

Type: 3 Stage, Payload
Motor Mount: 1x18mm/1x18mm/1x18mm
Recovery: Tumble/Tumble/Parachute
Stages: 3
Length: 21.5"
Diameter: 1"
Span:
Weight: 2 oz

Mfg. Description: A sophisticated ultra-high altitude probe or a workhorse vehicle for high altitude studies with large payloads -- take your choice with the new Astron Farside. Advanced stage coupling gives dependable ignition and stage separation. Perfect for your advanced research programs. Top stage flies to well over 2500', returns gently by parachute. Available with standard 1" payload section (#641-K-12) or with extra large 1-1/2" dia. capsule for large payloads (#641-K-12X). Be sure to specify model type when ordering. Kit comes complete with all parts and assembly instructions (but no engines). (Estes 1964 Catalog)

Catalog Liveries

1964

1966

1967

1968

1969

1970

1971

1972

1973

1975

1977

1978

Face Card(s)

Also of interest: Estes Farside Family

(Astron) Farside-X (K-12X or #1261)

MODEL NAME: **Astron Farside-X** *Also known as*: Farside-X, Astron Farside X, Farside X

NUMBER: K-12X or #1261

Introduced: 1963
Final Year: 1971
Designer: Bill Simon

Type: 3 Stage, Payload
Motor Mount: 1x18mm/1x18mm/1x18mm
Recovery: Tumble/Tumble/Parachute
Stages: 3
Length: 25"
Diameter: 1.5"
Span:
Weight: 2.5 oz

Mfg. Description: A sophisticated ultra-high altitude probe or a workhorse vehicle for high altitude studies with large payloads -- take your choice with the new Astron Farside. Advanced stage coupling gives dependable ignition and stage separation. Perfect for your advanced research programs. Top stage flies to well over 2500', returns gently by parachute. Available with standard 1" payload section (#641-K-12) or with extra large 1-1/2" dia. capsule for large payloads (#641-K-12X). Be sure to specify model type when ordering. Kit comes complete with all parts and assembly instructions (but no engines). (Estes 1964 Catalog)

Catalog Liveries

1964

1966

1967

1968

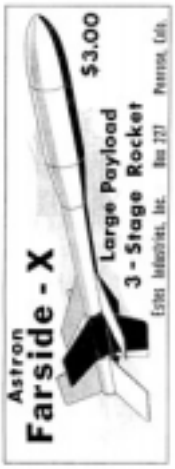
1969

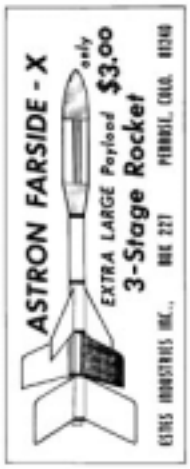
1970

1971

Web Liveries

Face Card(s)





Also of interest: Estes Farside Family

Fat Boy (#1273)

MODEL NAME: **Fat Boy** *Also known as*: Launchables Fat Boy

NUMBER: #1273

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.9"
Diameter: 2.6"
Span:
Weight: 3.0 oz

Out Of Production

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Estes Fat Boy Family, Estes Launchables Family

Fat Boy (#2139)

MODEL NAME: **Fat Boy** *Also known as*:

NUMBER: #2139

Introduced: 1997
Final Year: 2005
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.9"
Diameter: 2.6"
Span:
Weight: 3.0 oz

Mfg. Description: Fat Boy...and proud of it! Over two and half inches in diameter and only twelve inches high! Bullies its way to over 300 feet altitude and is recovered with a big fat chute! (Estes 1997 Catalog)

Catalog Liveries

1997

2000

2001

2002

2003

2004

2005

Face Card(s)

Also of interest: Estes Fat Boy Family

Gauchito (#0809)

MODEL NAME: **Gauchito** *Also known as*: Pablo de Leon & Associates Gauchito

NUMBER: #0809

Introduced: 2005
Final Year: 2007
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 8.6"
Diameter: 1.54"
Span:
Weight: 1.08 oz

Mfg. Description: A Pablo de Leon creation with a retro-looking Little Joe II design. Entered in X Prize competition lift-offs to 300 ft into the air using and Estes mini-engine. Laser cut balsa parts. 1:55 scale. (Estes 2005 Catalog)

Catalog Liveries

2005

2006

2007

Web Liveries

Face Card(s)

Also of interest: X Prize Family, Estes X Prize Family

Gemini DC (#2136)

MODEL NAME: **Gemini DC** *Also known as*:

NUMBER: #2136

Introduced: 1997
Final Year: 2005
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachut (dual rear deploy)
Stages: 1
Length: 21.5"
Diameter: 0.986"
Span:
Weight: 3.4 oz

Mfg. Description: Twin parachutes are ejected from the side pods on this stunning rocket. Nearly out-of-this-world flights to over 800 feet. Easy to build! A great flyer! A unique rocket! (Estes 1997 Catalog)

Catalog Liveries

1997

1998

2000

2001

2002

2003

2004

2005

Web Liveries

Face Card(s)

Also of interest:

Gemini-Titan (K-21 or #1221)

MODEL NAME: **Gemini-Titan** *Also known as*: GT-3

NUMBER: K-21 or #1221

Introduced: 1965
Final Year: 1973
Designer:

Type: Scale
Motor Mount: 2x18mm
Recovery: Parachute
Stages: 1
Length: 24.4"
Diameter: 2.22"
Span:
Weight: 3.8 oz

Mfg. Description: Spectacular on the ground and in the air, the Gemini-Titan is a model for the expert rocketeer, a model that is a challenge to build and fly. In not-so-easy-to-assemble kit form, GT-3 is a rocket that the modeler can point to with real pride when he's finished it. Features clear plastic fins to stabilize it in flight without detracting from its appearance, full 24" parachute for soft landings. Requires 24 volt Electro-Launch or 12 volt car battery power supply for launching. Kit is complete with all parts and detailed instructions (but not engines). (Estes 1966 Catalog)

Catalog Liveries

1966

1967

1968

1969

1970

1971

1972

1973

Web Liveries

Face Card(s)

Also of interest: Gemini Titan Launch Vehicle Family

Gemini Titan (#1978)

MODEL NAME: *Gemini Titan* *Also known as*:

NUMBER: #1978

Introduced: 1987
Final Year: 1988
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.375"
Diameter: 1.637"
Span:
Weight: 2.15 oz

Mfg. Description: Estes' 1/73 scale model of NASA's Gemini-Titan (GR-3) is over 1=1/2 feet tall. Features plastic capsule and removable display nozzles. A clear plastic fin unit is attached for flights over 600 feet high. Recovery is via 12" parachute. (Estes 1987 Catalog)

Catalog Liveries

1987

Web Liveries

Face Card(s)

Also of interest: Gemini Titan Launch Vehicle Family

Geo Sat LV (#1977)

MODEL NAME: **Geo Sat LV** *Also known as*:

NUMBER: #1977

Introduced: 1987
Final Year: 1990
Designer:

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 28"
Diameter: 1.637"
Span:
Weight: 4.3 oz

Mfg. Description: Heavy-lift launch vehicle for large satellite payloads. Kit features simulated strap-on solid rocket boosters, see-through payload section with highly detailed visible satellite, and an 18" parachute for reliable recovery. Realistic decor and 2 feet 4 inches of rocket make lift-offs impressive. (Estes 1987 Catalog)

Catalog Liveries

1977

Web Liveries

Face Card(s)

Also of interest:

(Astron) Goblin (K-55 or #1255)

MODEL NAME: **Astron Goblin** *Also known as*: Goblin

NUMBER: K-55 or #1255

Introduced: 1970
Final Year: 1982
Designer: Wayne Kellner

Type: Sport
Motor Mount: 1x24mm
Recovery: Streamer
Stages: 1
Length: 14.32”
Diameter: 1.325”
Span:
Weight: 2.0 oz

Mfg. Description: Powerful Fast. This spooky kit gets up and moves. Its the rocket you'll need a good recovery team for. Adapters permit a wide range of engine possibilities. (Estes 1972 Catalog)

Catalog Liveries

1972

1973

1975

1977

1978

1980

1981

1982

Face Card(s)

Also of interest: Estes Goblin Family

Guardian (#2179)

MODEL NAME: **Guardian** *Also known as*:

NUMBER: #2179

Introduced: 2003
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.13"
Diameter: 1.33”
Span:
Weight: 2.4 oz

Mfg. Description: Protect the airspace around your neighborhood from surprise attacks with the Estes Guardian!

This Model Rocket kit was created with a multiple-fin design, representative of the Nike ground to air missiles that were used in our country's defense for years.

Between 1954 and 1974 many USA cities were ringed by Nike missile sites, intended to protect against attack by enemy bombers. The first versions of the missiles were armed with high explosive warheads, so they could bring down the target even with a near miss.

The Guardian requires more skill in building and painting. (Estes 2011 Web Ad)

Catalog Liveries

2003

2004

2005

2006

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest:

(Astron) Gyroc (K-24 or #1224)

MODEL NAME: **Astron Gyroc** *Also known as*: Gyroc

NUMBER: K-24 or #1224

Introduced: 1965
Final Year: 1983
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Helicopter
Stages: 1
Length: 9.75"
Diameter: 0.736”
Span:
Weight: 0.58 oz

Out Of Production

Mfg. Description: Sky-high performance, plus a unique, dependable recovery system, make this model a perfect addition to your rocket fleet. With light weight and streamlined design, the Gyroc soars to amazing altitudes. Helicopter recovery brings it back gently, close to the launcher. A $1.25 value, the Gyroc is available only as a free bonus when you order $5.00 or more of other kits and supplies. (Estes 1967 Catalog)

Catalog Liveries

1967

1969

1970

1971

1972

1973

1974

1977

1978

1980

1981

1982

1983

Web Liveries

Face Card(s)

Also of interest:

Hawkeye (#0873)

MODEL NAME: **Hawkeye** *Also known as*:

NUMBER: #0873

Introduced: 1986
Final Year: 1996
Designer:

Type: Exotic
Motor Mount: 1x13mm
Recovery:
Stages: 1
Length: 8.5"
Diameter: 0.541"
Span:
Weight: 0.42 oz

Mfg. Description: Military styling, fiber fins, and three-color decal make this a fine addition to any model rocket collection. Mini-engine flights are out of sight! (Estes 1986 Catalog)

Catalog Liveries

1986

1987

1989

1990

1993

1995

1996

Face Card(s)

Also of interest:

7 4 8

Hercules (#1377)

MODEL NAME: **Hercules** *Also known as*:

NUMBER: #1377

Introduced: 1982
Final Year: 1995
Designer:

Type:Sport, Payload, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 21.6"
Diameter: 0.976"
Span:
Weight: 1.84 oz

Mfg. Description: Clear payload section highlights this two-stager. Sleek design that can be flown as a single or two-stage model. Flights over 2500 ft.! (Estes 1982 Catalog)

Catalog Liveries

1982

1983

1984

1985

1986

1989

1990

1993

1994

1995

Face Card(s)

Also of interest:

7 5 0

Hi-Flier (#2178)

MODEL NAME: **Hi-Flier** *Also known as*:

NUMBER: #2178

Introduced: 2003
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 12 in. (30.5 cm)
Diameter: 0.74 in. (19 mm)
Span:
Weight: 0.82 oz. (23.2 g)

Mfg. Description: How high will a High-Flier go? The answer is OUTTA SIGHT!! No one knows for sure. Or maybe you do?

The Estes Hi-Flier is an ultra high performance model rocket with tons of attitude. Be sure and keep your eye on this stream-lined missile as it climbs to amazing heights over 1,600 feet, (OK we told you) and recovers with a fluorescent orange streamer. Watch it climb and climb and climb and...well, you get the idea! (Estes 2011 Web Ad)

Catalog Liveries

2003

2004

2005

2006

2007

2008

2010

Web Liveries

2011

Face Card(s)

Also of interest:
7 5 2

Hi Flier XL (#3226)

MODEL NAME: ***Hi Flier XL*** *Also known as*:

NUMBER: #3226

Introduced: 2012
Final Year:
Designer:

Type: Sport, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 31 in. (78.7 cm)
Diameter: 1.64 in. (42 mm)
Span:
Weight: 3.5 oz. (99.2 g)

Mfg. Description: The name says it all! A sleek sport rocket standing over 30 inches tall, the Hi-Flier XL is an upsized replica of the #1 selling 2178 Hi-Flier. This rocket can heights over 1300 amazing feet.

The Hi-Flier XL flies on C11, D and *E engines and a bright 18 inch parachute brings it back to earth. Plan to fly this one again and again! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2012

Web Liveries

Face Card(s)

Also of interest: Estes Hi Flier Family

Honest John (K-27 or #1227)

MODEL NAME: **Honest John** *Also known as*:

NUMBER: K-27 or #1227

Introduced: 1966
Final Year: 1979
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13.75"
Diameter: 0.976"
Span: 4.4"
Weight: 1.19 oz

Mfg. Description: A beautiful scale model that performs with brilliance. Lifts off the launch pad fast and streaks skyward straight and true. Recommended for experienced modelers, the kit comes complete. An exciting flight model and a historic one for your display shelf. (Estes 1967 Catalog)

Catalog Liveries

1967

1968

1969

1970

1971

1972

1973

1975

1976

1976 Christmas

1977

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family

Honest John (#1919)

MODEL NAME: **Honest John** *Also known as*:

NUMBER: #1919

Introduced: 1984
Final Year: 1988
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.2"
Diameter: 1.325"
Span:
Weight: 1.78 oz

Mfg. Description: An updated version of this famous U.S. Army missile. Flights to 1,000 feet. (Estes 1984 Catalog)

Catalog Liveries

1984

1985

Web Liveries

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family

(Maxi) Honest John (#2166)

MODEL NAME: **Honest John** *Also known as*: Maxi Honest John, Maxi Brute Honest John

NUMBER: #2166

Introduced: 2000
Final Year: 2000
Designer: Ed Brown

Type: Scale, Reissue
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family, Estes Maxi Brute Family

(Mini Brute) Hornet (TK-4 or #0804)

MODEL NAME: **Hornet** *Also known as*: Mini Brute Hornet

NUMBER: TK-4 or #0804

Introduced: 1972
Final Year: 1974
Designer:

Type: Sport, Payload
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 10.26"
Diameter: 0.767"
Span:
Weight: 0.5 oz

Mfg. Description: A Mini-Brute with a payload section for space experiments! Extra heavy duty construction. Quick change engine mount. (Estes 1972 Catalog)

Catalog Liveries

1972

1973

Web Liveries

Face Card(s)

Also of interest: Estes Mini Brute Marketing Family

Hornet (#3037)

MODEL NAME: **Hornet** *Also known as*:

NUMBER: #3037

Introduced: 2010
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 19.25"
Diameter: 1.33"
Span:
Weight: 2.3 oz

Mfg. Description: Back by popular demand, the Hornet is sure to be a crowd pleaser. Launched with standard engines this time around, this rocket can reach heights of 775 feet.
A high quality wood nose cone, laser cut wood fins and waterslide decals mimic the original kit. Any changes Estes made only enhanced this classic rocket.

A Skill Level 1 kit, building is straight forward with easy to follow instructions. Plan an afternoon to build and few hours to let that paint dry and before you know it, you will be on the flying field! (Estes 2011 Web Ad)

Catalog Liveries

2010

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Hornet Family

Hyper Bat (#7217)

MODEL NAME: **Hyper Bat** *Also known as*:

NUMBER: #7217

Introduced: 2011
Final Year:
Designer:

Type: Sport, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 21.9 in. (55.6 cm)
Diameter: 0.98 in. (25 mm)
Span:
Weight: 1.8 oz. (51 g)

Mfg. Description: A sporty 2-stage sport rocket standing over 20 inches tall, the Hyper Bat is one impressive rocket. This rocket can be flown as a single stage or 2-stage and can reach out-of-sight heights of 2125 feet.

The Hyper Bat flies on standard engines and a really cool 12 inch parachute brings it back to earth. Prepare for re-launch with a new Estes engine, wadding, an igniter and igniter plug. (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2011

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Bat Family

Icarus (K-77 or #1277)

MODEL NAME: **Icarus** *Also known as*:

NUMBER: K-77 or #1277

Introduced: 1976
Final Year: 1983
Designer: Bill Simon

Type: Sport, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 20.8"
Diameter: 0.976"
Span:
Weight: 1.3 oz

Out Of Production

Mfg. Description: High altitude payload vehicle with see-through cargo section. Achieve flights of over 1,000 feet with lightweight payload. Simulated sounding rocket appearance with dual roll pattern decor and 12" parachute recovery. Plastic nose cone, die cut balsa parts, and quick release engine mount are included for rapid assembly and easy operation. (Estes 1976 Catalog)

Editorial Note:

Catalog Liveries

1976

1977

1981

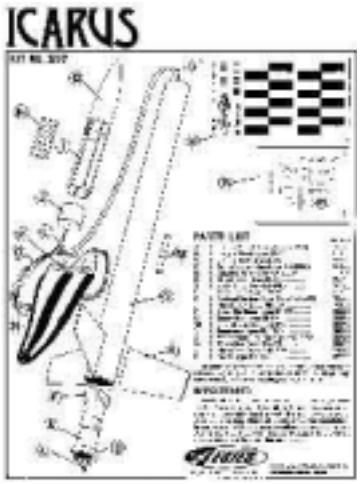
1982

1983

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Interceptor (K-50 or #1250)

MODEL NAME: **Interceptor** *Also known as*:

NUMBER: K-50 or #1250

Introduced: 1971
Final Year: 1981
Reissued and Withdrawn: 2008
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 26"
Diameter: 1.325"
Span: 7.4"
Weight: 3.85 oz

Mfg. Description: This is the spectacular model featured on the catalog cover. The most colorful and exciting Estes rocket ever! Carefully detailed plastic wing pods, nose cone and tail cone. Two huge decal sheets. (Estes 1971 Catalog)

Here's the Estes bring back that everyone has been asking for, the original Interceptor! Modern design and production technology has allowed us to improve upon an already great rocket design with the reintroduction of one of the most popular model rockets of all time! The new Interceptor retains all of the original intergalactic cruiser looks that made it a favorite for years. Our designers improved many of the parts and assembly of this classic, so sentimental rocketeers won't be disappointed! There are a number of upgrades to the original kit, including laser cut balsa fins, a highly detailed, blow molded nose cone, molded two piece wing pods, molded exhaust port and an accurately reproduced, waterslide decal set.

All these upgrades make for an exceptional building and flying experience! Towering over 2 feet tall, this new version delivers excellent flight performance on B & C engines. When flown on the recommended C engine, it's possible to blast this gorgeous rocket to heights of more than 525 feet. Be the hit at your launch site, get your Interceptor today! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

1971

1973

1975

1977

2008

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Estes Interceptor Family

Interceptor E (#1350)

MODEL NAME: **Interceptor E** *Also known as*:

NUMBER: #1350

Introduced: 2008
Final Year:
Designer: Wayne Kellner

Type: Exotic, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 39 in. (99 cm)
Diameter: 2 in. (51 mm)
Span: 11.25 in.(28.6 cm)
Weight: 13.5 oz. (363 g)

Mfg. Description: Super-sized at its best! Estes super-sized an already great rocket with the release of the Interceptor E. This new design retains the intergalactic cruiser look of the original, but has added many new features that make this a new classic in our line. We took the basic Interceptor from years ago, bumped up the size and added several heavy duty, molded and laser cut parts to improve assembly and durability of this mega rocket. While impressive and as large as it is, this rocket is a fairly easy build, yet still retains the classic look of its smaller brother!

The kit has many assembly upgrades to make building this impressive model easier than you might think. We have included many new features like laser cut wood fins, a highly detailed blow molded nose cone and molded plastic engine centering rings specifically designed to handle the power. We also included some nicely detailed, two piece molded wing pods, molded plastic space antennae and a super detailed plastic engine exhaust outlet. After painting, you can finish this beauty off with two sheets of upsized, accurately reproduced waterslide decals. All these upgrades make for a spectacular model rocket building and flying experience!

For size and performance, this giant is over 3 feet long and flies exceptionally well on our powerful E9-4 engine. When flown on this engine, this rocket blasts to over 450 feet. Recovery duties are handled by a rugged 24 inch preassembled nylon parachute, ensuring that your model can return safely to deliver another amazing flight. No doubt about it, this upsized classic will be the talk of any launch site! Be the envy of your rocket group, get yours today and be a part of a new legend...the Estes Interceptor E! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

0 2008 2010

Web Liveries

2012

Face Card(s)

Also of interest: Estes Interceptor Family

(Astron) Invader (K-19 or #1219)

MODEL NAME: **Astron Invader** *Also known as*: Invader

NUMBER: K-19 or #1219

Introduced: 1965
Final Year: 1967
Designer: Ron McClaren

Type: Boost Glider, Oddroc
Motor Mount: 1x18mm
Recovery: Glide
Stages: 1
Length: 11.8"
Diameter: 0.736"
Span: 8.7"
Weight: 0.89 oz

Mfg. Description: Flying Saucer? UFO? The Astron Invader is a truly unique boost glider. Recommended for the experienced modeler, the Invader gives top duration flight after flight -- fascinates spectators with its performance and appearance. Comes in kit form with complete instructions (less engines). (Estes 1966 Catalog)

Editorial Note:

Catalog Liveries

1966

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

(Mini Brute) Javelin (#0815)

MODEL NAME: **Javelin** *Also known as*: Mini Brute Javelin

NUMBER: #0815

Introduced: 1973
Final Year: 1984
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 12.4"
Diameter: 0.541"
Span:
Weight: 0.34 oz

Mfg. Description: Easy to build competition design. Scale-like appearance, fantastic performance. Sounding rocket vehicle, reaches altitudes over 1,000 feet. (Estes 1973 Catalog)

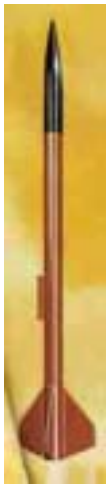
Editorial Note: This rocket was part of a 2 rocket set, along with the Super Fleas, also #0815

Catalog Liveries

1973

1975

1976


1977

1978

1980

1981

1982

1983

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

7 7 8

(Pro Series) Jayhawk (#2085)

MODEL NAME: **Jayhawk** *Also known as*: Pro Series Jayhawk

NUMBER: #2085

Introduced: 1993
Final Year: 1996
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

1993

Web Liveries

Face Card(s)

Also of interest: AQM-37 Jayhawk Ordnance Family, Estes Pro Series Family

Little Joe II (#0892)

MODEL NAME: **Little Joe II** *Also known as*:

NUMBER: #0892

Introduced: 1991
Final Year: 1992
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 10.5"
Diameter: 1.54"
Span:
Weight: 1.02 oz

Mfg. Description: 1/100th scale model of launch vehicle used to test the Apollo capsule escape system. After successful testing of the escape system, the Apollo capsules and escape rocket were used in the manned flights of the Saturn space program. Our model flies to heights of 425 feet. (Estes 1991 Catalog)

Editorial Note:

Catalog Liveries

1991

Web Liveries

Face Card(s)

Also of interest: Little Joe II Launch Vehicle Family

Leviathan (#9700)

MODEL NAME: **Leviathan** *Also known as*: Pro Series II Leviathan

NUMBER: #9700

Introduced: 2011
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 41.5 in. (105.4 cm)
Diameter: 3 in. (7.6 cm)
Span:
Weight: 17.5 oz. (496.1 g)

Mfg. Description: Pro Series II

Fantastic is what the Leviathan is! Introduced in 2011, the Pro Series II line features "big boy" toys!

The Leviathan launches on composite motors and has through the wall fin mounting. An awesome feature to this series is the new quick release motor retention system (Motor Retainer Set - also sold separately). Though massive looking, the construction of this kit is not difficult. Building and finish work can easily be accomplished over a few days.

Sure to be a crowd pleaser, the Leviathan is just waiting to be added to your collection! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2012

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Pro Series II Marketing Family

Little John (#0819)

MODEL NAME: **Little John** *Also known as*: Mini Brute Little John

NUMBER: #0819

Introduced: 1973
Final Year: 1981
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 14"
Diameter: 0.976"
Span:
Weight: 8.875 oz

Mfg. Description: An authentic appearance of a semi-scale model. Surface to surface military vehicle with U.S. Army decor. (Estes 1973 Catalog)

Editorial Note:

Catalog Liveries

1973

1975

1977

1978

1980

1981

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MGR-3 Little John Ordnance Family, Estes Mini Brute Family

Long Tom (#3016)

MODEL NAME: **Long Tom** *Also known as*:

NUMBER: #3016

Introduced: 2010
Final Year:
Designer:

Type: Sport, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 33.25"
Diameter: 1.33"
Span:
Weight: 1.2 oz

Mfg. Description: A sleek 2-stage sport rocket standing over 33 inches tall, the Long Tom is one mighty impressive rocket. This rocket can be flown as a single stage or 2-stage and can reach heights of 1100 amazing feet.

The Long Tom flies on standard engines and a bright 18 inch parachute brings him back to earth. Prepare him for re-launch with a new Estes engine, wadding, an igniter and igniter plug.

A high quality wood nose cone, laser cut wood fins and waterslide decals mimic the original kit. Any changes Estes made only enhanced this classic kit. (Estes 2011 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Long Tom Family

Lucky Seven (#0807)

MODEL NAME: **Lucky Seven** *Also known as*:

NUMBER: #0807

Introduced: 2005
Final Year: 2007
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 7.9"
Diameter: 1.37"
Span:
Weight: 1.5 oz

Mfg. Description: The Lucky Seven is a stellar looking version of the Acceleration Engineering X Prize Competition spaceship. Blasting 200 feet in the air and powered by an Estes Mini Engine. Recovered by a colorful, fully assembled parachute. Easy Assembly. 1:50 Scale. (Estes 2005 Catalog)

Editorial Note:

Catalog Liveries

2005

2006

2007

Web Liveries

Face Card(s)

Instruction Header

Also of interest: X Prize Launch Vehicle Family, Estes X Prize Family

Mach-2 (#1379)

MODEL NAME: **Mach-2** *Also known as*:

NUMBER: #1379

Introduced: 1982
Final Year: 1984
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 25.5"
Diameter: 1.637"
Span:
Weight: 2.6"

Mfg. Description: Experimental sounding rocket design. This bird is easy-to-assemble and mighty "D" engine powered for flights over 1,000 feet. (Estes 1982 Catalog)

Editorial Note:

Catalog Liveries

1982

1983

1984

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Magician (#2440)

MODEL NAME: **Magician** *Also known as*:

NUMBER: #2440

Introduced: 2010
Final Year:
Designer:

Type: Payload
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 33.5 in. (85 cm)
Diameter: 1.33 in. (34 mm)
Span:
Weight: 3.5 oz. (100 g)

Mfg. Description: Conjure up some special, space magic with the Magician! No tricks up anyone's sleeve here, just a super high performance payload model rocket. The talented Estes rocket shop designers have spun their magic to create an enormous, supersized payload rocket. The Magician can handle all the power you put in the motor tube to send it on a magical mystery tour of the atmospheric kind!

This sorcerer stands an impressive 33.5 inches tall and has a clear payload section. You can launch just about anything into space. Well, not quite anything, but it's sure to hold a small race car, an action figure, or whatever your imagination can dream up. If it fits into the payload section, launch it!

A Skill Level 3 rocket, this kit comes with high quality laser cut wood fins and waterslide decals. Designed to be flown on D or *E engines, this rocket will scream off the launch pad to heights over 1600 feet. Getting this illusionist back to earth is magically accomplished on a colorful preassembled 18 inch parachute. (Estes 2012 Web Ad)

Editorial Note: Not to be confused with Estes Magician (#1943)

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Also of interest:

Magnum (#2032)

MODEL NAME: **Magnum** *Also known as*:

NUMBER: #2032

Introduced: 1990
Final Year: 1994
Designer:

Type: 2 Stage, Payload
Motor Mount: 1x24mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 34.625"
Diameter: 1.637"
Span:
Weight: 4.17 oz

Out Of Production

Mfg. Description: Big, challenging rocket with clear payload bay for cargo features "D" powered booster stage and regular engine upper stage. Launch to altitudes approaching 1/4 mile. Rocket and cargo return safely with giant 24" parachute. A 3/16" dia. Maxi Rod (#2244) is required for launch. (Estes 1990 Catalog)

Editorial Note:

Catalog Liveries

1990

1992

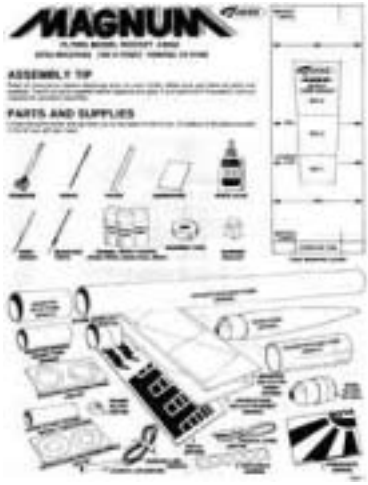
1993

1994

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

(Astron) Mark (K-2 or #1202)

MODEL NAME: **Astron Mark** *Also known as*: Mark

NUMBER: K-2 or #1202

Introduced: 1961
Final Year: 1971
Designer: G. Harry Stine

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 9.12"
Diameter: 0.765"
Span:
Weight: 0.65 oz

Mfg. Description: The Astron Mark is excellent for the beginner in model rocketry. This kit is easy to build, and acquaints the rocketeer with the methods of streamer recovery. Ideal for demonstrations and sport flying. (Estes 1961 Catalog)

Editorial Note:

Catalog Liveries

1961

1963

1964

1966

1967

1968

1969

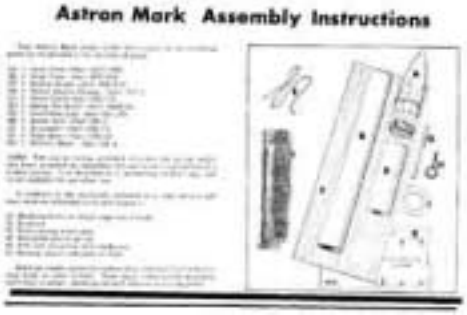
1970

1971

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Mark Family

(Astron) Mark II (K-2A or #1202)

MODEL NAME: **Mark II** *Also known as*: Astron Mark II

NUMBER: K-2A or #1202

Introduced: 1971
Final Year: 1984
Designer: Larry Renger

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 9.1"
Diameter: 0.765"
Span:
Weight: 0.7 oz

Mfg. Description: Ideal for sport or competition flying. Top-notch performance every time. (Estes 1972 Catelog)

Editorial Note:

Catalog Liveries

1972

1973

1975

1977

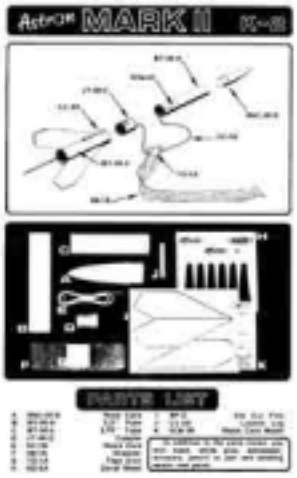
1981

1983

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Mark Family

Mars Lander (K-43 or #1243)

MODEL NAME: **Mars Lander** *Also known as*:

NUMBER: K-43 or #1243

Introduced: 1969
Final Year: 1983
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12"
Diameter: 3.8"
Span: 13.2"
Weight: 3 oz

Mfg. Description: Authentic, forward-looking concept in planetary exploration vehicles. (Estes 1969 Catalog)

Editorial Note:

Catalog Liveries

1969

1970

1971

1972

1973

1975

1976

1977

1978

1981

1982

1983

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Mars Snooper (K-20 or #1220)

MODEL NAME: **Mars Snooper** *Also known as*:

NUMBER: K-20 or #1220

Introduced: 1965
Final Year: 1974
Designer: Gene Street

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21.7"
Diameter: 0.95"
Span:
Weight: 2.2 oz

Mfg. Description: A truly different model rocket, the Mars Snooper combines interesting appearance with reliable performance - makes and excellent model for demonstration flying and display. Features payload section and 18" parachute, pre-cut fins for easier assembly. Recommended for the careful modeler, the Mars Snooper kit comes with all parts and detailed instructions (but no engines). (Estes 1966 Catalog)

Editorial Note:

Catalog Liveries

1966

1967

1968

1969

1970

1971

1972

1973

Face Card(s)

Instruction Header

Also of interest: Estes Mars Snooper Family

Mars Snooper (#2063)

MODEL NAME: **Mars Snooper** *Also known as*: Collector's Series Mars Snooper

NUMBER: #2063

Introduced: 1992
Final Year: 1992
Designer: Gene Street

Out Of Production

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21.7"
Diameter: 0.95"
Span:
Weight: 2.2 oz

Mfg. Description: Limited edition flying model rocket with display stand and written history. Introduced into the Estes line as a fantasy demonstration rocket. (Estes 1992 Catalog)

Editorial Note:

Catalog Liveries

1992

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Mars Snooper Family, Estes Collector's Series Family

Mars Snooper II (K-20 or #1220)

MODEL NAME: **Mars Snooper II** *Also known as*: Astron Mars Snooper II

NUMBER: K-20 or #1220

Introduced: 1975
Final Year: 1980
Designer: Gene Street

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.3"
Diameter: 0.976"
Span:
Weight: 2.3 oz

Mfg. Description: Looks like a real spaceship. Futuristic decor, advanced styling, and simulated touch down pads give it a real science-fiction appearance. Eye-catching flights with big 18" parachute recovery. Includes die-cut parts, kit decals, and quick release engine mount. (Estes 1975 Catalog)

Editorial Note: It seems that when Estes modified their original Mars Snooper in 1975, they kept the same item number and K number as the original but did modify the name.

Catalog Liveries

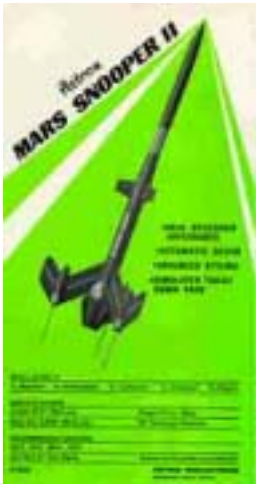
1975

1976

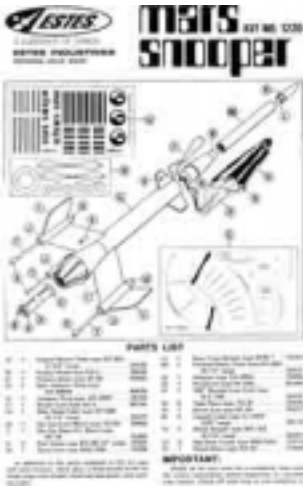
1977

Web Liveries

Face Card(s)



Instruction Header



Also of interest: Estes Mars Snooper Family

Maxi Alpha (#1291)

MODEL NAME: Maxi Alpha *Also known as*:

NUMBER: #1291

Introduced: 1977
Final Year: 1980
Designer:

Type: Sport, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 33.2"
Diameter: 2.6"
Span:
Weight: 6.17 oz

Out Of Production

Mfg. Description: Giant scale version of our most popular rocket, the Alpha. Great for demonstrations and slow, realistic lift-offs and dramatic 24" chute recovery. Flights up to 500 feet with "D" engine. Comes with die cut balsa fins, molded plastic nose cone, quick release engine mount and huge decal. Assembles in approximately 30 minutes. Perfect launch vehicle for one, two or three Firefly gliders. (Estes 1977 Catalog)

Catalog Liveries

1977

1979

Web Liveries

Face Card(s)

Also of interest: Estes Alpha Family

Maxi Alpha 3 (#1321)

MODEL NAME: **Maxi Alpha 3** *Also known as*:

NUMBER: #1321

Introduced: 1979
Final Year: 1985
Designer: Bruce Paton, Keith Niskern

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 33.25"
Diameter: 2.6"
Span:
Weight: 7.4 oz

Out Of Production

Mfg. Description: Very easy-to-assemble giant scale version of one of our most popular kits. Can be ready to launch in approximately 30 minutes. Features new press-fit plastic fin unit plus plastic nose cone. "D" engine power for truly spectacular flights up to 500 feet. Perfect for demonstrations. Really dramatic recovery via huge 24" parachute. Nose cone, fin unit and body tube are all pre-colored. No painting required! Includes big kit decals and quick release engine mount too! A 3/16" launch rod is recommended for lift off. (Estes 1979 Catalog)

Catalog Liveries

1979

1981

1983

1985

Web Liveries

Face Card(s)

8 1 2

Also of interest:

Maxi Alpha 3 (#1903)

MODEL NAME: **Maxi Alpha 3** *Also known as*:

NUMBER: #1903

Introduced: 2011
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 33.25 in. (84.5 cm)
Diameter: 2.6 in. (66 mm)
Span:
Weight: 6.6 oz. (187 g)

Mfg. Description: D & E engine power at its finest! Powered by a D12-3, *E9-4 or an *E9-6, the Maxi Alpha 3 can reach heights of 700 feet! That's pretty amazing for a rocket that weighs over 6 ounces yet is fairly simple to build.

It might take an afternoon of your time but then it's off to the flying field to have some fun! (Estes 2011 Web Ad)

Catalog Liveries

2011

Web Liveries

2011

Face Card(s)

Also of interest:

Maxi-Brute V-2 (#1952)

MODEL NAME: **Maxi-Brute V-2** *Also known as*:

NUMBER: #1962

Introduced: 2002
Final Year: 2004
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 33.5"
Diameter: 3.94"
Span:
Weight: 12.05 oz

Mfg. Description: Beautiful 1/19th scale model of a German ground-to-ground ballistic missile. Comes with blow molded nose cone and tail cone and vacuum formed fins. (Estes 2002 Catalog)

Editorial Note:

Catalog Liveries

2002

Web Liveries

Face Card(s)

Instruction Header

Also of interest: V-2 Ordnance Family, V-2 Launch Vehicle Family, Estes Maxi Brute Marketing Family

Maxi Honest John (#1269)

MODEL NAME: **Maxi Honest John** *Also known as*: Maxi Brute Honest John, Honest John

NUMBER: #1269

Introduced: 1975, also 1993 for one year
Final Year: 1983
Designer: Ed Brown

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 37"
Diameter: 2.6"
Span:
Weight: 14 oz

Mfg. Description: Our newest Maxi-Brute is a 1/9 scale model of the famous U.S. Army surface-to-surface, supersonic ballistic missile. Lists as a 762mm, very heavy field artillery rocket, the real M31 series Honest John follows a free flight trajectory similar to that of an artillery shell. First developed as a JATO booster for other missiles, the motor had such tremendous thrust that a warhead and fins were added to make it a separate rocket. Completely mobile, the Honest John can be carried by and fired from a regulation Army truck. A small team of only five or six men is required for handling and launching. Employing a solid fuel rocket motor, it has high reliability coupled with great accuracy over a range of 15 to 30 miles. Producing a thrust of 90,950 lbs it travels at speeds of mach 1.5 and is capable of delivering a nuclear or high explosive warhead. Spin motors provide initial stabilization at liftoff. One of the main stays of the Army's tactical atomic weapons system, the Honest John has been operation with US Pentomic airborne and infantry divisions and overseas with our NATO forces.

Our new, highly detailed version of this well known rocket uses single "D" engine power for truly realistic lift-offs.

Smaller diameter body should make it our best performing Maxi. Comes with pre-shaped, accurately scaled fins and molded plastic nose cone, plus quick-release engine mount and additional scale data. Spectacular recovery with dual 24" orange and white canopy chutes. Great for demonstrations and perfect as a display model. A 3/16" is recommended for best lift-off results. (Estes 1995 Catalog)

1975

1976 Christmas

1977

1979

1980

1981

1982

1983

1993

Web Liveries

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family, Estes Maxi Brute Family

Maxi Streak (#1387)

MODEL NAME: **Maxi Streak** *Also known as*:

NUMBER: #1387

Introduced: 1982
Final Year: 1984
Designer:

Type: Sport, Upscale
Motor Mount: 1x24mm
Recovery: Streamer
Stages: 1
Length: 13.1"
Diameter: 1.637"
Span:
Weight: 1.75 oz

Mfg. Description: High altitude "D" powered version of the famous Estes Streak. Delivers flights over 1300 feet and returns via huge 90" streamer recovery. (Estes 1982 Catalog)

Editorial Note:

Catalog Liveries

1982

1983

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Streak Family

Maxi V-2 (K-67 or #1267)

MODEL NAME: **Maxi V-2** *Also known as*: Maxi Brute V2

NUMBER: K-67 or #1267

Introduced: 1974
Motor Mount: 1x24mm
Final Year: 1981
Designer: Wayne Kellner

Out Of Production

Type: Scale
Recovery: Parachute
Stages: 1
Length: 33.5"
Diameter: 3.938"
Span:
Weight: 12.5 oz.

Mfg. Description: This new giant scale model is a replica of the ground-to-ground ballistic missile developed at Peenemunde before and during World War II. The United States captured many of these rockets during World War II and used them as test vehicles at White Sands during the late 1940s and early 1950s. The last V-2 firing was made at the White Sands Proving Ground in December, 1952. (Estes 1974 Catalog)

Catalog Liveries

1974

1977

Web Liveries

Face Card(s)

Also of interest: Estes Maxi Brute Family, All V2 Families

Mean Machine (#1295)

MODEL NAME: **Mean Machine** *Also known as*:

NUMBER: #1295

Introduced: 1978
Final Year:
Designer: Mike Dorffler

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 76.75"
Diameter: 1.637"
Span:
Weight: 5.8 oz

Mfg. Description: Tallest rocket in the Estes fleet. Over 6 feet long with giant 24" parachute recovery. "D" engine powered for spectacular flights over 800 feet. Easily assembled with die cut balsa fins, quick release engine mount and plastic nose cone. Huge "kit name" decal adds the finishing touch for a really great looking bird. (Estes 1978 Catalog)

Editorial Note:

Catalog Liveries

1978

1981

1983

1985

1986

1989

1993

1995

1996

1998

2001

2002

2003

2004

2007

2008

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Mean Machine Family

Mega Mosquito (#1335)

MODEL NAME: **Mega Mosquito** *Also known as*:

NUMBER: #1335

Introduced: 2011
Final Year:
Designer: Bill Simon

Type: Sport, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 18.6 in. (47.2 cm)
Diameter: 2.6 in. (66 mm)
Span:
Weight: 5.2 oz. (147.4 g)

Mfg. Description: D & E engine power and mini engine power too! Powered by a D12-3, D12-5, E9-4 or an E9-6, the Mega Mosquito (Skill Level 2) can reach heights of 750 feet! That's pretty amazing for a rocket that weighs over 5 ounces yet is simple to build.

And let's not forget about the BONUS Mosquito (Skill Level 1) included. That's the mini engine power of the kit. Standing just 3.8" tall, the Mosquito will go 800 feet high!

It might take an afternoon of your time but then it's off to the flying field to "double" your fun! (Estes 2012 Web Ad)

Editorial Note: The 2011 Catalog image appears to be of the standard Mosquito instead of the Mega Mosquito.

Catalog Liveries

2011

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Mosquito Family

Menace (#2173)

MODEL NAME: **Menace** *Also known as*:

NUMBER: #2173

Introduced: 2001
Final Year: 2002
Designer:

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18"
Diameter: 1.64"
Span:
Weight: 2.6 oz

Mfg. Description: The Menace is a great defender of freedom. This ground-to-air missile is definitely a menace to its target. Protect the skies with the Menace! (Estes 2002 Catalog)

Editorial Note:

Catalog Liveries

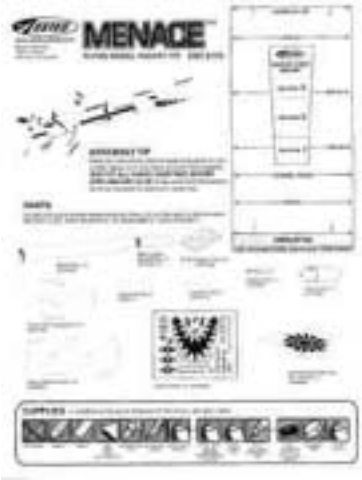
2001

2002

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Mercury Atlas (#2111)

MODEL NAME: **Mercury Atlas** *Also known as*:

NUMBER: #2111

Introduced: 1995
Final Year: 1998
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 33"
Diameter: 3.4"
Span:
Weight: 7.8 oz

Mfg. Description: The Mercury Atlas, a never before produced flying scale model. This 33 inch tall scale model features a wealth of intricate detail created in injection and vacuum formed plastic. (Estes 1995 Catalog)

Editorial Note:

Catalog Liveries

1995

1998

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Mercury Atlas Launch Vehicle Family

Mercury Redstone (K-41 or #1241)

MODEL NAME: **Mercury Redstone** *Also known as*:

NUMBER: K-41 or #1241

Introduced: 1969
Final Year: 1981
Designer: Gene Street

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 23.5"
Diameter: 1.637"
Span:
Weight: 2.1 oz

Mfg. Description: A beautiful rocket to thrill even the most advanced rocketeer. The Mercury Redstone is an exact scale model of the vehicle that boosted Commander Alan Shepard on America's first manned space flight. Scaled at 1 to 42, the model is accurately detailed and includes a complete decal sheet. Although it requires care and precision in construction, the completed model will become one of your favorite rockets. Kit comes complete with all parts and instructions. (Estes 1969 Catalog)

Editorial Note:

Catalog Liveries

1969

1970

1971

1972

1973

1975

1977

1978

1981

Web Liveries

Face Card(s)

Also of interest: Mercury Redstone Launch Vehicle Family

Mercury Redstone (#1921)

MODEL NAME: **Mercury Redstone** *Also known as*:

NUMBER: #1921

Introduced: 1984
Final Year: 1990
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 28.75"
Diameter: 2.04"
Span:
Weight: 3.0 oz

Mfg. Description: Historical 1/35 scale model of the Mercury sub-orbital rocket used to launch Alan Shepard into space flight May 5, 1961. Authentic detailing includes large decal and injection molded mercury capsule and tower. Rocket and capsule each return to Earth via 12" chute recovery. (Estes 1984 Catalog)

Editorial Note:

Catalog Liveries

1984

1985

1986

Web Liveries

Face Card(s)

Also of interest: Mercury Redstone Launch Vehicle Family

Metalizer (#2168)

MODEL NAME: **Metalizer** *Also known as*:

NUMBER: #2168

Introduced: 2007
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.5 in. (57.2 cm)
Diameter: 1.35 in. (34 mm)
Span:
Weight: 2.4 oz. (68 g)

Mfg. Description: You'll need protection from UV rays when the Metalizer streaks upward! If you want a rocket that's easy to spot while streaking skyward, the Metalizer is the one for you.

This Estes E2X - Easy to Assemble kit has just a few easy parts to glue together.

You'll be on the flying field in about an hour. The super cool, chrome looking body tube is matched up with a radically shaped, chromed fin set and super slick nose cone to create the ultimate silver bullet! It makes a smooth landing with its bright-colored 12 inch preassembled parachute. Bring your shades because you're going to need them when launching the Metalizer! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2007

2008

2010

Web Liveries

2012

Face Card(s)

Instruction Header

8 3 6

Micron (#0876)

MODEL NAME: **Micron** *Also known as*:

NUMBER: #0876

Introduced: 1989
Final Year: 1991
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 8.25"
Diameter: 0.736"
Span:
Weight: 0.50 oz

Out Of Production

Mfg. Description: This little rocket has all the extras. Powered by Mini-Engines, Micron delivers great flights and returns to earth via streamer recovery. (Estes 1989 Catalog)

Editorial Note:

Catalog Liveries

1989

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

(Astron) Midget (K-40 or #1240)

MODEL NAME: **Astron Midget** *Also known as*: Midget

NUMBER: K-40 or #1240

Introduced: 1969
Final Year: 1973
Designer: Bill Simon

Out Of Production

Type: Sport, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 9.25"
Diameter: 0.976"
Span:
Weight: 0.56 oz

Mfg. Description: No midget in performance, this unique 2 stage rocket is designed to get the most out of smaller series III engines. Graceful in flight and fast at liftoff, the Astron Midget is an exciting design to fly. Upper stage features chute recovery while booster flutters gently back to earth. Kit contains all parts and instructions (less engines). (Estes 1969 Catalog)

Editorial Note: This is the original Midget and used short 18mm motors. It was replaced by TK-40 which used 13mm motors.

Catalog Liveries

1969

1970

1971

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Midget Family

Midget (TK-40 or #0840)

MODEL NAME: **Midget** *Also known as*:

NUMBER: TK-40 or #0840

Introduced: 1972
Final Year: 1973
Designer: Bill Simon

Type: Sport, 2 Stage
Motor Mount: 1x13mm/1x13mm
Recovery: Tumble/Parachute
Stages: 2
Length: 8.6"
Diameter: 0.736"
Span:
Weight: 0.4 oz

Out Of Production

Mfg. Description: No midget in performance, this unique two-stage rocket gets the most out of the mini-engines. Graceful flight, fast take-off. Parachute for upper stage. Booster tumbles down. (Estes 1972 Catalog)

Editorial Note: This version of the Midget replaced the 18mm “shortie” motors of the original (K-40) with 13mm motors.

Catalog Liveries

1972

1973

Face Card(s)

Instruction Header

Also of interest: Estes Midget Family, Estes Mini Brute Family

Mini Bertha (TK-3 or #0803)

MODEL NAME: **Mini Bertha** *Also known as*:

NUMBER: TK-3 or #0803

Introduced: 1971
Final Year: 1982
Designer:

Type: Sport, Downscale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 11.25"
Diameter: 0.736"
Span:
Weight: 0.484 oz

Mfg. Description: The really tough Mini Brute. Parachute recovery with colorful 8" plastic chute. Two color decal sheets. Balsa and paper construction. (Estes 1971 Fall Catalog)

Catalog Liveries

1971 (fall)

1972

1973

1975

1977

1981

Web Liveries

Face Card(s)

Also of interest: Estes Big Bertha

Mini Bomarc (TK-5 or #0805)

MODEL NAME: **Mini Bomarc** *Also known as*:

NUMBER: TK-5 or #0805

Introduced: 1972
Final Year: 1980
Designer: Larry Renger

Type: Scale
Motor Mount: 1x13mm
Recovery: parachute
Stages: 1
Length: 11.75"
Diameter: 0.736"
Span: 4.5"
Weight: 1 oz

Mfg. Description: Famous flying scale model. Authentic full color decals for Canadian Air Force decor. Die cut and pre-printed fins. (Estes 1972 Catalog)

Catalog Liveries

1972

1973

1977

Web Liveries

Face Card(s)

Also of interest: CIM-10 Bomarc Ordnance Family, Estes Mini Brute Family

Mini Cobra (#0898)

MODEL NAME: **Mini Cobra** *Also known as*:

NUMBER: #0898

Introduced: 1992
Final Year: 1996
Designer:

Type: Sport, 2 Stage
Motor Mount: 1x13mm/1x13mm
Recovery: Tumble/?
Stages: 2
Length: 10"
Diameter: 0.544"
Span:
Weight: 0.47 oz

Out Of Production

Mfg. Description: Super high performance two-stage mini sport rocket. (Estes 1992 Catalog)

Editorial Note:

Catalog Liveries

1992

1993

1995

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Mini Honest John (#2446)

MODEL NAME: **Mini Honest John** *Also known as*:

NUMBER: #2446

Introduced: 2011
Final Year:
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 11.75 in. (29.8 cm)
Diameter: 0.98 in. (25 mm)
Span:
Weight: 1.2 oz. (34 g)

Mfg. Description: Mini engine powered, this sport scaled model of a U.S. battle field artillery missile features a detailed molded nose cone and balsa fins. Although simple in construction the resulting model features plenty of detail that you will be proud to display. (Estes 2011 Web Ad)

Catalog Liveries

2011

Web Liveries

2011

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family

Mini Max (#2445)

MODEL NAME: **Mini Max** *Also known as*:

NUMBER: #2445

Introduced: 2010
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 9.75 in. (24.8 cm)
Diameter: 0.98 in. (25 mm)
Span:
Weight: 1.3 oz. (37 g)

Mfg. Description: You want it, we've got it! Since the Der Red Max is so extremely popular, we've created another smash hit with a smaller version of the Estes classic. Just like the Der Red Max, the Mini Max is uniquely designed. It has the same ballistic shaped nose cone and stubby fins as its bigger counterpart.

Standing almost 10 inches tall, this miniature version definitely has a personality all its own! Powered by Estes mini engines, it can reach amazing heights of 400 feet. After its aerial assault, recovery is accomplished with a high-viz streamer.

The new Mini Max has all the great looks of the classic version, right down to the really cool skull and crossbones decals. Like many of our new and classic kits, the Mini features a wood nose cone, laser cut wood fins and waterslide decals. (Estes 2011 Web Ad)

Catalog Liveries

2010

.Web Liveries

2011

Face Card(s)

Also of interest: Estes Der Red Max Family

Mini Mean Machine (#0865)

MODEL NAME: **Mini Mean Machine** *Also known as*:

NUMBER: #0865

Introduced: 1982
Final Year: 1990
Designer:

Type: Sport, Downscale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 38.5"
Diameter: 0.736"
Span:
Weight: 1.06 oz

Mfg. Description: Mini-powered version of our huge Mean Machine kit. Over 36 inches long and capable of flights over 700 feet. (Estes 1982 Catalog)

Editorial Note:

Catalog Liveries

1982

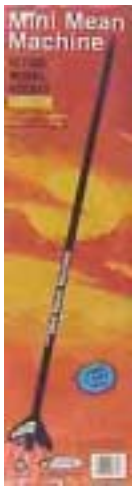
1983

1985

1989

Web Liveries

Face Card(s)



Instruction Header

Also of interest: Estes Mean Machine Family, Estes Mini Brute Family

Mini Meanie (#1202)

MODEL NAME: **Mini Meanie** *Also known as*:

NUMBER: #1202

Introduced: 2002
Final Year: 2005
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 5.25"
Diameter: 1.0"
Span:
Weight: 0.74 oz

Out Of Production

Mfg. Description: Get out of the way...the Mini Meanie is tearing up the sky. It soars up to 700 ft. (213 m.). The Mini Meanie comes with a colored nose cone and body halves, so no painting is required. (Estes 2002 Catalog)

Editorial Note:

Catalog Liveries

2002

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

8 5 2

Mini Patriot (#0896)

MODEL NAME: **Mini Patriot** *Also known as*:

NUMBER: #0896

Introduced: 1992
Final Year: 1996
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 10"
Diameter: 0.736
Span:
Weight: 0.6 oz

Mfg. Description: Semi scale model of the Desert Storm hero. (Estes 1992 Catalog)

Editorial Note:

Catalog Liveries

1992

1993

1995

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family

Mini R2-D2 (#1835)

MODEL NAME: **Mini R2-D2** *Also known as*:

NUMBER: #1835

Introduced: 1998
Final Year: 1999
Designer:

Type: Fantasy Scale, Oddroc
Motor Mount: 1x13mm
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Star Wars R2-D2 Media Family

Mk-109 Stingray (#1232)

MODEL NAME: **Mk-109 Stingray** *Also known as*: Launchables Stingray

NUMBER: #1232

Introduced: 2002
Final Year: 2003
Designer:

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16"
Diameter: 1"
Span:
Weight: 1.7 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Mk-109 Stingray Family, Estes Lauchables Marketing Family

Mk-109 Stingray (#2131)

MODEL NAME: **Mk-109 Stingray** *Also known as*:

NUMBER: #2131

Introduced: 1997
Final Year: 2002
Designer:

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16"
Diameter: 1"
Span:
Weight: 1.7 oz

Out Of Production

Mfg. Description: If Estes built missiles for the military, the Stingray would be in their arsenal! Of course the Estes rocket would be parachute recovered... and able to fly over and over again. (At considerably less cost than the military is used to paying!) Rockets to over 1,000 feet! (Estes 1997 Catalog)

Editorial Note:

Catalog Liveries

1997

1998

2000

2002

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Mk-109 Stingray Family

Monarch (#2172)

MODEL NAME: **Monarch** *Also known as*:

NUMBER: #2172

Introduced: 2001
Final Year: 2004
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 17.25"
Diameter: 0.98"
Span:
Weight: 1.8 oz

Mfg. Description: The Monarch has a unique fin configuration that gives extra stability in flight. This regal rocket flies over 1200 feet. (Estes 2002 Catalog)

Editorial Note:

Catalog Liveries

2001

2002

2003

2004

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Monarch (#7214)

MODEL NAME: **Monarch** *Also known as*:

NUMBER: #7214

Introduced: 2010
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.5 in. (57.1 cm)
Diameter: 1.33 in. (34 mm)
Span:
Weight: 2.4 oz. (68 g)

Mfg. Description: Another great addition to the Estes line. The Monarch is a Skill level 1 kit that definately has the beginner in mind. A simple to build kit, yet an impressive kit, the serious rocketeer will want to add to their collection.

Standing over 22 inches tall, this rocket can reach 700 feet on standard Estes engines. A preassembled 12 inch parachute returns this rocket back to earth. Repack the parachute, grab a new engine, wadding, igniter and igniter plug and you are ready to blast off again! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Mongoose (#2092)

MODEL NAME: **Mongoose** *Also known as*:

NUMBER: #2092

Introduced: 1994
Final Year:
Designer:

Type: Sport, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 26.5 in. (67.3 cm)
Diameter: 0.98 in. (25 mm)
Span:
Weight: 2.3 oz. (65.2 g)

Mfg. Description: The Estes Mongoose is the perfect first time building and flying experience for a newbie who wants to try their hand at flying a two stage rocket.

A two stage rocket has two sections of the rocket with the engines stacked or staged one on top of the other. The lower or first stage contains a booster engine that kicks the rocket off the launch pad, and the upper or second stage has a standard engine inserted into it for extreme flight altitude.

Recovery is usually by parachute or streamer. The action is always hot when flying a staged rocket! The Mongoose can be flown as a single stage rocket or add a booster engine and watch this beast soar to astonishing heights of over 1,800 feet.

Standing over 26 inches tall, this highflying rocket will descend back to earth on a colorful preassembled parachute. (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

1994

1995

1998

2000

2001

2002

2003

2004

2005

2008

2010

Web Liveries

2112

Face Card(s)

Instruction Header

Also of interest:

Moon Mutt (#1476)

MODEL NAME: **Moon Mutt** *Also known as*:

NUMBER: #1476

Introduced: 2009
Final Year:
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 10"
Diameter: 0.74"
Span:
Weight: 0.65 oz

Mfg. Description: E2X - Easy to Assemble

The Estes Moon Mutt Launch Set is the perfect rocket set for the first time rocketeer. The 10 inch Moon Mutt rocket is a mini engine powered rocket that's easy to make and big on performance. Assembly takes about an hour and you can customize this cool-looking rocket with markers or the supplied decals. The Moon Mutt Launch Set is an ideal activity for the whole family to enjoy on a day at the park. Don't let the size of this space puppy fool you! When powered with Estes mini engines, this cosmic hot dog can reach heights over 200 feet. Recovery is a bright orange streamer. The entire family can have a great time launching this high flying mini rocket. Moon Mutt…fun for everyone! Color of product may vary.

LAUNCH SYSTEM includes Electron Beam Launch Controller and Mini Launch Pad. (Estes 2012 Web Ad)

Editorial Note: EX2 Launch Set

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Mosquito (TK-1 or #0801)

MODEL NAME: **Mosquito** *Also known as*:

NUMBER: TK-1 or #0801

Introduced: 1971
Final Year: 2002
Designer: Bill Simon

Type: Sport
Motor Mount: 113mm
Recovery: Tumble
Stages: 1
Length: 3.5"
Diameter: 0.541"
Span:
Weight: 0.1 oz

Mfg. Description: Fantastic Performance. Featherweight recovery. Balsa and paper construction. Simple spray paint decor. (Estes 1972 Catalog)

Editorial Note:

Catalog Liveries

1972

1973

1975

1977

1980

1981

1982

1983

1984

1985

1989

1993

1995

1998

2000

2001

2002

Web Liveries

Face Card(s)

Instruction Header

MOSQUITO TK-1

Designed by Bill Simon

PARTS LIST

A 1 Nose Cone BNC-5V

B 1 Body Tube BT-60J

C 1 Launch Lug LL-3A

D 1 Fin Sheet BFS-20B

In addition to the materials above you will need scissors, a sharp knife or single edge razor blade, white glue, sandpaper and paint or dope.

RECOVERY NOTE

The MOSQUITO employs the featherweight recovery system in which the rocket experts its engine at peak altitude. The rocket returns to earth safely because it is very light and has a relatively high thrust area -- its force on landing is approximately equal to that of a one ounce weight dropped from ten inches above the ground. The engine returns in a safe manner as well as it is not unsafe and the drag on a tumbling object is quite high.

Mosquito

HOW TO USE THESE INSTRUCTIONS:

READ ALL INSTRUCTIONS BEFORE STARTING WORK ON THIS MODEL

EXPLODED VIEW

CONSTRUCTION SUPPLIES

Also of interest: Estes Mosquito Family, Estes Mini Brute Family

Mosquito (#1335)

MODEL NAME: **Mosquito** *Also known as*: Bonus Mosquito

NUMBER: #1335

Introduced: 2011
Final Year:
Designer: Bill Simon

Type: Sport
Motor Mount: 1x13mm
Recovery: Tumble
Stages: 1
Length: 3.8 in. (9.6 cm)
Diameter: 0.54 in. (14 mm)
Span:
Weight:

Mfg. Description: D & *E engine power and mini engine power too! Powered by a D12-3, D12-5, E9-4* or an E9-6*, the Mega Mosquito (Skill Level 2) can reach heights of 750 feet! That's pretty amazing for a rocket that weighs over 5 ounces yet is simple to build.

And let's not forget about the BONUS Mosquito (Skill Level 1) included. That's the mini engine power of the kit. Standing just 3.8" tall, the Mosquito will go 800 feet high!

It might take an afternoon of your time but then it's off to the flying field to "double" your fun! (Estes 2012 Web Ad)

Editorial Note: This version of the Mosquito was packaged with the Mega Mosquito, also #1335, and not available separately

Catalog Liveries

2011

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Mosquito Family

NASA Pegasus (#1376)

MODEL NAME: **NASA Pegasus** *Also known as*:

NUMBER: #1376

Introduced: 1982
Final Year: 1986
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.75"
Diameter: 1.325"
Span:
Weight: 2.36 oz

Out Of Production

Mfg. Description: Medium range research craft for NASA after the Space Shuttle. Flies over 850 feet. (Estes 1982 Catalog)

Editorial Note:

Catalog Liveries

1982

1983

1985

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes NASA Pegasus Family

National Aerospace Plane (#2037)

MODEL NAME: **National Aerospace Plane** *Also known as*:

NUMBER: #2037

Introduced: 1990
Final Year: 1994
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 26.5"
Diameter: 1.637"
Span:
Weight: 3.46 oz

Mfg. Description: This model is based on a design concept of the proposed U.S. Intercontinental space flight plane. Take offs and landing would be like those of conventional jet planes. However, speeds and altitudes would increase dramatically making these planes capable of sub-orbital flights. Our model will fly to 500 feet. (Estes 1990 Catalog)

Editorial Note:

Catalog Liveries

1990

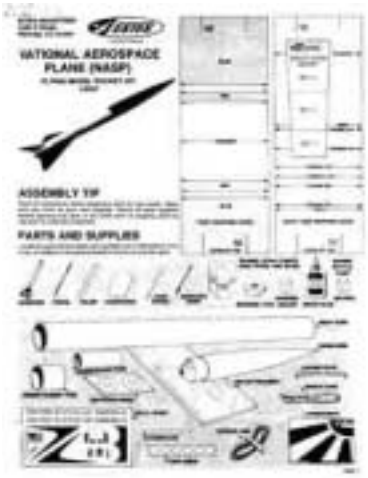
1991

1993

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes National Aerospace Plane Family

Nemesis (#2175)

MODEL NAME: **Nemesis** *Also known as*:

NUMBER: #2175

Introduced: 2001
Final Year: 2004
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.25"
Diameter: 0.98"
Span:
Weight: 1.8"

Out Of Production

Mfg. Description: One of the most feared spaceships in the galaxy! The Nemesis has destroyed hundreds of spaceships in battle! (Estes 2002 Catalog)

Editorial Note:

Catalog Liveries

2001

2002

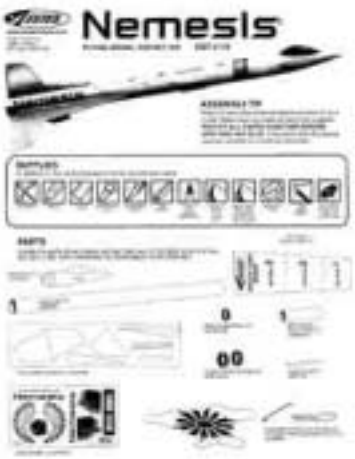
2003

2004

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Nike Ajax (#1279)

MODEL NAME: **Nike Ajax** *Also known as*:

NUMBER: #1279

Introduced: 1976
Final Year: 1981
Designer: Wayne Kellner

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 31.25"
Diameter: 1.325"
Span:
Weight: 2.6 oz

Mfg. Description: The first supersonic antiaircraft missile, the Nike Ajax, was developed to defend large cities and industrial complexes against enemy bomber attack. Actual vehicle has a range of 30 to 50 miles and an effective altitude capability of approximately 60,000 feet at a speed of more than 1500 miles per hour. Real vehicle is boosted by a solid propellant rocket which drops away at a predetermined height as a sustaining liquid propellant motor kicks in. Our 12.4:1 semi scale model comes complete with authentic U.S. Army decor and realistic detailing. Kit includes 18" parachute recovery, die cut balsa parts and a quick release engine mount. (Estes 1976 Catalog)

Editorial Note:

Catalog Liveries

1976

1977

1978

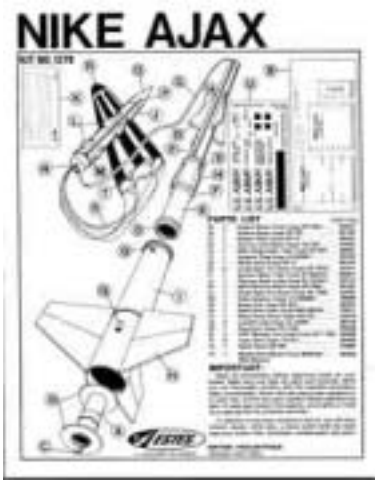
1979

1980

Web Liveries

Face Card(s)

Instruction Header



Also of interest: MIM-3 Nike Ajax Ordnance Family

Nike Apache (#1957)

MODEL NAME: **Nike Apache** *Also known as*:

NUMBER: #1957

Introduced: 1986
Final Year: 1989
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.875"
Diameter: 1.325"
Span:
Weight: 1.55 oz

Mfg. Description: Scale (1 to 12.25) model of U.S. sounding rocket includes two stage appearance, three-color decal, and 12" parachute recovery. Reaches altitudes over 900 feet. (Estes 1986 Catalog)

Editorial Note:

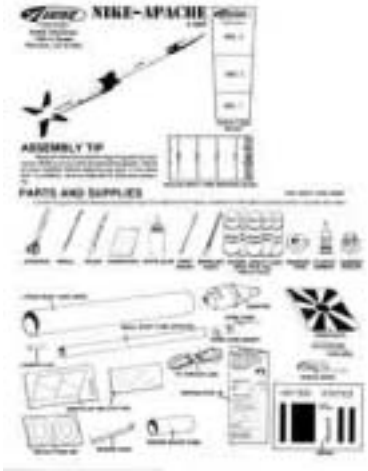
Catalog Liveries

1986

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Nike Apache Sounding Rocket Family

Nike Smoke (#9704)

MODEL NAME: **Nike Smoke** *Also known as*: Pro Series II Nike Smoke

NUMBER: #9704

Introduced: 2012
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 41.8 in. (106.2 cm)
Diameter: 3 in. (7.6 cm)
Span:
Weight: 17.5 oz. (496.1 g)

Mfg. Description: Pro Series II

Added to the ever popular and growing Pro Series II line of model rockets, the Nike Smoke is a must have addition to your collection.

The Nike Smoke 1 to 5.5 scale model launches on composite motors and has through the wall fin mounting. An awesome feature to this series is the new quick release motor retention system (Motor Retainer Set - also sold separately). Though massive looking, the construction of this kit is not difficult. Building and finish work can easily be accomplished over a few days.

Sure to be a crowd pleaser, the Nike Smoke is a must have! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Nike Smoke Sounding Rocket Family, Estes Pro Series II Marketing Family

Nike-X (K-70 or #1270)

MODEL NAME: **Nike-X** *Also known as*:

NUMBER: K-70 or #1270

Introduced: 1975
Final Year: 1984
Designer: Wayne Kellner

Out Of Production

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.4"
Diameter: 1.325"
Span:
Weight: 2.3 oz

Mfg. Description: Scale-like single stage model of U.S. Army's 4th generation, two stage surface-to-air interceptor missile. Nike style design with US Army decor. Great performance for really impressive flights. Easy to assemble. Realistic roll pattern decals, quick release engine mount, die cut fins and big 18" parachute. (Estes 1975 Catalog)

Editorial Note:

Catalog Liveries

1975

1977

1980

1981

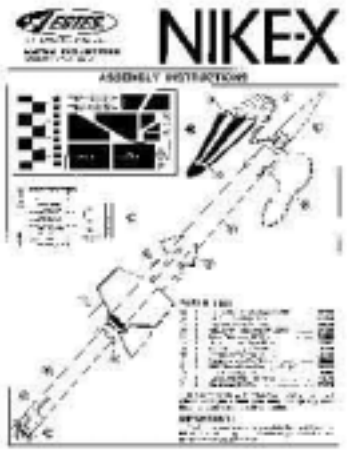
1982

1983

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Nike-X Family

Ninja (#0882)

MODEL NAME: **Ninja** *Also known as*:

NUMBER: #0882

Introduced: 1987
Final Year: 1998
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 10.563"
Diameter: 0.736"
Span:
Weight: 0.56 oz

Mfg. Description: Dark and sleek, this model speeds to heights of over 800 feet and lands gently via brightly colored streamer. (Estes 1987 Catalog)

Editorial Note:

Catalog Liveries

1987

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Nova Payloader (#1960)

MODEL NAME: **Nova Payloader** *Also known as*:

NUMBER: #1960

Introduced: 1986
Final Year:
Designer:

Type: Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21.1 in. (53.6 cm)
Diameter: 0.98 in. (25 mm)
Span:
Weight: 1.3 oz. (38 g)

Mfg. Description: The Estes Nova Payloader rocket is an all time favorite that rocket aficionados have enjoyed building and flying for years! It's truly the number one choice of rocketeers wanting to experiment with payloads. This rocket stands over 21 inches tall and has a clear 4 inch payload section that can be filled with all sorts of fun things, from bugs to mini dolls. Launch a small action figure or try some gumballs and see how high your rocket flies. As a science experiment, see how your specimen withstands a suborbital journey.

This payload equipped rocket kit features laser cut wood fins for precision fit, a plastic nose cone, easy to apply self stick-decals and a colorful 12 inch preassembled parachute for secure landings from 1,000 feet high. The Nova Payloader is one of the easiest payload rockets to build and finish, making it perfect for the first time rocket builder! (Estes 2012 Web Ad)

Editorial Note: The Nova Payloader was first issued in 1986 and continued in production until 1998. It was reissued in 2001 and lasted until 2004 and then reissued again in 2007 and remains in production.

Catalog Liveries

1986

1992

1993

1994

1995

1998

2001

2002

2003

2004

2007

2008

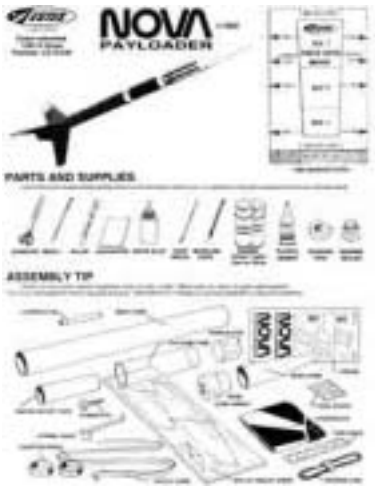
2010

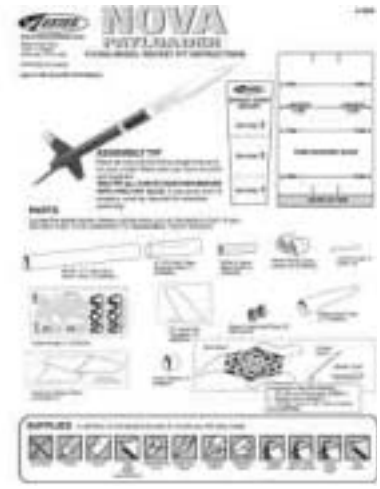
Web Liveries

2012

Face Card(s)

Instruction Header





Also of interest: Estes Nova Payloader Family

Odyssey (#1289)

MODEL NAME: Odyssey *Also known as*:

NUMBER: #1289

Introduced: 1977
Final Year: 1982
Designer: Wayne Kellner

Out Of Production

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24.1"
Diameter: 1.325"
Span:
Weight: 1.2 oz

Mfg. Description: This unique interstellar spacecraft is conceived to perform a variety of space rescue, exploratory, or intruder intercept missions. Odyssey's modular configuration permits rapid pre-launch preparation to flight status. Impulse power unit jettisons after lift-off from planetary launch site. Its two-man crew and engineering section are then accelerated to near light velocities for rendezvous and space rescue operations. Our designer's version includes die-cut balsa fins. 18" dia. recovery parachute and two-color rescue vehicle decor. Quick release engine mount and super-detailed plastic nose section complete the exotic styling of this advanced spacecraft. (Estes 1977 Catalog)

Editorial Note:

Catalog Liveries

1977

1979

1981

1982

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

(Astron) Omega (K-52 or #1252)

MODEL NAME: **Astron Omega** *Also known as*: Omega

NUMBER: K-2 or #1252

Introduced: 1970
Final Year: 1981
Designer: Mike Dorffler

Out Of Production

Type: Sport, Payload, 2 Stage
Motor Mount: 1x24mm/1x24mm
Recovery: Tumble/Parachute
Stages: 2
Length: 30.5"
Diameter: 1.637"
Span:
Weight: 4 oz

Mfg. Description: The ultimate in big engine performance, the two stage Astron Omega blasts off with "D" power, boosting heavy loads, such as the Cineroc to high altitudes. Use the lighter payload section for even greater altitude probes. The Omega features the simplified "pop-and-go" staging method for reliable booster separation and an 18" chute for safe recovery. Two huge and handsome decal sheets add more beauty to this bird, a relatively easy model for the experience rocketeer. (Estes 1970 Catalog)

Editorial Note:

Catalog Liveries

1970

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Omega Family

Optima (#2035)

MODEL NAME: **Optima** *Also known as*:

NUMBER: #2035

Introduced: 1990
Final Year: 1994
Designer: Mike Dorffler

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 47.5"
Diameter: 2.6"
Span:
Weight: 8.3 oz

Mfg. Description: You may want a van to transport this monstrous rocket to the launch site! Only 1/2 an inch less than 4 feet tall and more than 3 inches around this rocket requires a Maxi Rod for launch guidance and a "D" engine for lift-off power. Recovery is via 24" parachute from altitudes of 390 feet. Kit includes chrome and metal flake pressure sensative decals plus a large water transfer kit decal. (Estes 1990 Catalog)

Editorial Note:

Catalog Liveries

1990

1992

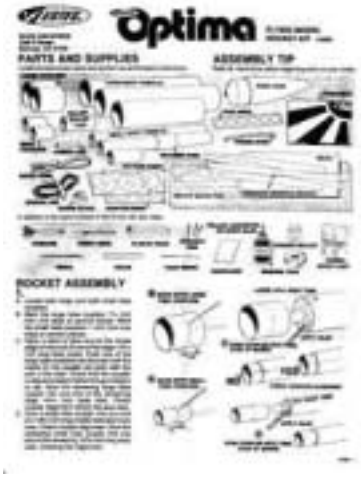
1993

1994

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Optima Family

Orbital Interceptor (#1359)

MODEL NAME: **Orbital Interceptor** *Also known as*:

NUMBER: #1359

Introduced: 1981
Final Year: 1983
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery:
Stages: 1
Length: 17"
Diameter: 0.976"
Span:
Weight: 1.5 oz

Mfg. Description: Exotic short ranged interceptor designed for orbital patrol and larger starship escort. Spectacular flights over 1,200 feet. (Estes 1981 Catalog)

Editorial Note:

Catalog Liveries

1981

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Orbital Interceptor Family

Orbital Transport (K-42 or #1242)

MODEL NAME: **Orbital Transport** *Also known as*:

NUMBER: K-42 or #1242

Introduced: 1969
Final Year: 1985
Designer: Wayne Kellner

Type: Exotic, Boost Glider
Motor Mount: 1x18mm
Recovery: Glide/Parachute
Stages: 1
Length: 23"
Diameter: 0.976"
Span: 7.9"
Weight: 2.5 oz

Mfg. Description: Spectacular in flight and a true show model on the ground, the Orbital Transport is the launch vehicle of the 80's. Based on the latest proposals for a reusable air-breathing (scramjet) booster for orbital vehicles, the Transport is an exciting experience to build and fly. The Transport itself lifts off under rocket power. At ejection the "re-entry vehicle" detaches and glides back to earth. The booster returns by parachute. Kit comes complete with colorful decals and a fact filled data sheet on the air breathing booster concept. (Estes 1969 Catalog)

Editorial Note:

Catalog Liveries

1969

1970

1971

1973

1975

1976

1977

1978

1981

1982

1983

1984

1985

Other Print Images

1971 Catalog (Promotional Image)

Face Card(s)

Instruction Header

Also of interest: Estes Orbital Transport Family

Orbital Transport (#1259)

MODEL NAME: **Orbital Transport** *Also known as*:

NUMBER: #1259

Introduced: 2002
Final Year: 2002
Designer: Wayne Kellner

Out Of Production

Type: Exotic, Boost Glider
Motor Mount: 1x18mm
Recovery: Glide/Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note: This version of the Orbital Transport was available only in 2002 and never appeared in the catalog.

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Orbital Transport Family

Outlander (#2110)

MODEL NAME: **Outlander** *Also known as*:

NUMBER: #2110

Introduced: 2003
Final Year: 2008
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.5"
Diameter: 4.375"
Span:
Weight: 4.2 oz

Mfg. Description: Get ready to explore the outer rim of the galaxy with the Outlander. It's stellar-looking design and decals complement the unique "Chute & Lander" recovery system. (Estes 2004 Catalog)

Editorial Note: Did not appear in the 2003 Catalog

Catalog Liveries

2004

2005

2006

2007

Web Liveries

2007

Face Card(s)

Instruction Header

Pathfinder (#1997)

MODEL NAME: **Pathfinder** *Also known as*:

NUMBER: #1997

Introduced: 1988
Final Year: 1990
Designer:

Out Of Production

Type: Sport, Pseudo Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 42.25"
Diameter: 1.637"
Span:
Weight: 3.18 oz

Mfg. Description: Over 3 1/2 feet tall, this magnificent model resembles a real sounding rocket used in testing upper atmospheric conditions. A big "D" engine is required to launch this rocket to altitudes over 500 feet. Two 12" parachutes are necessary to ensure recovery. A 3/16" Maxi Rod (#2244) is required for launch. (Estes 1988 Catalog)

Editorial Note:

Catalog Liveries

1988

1989

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Patriot (KC-3, MK-3 or #0652)

MODEL NAME: **Patriot** *Also known as*:

NUMBER: KC-3, MK-3 or #0652

Introduced: 1972
Final Year: 1984
Designer: Wayne Kellner

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 26"
Diameter: 1.637"
Span:
Weight: 3.3 oz

Mfg. Description: Big, burly and impressive sport model - over 25" tall. Spectacular "All-American" red, white and blue decor. Two big decal sheets. 5 colors in all. Fast, easy construction with molded plastic nose cone and die cut balsa fins. Recovery by 18" parachute. (Estes 1971 Citation Catalog)

Editorial Note: The Patriot appeared in the 1971 Estes Citation Catalog but was not released until 1972.

Catalog Liveries

1973

1975

1977

1980

1981

1983

Other Print Appearances

1971 Citation Catalog

Face Card(s)

Also of interest: Estes Citation Marketing Family

Patriot (#1450)

MODEL NAME: **Patriot** *Also known as*: Patriot EX2 Launch Set

NUMBER: #1450

Introduced: 1992
Final Year: 1994
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.5"
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

1992

1993

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family

Patriot (#1825)

MODEL NAME: **Patriot** *Also known as*: Patriot RTF Starter Set

NUMBER: #1825

Introduced: 2004
Final Year: 2007
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18"
Diameter: 1.35"
Span:
Weight: 2.7 oz

Mfg. Description: The Patriot dominates the skies. This classic scale-like model is built ready-to-fly and looks like the genuine surface-air defense missile used by the U.S. Army. (Estes 2004 Catalog)

Editorial Note:

Catalog Liveries

2004

2005

2006

2007

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family

Patriot (#1843)

MODEL NAME: **Patriot** *Also known as*: Patriot RTF Starter Set

NUMBER: #1843

Introduced: 2008
Final Year: 2008
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18"
Diameter: 1.35"
Span:
Weight: 2.7 oz

Mfg. Description: The Patriot dominates the skies. This classic scale-like model is built ready-to-fly and looks like the genuine surface-air defense missile used by the U.S. Army. (Estes 2008 Catalog)

Editorial Note: This set seems to be identical to the #1825 Starter sets in all respects except for the product number.

Catalog Liveries

2008

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family

Patriot Missile (#2056)

MODEL NAME: **Patriot Missile** *Also known as*: US Army Patriot M-104

NUMBER: #2056

Introduced: 1991
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21.3 in. (54.1 cm)
Diameter: 1.64 in. (41 mm)
Span:
Weight: 2 oz. (56.7 g)

Mfg. Description: The U.S. Army Patriot M-104, is the best kit to build for your first scale model rocket.

This Desert Storm Veteran features a top notch, two piece body tube, and genuine-looking self-stick decals. It's easy to build and can be finished in a morning or afternoon.

This classic scale model can fly 600 feet high on standard Estes engines and recovers with a 12 inch preassembled parachute. Don't have this one? Get it! It's a scale ARMY classic that every rocketeer should have in his rocket arsenal.

We have included a special Operation Enduring Freedom sticker that you can apply to this historical rocket. (Estes 2012 Web Ad)

Editorial Note: This rocket was released in late 1991 in the wake of the first Gulf War and was not in the 1991 catalog. It was withdrawn after 1993 and then reissued under the "US Army Patriot M-104" name in 2003.

Catalog Liveries

1992

1993

2004

2005

2006

2007

2008

2010

2011

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family

(Pro Series) Patriot Missile (#2066)

MODEL NAME: **Patriot Missile** *Also known as*: Pro Series Patriot Missile

NUMBER: #2066

Introduced: 1992
Final Year: 1995
Designer:

Type: Scale, Cluster
Motor Mount: 4x24mm
Recovery: Parachute
Stages: 1
Length: 39"
Diameter: 3"
Span:
Weight: 12.3 oz

Mfg. Description: 1/5 scale model of the actual Desert Storm hero. (Estes 1992 Catalog)

Editorial Note:

Catalog Liveries

1992

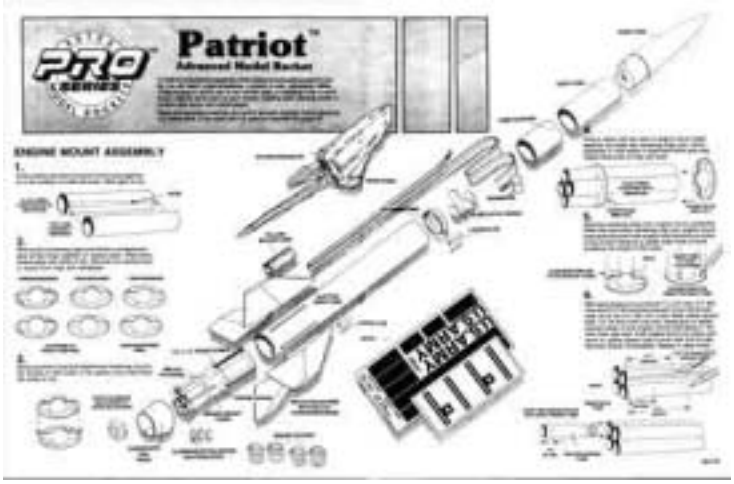
1993

1995

Web Liveries

Face Card(s)

Instruction Header



Also of interest: MIM-104 Patriot Ordnance Family, Estes Pro Series Marketing Family

Patrol Cruiser Excalibur (#1339)

MODEL NAME: **Patrol Cruiser Excalibur** *Also known as*:

NUMBER: #1339

Introduced: 1980
Final Year: 1981
Designer: Keith Niskern

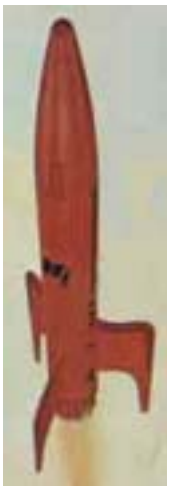
Type: Exotic, Retro
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 20.125"
Diameter: 1.637"
Span:
Weight: 2.3 oz

Mfg. Description: Sleek and powerful, the Excalibur is the pride of the inter-galactic patrol. Hidden in the ship's nose, on a retractable carriage is a quad mounted, choke barrel, Hyper-Ballistic Vacuum Gun. Speeds in the Star-Fall category are possible and range is reported to be 63 billion miles without refueling. Our scale model of this heroic spaceship delivers really spectacular flights. (Estes 1980 Catalog)

Editorial Note:

Catalog Liveries

1980


1981

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Patrol Cruiser Excaibur Family

Payloader II (#3022)

MODEL NAME: **Payloader II** *Also known as*:

NUMBER: #3022

Introduced: 2010
Final Year:
Designer:

Type: Sport/Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 17"
Diameter: 0.98"
Span:
Weight: 1.2 oz

Mfg. Description: The Payloader II is yet another great rocket from days gone by. Another great addition to our "Classic Series" line, this rocket is a must-have for all serious rocketeers! Estes is once again proud to re-introduce you to another Classic!

A high quality wood nose cone, laser cut wood fins and waterslide decals mimic the original kit. Any changes Estes made only enhanced this classic kit. (Estes 2011 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Payloader Family

Pegasus (#0806)

MODEL NAME: Pegasus *Also known as*:

NUMBER: #0806

Introduced: 1977
Final Year: 1978
Designer: Mike Dorffler

Type: Exotic
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 14"
Diameter: 0.736"
Span:
Weight: 0.74 oz

Mfg. Description: U.S. Air Force Mach 3 reconnaissance missile of the near future. Designed for launch from the wing of a supersonic bomber about to enter enemy territory. Pegasus transmits vital, real-time intelligence data on the enemy's defenses. Kit features scale-like 2 color decals and huge, high performance fan jets for supersonic acceleration. (Estes 1977 Catalog)

Editorial Note:

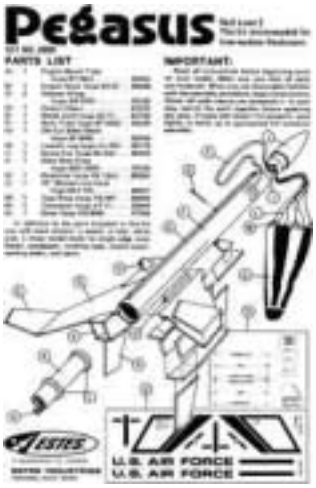
Catalog Liveries

1977

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Pegasus Family, Estes Mini Brute Marketing Family

(Astron) Phantom (K-7 or #1207)

MODEL NAME: **Aston Phantom** *Also known as*: Phantom

NUMBER: K-7 or #1207

Introduced: 1962
Final Year: 1971
Designer: Bill Simon

Out Of Production

Type: Static Display
Motor Mount: N/A
Recovery: Parachute
Stages: 1
Length: 8.7"
Diameter: 0.736"
Span:
Weight:

Mfg. Description: This bird will never fly, but it will certainly help get your science fair project or special demonstration off the ground. The Astron Phantom has a transparent body to show all the insides of a model rocket -- plus a special dummy engine cut in half to show its insides. A great help in answering questions on model rocketry, the Astron Phantom comes complete with all parts and instructions (but no fins). (Estes 1964 Catalog)

Editorial Note:

Catalog Liveries

1964

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Phantom Family

Phantom (K-7B or #1264)

MODEL NAME: **Phantom** *Also known as*:

NUMBER: K-7B or #1264

Introduced: 1971
Final Year: 1996
Designer: Bill Simon

Type: Static Display
Motor Mount: N/A
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Phantom Family

Pheonix (#1380)

MODEL NAME: Phoenix *Also known as*:

NUMBER: #1380

Introduced: 1982
Final Year: 2004
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 30"
Diameter: 2.6"
Span:
Weight: 6.6 oz

Mfg. Description: Big semi-scale model of the famous Phoenix air-to-air supersonic missile. Impressive in the air and on display. Single "D" powered engine provides a slow, realistic lift-off and flights over 600 feet. (Estes 1982 Catalog)

Editorial Note:

Catalog Liveries

1982

1983

1985

1991

1993

1994

1995

1998

2001

2002

2003

2004

Web Liveries

Face Card(s)

Instruction Header

Also of interest: AIM 54 Phoenix Ordnance Family

Photon Disruptor (#1282)

MODEL NAME: **Photon Disruptor** *Also known as*:

NUMBER: #1282

Introduced: 1976
Final Year: 1981
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1`
Length: 18.25"
Diameter: 0.976"
Span:
Weight: 1.4 oz

Mfg. Description: Equip your star fleet with this sophisticated scale missile from the 23rd century. Designed primarily as a mass conversion weapon to overload the defensive screens of an enemy vessel, the actual Photon Disruptor may also be programed as an interceptor missile, a proximity space mine, or a space distress signal. Exact size, speed, range and destruct radius of this vehicle are classified. Photon Disruptor uses impulse power unit and guidance system for launch from planetary surface. Kit features operational status detailing decor and comes with 12" parachute. Assembly and operation are easy with plastic nose cone, die-cut balsa parts and quick release engine mount. (Estes 1976 Catalog)

Editorial Note:

Catalog Liveries

1976

1977

1979

1981

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Photon Disruptor Family

Photon Disruptor (#3025)

MODEL NAME: **Photon Disruptor** *Also known as*:

NUMBER: #3025

Introduced: 2010
Final Year:
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24.5 in. (62.2 cm)
Diameter: 1.33 in. (34 mm)
Span:
Weight: 2.4 oz. (68 g)

Mfg. Description: The Photon Disruptor is yet another great rocket from days gone by. Another great addition to our "Classic Series" line, the Photon Disruptor is a must-have for all serious rock-eteers! Estes is once again proud to re-introduce you to another Classic! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

2011

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Photon Disruptor Family

Photon Disruptor II (#2052)

MODEL NAME: **Photon Disruptor II** *Also known as*:

NUMBER: #2052

Introduced: 1991
Final Year: 1992
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24.563"
Diameter: 1.325"
Span:
Weight: 2.42 oz

Mfg. Description: Scale model of a 21st century Star Fleet defense missile. Our model may be launched to altitudes of 750 feet (229m). (Estes 1991 Catalog)

Editorial Note:

Catalog Liveries

1991

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Photon Disruptor Family

Photon Probe (#2043)

MODEL NAME: **Photon Probe** *Also known as*:

NUMBER: #2043

Introduced: 1991
Final Year: 1993
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23"
Diameter: 1.325"
Span:
Weight: 2.4 oz

Mfg. Description: Large model of futuristic probe may be flown again and again to heights of 720 feet (220 m). (Estes 1991 Catalog)

Editorial Note:

Catalog Liveries

1991

1993

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Photon Probe Family

Photon Probe (#3026)

MODEL NAME: **Photon Probe** *Also known as*:

NUMBER: #3026

Introduced: 2010
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23 in. (58.4 cm)
Diameter: 1.32 in. (34 mm)
Span:
Weight: 3.5 oz. (99.2 g)

Mfg. Description: From the "Classic Series" line, the Photon Probe is based on an original Estes design. Originally appearing in the 1980's, Estes is proud to re-introduce you to some of the Classics! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Also of interest: Estes Photon Probe Family

Plasma Probe (#3211)

MODEL NAME: **Plasma Probe** *Also known as*:

NUMBER: #3211

Introduced: 2010
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18.5 in (47 cm)
Diameter: 1.33 in. (34 mm)
Span:
Weight: 1.7 oz. (67 g)

Mfg. Description: Standing about a foot and a half tall and reaching heights of 800 feet, the Plasma Probe needs to be the next rocket you add to your collection! (Estes 2012 Web Ad)

Editorial Note: Although the Plasma Probe is not a clone or re-issue, the influence of the Centuri Lazer-X seems obvious.

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Centuri Laser-X Family

Polaris (#2174)

MODEL NAME: **Polaris** *Also known as*:

NUMBER: #2174

Introduced: 2001
Final Year: 2002
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18.85"
Diameter: 1.33"
Span:
Weight: 3.0 oz

Mfg. Description: Launch an attack on your enemies. The Polaris missile is capable of hitting targets in the air or in outer space. (Estes 1982 Catalog)

Editorial Note: Not to be confused with Estes Polaris #1324

Catalog Liveries

2001

2002

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Prime Number Explorer (#0891)

MODEL NAME: **Prime Number Explorer** *Also known as*:

NUMBER: #0891

Introduced: 1991
Final Year: 1992
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 18.5"
Diameter: 1.325"
Span:
Weight: 1.9"

Mfg. Description: This is a probe deployed with special receivers to discover the source of a mysterious repeating signal consisting of the first five prime numbers - 1, 2, 3, 5 and 7. It is hoped the signals are being sent by intelligent life forms. Estimated maximum altitudes are in excess of 216 feet (66 meters). (Estes 1991 Catalog)

Editorial Note:

Catalog Liveries

1991

1992

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Python 4 ASRAAM (#1245)

MODEL NAME: **Python 4 ASRAAM** *Also known as*: Launhcables Python 4 ASRAAM

NUMBER: #1245

Introduced: 2003
Final Year: 2003
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24"
Diameter: 1.325"
Span:
Weight: 2.8 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: ASRAAM Python Ordnance Family, Estes Launchables Marketing Family

Python 4 ASRAAM (#2054)

MODEL NAME: **Python 4 ASRAAM** *Also known as*:

NUMBER: #2054

Introduced: 2003
Final Year: 2005
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 24"
Diameter: 1.325"
Span:
Weight: 2.8 oz

Out Of Production

Mfg. Description: The Python 4 is a scale version of the fourth generation Advanced Short Range Air-Air Missile. Includes realistic decals and flies 500 ft into the sky! (Estes 2004 Catalog)

Editorial Note:

Catalog Liveries

2004

2005

Web Liveries

Face Card(s)

Instruction Header

Also of interest: ASRAAM Python Ordnance Family

QCC Explorer (#3221)

MODEL NAME: **QCC Explorer** *Also known as*:

NUMBER: #3221

Introduced: 2011
Final Year:
Designer:

Type: Exotic
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 35 in. (88.9 cm)
Diameter: 1.64 in. (42 mm)
Span:
Weight: 5 oz. (141.2 g)

Mfg. Description: Don't let the looks fool you with this Skill Level 4 kit. It may look like it's simple to build but what's under the paint will surprise you! Each simulated air intake/fin assembly is constructed from 12 interlocking laser cut balsa pieces.

The Estes QCC Explorer is a design study on what a Hypersonic Cruise Missile may one day look like. The long slender air intakes along the body would not only supply air to the engine put provide lift while flying to its target. The kit features air intakes built up of laser cut wood and a plastic molded exhaust cone. (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2011

2012

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

Quark (#0802)

MODEL NAME: **Quark** *Also known as*:

NUMBER: #0802

Introduced: 1997
Final Year:
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Tumble
Stages: 1
Length: 5.2 in. (13.2 cm)
Diameter: 0.54 in. (14 mm)
Span:
Weight: 1 oz

Mfg. Description: The Quark is a mini engine powered mighty mite! This little alien rocket flies at supersonic speeds! At just over 5 inches this tiny, amazing mini engine powered model rocket is able to reach launch heights over 800 feet. This mini rocket also features tumble recovery system - no parachute or streamer to worry about. Its slender nose cone shape and radically swept fins make this one of the coolest looking mini rockets in the Estes line.

This rocket is a compact Skill Level 1 kit and is incredibly easy to construct using just seven parts. This sky grabbing, little demon can be built and finished in an afternoon for tons of flying fun. With its unique aerodynamic design, you'll enjoy launching the Quark over and over! Get a little "Quarky" and have some fun with this one! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

1997

1998

2000

2001

2002

2003

2004

2005

2006

2007

2008

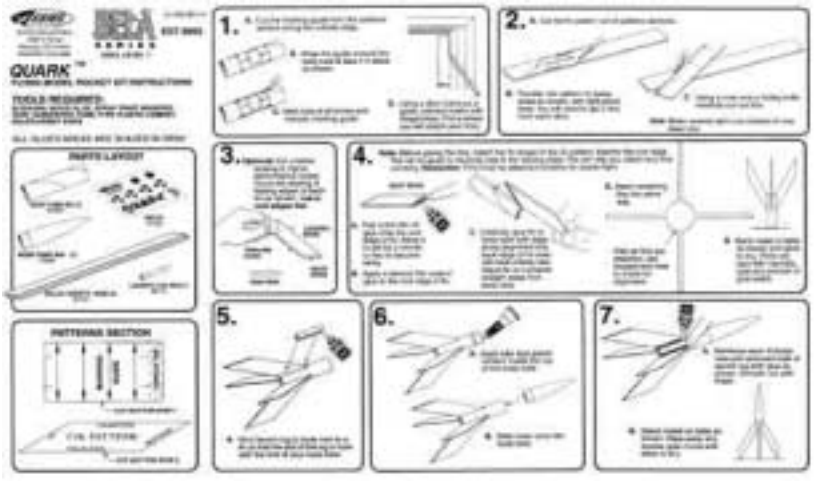
2010

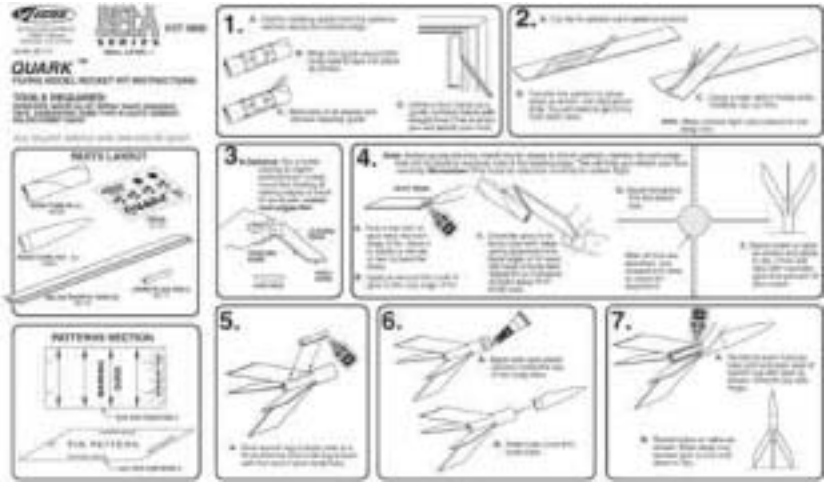
Web Liveries

2012

Face Card(s)

Instruction Header





Also of interest:

R2-D2 (#1301)

MODEL NAME: **R2-D2** *Also known as*:

NUMBER: #1301

Introduced: 1978
Final Year: 1980
Designer: Wayne Kellner

Out Of Production

Type: Fantasy Scale, Oddroc
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 9"
Diameter: 3.744"
Span:
Weight: 5.1 oz

Mfg. Description: Own your very own STAR WARS R2-D2 robot! Destined to become the most famous movie robot of all time, our model is 1/5 actual size and actually flies. Artoo "pops his top" in normal model rocket fashion to deploy an 18" dia. recovery parachute for landing on the planet of your choice. Kit features include a molded plastic body dome and body skirt, a precisely detailed 4-color body wrap-on, quick-change engine mount and stabilizer leg-fins. This cantankerous 'droid is certain to be everybody's favorite at your launch site or on your display shelf. (Estes 1978 Catalog)

Editorial Note:

Catalog Liveries

1978

1980

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Star Wars R2-D2 Media Family

R2-D2 (#1395)

MODEL NAME: **R2-D2** *Also known as*:

NUMBER: #1395

Introduced: 1980
Final Year: 1981
Designer:

Type: Fantasy Scale, Oddroc
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Star Wars R2-D2 Media Family

R2-D2 (#1823)

MODEL NAME: **R2-D2** *Also known as*:

NUMBER: #1823

Introduced:
Final Year:
Designer:

Type: Fantasy Scale, Oddroc
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 8"
Diameter: 2.60"
Span:
Weight: 3 oz

Out Of Production

Mfg. Description: Everybody's favorite 'droid. Now you can have a highly detailed, fully assembled and painted model of the real hero of the Star Wars trilogy. Artoo is ready to fly in minutes. (Estes 1998 Catalog)

Editorial Note:

Catalog Liveries

1998

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Star Wars R2-D2 Media Family

R2-D2 (#2104)

MODEL NAME: **R2-D2** *Also known as*:

NUMBER: #2104

Introduced: 1994
Final Year: 1998
Designer:

Out Of Production

Type: Fantasy Scale, Oddroc
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 9"
Diameter: 3.744"
Span:
Weight: 5.1 oz

Mfg. Description: Estes is pleased to give you the flying version of the famous R2-D2 droid. Our R2-D2 is a 1/5 scale model standing nine inches tall. Kit includes a molded plastic body and tail cone, molded plastic legs and a detailed pre-colored wrapper. (Estes 1994 Catalog)

Editorial Note:

Catalog Liveries

1994

1998

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Star Wars R2-D2 Media Family

R2-D2 (#2142)

MODEL NAME: **R2-D2** *Also known as*:

NUMBER: #2142

Introduced: 1997
Final Year: 1998
Designer:

Out Of Production

Type: Fantasy Scale, Oddroc
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 8"
Diameter: 2.6"
Span:
Weight: 3.0 oz

Mfg. Description: Fly the heroic droid of the Star Wars saga. Easy to build with realistic details and graphics. (Estes 1998 Catalog)

Editorial Note:

Catalog Liveries

1998

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Also of interest: Star Wars R2-D2 Media Family

Rainmaker (#2009)

MODEL NAME: **Rainmaker** *Also known as*: Rain Maker

NUMBER: #2009

Introduced: 1989
Final Year: 1990
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.625"
Diameter: 1.325"
Span:
Weight: 1.48 oz

Mfg. Description: Resembles a staged sounding rocket like those used in the 50s and 60s for cloud seeding experiments. Flights over 600 ft. are possible and recovery is via 12" parachute. (Estes 1989 Catalog)

Editorial Note:

Catalog Liveries

1989

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Rainmaker Family

Ram Jet (#1994)

MODEL NAME: **Ram Jet** *Also known as*:

NUMBER: #1994

Introduced: 1988
Final Year: 1991
Designer:

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15.25"
Diameter: 1.325"
Span:
Weight: 1.24 oz

Mfg. Description: This ducted jet rocket is launched from the air for long range use in the upper atmosphere. Lifting off to 800 feet, Ram Jet is recovered via 12" parachute system. (Estes 1988 Catalog)

Editorial Note:

Catalog Liveries

1988

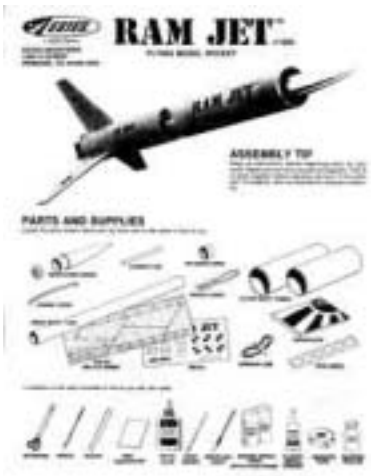
1989

1991

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Ram Jet Family

(Astron) Ranger (K-6 or #1206)

MODEL NAME: **Astron Ranger** *Also known as*: Ranger

NUMBER: K-6 or #1206

Introduced: 1962
Final Year: 1972
Designer: Vern Estes

Type: Sport, Payload, Cluster
Motor Mount: 3x18mm
Recovery: Parachute
Stages: 1
Length: 24"
Diameter: 1.6"
Span:
Weight: 3.35 oz

Mfg. Description: Now at last a complete kit for a rocket to lift large payloads! The Astron Ranger will lift payloads as large as three ounces to extremely high altitudes. A full 24" long. Features Two-Chute recovery -- one chute returns the payload gently, the other brings the rocket body down to a soft landing. You can demonstrate your skill by launching and recovering an egg with this rocket! The ideal vehicle to carry a small camera aloft. The Astron Ranger kit comes complete with all necessary parts, assembly and flight instructions. This rocket is a "must" for the experienced rocketeer! (Estes 1963 Catalog)

Catalog Liveries

1963

1964 *(1st image)*

1964 *(2nd image)*

1966

1967

1968

1969

1970

1971

Face Card(s)

Rascal (#2021)

MODEL NAME: **Rascal** *Also known as*:

NUMBER: #2021

Introduced: 1990
Final Year: 1991
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13.6"
Diameter: 1.637"
Span:
Weight: 1.5 oz

Mfg. Description: Over one foot tall and brawny with flights to 800 ft., this model is sure to be a hit at rocket demonstration. Kit features plastic nosecone, kit decal, 12 inch parachute and 3/32" balsa fin stock. (Estes 1990 Catalog)

Editorial Note:

Catalog Liveries

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Raven (#2029)

MODEL NAME: **Raven** *Also known as*:

NUMBER: #2029

Introduced: 1990
Final Year: 1991
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 26.5"
Diameter: 1.637"
Span:
Weight: 2.51 oz

Out Of Production

Mfg. Description: Pressure-sensitive foil decal is featured on this nearly two foot tall sport bird with gray and black paint scheme. Can be flown over 600 feet. Recovery is via 12" parachute. (Estes 1990 Catalog)

Editorial Note:

Catalog Liveries

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Red Alert (#0893)

MODEL NAME: **Red Alert** *Also known as*:

NUMBER: #0893

Introduced: 1991
Final Year: 1992
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 9.25"
Diameter: 0.544"
Span:
Weight: 0.32 oz

Mfg. Description: Sharp looks and high performance flights to 960 feet. Kit includes holographic decal. (Estes 1991 Catalog)

Editorial Note:

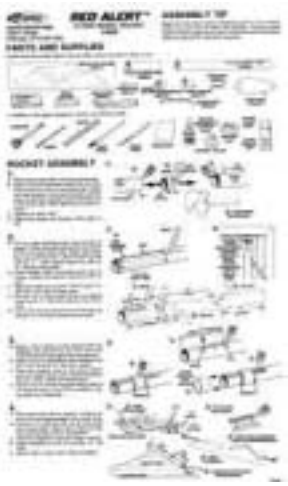
Catalog Liveries

1991

Web Liveries

Face Card(s)

Instruction Header



Also of interest:

Rogue (#0818)

MODEL NAME: **Rogue** *Also known as*:

NUMBER: #0818

Introduced: 1973
Final Year: 1982
Designer:

Type: Sport, Pseudo-Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 11.7"
Diameter: 0.736"
Span:
Weight: 0.75 oz

Mfg. Description: Sounding research vehicle. A scale-like appearance with authentic decor. Excellent for sport flying has super performance. (Estes 1973 Catalog)

Editorial Note:

Catalog Liveries

1973

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Rogue Family, Estes Mini Brute Marketing Family

(Naboo) Royal Starship (#1830)

MODEL NAME: **Royal Starship** *Also known as*:

NUMBER: #1830

Introduced: 1998
Final Year: 1998
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note: As best can be determined, this RTF rocket was created in 1998 but not released until 1999. It was canceled that same year. It did not appear in the 1998 catalog and there was no 1999 catalog.

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Star Wars Royal Starship Media Family

Satellite Interceptor (#1296)

MODEL NAME: **Satellite Interceptor** *Also known as*:

NUMBER: #1296

Introduced: 1978
Final Year: 1982
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.75"
Diameter: 0.976"
Span:
Weight: 1.38 oz

Mfg. Description: Envisioned by designers to be operational in 1990, this ultra sophisticated interceptor patrols near-space for possible aggression by hostile entities. Highly advanced defense systems include both nuclear and laser armaments. Kit features include printed balsa fins, plastic nose and exhaust cones, quick release engine mount and realistic two color decals. (Estes 1978 Catalog)

Catalog Liveries

1978

1981

1982

Web Liveries

Face Card(s)

Also of interest: Estes Satellite Interceptor Family

Satellite Interceptor (#3027)

MODEL NAME: Satellite Interceptor *Also known as*:

NUMBER: #3027

Introduced: 2010
Final Year:
Designer:

Type: Exotic, Reissue
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.25 in. (56.2 cm)
Diameter: 0.98 in. (25 mm)
Span: 5.5 in. (14 cm)
Weight: 2.3 oz. (65 g)

Mfg. Description: Back in the pack! Another great rocket from the "Classic Series" is making a reappearance for the first time in many years. Designed by one of the Estes great rocket designers, the Satellite Interceptor is one kit you don't want to miss out on!

Allow yourself some extra time when building this kit as impressive, full color, waterslide decals are included and they will take a little extra time to apply.

Go ahead, go out there and pick up the latest addition to the "Classic Series" before it's gone again. This one is sure to be a hit just like it was the first time around! (Estes 2011 Web Ad)

Catalog Liveries

2010

Web Liveries

2011

Face Card(s)

Also of interest:

Saturn 1B (K-29 or #1229)

MODEL NAME: **Saturn 1B** *Also known as*: Saturn 1-B, Uprated Saturn-1

NUMBER: K-29 or #1229

Introduced: 1967
Final Year: 1977
Designer: Gene Street

Type: Scale. Cluster
Motor Mount: 4x18mm
Recovery: Parachute
Stages: 1
Length: 37"
Diameter: 3.53"
Span:
Weight: 9.86 oz

Mfg. Description: A thrilling scale model for even the most advanced rocketeer, this bird will be a real challenge to your building and flying skill. A four engine cluster lifts the Saturn 1-B model into the air. Two 24" parachutes on the main body and 12" parachute on the command-escape structure return it gently. A real beauty, both in the air and on display. A 12 volt car battery and launch control system (such as the Estes 12 Volt Launch Control System) is required for ignition. Kit comes complete with all parts, decals, detailed instructions and a copy of technical report TR-6 (but no engines). (Estes 1967 Catalog)

Editorial Note:

Catalog Liveries

1967

1969

1971

1972

1973

1975

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Saturn I Launch Vehicle Family

Saturn 1B (#2048)

MODEL NAME: **Saturn 1B** *Also known as*:

NUMBER: #2048

Introduced: 1991
Final Year: 1993
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 26.5"
Diameter: 2.618"
Span:
Weight: 5/33 oz

Mfg. Description: An integral part of the Saturn Space Program, the Saturn 1B's first stage was composed of 8 H-1engines creating thrust of over 1.5 million pounds. The second stage power was supplied by one J-2 engine with 200,000 pounds of thrust. The Saturn 1B could place 40,000 pounds in low earth orbit. Saturn 1B flights were used to test the launch vehicle, Apollo spacecraft systems and the Apollo spacecraft's heat shields for re-entry capability.

1/100th scale model of the predecessor of the mighty Saturn V. Our model includes high relief plastic body wraps, plastic tank shroud, Apollo capsule and engine display nozzles. It also features special sub-assembly painting procedures. Recovery from launches to 425 ft. are accomplished when the main stages are lowered under an 18" parachute and the upper stage and Apollo capsule are lowered via a 12" parachute attached to a special recovery harness. A 3/16 inch Maxi-Rod is required for launch. (Estes 1991 Catalog)

Editorial Note:

Catalog Liveries

1991

1993

9 9 0

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Saturn I Launch Vehicle Family

Saturn V (K-36 or #1236)

MODEL NAME: Saturn V *Also known as*: Maxi-Brute Saturn V, Saturn V Moon Rocket

NUMBER: K-36 or #1236

Introduced: 1969
Final Year: 1985
Designer: Bill See

Type: Scale
Motor Mount: 3x18mm or 1x24mm
Recovery: Parachute
Stages: 1
Length: 43.5"
Diameter: 3.938”
Span:
Weight: 9.9 oz

Mfg. Description: Scaled to 1/100th actual size, it stands 43 1/2" tall. Precision molded plastic tower and other details make this an easy model for the experienced rocketeer to build. Authentic full color decals included. Realistic plastic engine nozzles remove for flight. Three engine cluster lifts your model hundreds of feet to peak altitude where separation occurs. The Apollo Capsule returns safely to earth on its 12" chute; two big 24" chutes gently return the main power section for its next launch. Use a 12-volt car battery or a 12-volt Estes FS-5 (or similar launch control system) for dependable ignition. (Estes 1969 Catalog)

Catalog Liveries

1969

1971

1972

1973

1975

1978

1981

1982

1982 Summer

1983

1985

Web Liveries

Face Card(s)

Also of interest:

Saturn V (#2001)

MODEL NAME: **Saturn V** *Also known as*:

NUMBER: #2001

Introduced: 1988
Final Year: 1994
Designer: Keith Niskern

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 43.25"
Diameter: 3.938"
Span:
Weight: 10.2 oz

Out Of Production

Mfg. Description: DESC

Catalog Liveries

1988

2001

Web Liveries

Face Card(s)

Also of interest:

Saturn V (#2157)

MODEL NAME: **Saturn V** *Also known as*:

NUMBER: #2157

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 43.25"
Diameter: 3.938"
Span:
Weight: 11 oz

Mfg. Description:

Catalog Liveries

2011

Web Liveries

Face Card(s)

Also of interest:

Scamp (KL-1 or #1101)

MODEL NAME: **Scamp** *Also known as*: Cold Power Scamp

NUMBER: KL-1 or #1101

Introduced: 1972
Final Year: 1973
Designer:

Out Of Production

Type: Sport
Motor Mount: Coldpower
Recovery: Parachute
Stages: 1
Length: 13.75"
Diameter: 0.976"
Span:
Weight: 1.76 oz (with engine)

Mfg. Description: Easy to assemble. Sleek design. Great flights. Roll pattern and fin decals. Parachute recovery. (Estes 1973 Catalog)

Editorial Note:

Catalog Liveries

1973

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Scamp Family, Estes Coldpower Family

Scamp (#1286)

MODEL NAME: **Scamp** *Also known as*:

NUMBER: #1286

Introduced: 1977
Final Year: 1983
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13.75"
Diameter: 0.976"
Span:
Weight: 0.8 oz

Mfg. Description: Great sports flyer with sleek, high performance design. Features 12" parachute recovery with roll pattern and fin decals. Easy-to-assemble with die-cut balsa parts, plastic nose cone and quick-release engine mount. (Estes 1977 Catalog)

Editorial Note:

Catalog Liveries

1977

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Scamp Family

(Astron) Scout (K-1 or #1201)

MODEL NAME: **Scout** *Also known as*: Astron Scout

NUMBER: K-1 or #1201

Introduced: 1961
Final Year: 1985
Designer: Vern Estes

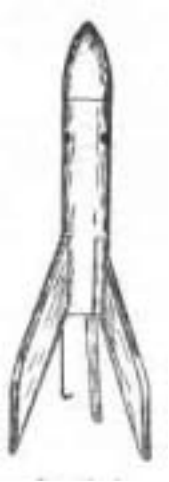
Type: Sport
Motor Mount: 1x18mm
Recovery: Tumble
Stages: 1
Length: 7"
Diameter: 0.765"
Span:
Weight: 0.3 oz

Mfg. Description: The Astron Scout is a light weight, high performance rocket. Absolutely out performs any other rocket we have ever seen. It is easy to assemble -- requires less than an hour. It is designed for many flights. Flies over 500 miles per hour, to altitudes of 1200' and over using a B-.8-4 engine. The Astron Scout employs a highly scientific recovery system which avoids catching in trees and "carrying" with the wind. Kit is complete with assembly instruction and technical report (No TR-1) on rocket stability. Completed rocket weighs only 0.28 ounces. (Estes 1961 Catalog)

The Astron Scout kit provides excellent experience for the beginning rocketeer. It dynamically teaches the important relationships of balance in rocket design. Included with the kit is Techninical Report TR-1 which normally sells separately for 25 cents. This report, included free, is a must for every rocketeer who wishes to learn to design his own rockets. (Estes 1963 Catalog)

Editorial Note:

Catalog Liveries


1961

1963

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1966

1967

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1971

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1973

1975

1977

1981

1983

1984

1 0 0 0

1985

Instruction Header

Also of interest: Estes Scout Family

Semi Scale Saturn V (K-39 or #1239)

MODEL NAME: Semi-Scale Saturn V *Also known as*:

NUMBER: K-39 or #1239

Introduced: 1969
Final Year: 1979
Designer: Bill Simon

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 18.1"
Diameter: 1.637”
Span:
Weight: 1.87 oz

Mfg. Description: Though not fully detailed, this model of the Saturn V is an amazingly good representation of our nation's biggest launch vehicle. Scaled at 1 to 242 it is a practical size to build. With single engine reliability you can count on precise launchings and steady flights. Parachute recovery gives gentle landings. Instructions and all parts included but no engines. (Estes 1969 Catalog)

Catalog Liveries

1969

1970

1971

1972

1973

1975

1977

Web Liveries

Face Card(s)

Also of interest:

Sentinel (#1987)

MODEL NAME: **Sentinel** *Also known as*:

NUMBER: #1987

Introduced: 1988
Final Year: 1994
Designer:

Type: Pseudo Ordnance
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 27.625"
Diameter: 1.637"
Span:
Weight: 2.7 oz

Mfg. Description: Air-to-air missile decor lends a scale appearance to this large model. Powerful lift-offs add realism and the model's weight requires a big 18" parachute for reliable recovery. (Estes 1988 Catalog)

Editorial Note:

Catalog Liveries

1988

Web Liveries

Face Card(s)

Also of interest: Estes Sentinel Family

Shadow (#2094)

MODEL NAME: **Shadow** *Also known as*:

NUMBER: #2094

Introduced: 1994
Final Year: 1996
Designer: Mike Dorffler

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 47.5"
Diameter: 2.6"
Span:
Weight: 8.6 oz

Mfg. Description:

Editorial Note: The Shadow seems to be the Estes Optima, reissued in the last year of the Optima's production, with a new decal scheme and a 24mm motor mount designed for the longer, Estes "E" motors.

Catalog Liveries

1994

1995

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Optima Family

(Astron) Sky Hook (K-8 or #1208)

MODEL NAME: **Astron Sky Hook** *Also known as*: Sky Hook

NUMBER: K-8 or #1208

Introduced: 1963
Final Year: 1986
Designer: Bill Simon

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12"
Diameter: 0.765"
Span:
Weight: 0.65 oz

Mfg. Description: You'll really enjoy building and flying your Astron Sky Hook. Easy to build and durable, parachute recovery brings it back gently for flight after flight. Kit comes complete with all parts and instructions (but no engines). (Estes 1964 Catalog)

Editorial Note:

Catalog Liveries

1964

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

(Astron) Skydart (K-57 or #1257)

MODEL NAME: **Astron Skydart** *Also known as*: Sky Dart, SkyDart, Skydart

NUMBER: K-57 or #1257

Introduced: 1971
Final Year: 1977
Designer: Larry Renger

Out Of Production

Type: Boost Glider
Motor Mount: 1x18mm
Recovery: Parachute/Glide
Stages: 1
Length: 15.8"
Diameter: 0.976"
Span: 12.6"
Weight: 2.5 oz

Mfg. Description: This totally new rocket-boosted glider design features an internal, rear ejection power pod. Streamlined "Business SST" body styling resulting in a high performance glide along with good reliability. Parachute recovery brings power pod back safely. (Estes 1972 Catalog)

Editorial Note: Not to be confused with Estes Sky Dart #1475

Catalog Liveries

1972

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Skydart Family

Solar Probe (#2051)

MODEL NAME: **Solar Probe** *Also known as*:

NUMBER: #2051

Introduced: 1991
Final Year: 1993
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 20.125"
Diameter: 1.637"
Span:
Weight: 1.82 oz

Out Of Production

Mfg. Description: Concept model of a solar powered asteroid probe. The probe would be used to investigate the presence and quantity of minerals for possible mining. Altitudes of 650 ft (198m) are possible with a "C" engine. (Estes 1991 Catalog)

Editorial Note:

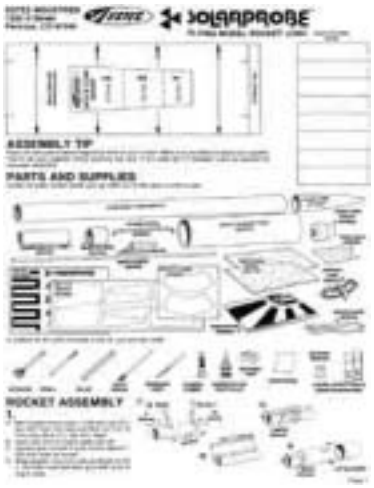
Catalog Liveries

1991

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Centuri Laser-X Family

(Astron) Space Plane (K-3 or #1203)

MODEL NAME: **Astron Space Plane** *Also known as*: Space Plane

NUMBER: K-3 or #1203

Introduced: 1961
Final Year: 1972
Designer: Vern Estes, John Shutz

Type: Rocket Glider, Payload
Motor Mount: 1x18mm
Recovery: Glide
Stages: 1
Length: 10"
Diameter: 0.765"
Span: 9"
Weight: 0.5 oz

Mfg. Description: A completely new concept in the field of rocket powered models. Not recommended for beginners in model rocketry as this kit must be assembled with precision and care. (Estes 1961 Catalog)

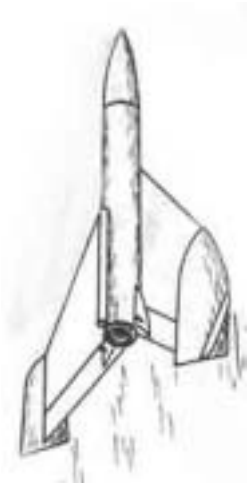
Rocket powere glider - - ascends vertically, then glides to a gentle landing. The most successful boost glider ever developed. Winner of more first places than all other designs combined. Set new world's record at NARAM -4, broke the record againg at COLREG-1. Every senior division record has been set with a Space Plane.

The Space Plane features easy and accurate adjustment of glide characteristics and a payload compartment large enough to handle small biological specimens and other scientific objects.

The Astron Space Plane is easy to launch, and with proper care can last over 50 flights. This kit is recommended for the experienced modeler and must be assemble with precision and care. (Estes 1963 Catalog)

Editorial Note:

Catalog Liveries


1961

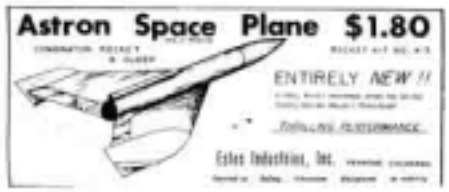
1963

1964

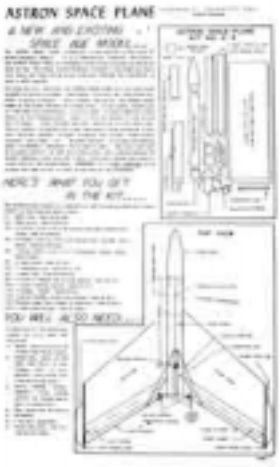
1 0 1 4

Web Liveries

Face Card(s)



Instruction Header



Also of interest:

(Astron) Spaceman (K-9 or #1209)

MODEL NAME: **Astron Spaceman** *Also known as*: Spaceman

NUMBER: K-9 or #1209

Introduced: 1963
Final Year: 1972
Designer: Vern Estes

Type: Oddroc
Motor Mount: 1x18mm
Recovery: Featherweight
Stages: 1
Length: 7.25"
Diameter:
Span: 4"
Weight: 0.45 oz

Mfg. Description: A real odd ball of a rocket, you'll get a big "kick" out of building and flying the Astron Space Man. Featherweight recovery brings him back close to the pad, ready for a new engine and another flight. Kit comes complete with all parts and instructions (but no engine). (Estes 1964 Catalog)

Editorial Note:

Catalog Liveries

1964

Web Liveries

Face Card(s)

ASTRON

SPACEMAN

The most controversial model rocket yet. Some feel he's a disgrace to the sport, others say he does an important job in showing that a rocket doesn't have to look like a rocket to fly well. Requires patience and a bit of artistic ability to build. Uses the featherweight recovery system. Kit comes complete with all parts and instructions (but no engines). Shipping weight 7 oz.

Cat. No. 651-X-9 **$ .75 P.P.**

4" wide, 7.25" long, weight .45 oz.

Recommended Engines

½A.B-2 ½A.B-3

A.B-3 B.B-4

(Use ½A.B-2 engines for low flights.)

Instruction Header

ASTRON SPACEMAN

Only $.75

Estes Industries, Inc.

Box 227 Penrose, Colo. 81240

Assembly Instructions

Also of interest: Estes Spacemnan Family

Spin Fin (#1355)

MODEL NAME: **Spin Fin** *Also known as*:

NUMBER: #1355

Introduced: 1981
Final Year: 1986
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 11.6"
Diameter: 0.736"
Span:
Weight: 2.6 oz

Mfg. Description: Unique spin-flight design creates dramatic curling smoke trail on its way up. Spectacular flights over 1,200 feet with 30" streamer recovery. (Estes 1981 Catalog)

Editorial Note:

Catalog Liveries

1981

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

(Astron) Sprint (K-49 or #1249)

MODEL NAME: **Astron Sprint** *Also known as*: Sprint

NUMBER: K-49 or #1249

Introduced: 1970
Final Year: 1983
Designer: Mike Dorffler

Type: Streamer Duration
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 13.8"
Diameter: 0.976"
Span:
Weight: 1 oz

Mfg. Description: An impressive altitude model! Designed to give the highest performance in its class, the Astron Sprint incorporates the most efficient aerodynamic shapes for the velocities it will encounter. Altitudes up to 1600' are possible using C6-7 engines. This model is perfect for the advanced rocketeer, yet simple enough for the beginner to build. Kit features include pre-cut fins an tail cone, two color Sprint emblem decal, one color trim decal and complete illustrated assembly instructions. (Estes 1970 Catalog)

Editorial Note:

Catalog Liveries

1970

1971

1972

1973

1974

1975

1977

1978

1980

1981

1983

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Sprint Family, Streamer Duration Family

(Astron) Sprite (K-15 or #1215)

MODEL NAME: **Astron Sprite** *Also known as*: Sprite

NUMBER: K-15 or #1215

Introduced: 1964
Final Year: 1973
Designer: Gene Street

Type: Sport
Motor Mount: 1x18mm
Recovery: Tumble
Stages: 1
Length: 5.3"
Diameter: 0.765"
Span:
Weight: 0.3 oz

Out Of Production

Mfg. Description: The perfect model for small fields and sport or demonstration flying. The Astron Sprite is easy to build, with tumble recovery to teach principles of rocket balance and bring the model safely back - close to the launcher. Uses lightweight Series III engines only, gives top performance for its size. Kit comes complete with instructions and a copy of TR-1 (but no engines). (Estes 1966 Catalog)

Editorial Note:

Catalog Liveries

1966

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Sprite Family

Star Stryker (#3206)

MODEL NAME: **Star Stryker** *Also known as*:

NUMBER: #3206

Introduced: 2010
Final Year:
Designer:

Type: Sport, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.8 in. (42.7 cm)
Diameter: 0.98 in
Span:
Weight: 1.06 oz. (30 g)

Mfg. Description: Simple to build yet impressive on the launch pad is just what the Star Stryker is! A great beginner "payload" rocket, the Star Stryker can reach heights over 1100 feet on a C6-5 engine. Now that's impressive! New and old time rocketeers will want this one. (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

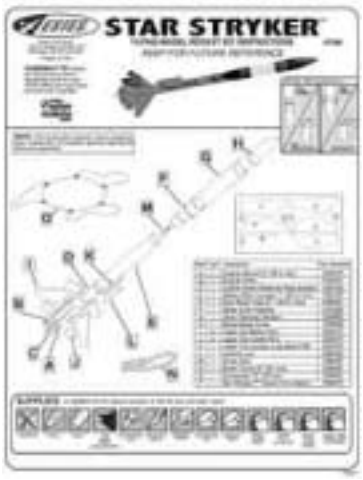
2010

Web Liveries

2012

Face Card(s)

Instruction Header



Star Trooper (#3031)

MODEL NAME: **Star Trooper** *Also known as*:

NUMBER: #3031

Introduced: 2010
Final Year:
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 7.4"
Diameter: 0.54"
Span:
Weight: 0.3 oz

Mfg. Description: Part of the Estes Classic Series. Estes has gone back to the archives, pulled up old drawings and spec sheets and brought these fantastic flying machines back for old and new rocketeers to enjoy. This kit has been reproduced and updated while still retaining the classic lines of the original. (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Centuri Star Trooper Family

Starship Vega (KC-4 or #0653)

MODEL NAME: **Starship Vega** *Also known as*: Citation Vega

NUMBER: KC-4 or #0653

Introduced: 1971
Final Year: 1974
Designer: Wayne Kellner

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.5"
Diameter: 0.976"
Span:
Weight: 1.88 oz

Mfg. Description: A look into tomorrow... deep space, interplanetary exploration vehicle. Great sport flying performance. Futuristic landing legs on rear fins. Complete with 3-color decal sheet, die cut fins and bright foil body wrap-on. Parachute (12") recovery system. (Estes 1971 Citation Catalog)

Editorial Note:

Catalog Liveries

1971 Citation

1973

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Starship Vega Family, Estes Citation Marketing Family

Starship Vega (#1320)

MODEL NAME: **Starship Vega** *Also known as*:

NUMBER: #1320

Introduced: 1979
Final Year: 1983
Designer: Bruce Paton

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.5"
Diameter: 0.976"
Span:
Weight: 1.88 oz

Mfg. Description: Exotic planetary exploration vehicle featuring simulated landing shocks. Futuristically designed with realistic two color decals, die cut balsa fins, and quick release engine mount. A great performer with impressive lift-off and beautiful recovery via 12" chute. Science fiction styling gives this bird a real spaceship look. (Estes 1979 Catalog)

Editorial Note:

Catalog Liveries

1979

1981

1982

1983

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Starship Vega Family

(Astron) Streak (K-4 or #1204)

MODEL NAME: **Astron Streak** *Also known as*: Streak

NUMBER: K-4 or #1204

Introduced: 1962
Final Year: 1987
Designer: Vern Estes

Type: Sport
Motor Mount: 1x18mm
Recovery: Tumble
Stages: 1
Length: 5.6"
Diameter: 0.72"
Span:
Weight: 0.125 oz

Mfg. Description: The ultimate Pee-Wee! Extremely light weight -- weighs only 1/8 ounce without engine. Uses special mylar body tube to give this light weight with high strength. Ideal kit for contests and records, will reach altitudes up to 2,000 feet. Recommended engine for normal flying is 1/4A.8-2. Kit comes complete with all parts and easy to follow instructions. (Estes 1963 Catalog)

Editorial Note:

Catalog Liveries

1963

1964

1966

1967

1968

1969

1970

1971

1972

1973

1975

1977

1978

1981

1983

1985

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Streak Family

Super Alpha (#3216)

MODEL NAME: **Super Alpha** *Also known as*:

NUMBER: #3216

Introduced: 2010
Final Year:
Designer:

Type: Sport, Upscale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.5 in. (49.5 cm)
Diameter: 1.64 in. (42 mm)
Span:
Weight: 2.2 oz. (62.3 g)

Mfg. Description: Super sized and super fun! That's what the Super Alpha is! Powered by Estes standard engines, you will reach amazing heights of 600 feet! (Estes 2011 Web Ad)

Catalog Liveries

2010

Web Liveries

2011

Face Card(s)

Also of interest: Estes Alpha Family

Super Big Bertha (#2018)

MODEL NAME: Super Big Bertha *Also known as*:

NUMBER: #2018

Introduced: 1989
Final Year: 1993
Designer:

Type: Sport, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 36.5"
Diameter: 2.56"
Span:
Weight: 6 oz

Mfg. Description: A really big Big Bertha! Over 3 feet tall and 8 inches around, you'll need a "D" engine to lift it. An 18" parachute brings it back to the ground gently. You'll love to fly this model over and over! (Estes 1989 Catalog)

Catalog Liveries

1989

1993

Web Liveries

Face Card(s)

Also of interest:

1 0 3 8

Super Big Bertha (#2165)

MODEL NAME: **Super Big Bertha** *Also known as*:

NUMBER: #2165

Introduced: 2002
Final Year: 2002
Designer:

Type: Sport, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description: DESC

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest:

Super Vega (#2036)

MODEL NAME: **Super Vega** *Also known as*:

NUMBER: #2036

Introduced: 1990
Final Year: 1993
Designer:

Type: Exotic
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 28"
Diameter: 1.637"
Span:
Weight: 5.4 oz

Mfg. Description: Slow, thrilling lift-offs to heights beyond 250 feet make this large, exotic rocket one of your favorites. A 3/16 inch diameter Maxi launch rod is required for launch. (Estes 1990 Catalog)

Editorial Note:

Catalog Liveries

1990

1993

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Starship Vega Family

Teros (#1285)

MODEL NAME: **Teros** *Also known as*:

NUMBER: #1285

Introduced: 1977
Final Year: 1982
Designer:

Type: Pseudo-Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13"
Diameter: 0.976"
Span:
Weight: 1.2 oz

Out Of Production

Mfg. Description: Authentic anti-aircraft missile styling with U.S.A.F. decor. Exciting scramjet design with ram-jet nose. Super sports model with 12" parachute recovery, die-cut balsa fins and quick release engine mount. (Estes 1977 Catalog)

Editorial Note: The original Teros (KL-5) was a Coldpower rocket. This standard propulsion version was issued a few years after KL-5 was withdrawn.

Catalog Liveries

1977

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Teros Family

Teros (KL-5 or #1105)

MODEL NAME: **Teros** *Also known as*: Coldpower Teros

NUMBER: KL-5 or #1105

Introduced: 1972
Final Year: 1973
Designer: Mark Kellner

Type: Pseudo-Scale
Motor Mount: Coldpower
Recovery: Parachute
Stages: 1
Length: 13"
Diameter: 0.976"
Span:
Weight: 2.01 oz (With Engine)

Mfg. Description: Authentic anti-aircraft missile styling. Scramjet design. U.S.A.F. decor. Ram-jet nose. Fun sports model. Parachute recovery. (Estes 1973 Catalog)

Editorial Note:

Catalog Liveries

1973

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Teros Family, Estes Coldpower Marketing Family

Tornado (#2004)

MODEL NAME: **Tornado** *Also known as*:

NUMBER: #2004

Out Of Production

Introduced: 1989
Final Year: 1998
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Maple Leaf
Stages: 1
Length: 9.6"
Diameter: 0.736"
Span:
Weight: 0.49 oz

Mfg. Description: Recovery with a new twist from flights to 1700 feet! When the engine's ejection charge is activated Tornado separates into two sections, each employing spinning helicopter recovery. (Estes 1989 Catalog)

Editorial Note:

Catalog Liveries

1989

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Tornado Family

(Astron) Trident (K-33 or #1233)

MODEL NAME: **Astron Trident** *Also known as*: Trident

NUMBER: K-33 or #1233

Introduced: 1967
Final Year: 1974
Designer: Gene Street

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 31.635"
Diameter: 0.976"
Span: 3"
Weight: 2.67 oz

Mfg. Description: **A revolutionary model design inspired by atomic propulsion research.** Futuristic rocket design introduces ejection ducting. This system directs ejection gasses through openings in the power tube into three ducting tubes to pressurize the parachute compartment for deployment of the chute. You'll want to build this model. It presents a new idea to test, and gives excellent reliability, stability and performance. Uses single parachute recovery; gives impressive performance flight after flight. Kit comes with all parts and instructions. Engines not included. (Estes 1968 Catalog)

Editorial Note:

Catalog Liveries

1968

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Trident Family

Trident II (#2033)

MODEL NAME: **Trident II** *Also known as*: “Bident”

NUMBER: #2033

Introduced: 1990
Final Year: 1991
Designer:

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 30.5"
Diameter: 0.976"
Span:
Weight: 2.61 oz

Mfg. Description: Up-to-date version of classic Estes Trident rocket first introduced in 1968. Long and sleek, this beauty utilizes seven balsa nose cones in its construction and features a unique ejection system. Estimated maximum altitude is 475 feet. (Estes 1990 Catalog)

Editorial Note: This rocket was never called the “Bident” by Estes Industries. The name arose because the original Trident had 3 ducts running from the engine assembly to the nose assembly but the Trident II only had 2 such tubes.

Catalog Liveries

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Trident Family

Twister (#1449)

MODEL NAME: **Twister** *Also known as*:

NUMBER: #1449

Introduced: 1993
Final Year: 2003
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Maple Leaf
Stages: 1
Length: 9.6"
Diameter: 0.736"
Span:
Weight: 0.49 oz

Mfg. Description:

Editorial Note: Identical to Tornado (#2004) except for decals and livery. Part of Super Shot Starter Set. No relation to Estes Twister #3033.

Catalog Liveries

1993

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Tornado Family

US Army Patriot M-104 (#1248)

MODEL NAME: **U.S. Army Patriot M-104** *Also known as*: Launchables Patriot

NUMBER: #1248

Introduced: 2003
Final Year: 2003
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21.3 in. (54.1 cm)
Diameter: 1.64 in. (41 mm)
Span:
Weight: 2 oz. (56.7 g)

Out Of Production

Mfg. Description:

Editorial Note: Same as #2056 except for packaging

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family, Estes Launchables Marketing Family

V-2 (K-22 or #1222)

MODEL NAME: **V-2** *Also known as*:

NUMBER: K-22 or #1222

Introduced: 1965
Final Year: 1977
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 11.2"
Diameter: 1.325"
Span:
Weight: 1.4 oz

Mfg. Description: High performance scale model of the rocket that started the space age. Easy but interesting to build, the V-2 features reliable parachute recovery for gentle landings. Detailed instruction provide full information on assembly and finishing. Kit comes complete with all parts (but no engines). (Estes 1966 Catalog)

Editorial Note:

Catalog Liveries

1966

Web Liveries

Face Card(s)

Instruction Header

Also of interest: V-2 Ordnance Family, V-2 Launch Vehicle Family

V-2 (#1926)

MODEL NAME: **V-2** *Also known as*:

NUMBER: #1926

Introduced: 1984
Final Year: 1987
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.4"
Diameter: 2.60"
Span:
Weight: 4.9 oz.

Out Of Production

Mfg. Description: Large semi-scale version of the WWII ballistic missile. The original German version stood 46' high, weighed over 14 tons and could travel as much as 200 miles at nearly 2,000 m.p.h. (Estes 1984 Catalog)

Editorial Note:

Catalog Liveries

1984

1985

Web Liveries

Face Card(s)

Instruction Header

Also of interest: V-2 Ordnance Family, V-2 Launch Vehicle Family

Vagabond (#3217)

MODEL NAME: **Vagabond** *Also known as*:

NUMBER: #3217

Introduced: 2011
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 35.25 in. (89.5 cm)
Diameter: 1.64 in. (42 mm)
Span:
Weight: 4.1 oz. (116.2 g)

Mfg. Description: Standing almost 3 feet tall, this amazing rocket can reach heights of 1275 feet. Launched on D and *E engines, this rocket is sure to be a crowd pleaser. (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2011

2012

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

Ventris (#9701)

MODEL NAME: **Ventris** *Also known as*: Pro Series II Ventris

NUMBER: #9701

Introduced: 2012
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 46.25 in. (117.5 cm)
Diameter: 2.5 in. (6.4 cm)
Span:
Weight: 15.6 oz. (442.3 g)

Mfg. Description: Pro Series II

Awesome is what the Ventris is! Introduced in 2011, the Pro Series II line features "big boy" toys!

The Ventris launches on composite motors and has through the wall fin mounting. An awesome feature to this series is the new quick release motor retention system (Motor Retainer Set - also sold separately). Though massive looking, the construction of this kit is not difficult. Building and finish work can easily be accomplished over a few days.

Sure to be a crowd pleaser, the Ventris is just waiting to be added to your collection! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

2012

Web Liveries

2012

Face Card(s)

Instruction Header

Estes 2012 Ventris Painting Guide

Also of interest: Estes Pro Series II Marketing Family

Viking (#1755)

MODEL NAME: **Viking** *Also known as*: Bulk Pack Viking

NUMBER: #1755

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 12.1 in. (30.7 cm)
Diameter: 0.74 in. (19 mm)
Span:
Weight: 0.6 oz. (17 g)

Mfg. Description: The Viking can be built with three, four or five fins in 48 possible arrangements. This makes it perfect to use for comparison studies in aerodynamics. In fact, the Viking is so popular there's even a GEMS book written for it. No matter how you place the fins, this unique, adjustable rocket offers the ultimate in high performance model rocket flight!

This easy-to-build, Skill Level 1 rocket kit includes a molded nose cone, a single piece body tube, card stock fins and self-stick decals. It's another friction fit, standard engine rocket that requires simple painting. The Viking can reach amazing launch heights over 1,600 feet and will drift back to earth on a bright streamer. The Viking is our most economical bulk pack rocket, so if you've got a tight budget it's definitely the one for you! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Viking Family

Viking (#1949)

MODEL NAME: Viking *Also known as*:

NUMBER: #1949

Introduced: 1986
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 12.1 in. (30.7 cm)
Diameter: 0.74 in. (19 mm)
Span:
Weight: 0.6 oz. (17 g)

Mfg. Description: The Estes Viking is one fantastic research rocket with 48 possible different fin configurations! This kit gives you five special die cut card stock fins that allow you to create a rocket that's a truly unique rocket of your own design! Take your pick on how you want your rocket to look; fins up, fins down or fins whatever way. You call it, it's your day to be the rocket designer! Customize your own rocket...no matter how you place the fins, it still offers the ultimate in high performance model rocket flight!

This Skill Level 1 rocket kit includes a single piece body tube, molded nose cone and self-stick decals. This rocket is just over 12 inches tall. When flown on standard engines, the Viking is able to reach amazing launch heights over 1600 feet and land safely with its bright orange streamer. The versatile Viking can be built in an afternoon. It's a great high altitude rocket for beginners, class projects, clubs and rocket demonstrations. (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

1986

Web Liveries

2012

Face Card(s)

1 0 6 6

Instruction Header

Also of interest: Estes Viking Family

WAC Corporal (K-11 or #1211)

MODEL NAME: **WAC Corporal** *Also known as*:

NUMBER: K-11 or #1211

Introduced: 1963
Final Year: 1978
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 11.8"
Diameter: 0.736"
Span:
Weight: 0.65 oz

Mfg. Description: High-flying scale model of the famous sounding rocket! Easy enough for the novice to build, yet interesting enough for the experienced rocketeer, the WAC Corporal gives top performance for a scale mode. Parachute recovery gives gentle landing flight after flight. Comes in easy-to-assemble kit form. (Estes 1964 Catalog)

Editorial Note:

Catalog Liveries

1964

Web Liveries

Face Card(s)

Instruction Header

Also of interest: WAC Corporal Soudning Rocket Family

Wizard (#1292)

MODEL NAME: **Wizard** *Also known as*:

NUMBER: #1292

Introduced: 1978
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 12"
Diameter: 0.736"
Span:
Weight: 0.79 oz

Mfg. Description: No tricks here - just the most magical, high flying rocket in the Kingdom! The Estes Wizard is an easy to build, high performance rocket that's known for casting spells on all who own it. One minute he's on the pad, then the next...poof...he's in the air! Standing 12 inches tall, this trickster can reach magical heights of 1,600 feet or more using powerful Estes engines.

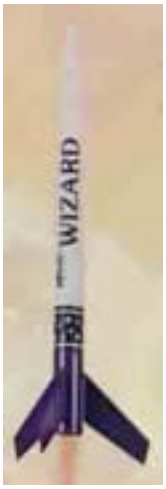
The Wizard is a Skill Level 1 kit that includes a one piece body tube, laser cut wood fins and a bullet-shaped plastic nose cone. The easy to apply, self-stick decals are sure to make this mystic rocket the envy of everyone at your local launch field. The Wizard is a great high altitude rocket for beginners, schools, clubs and rocket demonstrations.

Regardless if you're a beginner or pro, the Wizard promises hours of flying magic! (Estes 2012 Web Ad)

Editorial Note:

Catalog Liveries

1978



1981

1982

1983

1985

1991

1992

1993

1995

1998

2000

2001

2002

2003

2004

2005

2006

2007

2008

2010

2011

2012

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

(Astron) X-Ray (K-18 or #1218)

MODEL NAME: **X-Ray** *Also known as*: Astron X-Ray

NUMBER: K-18 or #1218

Introduced: 1964
Final Year: 1985
Designer:

Type: Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.75"
Diameter: 0.950"
Span:
Weight: 7 oz

Mfg. Description: An easy-to-build high performance single stage payload rocket, the Astron X-Ray features parachute recovery and a large see-through payload compartment. Perfect for research work and sport flying too. Kit comes complete (less engines). (Estes 1966 Catalog)

Editorial Note:

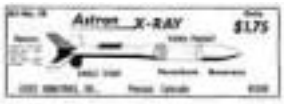
Catalog Liveries

1966

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes X-Ray Family

Yellow Jacket (#2008)

MODEL NAME: **Yellow Jacket** *Also known as*:

NUMBER: #2008

Introduced: 1989
Final Year: 1998
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.8"
Diameter: 0.976"
Span:
Weight: 1.08 oz

Out Of Production

Mfg. Description: High performance is a top feature of this easy-to-assemble sport flier. Flights over 1200 feet high are possible with a "C" engine. (Estes 1989 Catalog)

Editorial Note:

Catalog Liveries

1989

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Yellow Jacket Family

Yellow Jacket (#7005)

MODEL NAME: **Yellow Jacket** *Also known as*:

NUMBER: #7005

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.8"
Diameter: 0.976"
Span:
Weight: 1.08 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Yellow Jacket Family

Estes Design of the Month (Estes DOM)

Master List for **Estes DOM** by Name

Top Secret #78

Master List for **Estes DOM** by *Number*

#78 Top Secret

Top Secret (#78)

MODEL NAME: **Top Secret** *Also known as*:

NUMBER: #78

Introduced:
Final Year:
Designer: Brett Simpkins

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

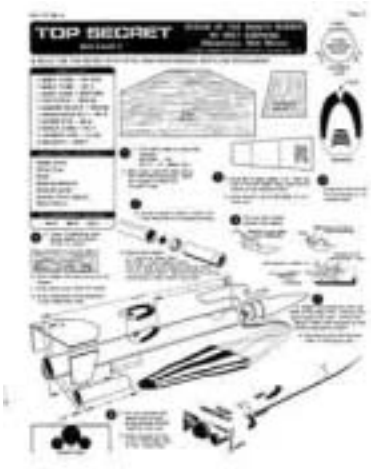
Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes DOM Top Secret Family

Estes Model Rocket News (MRN)

Master List for **Estes MRN** by Name

Big Bertha	#13

Master List for **Estes MRN** by *Number*

#13	Big Bertha

Big Bertha (#13)

MODEL NAME: Big Bertha *Also known as*:

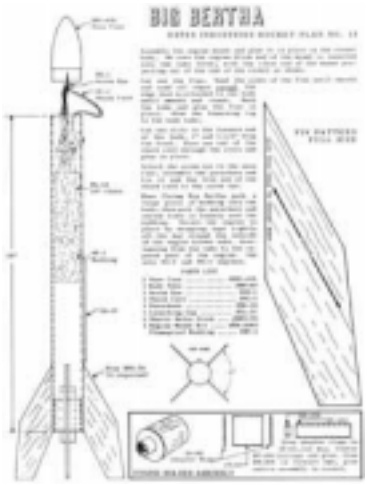
NUMBER: #13

Introduced: 1962
Final Year:
Designer: Vern Estes

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Face Card(s)



Also of interest: Estes Big Bertha

1981

Web Liveries

Face Card(s)

Also of interest:

Excelsior Rocketry

Excelsior Rocketry

7205 Roach Road

Lexington, Michigan 48450

gagnello@yahoo.com

http://www.excelsiorrocketry.com/

About Excelsior

I am the new owner/operator of Excelsior Rocketry. My name is Gordon Agnello and I think I have everything running now. Please let me know if there are any problems with the site.

(Company Web Statement 2011)

Master List for **Excelsior** by Name

Der Fat Max	*Goony*
Der Grosser Vati	*Goony*
Goony Max	*Goony*
Goonybird Zero	*Goony*
Honest Goon	*Goony*

Der Fat Max

MODEL NAME: **Der Fat Max** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Goony
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DER FAT MAX is just as GOONY as the others... only bigger!! Who ever said that a wacky design could not get any GOONY-er? It may look familiar, but the wording has been changed to protect the GOONY!!

DER FAT MAX is based on the FAT BOY kit. All you need to add is DER FAT MAX fins, DER FAT MAX decals, and you are off. Like all Retro Bash sets, the DER FAT MAX contains decals, instructions, and fin patterns. You supply the FAT BOY kit. (Excelsior 2012 Web Ad)

Catalog Liveries

Web Liveries

2012

Face Card(s)

Also of interest: Estes Der Red Max Family, Goony Family

1 0 9 0

Der Grosser Vati

MODEL NAME: Der Grosser Vati *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Alan Estenson

Type: Sport, Goony
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description: We all knew it would happen sooner or later.... someone would cross a Max with the Daddy..... Anyway, what sport rocket does not look good with with a skull and crossbones? Alan Estenson thought so, and with some input from Excelsior Rocketry, developed the GROSSER VATI.

The Grosser Vati includes a full page of crisply detailed black and white goofy decals required to get the MAX out of your Big Daddy kit. They have are customized not only to fit this model, many details have been changed as well. Check out Alan's awesome model on the right and below. (Excelsior 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: Estes Der Red Max Family, Estes Big Daddy Family

Goony Max

MODEL NAME: **Goony Max** *Also known as*: Der Goony Max

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport, Goony
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description: The GOONY MAX is a super twisted turn on an older favorite.

The GOONY MAX is based on the Baby Bertha kit. All you need to add is the GOONY MAX fins, the GOONY MAX decals, and you are off. Like all Retro Bash sets, the GOONY MAX contains decals, instructions, and fin patterns to build from a Baby Bertha kit that you supply yourself. (Excelsior 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: Estes Der Red Max Family, Goony Family

Goonybird Zero

MODEL NAME: **Goonybird Zero** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Goony
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Once more, into the world of GOONY we go.... the latest is a stunted little model called the GOONYBIRD ZERO.

The GOONYBIRD ZERO is a kitbash of the Baby Bertha kit. All you need to add is the GOONYBIRD ZERO fins, the GOONYBIRD ZERO decals, and you are off. Like all Retro Bash sets, the GOONYBIRD ZERO contains decals, instructions, and fin patterns to build from a Baby Bertha kit that you supply yourself. (Escelsior 2012 Web Ad)

Web Liveries

2009

Face Card(s)

Also of interest: Estes Blue Bird Zero Family, Goony Family

Honest Goon

MODEL NAME: **Honest Goon** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport, Goony
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: The HONEST GOON... just one look says it all: slow and low. It lumbers off the pad yet is very stable. The secret is that big, fat nose section. (actually a BT-6070, and a BNC70AJ). It is fun to build, and and even more fun to lob... I mean fly.

The Honest Goon requires slightly more skill than the other GOONYs as the modeler must build the nosecone from a balsa transition and a balsa nosecone. We rate it at Skill Level 2. As with other Retro Bash kits, the basis is a Baby Bertha. Included are instructions, fin patterns and all the decals needed to build your own Honest Goon. The modeler must supply a Baby Bertha kit, a BT70AJ, a TA6070, and a small ring of BT70.

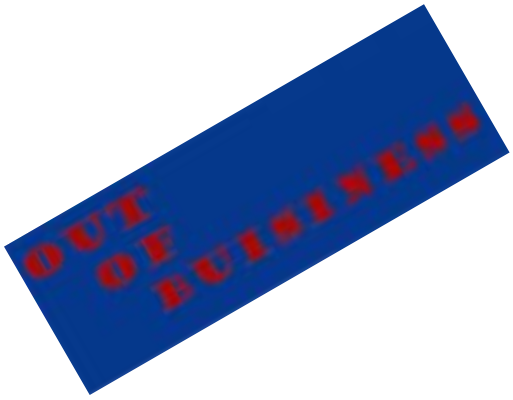
Web Liveries

2011

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family, Goony Family

Fat Cat Rockets, Inc.



Master List for **Fat Cat** by Name

F104 Starfighter

F104 Starfighter

MODEL NAME: F104 Starfighter *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 39"
Diameter: 3"
Span:
Weight: 34 oz

Mfg. Description: Nicknamed "the missile with a man in it", this scale model of the F 104 will attract attention wherever it is flown. (Fat Cat 2000 Catalog)

Editorial Note:

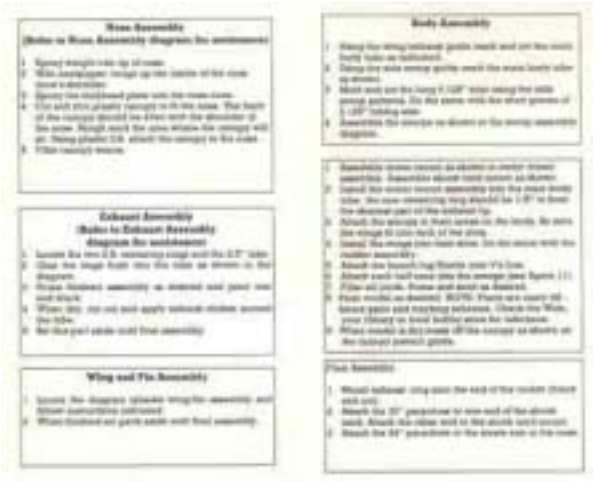
Catalog Liveries

2000

Web Liveries

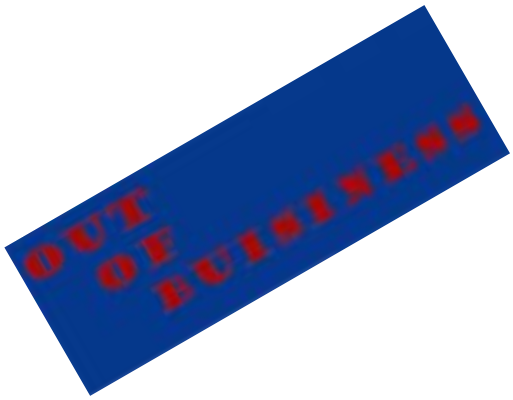
Face Card(s)

Instruction Header



Also of interest: F 104 Starfighter Aircraft Family

Flight Systems Inc. (FSI)



1 0 9 9

Master List for **FSI** by Name

Nike Smoke	#1030
Viking 1	#1009
Viking 1	MRK-9
Viking 2	#1010
Viking 2	MRK-10
Viking 3	#1011
Viking 3	MRK-11
Viking 4	#1012
Viking 4	MRK-12
Viking 5	#1029

Master List for **FSI** by Number

#1009	Viking 1
#1010	Viking 2
#1011	Viking 3
#1012	Viking 4
#1029	Viking 5
#1030	Nike Smoke
MRK-9	Viking 1
MRK-10	Viking 2
MRK-11	Viking 3
MRK-12	Viking 4

Nike Smoke (#1030)

MODEL NAME: **Nike Smoke** *Also known as*:

NUMBER: #1030

Introduced: 1990
Final Year: 1994
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 26.6"
Diameter: 2"
Span:
Weight: 4.75 oz

Mfg. Description: The Nike Smoke is a 1/8 scale model of the solid propellant sounding rocket used by NASA to measure wind velocities up to 75,000 ft. Chemicals released from the nose cone formed a dense white smoke that was photographically recorded to show wind movements. (FSI 1990 Catalog)

Editorial Note:

Catalog Liveries

1990

Web Liveries

Face Card(s)

Also of interest: Nike Smoke Sounding Rocket Family

Viking 1 (MRK-9 or #1009)

MODEL NAME: **Viking 1** *Also known as*: Viking, Viking I

NUMBER: MRK-9 or #1009

Introduced: 1968
Final Year: 1987
Designer:

Type: sport/tube fin
Motor Mount: 1x18mm
Recovery: parachute
Stages: 1
Length: 20"
Diameter: 0.903"
Span:
Weight: 1.6 oz

Out Of Production

Mfg. Description:

Catalog Liveries

1971

1977

1979

Web Liveries

Face Card(s)

Also of interest: FSI Viking Family, Tubefin Family

Viking 2 (MRK-10 or #1010)

MODEL NAME: **Viking 2** *Also known as*: Viking II

NUMBER: MRK-10 or #1010

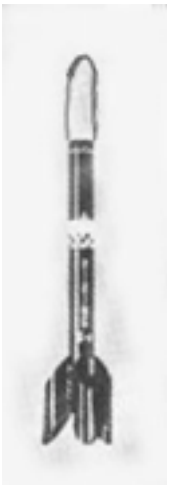
Introduced: 1968
Final Year: 1994
Designer:

Type: sport/tube fin
Motor Mount:
Recovery: parachute
Stages: 1
Length: 16"
Diameter: 0.903"
Span:
Weight: 1.5 oz

Mfg. Description:

Catalog Liveries

1971


1977

1979

1990

Web Liveries

Face Card(s)

Also of interest: FSI Viking Family, Tube Fin Family

Viking 3 (MRK-11 or #1011)

MODEL NAME: **Viking 3** *Also known as*:

NUMBER: MRK-11 or #1011

Introduced: 1968
Final Year: 1987
Designer:

Type: sport/tube fin
Motor Mount:
Recovery: parachute
Stages: 1
Length: 15"
Diameter: 0.903"
Span:
Weight: 1.5 oz

Out Of Production

Mfg. Description:

Catalog Liveries

1971

1977

1979

Web Liveries

Face Card(s)

Also of interest: FSI Viking Family, Tube Fin Family

Viking 4 (MRK-12 or #1012)

MODEL NAME: **Viking 4** *Also known as*: Viking IV

NUMBER: MRK-12 or #1212

Introduced: 1968
Final Year: 1994
Designer:

Out Of Production

Type: sport/tube fin
Motor Mount:
Recovery: parachute
Stages: 1
Length: 20.25"
Diameter: 1.130"
Span:
Weight: 2.1 oz

Mfg. Description: The VIKING 4 is for the advanced rocketeer who wants only the finest in high flying models.

Roam the sky. Be a bold one. Fly a Super Viking!

Altitudes to 4000' can be reached with Flight Systems, Inc. super powered "F" series model rocket engines. (FSI 1971 Catalog)

Catalog Liveries

1971

1977

1979

1990

Web Liveries

Face Card(s)

Also of interest: FSI Viking Family, Tube Fin Family

Viking 5 (#1029)

MODEL NAME: **Viking 5** *Also known as*: Viking V

NUMBER: #1029

Introduced: 1987
Final Year: 1994
Designer:

Out Of Production

Type: sport/tube fin
Motor Mount:
Recovery: parachute
Stages: 1
Length: 45.34"
Diameter:
Span:
Weight:

Mfg. Description: The VIKING V is the command ship of the Viking series. It stands 45.34 inches tall and features a transition section. The advanced design stabilizers make this kit unique in appearance as well as offering extreme stability. (FSI 1990 Catalog)

Catalog Liveries

1990

Web Liveries

Face Card(s)

Also of interest: FSI Viking Family, Tube Fin Family

FlisKits

FlisKits, Inc., Model Rocket Kits & Supplies
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http://fliskits.com/

1110

About FlisKits

Greetings from the quaint New England state of New Hampshire and the "new kids on the rocketry block", FlisKits, Incorporated.

There are many small model rocket companies around the country. Some specialize in a particular type of rocketry (competition, scale, etc), while some specialize in a particular aspect of rocketry (recovery devices, launch equipment, etc). All provide their own brand of rocketry enthusiasm. All play their own special part in keeping model rocketry fun and exciting. The number of such companies has just grown by one.

FlisKits, Inc. hopes to distinguish itself in its return to "rocketry of old" with a large and growing array of model rocket kits that fire the imagination, teach basic skills and enables the modeler to grow their skills and interest in all that model rocketry has to offer.

(Company Web Statement 2011)

Master List for **FlisKits** by Name

A.C.M.E. Spitfire	SP007	
Decaffeinator	SP011	
Honest John	MX008	*Micro to the Maxx*
Long OverDue	SP008	
Nell	SC003	
Night Whisper	FR006	
OverDue	OD001	

Master List for **FlisKits** by *Number*

FR006	Night Whisper	
MX008	Honest John	*Micro to the Maxx*
OD001	OverDue	
SC003		
SP007	A.C.M.E. Spitfire	
SP008	Long OverDue	
SP011	Decaffeinator	

A.C.M.E. Spitfire (SP007)

MODEL NAME: **A.C.M.E. Spitfire** *Also known as*: ACME Spitfire, Spitfire

NUMBER: SP007

Introduced: 2003
Final Year:
Designer: Jim Flis

Type: Oddroc
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 18.1"
Diameter: 2.217"
Span: 8"
Weight: 2.87 oz

Mfg. Description: A.C.M.E. Spitfire: Without question the most unusual, imaginative and bizarre kit to ever be produced! Bent in ways that would surely prevent stable flight, the ACME Spitfire delivers arrow straight flights time after time! One of the most talked about kits available today! (Fliskits 2005 Web Ad)

This is more along the lines of something you'd expect to see racing through the desert after some strange bird rather than into the wild blue yonder!

So, here's the story... ...Ever have one of those days where nothing is going right? I mean by the BUCKET load! I fire up the ol' computer to do some more work on the latest kit design for FlisKits and what do I find? The file has gotten corrupted, the computer is acting up and my mouse is skipping and jerking. But I have a job to do, get this design in the bag and into production. Well it was a long night and it wasn't until I woke the next day that I realized what had happened to the design. Then it was too late and we HAD to make it work!

Well, no, that isn't really what happened... What really happened is my son came up to me one day with a cartoon and said "Hey Dad, bet you can't make THIS fly!" Now, what was I to do?? So I took the challenge and the A.C.M.E. Spitfire is the result!

Don't let its simple lines fool you. This is a quite complex model to build! With 7 Centering Rings, cutting and customization of Body Tubes and rolling your own Nose Cone, there are challenges here that you won't find with other kits.

But the results??

You want to shock your friends? Do you want to give your RSO night terrors? Want to prove a point to your physics teacher? Get an A.C.M.E. Spitfire and do all of that in seconds! Then astound everyone, including yourself, when the A.C.M.E. Spitfire turns in one beautiful, straight flight time after time after time!

From the makers of the famous Deuce's Wild!, FlisKits brings you the A.C.M.E. Spitfire. (Fliskits 2012 Web Ad)

Editorial Notes:

Catalog Liveries

2005

2010 Spring

2012

Web Liveries

2003

2008

Face Card(s)

Instruction Header(s)

2005 Poster

Also of interest:

Decaffeinator (SP011)

MODEL NAME: **Decaffeinator** *Also known as*:

NUMBER: SP011

Introduced: 2005
Final Year:
Designer: Jim Flis

Type: Oddroc
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 69"
Diameter: 3.75"
Span: 11"
Weight: 6.1 oz

Mfg. Description: Foam cup rocket made almost entirely of foam coffee cups.
Build a rocket over 7 feet tall that weighs less than 5 ounces.
Easy assembly and great flights time after time! The largest C powered rocket ever made! (Fliskits 2005 Catalog)

The Decaffeinator is a first in the world of model rocketry. Not that this is the first foam cup rocket ever made. But it IS the first foam cup rocket KIT ever made!

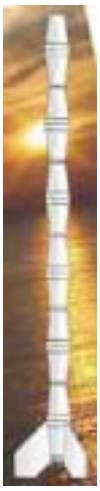
Foam cup rockets seem to be a product of the minds of rocketeers in the North East USA but their actual origins are not known. First seen by Jim Flis at a Pearl River MODroc conference, Jim has explored these beasts for many years trying new and different designs every time. They are fun to build and always get attention at the launch field. (Fliskits 2011 Web Ad)

Editorial Notes:

Catalog Liveries

2005

Web Liveries



2007

Face Card(s)

Instruction Header(s)

Other Printed Matter

2005 Poster

Also of interest:

Honest John (MX008)

MODEL NAME: **Honest John** *Also known as*:

NUMBER: MX008

Introduced: 2006
Final Year:
Designer: Jim Flis

Type: Scale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 4.46"
Diameter: 0.375"
Span: 1.72"
Weight:

Mfg. Description: The FlisKits Honest John 1:61 represents a first for FlisKits in that it is our first Scale Model. While not containing the kind of detail that you would find in a larger version of this model, the Micromaxx® Honest John is still a model you can be proud to build and fly!

This tiny representation of the famous Honest John missile features laser cut 1/16" thick basswood fins. These laser cut fins also feature a precise etched line to indicate the sanding line when feathering the edges to match that of the real missile. Also included with this exciting kit are silk screened decals providing the US ARMY decal (times 2) along with pitch/yaw markers and even decals representing the spin motors on the nose cone. Of course the die-hard scale modeler is welcome to try their hand at carving scale spin motors to attach to the nose cone!

Further, the nose cone, tiny as it is, is as close to true scale as we can make it, with the tail end of the cone a true conic shape. Many version of the Honest John model have errored in this respect, making the entire cone a curved profile.

As small as she is, she still performs incredibly well with Micromaxx® motors and can easily soar to 100 feet and beyond on MMXII motors. In addition to the fins and decals, the MTTM Honest John also features #16 Kevlar® shock line with a 1/2" X 8" red and silver mylar streamer for safe recovery and ease of tracking.

See how FlisKits has set new standards with reagard to the world of micromaxx! Discover for yourself the quality and performance that these small models and motors can really display. Forget everything you've heard about "plastic bricks" and poor performance. Not with these beauties! Ultra light weight, precision cut parts and the finest turned balsa nose cones in the industry, bar none! (Fliskits 2006 Web Ad)

Catalog Liveries

2010

Web Liveries

2008

2010

2011

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family, Fliskits Micro to the Maxx Family

Long OverDue (SP008)

MODEL NAME: **Long OverDue** *Also known as*:

NUMBER: SP008

Introduced: 2003
Final Year:
Designer: Jim Flis

Type: Sport, Tube Fin
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.14"
Diameter: 0.976"
Span: 4.25"
Weight: 1.97 oz

Mfg. Description: The Long OverDue is just that; Long Over Due!

With the introduction of our OverDue promotional program, the outcry for such a model to be available for purchase has grown to tremendous proportions during our first year of operation.

Our customers were intrigued by the shape and style of the unique nested tube fins and more than just a little excited at the prospect of getting an authentic OverDue for their collection.

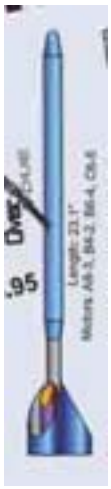
To satisfy this outcry, FlisKits introduces the Long OverDue. "Long" because it is quite a bit longer than the original OverDue kit. "OverDue" because it matches the style and configuration of the famous OverDue kit. And, "Long OverDue" because, well because this kit and this design is clearly long overdue for announcement as many of our customers will attest.

Show up at your next launch with a very unusual model rocket kit by FlisKits and amaze them with the arrow straight flights and perfect recovery! The Long OverDue is rather lightweight for its size so we recommend that you fly her first on the A8-3 motor then the B6-4 or B4-2 motor before going on to the C6-5 until you become familiar with just how high this model can climb on even a small motor.

The pictures below show the maiden flight of the Long OverDue at a recent CMASS launch, much to the delight of all present! (Fliskits 2012 Web Ad)

Editorial Notes:

Catalog Liveries



2010 Spring

Web Liveries

2003

2012

Face Card(s)

Instruction Header(s)

Also of interest: Fliskits OverDue Family, Tube Fin Family

Nell (SC003)

MODEL NAME: **Nell** *Also known as*: Nelle

NUMBER: SC003

Introduced: 2010
Final Year:
Designer: Robert Goddard, Jim Flis

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 50.5"
Diameter: 2.217"
Span: 6.7"
Weight: 3.8 oz

Mfg. Description: The most historically significant rocket ever flown! (Fliskits 2010 Catalog)

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"It has often proved true that the dream of yesterday is the hope of today, and the reality of tomorrow" From Robert Goddard's valedictorian speech in 1904

This scale model of the worlds first successful liquid fueled rocket was designed, built and flown by Robert H. Goddard on March 16th, 1926 in Auburn, MA. You are looking at a model of the most historically significant rocket ever flown!

From Goddard's diary the next day: “The first flight with a rocket using liquid propellants was made yesterday at Aunt Effie’s farm in Auburn. It looked almost magical as it rose... Some of the surprising things were the absence of smoke, the lack of a very loud roar, and smallness of the flame.”

We have seen rockets bring the communications revolution to the world. We now forecast weather with greater accuracy than ever before. We've seen the surface of Mars, the clouds of Jupiter and the moons of Neptune. We've landed man on the moon have have lived in space for months at a time!

All thanks to the vision of a man thought by many to be foolish if not downright crazy.

From Goddard’s diary from his teen years: "On the afternoon of October 19, 1899, I climbed a tall cherry tree and, armed with a saw which I still have, and a hatchet, started to trim the dead limbs from the cherry tree. It was one of the quiet, colorful afternoons of sheer beauty which we have in October in New England, and as I looked towards the fields at the east, I imagined how wonderful it would be to make some device which had even the possibility of ascending to Mars. I was a different boy when I descended the tree from when I ascended for existence at last seemed very purposive."

THAT was the spark. Read that entry again. You can almost hear the spark going off as he recounts that afternoon sitting in a cherry tree. It is the rare person who can recall the moment that spark strikes.

A moderately complex build, mainly because many of the steps are not common model rocket assembly steps, the Nell is not all that hard to assemble if you carefully read and follow the instructions.

One of two commemorative kits for NARCON 2010. FlisKits is proud to be able to bring this historic series to life in the form of these two kits (See the FlisKits L13). Further, a model of this kit

was assembled and finished by Tony Vincent for donation to the Mott Linn, curator of the Goddard Exhibit at Clark University in Worcester, MA. Before the donation, this model will be flown at the VERY SAME SITE where Goddard flew the original back in 1926. This is a historic occasion honoring a historic event and a monumental mind. Special thanks go out to Tony for his excellent work on this build! (Fliskits 2012 Web Ad)

Editorial Notes:

Catalog Liveries

2010

Web Liveries

012

Face Card(s)

Instruction Header(s)

Also of interest: (Goddard) Nell Sounding Rocket Family, Fliskits Robert H. Goddard Historic Seriies Marketing Family

Night Whisper (FR006)

MODEL NAME: **Night Whisper** *Also known as*:

NUMBER: FR006

Introduced: 2004
Final Year:
Designer: Jim Flis

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 36.9"
Diameter: 0.976"
Span: 10.575"
Weight: 2.4 oz

Mfg. Description: The Night Whisper represents over a year of development to bring you one of the most striking kits in model rocketry today!

Featuring silk-screened water-slide decals, the Night Whisper also sports a unique split tube with ducted ejection, distinctive ovoid fins with an inspiring slant and enough guns and antennae to satiate the most tried and true SciFi fan among us.

This model boosts straight and true on the B and C motors. Being a bit too heavy for A motors, we do not recommend that you use them. This is one of the most majestic models, in the air, that we have ever seen.

A great addition to your growing fleet of FlisKits model rocket kits and a wonderful introduction into what FlisKits kits are all about: Fun, Imagination, Excitement!

The United Solar Planetary Federation continues to expand its borders into the far reaches of the Milky Way galaxy. To satisfy the needs of this rapid growth, ships were needed to serve many functions. From troop deployment in areas of aggression to supplying remote outposts with supplies, equipment and personnel as well as new exploratory satellites
to reach even further.

The Night Whisper is just such a ship. Heavily armed with the latest in weapons technology along with the best in state of the art Hyper-TAC communications, the Night Whisper class Hauler is best suited for long range missions into unexplored regions of space. Primarily a research vessel and colony ship, the Night Whisper pushes the boundaries of explored space setting up remote outposts and eventual colonies, further expanding the human presence throughout the galaxy.

All officers aboard such vessels also carry full diplomatic credentials allowing them to secure treaties with foreign races that are encountered, inviting them to join our Planetary Federation. They are, of course free to decline but they would not then be able to take advantage of the resources of the thousands of already established members of our growing federation.

Constructed of the latest in stealth and cloaking technology and employing the swiftest in star-warp propulsion, the Night Whisper can quickly avoid unfriendly areas if detected but also has the ability to stand and fight when the situation warrants it.

Earning the respect of space fairing races throughout the explored galaxy, the Night Whisper is sure to make a fine addition to your fleet of model rocket kits. So, place your seat back and tray table in their upright and locked position and prepare to let your imagination take you to the farthest reaches of the universe!(Fliskits 2012 Web Ad)

Editorial Notes:

Catalog Liveries

2005

2010 Spring

2012

Web Liveries

2011

Face Card(s)

Instruction Header(s)

2005 Poster

Also of interest:

OverDue (OD001)

MODEL NAME: **OverDue** *Also known as*:

NUMBER: OD001

Introduced:
Final Year:
Designer: Jim Flis

Type: Sport, Tube Fin
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.37"
Diameter: 0.736"
Span: 4.01"
Weight: 1.12 oz.

Mfg. Description: Every so often something happens. A critical part isn't in stock, an order is misplaced or even something so uncontrollable as a power failure due to storms common in the North East.

These can be serious problems. Serious enough to cause potential delays in shipping your very important model rocket order.

But these are OUR problems, not yours. Just because we didn't order enough of a particular part; just because we got sloppy and can't find your order isn't YOUR problem.

If your order somehow gets delayed, we at FlisKits would feel terrible if it somehow became your problem.
Well, we'll be the first to admit that we can't make the missing part or order simply appear because we want it to, nor can we control the weather, but we need to do something for our most valued customers.

To that end, if ANY problem, issue, error or event should cause FlisKits to be unable to meet our ship commit of 2-4 weeks we will ship to you, free of charge, an OverDue model rocket kit for you to enjoy while we work feverishly to correct our problem.

No excuses, no half answers, no run around. You ordered a kit, you GET a kit. Well, at least you get a neat kit to build while waiting for the kit you ordered.

The OverDue model rocket kit is a unique approach to a popular concept; Tube Finned rockets. The OverDue has stylish canted tube fins that are nested. A small, angle cut tube nested inside a larger, angle cut tube make for a very interesting profile. With its simulated payload section, providing a nice large parachute compartment, unique fin design and stylish lines, the OverDue will make a most prized addition to your fleet and a very popular rocket at the launch field.

But, don't expect to see too many of these! If FlisKits has anything to do about it, you'll never see an Authentic OverDue at any launch! We'll be doing our best to make this the rarest model rocket kit ever produced! (Fliskits 2012 Web Ad)

Editorial Notes:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header(s)

Also of interest: Fliskits OverDue Family, Tube Fin Family

Giant Leap rocketry

HIGH POWER ROCKETRY MATERIALS

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http://giantleaprocketry.com/

About Giant Leap

When folks think of Giant Leap Rocketry the words "unique" or "innovative" come to mind.

See, any vendor can take a nosecone, a tube and some fins, throw the parts in a bag, and call it a "kit". But at Giant Leap Rocketry, we advance rocketry with new ideas and new concepts. For instance, our Mariah series rockets are far beyond anything in the hobby. We coined the term "shotgun recovery" method. We also invented the Fireball zipper stopper, the Slimline Motor Retainer in classic style, nozzle shape and as a tailcone. We introduced composite honeycomb fins to the hobby, and were one of the first to push the use of Kevlar chute protectors and cord protectors. We popularized the use of Kevlar cord as a shockcord when others were still using nylon cords. We convinced others about the dangers of using "elastic" shockcords and popularized the phrase "elastic cords belong in your underpants, not on your rocket." We also created Magna-frame and Dyna-wind, the industry standard in airframes. Our Pinnacle nosecones are the most advanced in the hobby. And who doesn't know about our Fin Canisters – a great way to attached fins without the hassle! Have you checked out the single most advanced chutes on the market – the TAC Parachutes? Check out our Groove-Lok fin attachment system and our Hardpoint Anchor. You get the point: At Giant Leap, expect the unexpected.

You'll also love our range of services. Need tubes cut or slotted? Want a cluster motor mount configuration, or some custom fins? We have a superb machine shop at your disposal.

(Company Web Statement 2012)

Master List for **Giant Leap** by Name

Talon 2
Talon 3
Talon 4
Talon 6

Talon 2

MODEL NAME: **Talon 2** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Kent Burnett

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 48"
Diameter: 2.1"
Span:
Weight: 30 oz

Mfg. Description: By Kent Burnett, the Original designer of the Talon series!!

The Talon 2 is the affordable, easy-to-fly version in this beautiful series. It's a stunning rocket that commands attention. The Talons have been rightfully called the Sexiest Kits Alive. This dazzling beauty will make heads spin!

This a high-end kit at a very low price. At Giant Leap, we don't scrimp on quality. Now think back, did your last kit have these features?

Features:

About 4 feet long!
6 fins are .062 high-temp G-10
Features a plastic nosecone and boattail that is pre-slotted for fins
Nylon shock cord
Kevlar™ shock cord sleeve protector
Kevlar™ chute protector
Acme rail guides
Preslotted phenolic airframe
30" chute
Large type bold vinyl decal
Detailed instructions
All hardware is included (Quiklinks and Eyebolts, etc.) (Giant Leap 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Giant Leap Talon Family

Talon 3

MODEL NAME: **Talon 3** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Kent Burnett

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 73"
Diameter: 3"
Span:
Weight: 4.5 lbs

Mfg. Description: By Kent Burnett, the Original designer of the Talon series!!

The Talon 3 is a beautiful rocket that commands attention. The Talons have been rightfully called the Sexiest Kits Alive. Over 6 feet long, this dazzling beauty will make heads spin!

At Giant Leap, we don't scrimp on quality. In fact this stunning kit even comes with a specially produced video to help you build it! This a a high-end kit at a moderate price. Now think back, did your last 3" kit have these features?

Features:

Dual Deployment! (or single if you prefer)
6 fins are .093 high-temp G-10
Pinnacle plastic nosecone
Boattail that is pre-slotted for fins
Machined to accept the included Slimline Motor Retainer
Avionics bay
Pre-sewn shock cords
Kevlar™ chute protectors & sleeves
Acme rail guides
Easyglas sock for phenolic airframe
Decal
Detailed instructions
Slimline Retainer.
All hardware included (Quiklinks, Eyebolts, Allthreads, etc.) (Giant Leap 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Giant Leap Talon Family

Talon 4

MODEL NAME: **Talon 4** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Kent Burnett

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 92"
Diameter: 3.9"
Span:
Weight: 6.75 lbs

Mfg. Description: By the Original designer of the Talon series!!

The incredible Talon 4 is a stylish rocket that commands attention. Called the Sexiest Kit Alive, with good reason. This kit is the best of the best. At Giant Leap, there are no half measures. In fact this gorgeous kit even comes with a specially produced video to help you build it! Nearly 8 feet long, this stunning beauty will make heads spin!

Now think back, did your last kit have these features?

Features:

Dual Deployment! (or single if you prefer)
Six fins are .093" high temperature G-10 for extra strength
Pinnacle plastic nosecone
Boattail that is pre-slotted for fins
Machined to accept the included Slimline Motor Retainer
Avionics bay
Pre-sewn shock cords
Kevlar chute protectors & sleeves
Acme rail guides
Easyglas sock for phenolic airframe
Decal
Detailed instructions
Slimline Retainer
Hardware included (Quiklinks, Eyebolts, Allthreads, etc.) (Giant Leap 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Giant Leap Talon Family

Talon 6

MODEL NAME: **Talon 6** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Kent Burnett

Type: Sport
Motor Mount: 1x75mm
Recovery: Parachute
Stages: 1
Length: 124"
Diameter:
Span:
Weight: 25 lbs

Mfg. Description: The Flagship of the TalonLine. Talon 6 is a high-end, limited production kit, from the original designers of the Talon.

Once in a while a kit line comes along that sets a new standard, like with the Talon series of rockets. The Talon 6 is the flagship of that series. It is absolutely uncompromising in quality and features. You won't find a higher quality, more complete kit anywhere. The Talon 6 is sophisticated in engineering and it's a dream to build. The Talon 6 is the top choice among Level-3 fliers because its drop-dead gorgeous and because it's engineered to the cutting edge of rocketry. We're serious about motor retention at Giant Leap and we're serious about instructions too.

CPU-Time

Any manufacturer can get a tube, a nosecone and some fins, and call it a "rocket". But at Giant Leap, we put serious thought into our products and our kits. In fact, we call it "CPU-time" - - a computer term that refers to the actual time spent by the main central processing unit (CPU) in processing a problem. It's that pure, undistracted, time when you think hard about something. The Talon 6 is the product of serious CPU-time. Indeed, the detailed instructions and photos are 34 pages long! Our goal was to make the best looking, best engineered kit in rocketry....period. So when you walk onto the field with the huge Talon 6 slung over your shoulder, everybody knows you have the best. The Talon 6 is loaded with features.

Advanced Features

Nosecone and tailcone are hand made with a smooth surface coat that requires very little seam line finishing on your part, made from epoxy based fiberglass, not polyester, the cheap stuff. Polyester is carcinogenic, stinks, and is structurally weaker than epoxy. When you purchase fiber-glass products, be sure they are epoxy. Speaking of epoxy, we use Aeropoxy, the leading resin in the homebuilt aircraft industry.

Fins are made of 1/4" composite honeycomb with glass sandwich. The fin edges are pre-finished.

All rings and bulkheads are made of 1/2" 9-ply birch.

Avionics Bay that is 21" long and features a mounting board that slides in and out on dado slots.

Shock Cords are tubular Kevlar™ and include the Fireball to resist zippering.

Recovery system also features our redundant anchoring system so that in the unlikely event that one attachment point fails, there's a back up anchor.

Attachment hardware is a combination of beefy U-bolts, quik-links, and Kevlar straps.

75mm threaded Slimline made from 6061 T6 aircraft grade aluminum.

Motortube is 75mm and is 48" long. We're serious about instructions too.

Instruction booklet is 34 pages long and has lots of step-by-step photos

High quality vinyl decal about 2 feet long, adds a final touch of beauty to this stunning bird.

Configuration

Our goal was to maximize the probability of a great flight and for a successful level-3 certification. So the Talon 6 uses electronic recovery, but is configured for single deployment. The upper section and booster separate at apogee and come down separately on their own chutes (sold separately). This avoids the complication of dual deployment, and reduces the chances of tangled lines and part-collision damage. Hey, big rockets are expensive and we want to be sure you get yours back safely.

Specifications

Length: 124" Diameter 6" I.D.

Dry Weight: 25 LBS (glass version approx.).

Loaded Weight: (motor, recovery, etc) 42 LBS approx

Motortube: 75mm X 48"

Fins: 3 upper fins, 3 lower fins finished edges. 1/4" composite material

Nosecone: 5-to-1 Ogive. Epoxy-based figerglass

Tailcone: Epoxy-based fiberglass, preslotted for lower fins

Recovery System: Booster: 1/2" Tubular Kevlar™ Upper Section: 1/4" tubular Kevlar with Custom Fireball

Bulkheads and Rings: 1/2" thick 9-ply Russian Birch

Motor Retention: 75mm Threaded Slimline

Delrin Rail Buttons: (attached through to bulkheads) fit most rails (heavy duty rail recommended).

(Giant Leap 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

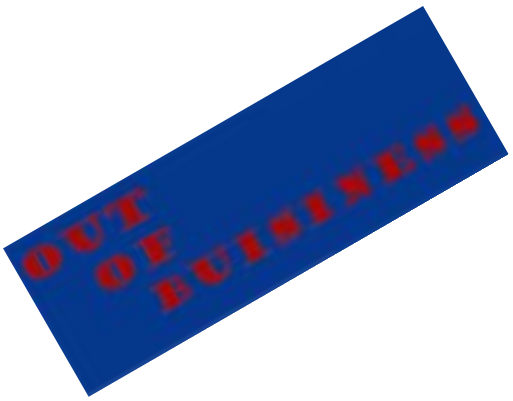
2012

Face Card(s)

Instruction Header

Also of interest: Giant Leap Talon Family

Hawks Hobby



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About Hawks Hobby

OK Sorry Guys ... You have been invaded. Hawks Hobby is owned by a Girl ... EEK!!! It's true I own it, however I like to think of it as a Family Businessas we all contribute something. That being said We (I) are dedicated To having FUN with both the business and website.

Hawks Hobby was born from Mark's love of Rockets and R/C Airplanes and from his huge collection of control line to quarter scale airplanes and I can only guess at the number of Rockets and Ariplane plans that he has. Of course I now have a nice collection of both myself.

Why Upscale Rockets? It has come from the Question "Wasn't that bigger back when??" So Hawks Hobby Is manufacturing what we hope will become a Extensive line of upscale rockets that you can enjoy Along the mid power line - mostly in the D & E power. Thus anwsering the question --------- Ya that looks better. Our goal at Hawks Hobby is to provide quality FAMILY Entertainment not in the form of TV, Video Games or computers, but in the form of Model Rockets and eventually Model Airplanes.

As much as possible we manufacture and sell our Own products , thus helping to keep production And advertizing cost to a minimum in the hopes of providing Quality kits at affordable cost.

Thanks You for visiting and I hope tha you enjoy And have FUN with our products.

L. Hawkins

(Company Web Statement 2008)

Master List for **Hawks Hobby** by Name

Super Sprite	HH-80

Master List for **Hawks Hobby** by *Number*

HH-80	Super Sprite

Super Sprite (HH-80)

MODEL NAME: **Super Sprite** *Also known as*:

NUMBER: HH-80

Introduced:
Final Year: 2008
Designer:

Out Of Production

Type: Sport, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Kit Contents:

1 body tube
1 nose cone
1 set of balsa fins
1 set of (3) centering rings
1 engine mount
1 phenlonic tube
1 parts pack
1 parachute - assembled
Decals & Instructions (Hawks Hobby 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest: Estes Sprite Family

Hostile Projectiles

http://sneillfx.com/page30

Master List for **Hostile Projectiles** by Name

V-2 Rocket

V-2 Rocket

MODEL NAME: V-2 Rocket *Also known as*:

NUMBER:

Introduced: 2010
Final Year:
Designer: Steve Neill

Type: Scale
Recovery: Parachute
Stages: 1
Length: 15.5"
Diameter:
Span:
Weight:

Mfg. Description: DESC

Catalog Liveries

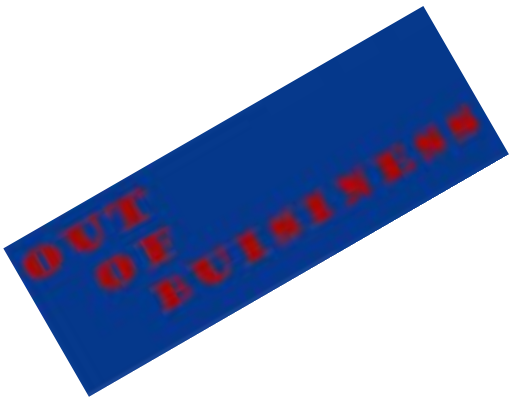
Web Liveries

2011

Face Card(s)

Also of interest: All V2 Familes

InFlight Rocketry



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Master List for **InFlight** by Name

Blue Bird Zero	IF-K207	*Estes Clone*
Nike Smoke	IF-K114	

Master List for **InFlight** by Number

IF-K-114	Nike Smoke	
IF-K207	*Blue Bird Zero*	*Estes Clone*

Blue Bird Zero (IF-K207)

MODEL NAME: Blue Bird Zero *Also known as*:

NUMBER: IF-K207

Introduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 41"
Diameter: 1.325"
Span:
Weight: 2.7 oz

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Estes Blue Bird Zero Family

Nike Smoke (IF-K114)

MODEL NAME: **Nike Smoke** *Also known as*:

NUMBER: IF-K114

Introduced: 2008
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 22.62"
Diameter: 1.64"
Span:
Weight: 2.8 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Nike Smoke Sounding Rocket Family

K & S Rockets (K&S)

K and S Rockets

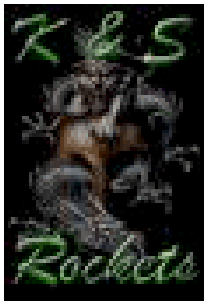
2740 Camp Drive

Hooversville, PA 15936

814-270-1700

kandsrockets@hughes.net

http://www.kandsrockets.com



About K&S

Welcome to K and S Rockets. We offer Parachutes, Recovery Harnesses, Centering rings, Bulkheads, Fire Protection, Ground Support, Kits and more. Take a look around and see what we have to offer.

(Company Web Statement 2011)

Master List for **K&S** by Name

Blue Bird Zero (1.64”)
Satellite Interceptor (Upscale)

Blue Bird Zero (1.64”)

MODEL NAME: Blue Bird Zero (1.64” *Also known as*:

NUMBER:

Introduced: 2010
Final Year:
Designer:

Type: Sport, Upscale
Motor Mount: 1x38mm
Recovery: Dual Deploy Parachute
Stages: 1
Length: 81"
Diameter: 2.64"
Span:
Weight: 58 oz

Mfg. Description: 1.64" dia Blue Bird Zero Dual deployment (K&S 2011 Web Ad)

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Estes Blue Bird Zero

1158

(Upscale) Satellite Interceptor

MODEL NAME: Upscale Satellite Interceptor *Also known as*:

NUMBER:

Introduced: 2010
Final Year:
Designer:

Type: Exotic, Upscale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Estes Satellite Interceptor Family

The Launch Pad (TLP)

The Launch Pad

25984 SW Rucks Dairy Road

Okeechobee, Florida

34974

vamidpowr@aol.com

http://www.the-launch-pad.com/

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Master List for **TLP** by Name

Bullpup AGM-12B	K005
Bullpup AGM-12C	K006
Hawk MIM-23A (1.6”)	K039
Nike Ajax MIM-3A	K060
Scimitar	K027
Sidewinder AIM-9L	K030

Master List for **TLP** by Number

K005	Bullpup AGM-12B
K006	Bullpup AGM-12C
K027	Scimitar
K030	Sidewinder AIM-9L
K039	Hawk MIM-23A (1.6”)
K060	Nike Ajax MIM-3A

Bullpup AGM-12B (K005)

MODEL NAME: Bullpup AGM-12B *Also known as*:

NUMBER: K005

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 27.25"
Diameter: 2.6"
Span:
Weight:

Mfg. Description: BULLPUP AGM-12B AIR-to-GROUND MISSILE (USA)

This missile, like the Bullpup AGM-12C on the next page, was part of a series of missiles designed to soften up hardened ground emplacements, bunkers, and underground fortifications prior to sending in ground troops. First used by the U.S. Air Force, Navy and Marine Corps, it was later adopted by the Royal Navy as standard strike armament on the Buccaneer aircraft. The AGM-12B used high explosives, although a similar, later version, the AGM-12D, had nuclear capabilities. Used by the U.K., Denmark, Norway and Turkey, this is a prime candidate for the International Collection.

This one uses "D12" series through AeroTech "F24" series motors for liftoff, and a soft landing is ensured by its 18" diameter Mylar parachute. Even the steering fin pivots near the nose are simulated to give that extra touch of realism. It’s a lightweight, highly detailed model in 1/4.62 scale, with exceptional takeoffs and smooth performance, flight after flight. Our test model has been flown more than twenty-eight times and after only minor cosmetic repairs is still going strong! The Launch Pad’s kit version of this famous missile is easy to build, and is an attractive, detailed rocket, either in the air, or on display. Minor internal modifications for additional stability now enable the 2005 version of this kit to use the larger "F" motors. (TLP 2011 Web Ad)

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest:

Bullpup AGM-12C (K006)

MODEL NAME: **Bullpup AGM-12C** *Also known as*:

NUMBER: K006

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 33.25"
Diameter: 3.75"
Span:
Weight:

Mfg. Description: BULLPUP AGM-12C AIR-to-GROUND MISSILE (USA)

The largest of the Bullpup series of missiles, the AGM-12C is also the oddest-looking member. Distinguished from the other Bullpup versions by its unusual long-chord wings, this missile was tracked visually to the target by the launching pilot with the aid of two high-intensity flares in the tail. Aiming was manual, by means of a radio command joystick in the attacking aircraft. It carried 1,000 lbs. of high explosives in the enlarged midsection. Foreign users included the Royal Navy and various NATO forces. Some Bullpups are still in service, usually in ground attack training programs.

By popular request, this former Plan-Pak rocket is now available in kit form! In 1998, we refined this missile design completely to give you a museum-quality kit in accurate 1/4.62 scale, making it a perfect display companion for our Bullpup AGM-12B on the previous page. Composite "E" or "F" motors give spectacular performance, flight after flight. (Black powder "D" motors are not recommended for this kit.) (TLP 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest:

Hawk MIM-23A 1.6” (K039)

MODEL NAME: **Hawk MIM-23A 1.6”** *Also known as*:

NUMBER: K039

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 22 9/16"
Diameter: 1.6"
Span:
Weight:

Mfg. Description: HAWK MIM-23A (1.6" Dia.) SURFACE-to-AIR MISSILE (USA)

A miniature version of our popular 2.6" diameter HAWK, this scaled down model of the original HAWK missile will fly on black powder "D" motors, or composite fuel "E" motors. During testing we also flew it (once) successfully on an Aerotech "F24" reloadable, but our first test model vanished from sight (straight up) and we never saw it again. While building another test model, we decided that this was far too expensive in terms of lost reload casings, so the use of "F’s", while possible, is not recommended.

Recovery is by a brightly colored 18" octagonal Mylar parachute. A 3/16" diameter launch rod is required for all TLP rocket kits. The TLP HAWK (1.6" Dia.) is a finely detailed model of this classic missile, in 1/8.75 scale. (TLP 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: MIM-23 Hawk Ordnance Family

Nike Ajax MIM-3A (K060)

MODEL NAME: **Nike Ajax MIM-3A** *Also known as*:

NUMBER: K060

Introduced:
Final Year:
Designer:

Type: Scale, Cluster
Motor Mount: 3x24mm
Recovery: Parachute
Stages: 1
Length: 55.5"
Diameter: 2.6"
Span:
Weight:

Mfg. Description: In 1953, Nike Ajax was the first guided SAM system in the world to enter operational service. The guidance hardware was derived directly from that used to aim radar-controlled anti-aircraft artillery guns towards the end of WWII. The system used two separate radars; one to track the target and another to track the missile. A computer intersected the two beams at a predicted future point and, when the missile was just below the nose of the target, a pulsed code was sent to explode the fragmentation warheads. Nike Ajax contained not one, but three warheads, weighing 12, 179, and 122 pounds, respectively. Burnout speed was Mach 2.3, well above that of any attack aircraft of the time. It had a range of 25 miles. Although ambitious for its day, it was quickly outdated, and was soon replaced by Nike Hercules.

This is the first kit The Launch Pad has offered using a three motor (24mm) cluster. It stands 55.5" tall (1/7.5 scale), and is recovered by two 18"x30" parachutes. Despite its size, this rocket can still be fired from a three foot long, 3/16" diameter launch rod. Calm winds and a 12 volt launch system for clustered ignition are recommended. (TLP 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Nike Ajax Ordnance Family

Scimitar (K027)

MODEL NAME: **Scimitar** *Also known as*:

NUMBER: K027

Introduced:
Final Year:
Designer:

Type: Pseudo Ordnance, Cluster
Motor Mount: 2x24mm
Recovery: Parachute
Stages: 1
Length: 39.25"
Diameter: 2.6"
Span:
Weight:

Mfg. Description: LAUNCH PAD Original!

SCIMITAR LONG-RANGE SURFACE-TO-AIR MISSILE (THE LAUNCH PAD)

Here's another chance for the advanced modeler to demonstrate his or her skills. The SCIMITAR was introduced in 1993, and quickly became one of our most popular Plan-Paks. It's hurled into the air by a cluster of three "D" motors in the booster stage, then a fourth electrically ignited "D" motor in the upper stage takes it to altitudes that have to be seen to be believed. Both the booster and the upper stage return under large 18" diameter parachutes. Military cruise missile styling features four simulated air intakes for the upper stage "turbojet" propulsion system. Requires some easy wiring work, but everything is shown in clear step-by-step detail in the Plan-Pak.

ATTENTION!: Now we've taken this favorite Plan-Pak rocket and modified it to be flown as a single-stage KIT! When launched, it looks the same as our famous two-stage Plan-Pak version, but is much simpler internally. The complete kit version of the SCIMITAR flies on a pair of "D" motors, or, if you have experience in igniting clustered composite fuel motors, a pair of 24mm AeroTech "E15" motors may be used. Returns safely with a single 18" diameter octagonal Mylar parachute. This is one beautiful rocket! Why not build both versions? (TLP 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

Sidewinder AIM-9L (K030)

MODEL NAME: **Sidewinder AIM-9L** *Also known as*:

NUMBER: K030

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 36"
Diameter: 1.6"
Span:
Weight:

Mfg. Description: **SIDEWINDER AIM-9L AIR-TO-AIR MISSILE (USA)**

The Sidewinder has had a long and very successful career with the U.S. military. Earlier versions were used in Vietnam. It has seen action against Libyan fighters, and again in Iraq. It has been manufactured in both infrared and radar-guided modes, and it has been adopted by many countries in NATO as one of their premiere air-defense weapons. This missile is so popular with other nations that countries from the Soviet Union to South Africa have come up with their own copies of the design.

Long, lean and mean! The Launch Pad's designs for the AIM-9L Sidewinder result in a tall scale model 36.0" long! Redesigned in 1994, our latest Plan-Pak version (now discontinued) included details as fine as the bands and clamps on the missile's body, but now all of this detail is available to you in KIT form! This missile replica is accurate right down to the little air-driven gyros (rollerons) at the ends of the fins. American-made, but definitely a candidate for the International Collection. Uses powerful "D" motors and an 18" diameter parachute for safe returns. Don't settle for other manufacturer's imitations: Go with the military specialists! The Launch Pad! (TLP 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

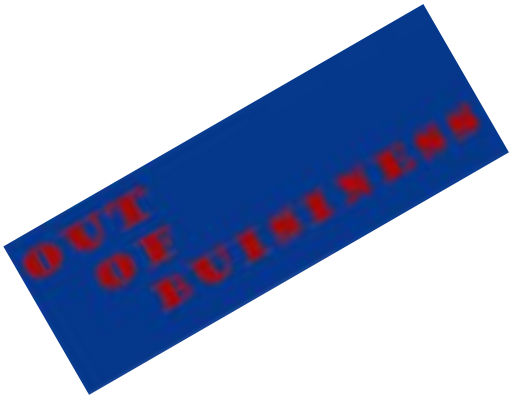
2012

Face Card(s)

Instruction Header

Also of interest: Sidewinder Ordnance Family

LawnDart Rocketry



About LawnDart

Let me introduce the staff. That's me, Dale Windsor, owner, proprieter, and floor sweeper of this fine establishment. It's been quite awhile since I flew my first rocket. But I remember it like it was yesterday. 1967, there I was sitting on the floor of the living room reading the new Fantastic Four (or was it Daredevil?) that I had just picked up down at Spring Valley Drugs. Near the back of the comic was the usual ads - x-ray specs, atomic smoke bombs and tanks (made out of a special corrugated material). But something new caught my eye - Real Flying Model Rockets!!!! After some pleading (and an exchange of paper route money), my dad wrote out the check that started me on the long road to rocketry addiction. A few weeks later, a box arrived at the door for me. Inside, a pair of tumble recovery rockets, a couple of motors with red waxy wicks (that you lit with a match), and a launch rod.

Now, a few years later, I have a part-time rocket company of my own, manufacturing some very cool stuff (at least I like to think so). In the real world I'm a middle-aged (ooh, that hurts to write) college student working on an education degree so I can teach middle school science. A real break from 20+ years in the computer-aided publishing world.

I'm also past section advisor for Southern Area Rocketry (current president); past prefect of Tripoli Atlanta; original Contest Director for the Mick Wilkins Memorial Sport Scale Meet; Founder of the Southern Meet; and Level 3 certified.

LawnDart Rocketry is dedicated to providing the model rocket hobbyist with fun, interesting kits to build and fly. We will endeavor to bring out new kits as time and resources allow. And we will make available selected kits from other small manufacturers.

LawnDart Rocketry also believes in sharing resources. So we share our masking tape and recovery wadding at launches, spend time with new and potentially new flyers, answer questions, check out rockets, and even lend/give away rockets and motors to newbies.

LawnDart Rocketry donates 10% of our profits to Compassion International, Feed the Children and Habitat for Humanity.

(Company Web Statement 2011)

Master List for **LawnDart** by Name

Piggyback Shuttle	#2

Master List for **LawnDart** by *Number*

#2	Piggyback Shuttle

Piggyback Shuttle (#2)

MODEL NAME: **Piggyback Shuttle** *Also known as*:

NUMBER: #2

Introduced:
Final Year:
Designer: Wayne Kellner

Type: Exotic, Boost Glider, Clone
Motor Mount: 1x18mm
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description: An early concept for the US space shuttle. The carrier returns via parachute while the piggyback vehicle glides safely back to earth. Features mylar parachute, kevlar shock cord and parachute protector. (Lawndart 2003 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Orbital Transport Family

Leading Edge Rocketry

Leading Edge Rocketry

84777 Charlottes Way

Eugene, OR 97405

Tel: 541.687.4899

Fax: 541.687.1438

info@leadingedgerocketry.com

http://www.leadingedgerocketry.com/

About Leading Edge

Leading Edge Rocketry is the Pacific Northwest's premier manufacturer of model rocket kits, micro rocket kits, rocket electronics and launch pad/controllers. Known for their specialty Night Flight kits, Leading Edge creates excitement among modelers by bringing today's technology and manufacturing process to the forefront while getting back to the basics of emphasizing more on design and skill building and less on mass production.

(Company Web Statement 2011)

Master List for **Leading Edge** by Name

Micro Goblin	LE-05	*Micro Classics*
Micro Max	LE-07	*Micro Classics*

Master List for **Leading Edge** by *Number*

LE-05	Micro Goblin	*Micro Classics*
LE-07	Micro Max	*Micro Classics*

Micro Goblin(LE-05)

MODEL NAME: **Micro Goblin** *Also known as*:

NUMBER: LE-05

Introduced:
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 4.85"
Diameter: 0.448"
Span:
Weight: 2.5 grams

Mfg. Description: As with all of our Micro Classics, these kits feature precision laser cut basswood fins, hard fiber centering rings, white kraft body tubes with a glassine outer wrap and machined balsawood nose cone. The Micro Goblin is a great flyer with all the style and flight characteristics of a larger model but with the added benefits that come from a Micro Maxxâ„¢ powered rocket, smaller launch site, lower cost per flight and lower altitude which means you may be able to fly your Micro Classics on days that the weather won't permit larger flights. All you will need in addition to your regular ground support and lunch supplies is a smaller launch rod like our GS-0001 Launch rod and adapter. We also offer complete Micro Classics launch sets. Click here for more information. The Micro Goblin is rated Skill Level Three. We recommend that the builder have some previous model rocket experience due to the smaller parts of a Micro Classics. (Leading Edge 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

1182

Face Card(s)

Instruction Header:

Also of interest: Estes Goblin Family, Leading Edge Micro Classics Family

Micro Max (LE-07)

MODEL NAME: **Micro Max** *Also known as*:

NUMBER: LE-07

Introduced:
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 5.05"
Diameter: 0.448"
Span:
Weight: 2.0 grams

Mfg. Description: As with all of our Micro Classics, these kits feature precision laser cut basswood fins, hard fiber centering rings, white kraft body tubes with a glassine outer wrap and machined balsawood nose cone. The Micro Max is a great flyer with all the style and flight characteristics of a larger model but with the added benefits that come from a Micro Maxxâ„¢ powered rocket, smaller launch site, lower cost per flight and lower altitude which means you may be able to fly your Micro Classicsâ„¢ on days that the weather wonâ€™t permit larger flights. All you will need in addition to your regular ground support and lunch supplies is a smaller launch rod like our GS-0001 Launch rod and adapter. We also offer complete Micro Classicsâ„¢ launch sets. Click here for more information. The Micro Max is rated Skill Level Three. We recommend that the builder have some previous model rocket experience due to the smaller parts of a Micro Classicsâ„¢. (Leading Edge 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: Estes Der Red Max Family

LOC/Precision (LOC)

LOC Precision
TEL: (330) 745-9755
FAX: (330) 745-9754
P.O. Box 470396
Broadview Heights, OH 44147
locprecision@sbcglobal.net

https://locprecision.com/

Master List for **LOC** by Name

Big Nuke	PK-82
Big Nuke 3E	PK-82-3E
Big Nuke Mini	#0174
Bruiser	PK-88
Bruiser EXP	PK-96
Cyclotron	PK-47
EZI-65	PK-64
EZI-65 Mini	#0175
Hi-Tech	PK-56
Lil’ Nuke	PK-4
LOC-IV	PK-48
Nuke Pro Max	PK-5
Onyx	PK-12
Stovi	PK-40
V2 (3.9”)	PK-57
V2 (7.5”)	PK-100
Warlock	PK-80

Master List for **LOC** by *Number*

#0174	Big Nuke Mini
#0175	EZI-65 Mini
PK-4	Lil’ Nuke
PK-5	Nuke Pro Max
PK-12	Onyx
PK-40	Stovi
PK-47	Cyclotron
PK-48	LOC-IV
PK-56	Hi-Tech
PK-57	V2 (3.9”)
PK-64	EZI-65
PK-80	Warlock
PK-82	Big Nuke
PK-82-3E	Big Nuke 3E
PK-88	Bruiser
PK-96	Bruiser EXP
PK-100	V2 (7.5”)

Big Nuke (PK-82)

MODEL NAME: **Big Nuke** *Also known as*:

NUMBER: PK-82

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 72"
Diameter: 5.54"
Span:
Weight: 102 oz

Mfg. Description: One of the ADVANCED SERIES of kits, which include factory pre-slotted airframe and through-the-wall fin construction, the Big Nuke is our large scale version of the perennial favorite Lil Nuke. This kit comes standard with a 54mm motor mount tube but can fly well on large H, I and J motors as well using optional MMA-3 and MMA-4 adapters. We upgraded the shock cord to 25' of 9/16" tubular nylon and added a CEC-2 chain connector to the SCMBA-25 shock cord mount for heavy duty flying. Parachute Recovery.

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: LOC Nuke Family, LOC Advanced Series Marketing Family

Big Nuke 3E (PK-82-3E)

MODEL NAME: **Big Nuke 3E** *Also known as*:

NUMBER: PK-82-3E

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x75mm
Recovery: Parachute
Stages: 1
Length: 80"
Diameter: 5.54"
Span:
Weight: 8 lbs

Mfg. Description: One of the ISP PERFORMANCE SERIES of kits, which feature factory pre-slotted airframe and through-the-wall fin construction and high power motor capabilities, the Big Nuke-3E is the perfect upgrade to our hot selling Big Nuke kit. This version trades the 54mm motor mount for raw 75mm motor power. We included our popular EB-5.38 electronics bay, and additional Tubular Nylon shock cord and an 18" drogue parachute. We also upgraded the elastic shock cord to 25' of 9/16" tubular nylon and added a CEC-3 chain connectors to the SCMBA-375 shock cord mount for heavy duty flying. This rocket is for the serious high power flyer! Parachute Recovery.

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Also of interest: LOC Nuke Family, LOC ISP Performance Series Family

Big Nuke Mini (#0174)

MODEL NAME: **Big Nuke Mini** *Also known as*:

NUMBER: #0174

Introduced:
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13.1"
Diameter: 1"
Span:
Weight: 1.3 oz

Mfg. Description: Miniature version of the famous BIG NUKE rocket kit. For use with A,B,C motors (not included). 5.5:1 Sport Scale, New Heavy Duty LOC Airframe in 1" Diameter, Laser Cut Balsa Fins, Excellent Decals, Mylar Parachute Recovery (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: LOC Nuke Family, LOC Mini Missile Family

Bruiser (PK-88)

MODEL NAME: **Bruiser** *Also known as*:

NUMBER: {K-88

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 81"
Diameter: 7.765"
Span:
Weight:

Mfg. Description: One of the ADVANCED SERIES of kits, which include factory pre-slotted airframe and through-the-wall fin construction, the BRUISER is one of our largest production kits. It includes a 54mm motor mount and introduces LOC's own "TWT" Tube Within a Tube fin attachment concept keeping the overall weight to a minimum, This kit is the perfect fat Level 1 and Level 2 kit and a nice large addition to your fleet . You can fly it on an I284 for your Level 1, take the test and fly it on a J257 for your level 2 in the same day. (38mm motors require an optional MMA-4 adapter). Parachute Recovery. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: LOC Bruiser Family, LOC Advanced Series Marketing Family

Bruiser EXP (PK-96)

MODEL NAME: Bruiser EXP *Also known as*:

NUMBER: PK-96

Introduced:
Final Year:
Designer:

Type: Sport, Cluster
Motor Mount: 1x54mm + 2x38mm
Recovery: Parachute
Stages: 1
Length: 112"
Diameter: 7.765"
Span:
Weight:

Mfg. Description: One of the ADVANCED SERIES of kits, which include factory pre-slotted airframe and through-the-wall fin construction, the BRUISER-EXP is our largest production kit. It uses a central 54mm motor mount tube and 2 38mm motor mount tubes for clustering and air starts BRUISER-EXP incorporates LOC's own "TWT" Tube Within a Tube fin attachment concept keeping the overall weight to a minimum, This kit is intended for advanced Level 2 flyers and makes a huge addition to your fleet . You can fly it on an J415 with or without 2 J350s or go for the K-L motor center. I have seen it fly on a single J570 in a small field - I prefer the K1100 in mine. Skyangle Cert-3 Large Parachute Recovery. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: LOC Bruiser Family, LOC Advanced Series Marketing Family

Cyclotron (PK-47)

MODEL NAME: **Cyclotron** *Also known as*:

NUMBER: PK-47

Introduced:
Final Year:
Designer:

Type: Sport, Tubefin, Payload
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 57"
Diameter: 3.1"
Span:
Weight: 35 oz

Mfg. Description: The CYCLOTRON gives the stable tube fin design a new dimension with the addition of LOC's exclusive airframe reducer and a payload section. Built to fly on F50 and G80 composite motors, we have increased the motor mount to 38mm to accommodate motors through I (we have reports of folks flying on J570 though we don't recommend it ourselves.) The CYCLO-TRON is a very stable motor eater!

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2007

Face Card(s)

Also of interest: Tubefin Family

EZI-65 (PK-64)

MODEL NAME: **EZI-65** *Also known as*:

NUMBER: PK-64

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 57.75"
Diameter: 4"
Span:
Weight:

Mfg. Description: One of the ISP PERFORMANCE SERIES of kits, which feature factory pre-slotted airframe and through-the-wall fin construction and high power motor capabilities, the EZI-65 is a light weight, high power performer. The 54mm motor mount is great for Level 1 motors. Designed for the Aerotech I-65 motor when it first came out, this kit will also fly on the Aerotech J-90 motor for a cool Level 2 attempt - try one out if your field can handle it. It is a very cool flight! (and sometimes a long walk) This kit flies great on a variety of G , H and I motors using the optional MMA-3 (for 29mm motors) or MMA-4 (for 38mm motors) motor mount adapter. Parachute Recovery.

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Also of interest: LOC EZI-65 Family, LOC ISP Performance Serires Marketing Family

EZI-65 Mini (#0175)

MODEL NAME: **EZI-65 Mini** *Also known as*:

NUMBER: #0175

Introduced:
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.4"
Diameter: 1"
Span:
Weight:

Mfg. Description: Miniature version of the famous EZI-65 rocket kit. For use with A,B,C motors (not included). 4:1 Sport Scale, New Heavy Duty LOC Airframe in 1" Diameter, Laser Cut Balsa Fins, Excellent Decals, Mylar Parachute Recovery (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: LOC EZI-65 Family, LOC Mini Missile Marketing Family

Hi-Tech (PK-56)

MODEL NAME: **Hi-Tech** *Also known as*: Hi-Tech H45

NUMBER: PK-56

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 49.75"
Diameter: 2.63"
Span:
Weight:

Mfg. Description: One of the ISP PERFORMANCE SERIES of kits, which feature factory pre-slotted airframe and through-the-wall fin construction and high power motor capabilities, the HI-TECH H45 is a light weight, high power performer. The 38mm motor mount is great for Level 1 motors if your field can handle it. This kit smaller version of the EZI-65 flies great on a variety of F and G motors using the optional MMA-2 motor mount adapter. Parachute Recovery.

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Also of interest: LOC EZI-65 Family, LOC ISP Performance Series Marketing Family

Lil’ Nuke (PK-4)

MODEL NAME: **Lil’ Nuke** *Also known as*:

NUMBER: PK-4

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 29.5"
Diameter: 2.26"
Span:
Weight: 13 oz

Mfg. Description: One of the original NOVICE KIT SERIES which include pre-marked airframe and 29mm motor mounts, the LIL' NUKE is and all around classic performer with sharp styling. It can be flown on an Estes D12-3 motor with an optional MMA-1 Adapter but goes out of sight on Aerotech 29mm Composite Motors! Parachute Recovery.

All LOC/PRECSION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Also of interest: LOC Nuke Family, LOC Novice Kit Series Marketing Family

LOC-IV (PK-48)

MODEL NAME: **LOC-IV** *Also known as*:

NUMBER: PK-48

Introduced: 1985
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm (Originally 1x29mm)
Recovery: Parachute
Stages: 1
Length: 47.5"
Diameter: 4"
Span:
Weight: 29 oz

Mfg. Description: One of the ADVANCED SERIES of kits, which include factory pre-slotted airframe and through-the-wall fin construction, the LOC IV has been the best selling kit in our history (perhaps all of high power history as well) Recently upgraded to 38mm motor mount and to-the-motor mount construction, this kit is the perfect Level 1 kit . You can even park fly it well on F and G motors with the optional MMA-2 motor adapter. Parachute Recovery.

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note: This kit was originally PK-3 and featured a 29mm motor mount.

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: LOC Advanced Series Marketing Family

Nuke Pro Max (PK-5)

MODEL NAME: **Nuke Pro Max** *Also known as*:

NUMBER: PK-5

Introduced:
Final Year:
Designer:

Type: Sport, Payload
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 39.5"
Diameter: 2.26"
Span:
Weight: 16 oz

Mfg. Description: One of the ADVANCED SERIES of kits, which include factory pre-slotted airframe and through-the-wall fin construction, the NUKE PRO MAX is a real screamer! This kit was designed to handle the Ceseroni Pro 38 line of motors - all of them! Yep, G-J power if you can handle the waiver. You can even park fly it a well on F and G motors with the optional MMA-2 motor adapter. Parachute Recovery.

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: LOC Nuke Family, LOC Advanced Series Marketing Family

Onyx (PK-12)

MODEL NAME: **Onyx** *Also known as*:

NUMBER: PK-12

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 25.25"
Diameter: 3.1"
Span:
Weight: 13oz

Mfg. Description:
One of the original Novice Series kits the Onyx has a large diameter and stout appearance which makes this bird a natural for sport flying. A single G motor can propel this vehicle to 1800 ft. All LOC/PRECSION PK series kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2007

Face Card(s)

Also of interest: LOC Novice Series Marketing Family

Stovi (PK-40)

MODEL NAME: **Stovi** *Also known as*:

NUMBER: PK-40

Introduced:
Final Year:
Designer:

Type: Sport, Cluster
Motor Mount: 7x24mm or 1x29mm + 6x24mm
Recovery: Parachute
Stages: 1
Length: 44.5"
Diameter:
Span:
Weight: 22oz

Mfg. Description: The STOVE is a unique 7 x 24mm motor cluster whose fins attach into the valleys of the motor mount tube cluster which extends beyond the main airframe. This innovative design rocket can attain altitudes over 1000' using a single 24mm G42 motor - Six fins mount between the six "booster tanks" making it a visually appealing rocket. Parachute Recovery!

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Also of interest:

3.9” V-2 (PK-57)

MODEL NAME: 3.9” V-2 *Also known as*:

NUMBER: PK-57

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: One of the ADVANCED SERIES of kits, which include factory pre-slotted airframe and through-the-wall fin construction, the 3.9 V2 is our sport scale version of the infamous WWII German V2 rocket. This boat tail kit comes standard with a 38mm motor mount but flies great on F50 and G motors using an optional MMA-2 adapter. The 3.9 V2 is a great performer on a variety of motor packages through Level 1 - For Level 2 motors and large Level 1 motors change the launch lugs to rail buttons to eliminate "rod whip" due to its short height and wide motor mount location. Parachute Recovery.

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2011 Web Ad)

Catalog Liveries

2010

Web Liveries

2011

Face Card(s)

Also of interest: V2 Ordnance Family, V2 Launch Vehicle Family

7.5” V-2 (PK-100)

MODEL NAME: **7.5” V2** *Also known as*:

NUMBER: PK-100

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 7.51"
Span:
Weight:

Mfg. Description: Loc V-2 is our first sport scale kit. It's designed around LOC's BT-7.51 to obtain a practical 8.47:1 scale. Because of its size and low weight, the V2 can take to the sky on minimum power 800Ns (J450) re loadable motor. I like to fly mine on K500-M. All LOC/ PRECSION PK series kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, tubular nylon shock cord , launch lug, polypropylene nose cones and instructions.. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: V2 Ordnance Family, V2 Launch Vehicle Family

Warlock (PK-80)

MODEL NAME: **Warlock** *Also known as*:

NUMBER: PK-80

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 52"
Diameter: 7.765"
Span:
Weight: 100 oz

Mfg. Description: One of the ISP PERFORMANCE SERIES of kits, which feature factory pre-slotted airframe and through-the-wall fin construction and high power motor capabilities, the WAR-LOCK is the perfect short fat kit to make your Level 1 and Level 2 certification flight with on a small field. Now with LOC-N-FIN technology for easy building, the WARLOCK is a light weight large diameter kit with presence. This rocket should be in every collection! Parachute Recovery.

All LOC/PRECISION "PK-XX" kits include heavy duty airframe and motor mount tubes, high-grade precision-cut plywood fins, centering rings, rip-stop nylon parachute or streamer, nylon elastic shock cord and mount, launch lug, polypropolene nose cones and instructions. (LOC 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header

Madcow Rocketry

Madcow Rocketry

24338 El Toro Rd #E-134

Laguna Woods, CA 92637

949.547.8847

http://www.madcowrocketry.com/

About Madcow Rocketry

At Madcow Rocketry, our goal is to offer you a craftsman quality kit that is truly enjoyable to build. Our kits come complete with everything you need to build and fly your model except the glue and paint (and a motor of course). Grab some 5 minute epoxy and these kits can literally be built and flown at your flying field the same day!

The recovery system leaves nothing more to buy here. All of our kits come complete with a long lasting Rip-Stop Nylon Chute, a Flame-Proof Parachute Blast Protector and Kevlar (2.6" and smaller) or Tubular Nylon (4" and larger) shock cord.

Our Flame-Proof Parachute Blast Protectors means your parachute is safe and sound and no more cleaning up all that pesky chute wadding after each flight.

Of course, for those of us that really like the convenience and durability of a plastic cone, our Pro-Series kits are just right. These kits feature plastic nose cones with a self threading neck - just right for a 1/4-20 eye bolt.

Our high quality kits start with precision laser cut plywood fins and centering rings. Our fins and rings consistantly fit nice and snug. This keeps your build sessions fun and free of frustration.

Our Craftsman Series Kits feature custom balsa nose cones and tail cones. We believe in this day of plastics, some of us still love the feel of old fashioned balsa wood.

We've made Thru-The-Wall fins a snap with our pre-slotted body tubes.

No more cutting out body tube wrappers to pencil cutting lines on the body tube. No more slipped knife blade marks spiraling away from the fin slots. Just a nice clean pre-cut slot for your fins.

All of this makes for a complete kit that is easy to build and fun to fly.

Take your next step into high power rocketry with us.

We believe you won't be disappointed.

(Company Web Statement 2011)

Master List for **Madcow** by Name

Army Hawk MIM-23A	K-106
Arcas HV (FG)	K-144
Black Brant II (2.6”)	K-156
Bomarc Rocket	K-119
Cricket	K-141
Honest John (2.6”)	K-115
Jay Hawk AQM-37A	K-109
Little John (2.6”)	K-101
Little John Rocket (4”) (FG)	K-157
Mozzie	K-112
Phoenix Rocket	K-136

Master List for **Madcow** by Number

K-101	Little John (2.6”)
K-106	Army Hawk MIM-23A
K-109	Jay Hawk AQM-37A
K-112	Mozzie
K-115	Honest John (2.6”)
K-119	Bomarc Rocket
K-136	Phoenix Rocket
K-141	Cricket
K-144	Arcas HV
K-156	Black Brant II (2.6”)
K-157	Little John Rocket (4”) (FG)

Army Hawk MIM-23A (K-106)

MODEL NAME: **Army Hawk MIM-23A Rocket** *Also known as*:

NUMBER: K-106

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 36.25"
Diameter: 2.6"
Span:
Weight: 26oz

Mfg. Description: The HAWK is a medium range, surface-to-air guided missile that provides air defense coverage against low-to-medium-altitude aircraft. It is a mobile, all-weather day and night system. The missile is highly lethal, reliable, and effective against electronic countermeasures. Basic HAWK was developed in the 1950s and initially fielded in 1960. The system has been upgraded through a series of product improvements beginning with the Improved HAWK in 1970. The Phase III product improvement and the latest missile modification were first fielded in the early 1990s to the U.S. Army and U.S. Marine Corps (USMC). Two missile modifications have extended the missile's field life and added electronic counter-countermeasures to defeat special threats. Development was completed on HAWK mobility, the latest system improvement, and it was produced for the USMC and Sweden. The U.S. Army National Guard (ARNG) as well as 20 allied nations, including NATO and several countries in both Southwest Asia and Southeast Asia, were also equipped with the HAWK system. Prime contractor for this system is the Raytheon Company. The cost per missile is $250,000; per fire unit, $15 million; and per battery, $30 million. (Madcow 2012 Web Ad)

Editorial Note:

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: MIM-23 Hawk Ordnance Family

Arcas HV (K-144)

MODEL NAME: Arcas HV *Also known as*: 2.6" Fiberglass Arcas HV

NUMBER: K-144

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 52.5"
Diameter: 2.6"
Span:
Weight: 32 oz

Mfg. Description: In early 1957, the Stanford Research Institute presented a study that a small single-stage sounding rocket would be very useful to measure winds at an altitude of up to 45 km (150000 ft) after nuclear tests to determine the spreading of radioactive fallout. The Office of Naval Research (ONR) and the Air Force Cambridge Research Center (AFCRC) concluded that such a system had a general utility as a high-altitude weather probing tool, and awarded Atlantic Research Corporation (ARC) a contract to develop this sounding rocket in January 1958. ARC designed the Arcas rocket, the first of which was ready for flight tests in late 1958. By the end of 1960, more than 400 Arcas rockets had been launched.

ALL FIBERGLASS KIT

Pre-Slotted 2 Part Fiberglass Airframe
Dual Deploy Capable
Secant-Ogive Fiberglass Nose Cone
G10 Fins and Centering Rings
Cut Vinyl Decal
Nylon Shock Cord (Madcow 2012 Web Ad)

Editorial Note: It seems that at one time, this kit came with a 29mm mount instead of a 38mm

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: ARCAS Sounding Rocket Family

Black Brant II (K-156)

MODEL NAME: **Black Brant II** *Also known as*:

NUMBER: K-156

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 52.75"
Diameter: 2.6"
Span:
Weight: 33oz

Mfg. Description: Features:
ALL FIBERGLASS KIT
High Power Rocket
Pre-Slotted Fiberglass Airframe
Fiberglass Nose Cone
Fiberglass Tail Cone
G10 Fins and Centering Rings
Cut Vinyl Decal
Dual Deploy
Rail Buttons (Madcow 2012 Web Ad)

Editorial Note:

Web Liveries

2011

1 2 3 8

Face Card(s)

Instruction Header

Also of interest: Black Brant II Sounding Rocket Family

Bomarc Rocket (K-119)

MODEL NAME: **Bomarc Rocket** *Also known as*:

NUMBER: K-119

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: parachute
Stages: 1
Length: 45.25"
Diameter: 2.6"
Span:
Weight: 39 oz

Mfg. Description:

Catalog Liveries

Web Liveries

2008

2011

Face Card(s)

Also of interest: CIM-10 Bomarc Ordnance Family

Cricket (K-141)

MODEL NAME: **Cricket** *Also known as*:

NUMBER: K-141

Introduced:
Final Year:
Designer:

Type: Sport, Upscale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 28.5"
Diameter: 4"
Span:
Weight: 30 oz

Mfg. Description: High Power Rocket
Heavy Duty Plastic Nose Cone
1/4" Plywood Laser Cut Fins and Rings
Delrin Rail Buttons
Pre-slotted Airframe
9/16" Tubular Nylon Shock Cord (Madcow 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Estes 220 Swift Family

Honest John Rocket (K-115)

MODEL NAME: **Honest John Rocket** *Also known as*:

NUMBER: K-115

Introduced: 2011
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 38"
Diameter: 2.6" (3.4" at Nose)
Span:
Weight: 28oz

Mfg. Description: The HONEST JOHN M31 was a simple, free-flight rocket capable of delivering a nuclear warhead. This highly mobile system was designed to fire like conventional artillery in battlefield areas. The Basic (M31) HONEST JOHN system was first deployed in 1954. It was replaced by the Improved (M50) HONEST JOHN (left) in 1961 which reduced the system's weight, shortened its length, and increased its range. In July 1982, all HONEST JOHN rocket motors, launchers, and related ground equipment items were type classified obsolete. (Madcow 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family

Jay Hawk AQM 37A (K-109)

MODEL NAME: Jay Hawk AQM 37A *Also known as*:

NUMBER: K-109

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 30.75"
Diameter: 2.6"
Span:
Weight: 19 oz.

Mfg. Description: In the 1959, the US Navy and US Air Force issued a joint request for a new high-speed expendable target. Beechcraft won the competition, and the result was a small delta-winged drone with wingtip fins and a liquid rocket motor, originally designated XKD2B-1 but now known as the AQM-37. The type first flew in May 1961, entered service with the US Navy in 1963, and remains in service.

The original version was the AQM-37A or Beech Model 1019. The AQM-37A was followed by a confusing list of subvariants, some of which were new production, others which were modifications of existing AQM-37s. These variants were intended to simulate different classes of threats, such as sea-skimming antiship missiles or high-altitude naval attack missiles, or provide better performance. One high-performance variant with improved thermal protection attained a speed of Mach 4.7 and an altitude of over 112,000 feet (34 kilometers) on a ballistic trajectory. The final US Navy variant was designated AQM-37C.

More than 5,000 AQM-37 targets of all variants have been delivered since the early 1960s. The AQM-37C/D is still in limited production for the U.S. Navy. (Madcow 2011 Web Ad)

Catalog Liveries

Web Liveries

2007

2011

Face Card(s)

Also of interest: AQM-37 Jayhawk Ordnance Family

(2.6”) Little John (K-101)

MODEL NAME: **2.6” Little John** *Also known as*:

NUMBER: K-101

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 31.25"
Diameter: 2.6"
Span:
Weight: 11 oz

Mfg. Description: The LITTLEJOHN was a free flight artillery rocket designed to deliver the explosive power of heavy artillery. It could carry either nuclear or conventional warheads. Designed primarily for use in airborne assault operations, the highly mobile LITTLEJOHN rocket system complemented the heavier, self-propelled HONEST JOHN systems. The LITTLEJOHN reached the field in November 1961 and remained in the Army inventory until August 1969. (Madcow 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MGR-3 Little John Ordnance Family

(4”) Little John (K-142)

MODEL NAME: **4” Little John** *Also known as*:

NUMBER: K-142

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x38mm or 1x54mm
Recovery: Parachute
Stages: 1
Length: 47.5"
Diameter: 4"
Span:
Weight: 39 oz

Mfg. Description: NEW 16.5" Ogive Plastic Nose Cone
1/4" Ply Laser Cut Fins and Rings
Delrin Rail Buttons
Cut Vinyl Decal
Pre-slotted Airframe
9/16" Tubular Nylon Shock Cord (Madcow 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: MGR-3 Little John Ordnance Family

(4”) Little John Rocket (FG) (K-157)

MODEL NAME: **Little John Rocket** (Fiberglass) *Also known as*:

NUMBER: K-157

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 47"
Diameter: 4"
Span:
Weight: 4 lbs

Mfg. Description: ALL FIBERGLASS KIT
High Power Rocket
Pre-Slotted Fiberglass Airframe
Fiberglass Nose Cone
G10 Fins and Centering Rings
Cut Vinyl Decal
Rail Buttons (Madcow 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: MGR-3 Little John Ordnance Family

Mozzie (K-112)

MODEL NAME: **Mozzie** *Also known as*:

NUMBER: K-112

Introduced:
Final Year:
Designer:

Type: Sport, Upscale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 19.5"
Diameter: 2.6"
Span:
Weight: 10oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

2012

Face Card(s)

Instruction Header

Also of interest: Estes Mosquito Family

Phoenix Rocket (K-136)

MODEL NAME: **Phoenix Rocket** *Also known as*:

NUMBER: K-136

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 40.5"
Diameter: 4.0"
Span:
Weight: 60 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: AIM 54 Phoenix Ordnance Family

McCoy's Micro Wonder Works (MMWW)

Master List for **MMWW** by Name

AIM-120A AMRAAM (Navy Ver.)	#285
(Estes) Airborne Surveillance Missile	#372
(Estes) Alien Space Probe	#291
(Estes) Big Bertha	#297
(Estes) Black Hole Space Probe	#346
(Estes) Blue Bird Zero	#305
(Estes) Cherokee D	#230
(Estes) Courier	#350
(Wildman) DarkStar	
(Estes) Deep Space Transport	#246
(Edmonds) Micro Maxx Deltie Boost Glider	#230
(Estes) Dragon Ship 7	#374
(Estes) EAC Viper	#375
(Edmonds) Ecee Rocket Glider	#300
(Centuri) ESS Raven	#273
(Estes) Explorer Aquarius	#243
(Estes) Falcon	#313
(Estes) Goblin	#233
(Estes) Guardian	#369
(Estes) Gyroc Tri-Fin	#284
(Estes) Hercules	#239
(Estes) Interceptor	#267
(Edmonds) Ivee Boost Glider	#227
(Centuri) Javelin	#352
(Centuri) Laser X	#248
(Estes) Mars Snooper	#235
Micro AGM-12B Bullpup A	#276
(Estes) Midget	#362
(Estes) NASA Pegasus	#353
(Estes) National Aerospace Plane	#304
(Estes) Nova Payloader	#236
(Estes) Optima	#385
(Centuri) Orion	#348
(Estes) Patrol Cruiser Excalibur	#373
(Centuri) Payloader II	#354
(Estes) Rainmaker	#355
(Estes) Ram Jet	#250
(Estes) Ranger	#226
(Estes) Scout	#330
(Estes) Sentinel	#358
(Estes) SkyDart	#240
(Estes) Sprint	#297
(Estes) Starship Vega	#268
(DynaStar) Snarky	#380

(Centuri) Taurus	#317
(Estes) The Bat	#344
(Centuri) The Point	#232
(Estes) Tornado	#338
(Estes) Trident	#321
(Centuri) Vulcan	#296
(Estes) X-Ray	#237
(Estes) Yellow Jacket	#326

Master List for **MMWW** by Number

#226	(Estes) Ranger
#227	(Edmonds) Ivee Boost Glider
#230	(Estes) Cherokee D
#230	(Edmonds) Micro Maxx Deltie Boost Glider
#232	(Centuri) The Point
#233	(Estes) Goblin
#235	(Estes) Mars Snooper
#236	(Estes) Nova Payloader
#237	(Estes) X-Ray
#239	(Estes) Hercules
#240	(Estes) SkyDart
#243	(Estes) Explorer Aquarius
#246	(Estes) Deep Space Transport
#248	(Centuri) Laser-X
#250	(Estes) Ram Jet
#267	(Estes) Interceptor
#268	(Estes) Starship Vega
#273	(Centuri) ESS Raven
#276	Micro AGM-13B Bullpup A
#284	(Estes) Gyroc Tri-Fin
#285	AIM-120A AMRAAM (Navy Ver.)
#291	(Estes) Alien Space Probe
#297	(Estes) Big Bertha
#297	(Estes) Sprint
#300	(Edmonds) Ecee Rocket Glider
#304	(Estes) National Aerospace Plane
#305	(Estes) Blue Bird Zero
#313	(Estes) Falcon
#317	(Centuri) Taurus
#321	(Estes) Trident
#326	(Estes) Yellow Jacket
#330	(Estes) Scout
#338	(Estes) Tornado
#344	(Estes) The Bat
#346	(Estes) Black Hole Space Probe
#348	(Centuri) Orion
#350	(Estes) Courier
#352	(Centuri) Javelin
#353	(Estes) NASA Pegasus
#354	(Centuri) Payloader II
#355	(Estes) Rainmaker
#350	(Estes) Sentinel
#362	(Estes) Midget
#369	(Estes) Guardian

#372 (Estes) Airborn Surveillance Missile
#373 (Estes) Patrol Cruiser Excalibur
#374 (Estes) Dragon Ship 7
#375 (Estes) EAC Viper
#380 (DynaStar) Snarky
#385 (Estes) Optima

Master List for **MMWW** by Prototype MFG

Centuri	ESS Raven	#273
Centuri	Javelin	#352
Centuri	Laser X	#248
Centuri	Orion	#348
Centuri	Payloader II	#354
Centuri	(The) Point	#232
Centuri	Taurus	#317
Centuri	Vulcan	#296
DynaStar	Snarky	#380
Edmonds	Micro Maxx Deltie Boost Glider	#230
Edmonds	Ecee Rocket Glider	#300
Edmonds	Ivee Boost Glider	#227
Estes	Airborne Surveillance Missile	#372
Estes	Alien Space Probe	#291
Estes	Big Bertha	#297
Estes	Black Hole Space Probe	#346
Estes	Blue Bird Zero	#305
Estes	Cherokee D	#230
Estes	Courier	#350
Estes	Deep Space Transport	#246
Estes	Dragon Ship 7	#374
Estes	EAC Viper	#375
Estes	Explorer Aquarius	#243
Estes	Falcon	#313
Estes	Goblin	#233
Estes	Guardian	#369
Estes	Gyroc Tri-Fin	#284
Estes	Hercules	#239
Estes	Interceptor	#267
Estes	Mars Snooper	#235
Estes	Midget	#362
Estes	NASA Pegasus	#353
Estes	National Aerospace Plane	#304
Estes	Nova Payloader	#236
Estes	Optima	#385
Estes	Patrol Cruiser Excalibur	#373
Estes	Rainmaker	#355
Estes	Ram Jet	#250
Estes	Ranger	#226
Estes	Scout	#330
Estes	Sentinel	#358

Estes	SkyDart	#240
Estes	Sprint	#297
Estes	Starship Vega	#268
Estes	The Bat	#344
Estes	Tornado	#338
Estes	Trident	#321
Estes	X-Ray	#237
Estes	Yellow Jacket	#326
Wildman	DarkStar	

AIM-120A AMRAAM (Navy Ver.) (#285)

MODEL NAME: **AIM-120A AMRAAM (Navy Ver.)** *Also known as*:

NUMBER: #285

Introduced: 2002
Final Year:
Designer: John McCoy

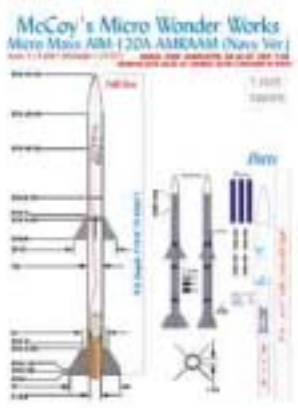
Type: Scale
Motor Mount: 6mm
Recovery: Streamer
Stages: 1
Length: 7.7344"
Diameter: 0.375"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan Image

Face Card(s)



Also of interest: AIM 120 AMRAAM Ordnance Family

1 2 6 4

(Estes) Airborn Surveillance Missile (#372)

MODEL NAME: **MM Airborne Surveillance Missile** *Also known as*:

NUMBER: #372

Introduced: 2010
Final Year:
Designer: John McCoy

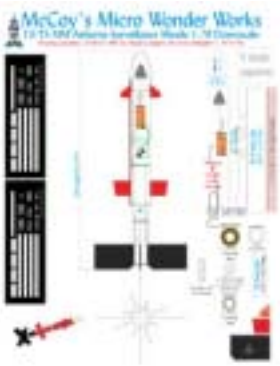
Type: Pseudo Scale, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 6.1875"
Diameter: 0.544"
Span:
Weight:

Mfg. Description: 1.79 Downscale (Plan)

Web Liveries

Plan

Face Card(s)



Also of interest: Estes Airborn Surveillance Missile

(Estes) Alien Space Probe (#291)

MODEL NAME: Alien Space Probe *Also known as*:

NUMBER: #291

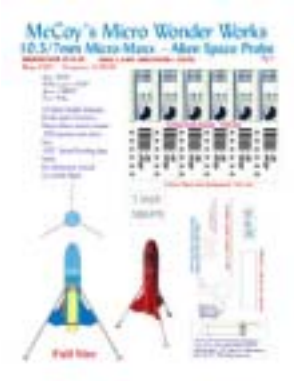
Introduced: 2002
Final Year:
Designer: John McCoy

Type: Exotic, Downscale
Motor Mount: 1x6mm or 1x10.5mm
Recovery: Break Apart
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Web Liveries

Face Card(s)



Also of interest: Estes Alien Space Probe

(Estes) Big Bertha (#297)

MODEL NAME: Micro Big Bertha *Also known as*:

NUMBER: #297

Introduced: 2003
Final Year:
Designer: Vern Estes, John McCoy

Type: Sport, Downscale
Motor Mount: 1x10.5mm
Recovery: Streamer
Stages: 1
Length:
Diameter: 09.4475"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Big Bertha

(Estes) Black Hole Space Probe (#346)

MODEL NAME: **Micro T3 Black Hole Space Probe** *Also known as*:

NUMBER: #346

Introduced: 2008
Final Year:
Designer: Wayne Kellner, John McCoy

Type: Exotic, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Black Hole Space Probe

(Estes) Blue Bird Zero (#305)

MODEL NAME: Micro Blue Bird Zero *Also known as*:

NUMBER: #305

Introduced: 2005
Final Year:
Designer: Mike Dorffler, John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 11.61"
Diameter: 0.375"
Span:
Weight:

Mfg. Description: 3.533 Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Blue Bird Zero

(Estes) Cherokee D (#230)

MODEL NAME: Micro-Maxx Cherokee *Also known as*:

NUMBER: #230

Introduced: 2000
Final Year:
Designer: Gene Street, John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm or 1x10.5mm
Recovery: Streamer
Stages: 1
Length: 7.47"
Diameter: 0.4475"
Span:
Weight:

Mfg. Description: Classic Down Scale (Plan)

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Estes Cherokee D Family

(Estes) MM Courier (#350)

MODEL NAME: **MM Courier** *Also known as*:

NUMBER: #350

Introduced: 2008
Final Year:
Designer: John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 4.75"
Diameter: 0.281"
Span:
Weight:

Mfg. Description: 2.6 Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Courier Family

(Wildman) DarkStar

MODEL NAME: **MM T3 DarkStar** *Also known as*:

NUMBER:

Introduced: 2010
Final Year:
Designer: Don Ball, John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 10.625"
Diameter: 0.375"
Span:
Weight:

Mfg. Description:

Web Liveries

2010 2011

Face Card(s)

Also of interest: Wildman DarkStar Family

1 2 7 2

(Estes) Deep Space Transport (#246)

MODEL NAME: **Deep Space Transport** *Also known as*:

NUMBER:#246

Introduced: 2001
Final Year:
Designer: John McCoy

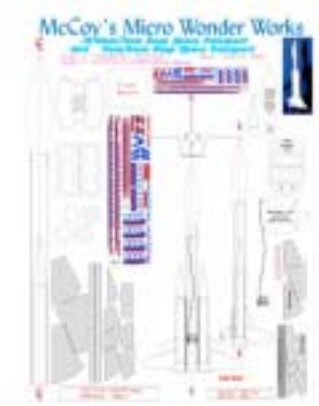
Type: Exotic, Downscale
Motor Mount: 1x10.5mm or 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)



Also of interest: Estes Deep Space Transport Family

(Edmonds) Deltie Boost Glider (#230)

MODEL NAME: **Micro Maxx Deltie Boost Glider** *Also known as*:

NUMBER: #230

Introduced: 1999
Final Year:
Designer: Robert Edmonds, John McCoy

Type: Boost Glider, Downscale
Motor Mount: 1x6mm
Recovery: Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Edmonds Deltie Family

(Estes) Dragon Ship-7 (#374)

MODEL NAME: **Dragon Ship-7** *Also known as*:

NUMBER: #374

Introduced: 2011
Final Year:
Designer: Keith Niskern, John McCoy

Type: Exotic, Downscale, Retro
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter: 0.544"
Span:
Weight:

Mfg. Description: 3X Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Dragon Ship 7 Family

(Estes) EAC Viper (#375)

MODEL NAME: **T3 EAC Viper** *Also known as*:

NUMBER: #375

Introduced: 2011
Final Year:
Designer: John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 5.344"
Diameter: 0.375"
Span:
Weight:

Mfg. Description: 2.6x Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Estes EAC Viper Family

(Edmonds) Eecee (#300)

MODEL NAME: **Micro Ecee Rocket Glider** *Also known as*:

NUMBER: #300

Introduced: 2004
Final Year:
Designer: Robert Edmonds, John McCoy

Type: Rocket Glider, Downscale
Motor Mount: 1x6mm
Recovery: Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: 2.6 Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Edmonds Ecee Family

(Centuri) ESS Raven (#273)

MODEL NAME: **Micro ESS Raven** *Also known as*:

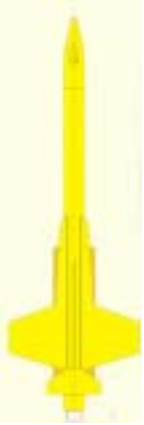
NUMBER: #273

Introduced: 2003
Final Year:
Designer: John McCoy

Type: Exotic, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries



Plan

Face Card(s)

Also of interest: Centuri ESS Raven Family

(Estes) Explorer Aquarius (#243)

MODEL NAME: **Micro Explorer Aquarius** *Also known as*:

NUMBER: #243

Introduced: 2000
Final Year:
Designer: John McCoy

Type: Exotic, Downscale
Motor Mount: 1x10.5mm or 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: 1:337735 Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Explorer Aquarius Family

(Estes) Falcon (#313)

MODEL NAME: **Micro Falcon BG** *Also known as*:

NUMBER: #313

Introduced: 2008
Final Year:
Designer: Larry Renger, John McCoy

Type: Rocket Glider, Downscale
Motor Mount: 1x6mm
Recovery: Glide
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Falcon Family

1 2 8 0

(Estes) Goblin (#233)

MODEL NAME: **Micro Maxx Goblin** *Also known as*:

NUMBER: #233

Introduced: 2000
Final Year:
Designer: Wayne Kellner, John McCoy

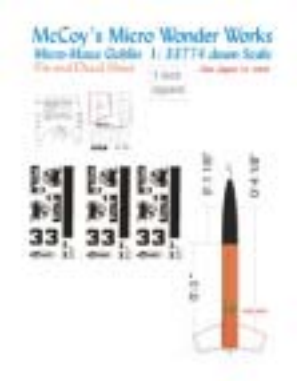
Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: 1:33774 Downscale (Plan)

Web Liveries

Plan

Face Card(s)



Also of interest: Estes Goblin Family

MM Guardian Missile (#369)

MODEL NAME: **MM Guardian Missile** *Also known as*:

NUMBER: #369

Introduced: 2010
Final Year:
Designer: John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 5.5625"
Diameter: 0.375”
Span:
Weight:

Mfg. Description: T3-T2+ 3.5x Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Gyroc Tri-Fin (#284)

MODEL NAME: **Gyroc Tri-Fin** *Also known as*:

NUMBER: #284

Introduced: 2002
Final Year:
Designer: John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm or 1x10.5mm
Recovery: Helicopter
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Web Liveries

Plan

Face Card(s)

(Estes) Hercules (#239)

MODEL NAME: **Micro-Maxx Hercules 2-Stage** *Also known as*:

NUMBER: #239

Introduced: 2000
Final Year:
Designer: John McCoy

Type: Sport, 2 Stage, Downscale
Motor Mount: 1x6mm/1x6mm
Recovery: Tumble/Streamer
Stages:2
Length: 6.9"
Diameter: 0.281"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Hercules Family

(Estes) Interceptor (#267)

MODEL NAME: **Micro-Maxx Interceptor** *Also known as*:

NUMBER: #267

Introduced: 2001
Final Year:
Designer: Wayne Kellner, John McCoy

Type: Exotic, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

plan

Face Card(s)

Also of interest: Estes Interceptor Family

(Edmonds) Ivee Boost Glider (#227)

MODEL NAME: **Ivee Boost Glider** *Also known as*:

NUMBER: #227

Introduced: 2000
Final Year:
Designer: Robert Edmonds, John McCoy

Type: Boost Glider, Downscale
Motor Mount: 1x6mm
Recovery: Streamer/Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Edmonds Ivee Family

(Centuri) Javelin (#352)

MODEL NAME: **MM Javelin Kc-31** *Also known as*:

NUMBER: #352

Introduced: 2008
Final Year:
Designer: John McCoy

Type: Sport
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 5.75"
Diameter: 0.375"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Centuri Javelin Family

(Centuri) Laser-X (#248)

MODEL NAME: **Micro-Maxx Laser-X** *Also known as*:

NUMBER: #248

Introduced: 2000
Final Year:
Designer: John McCoy

Type: Exotic
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 8.622"
Diameter: 0,544"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Centuri Laser-X Family

1 2 8 8

(Estes) Mars Snooper (#235)

MODEL NAME: **Micro_Maxx Mars Snooper** *Also known as*:

NUMBER: #235

Introduced: 2000
Final Year:
Designer: Gene Street, John McCoy

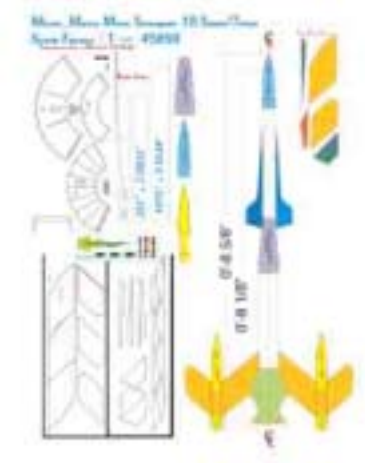
Type: Exotic, Downscale
Motor Mount: 1x6mm or 1x10.5mm
Recovery: Streamer
Stages: 1
Length: 8.635"
Diameter: 0.4475"
Span:
Weight:

Mfg. Description: DESC

Catalog Liveries

Web Liveries

Face Card(s)



Also of interest: Estes Mars Snooper Family

Micro AGM-12B Bullpup A (#276)

MODEL NAME: Microm AGM-12B Bullpup A *Also known as*:

NUMBER: #276

Introduced: 2003
Final Year:
Designer: John McCoy

Type: Scale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter: 0.448"
Span:
Weight:

Mfg. Description: DESC

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest:

1 2 9 0

(Estes) Midget (#362)

MODEL NAME: **Micro T4/T3 Midget 2 Stage** *Also known as*:

NUMBER: #362

Introduced: 2009
Final Year:
Designer: Bill Simon, John McCoy

Type: Sport, 2 Stage, Downscale
Motor Mount: 1x6mm/1x6mm
Recovery: Tumble/Streamer
Stages: 2
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

Plan Image

Face Card(s)

Also of interest: Estes Midget Family

(Estes) NASA Pegasus (#353)

MODEL NAME: **MM T3 NASA Pegasus** *Also known as*:

NUMBER: #353

Introduced: 2008
Final Year:
Designer: John McCoy

Type: Exotic, Downscale, Cluster
Motor Mount: 3x6mm
Recovery: Streamer or Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Estes NASA Pegasus Family

(Estes) National Aerospace Plane (#304)

MODEL NAME: **Micro National AeroSpace Plane** *Also known as*:

NUMBER: #304

Introduced: 2005
Final Year:
Designer: John McCoy

Type: Exotic, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Plan

Face Card(s)

Also of interest: Estes National Aerospace Plane

(Estes) Nova Payloader (#236)

MODEL NAME: **Nova Payloader** *Also known as*:

NUMBER: #236

Introduced: 2000
Final Year:
Designer: John McCoy

Type: Payload, Downscale
Motor Mount: 1x 6mm
Recovery: Streamer
Stages: 1
Length: 6.1"
Diameter: 0.28"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Nova Payloader Family

1 2 9 4

(Estes) Optima (#385)

MODEL NAME: **T-3 Optima** *Also known as*:

NUMBER: #385

Introduced: 2012
Final Year:
Designer: Mike Dorffler, John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 6.8125"
Diameter: 0.375"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Optima Family

(Estes) Patrol Cruiser Excalibur (#373)

MODEL NAME: **MM Patrol Cruiser Excalibur** *Also known as*:

NUMBER: #373

Introduced: 2011
Final Year:
Designer: Keith Niskern, John McCoy

Type: Exotic, Retro, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 7.032"
Diameter: 0.544"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Patrol Cruiser Excalibur Family

(Centuri) Orion (#348)

MODEL NAME: **Orion** *Also known as*:

NUMBER: #348

Introduced: 2008
Final Year:
Designer: John McCoy

Type: Sport, Exotic, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 6.104"
Diameter: 0.544"
Span:
Weight:

Mfg. Description: Kc-8 Orion T-5 Downscale (plan)

Web Liveries

plan

Face Card(s)

Also of interest: Centuri Orion Family

(Centuri) Payloader II (#354)

MODEL NAME: **MM T3 Payloader II** *Also known as*:

NUMBER: #354

Introduced: 2008
Final Year:
Designer: John McCoy

Type: Payload/Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 6.53"
Diameter: 0.375"
Span:
Weight:

Mfg. Description: T-3 Payloader II - 2.77 Downscale (Plan)

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Centuri Payloader II Family

(Estes) Rainmaker (#355)

MODEL NAME: **Micro Rain Maker** *Also known as*:

NUMBER: #355

Introduced: 2008
Final Year:
Designer: John McCoy

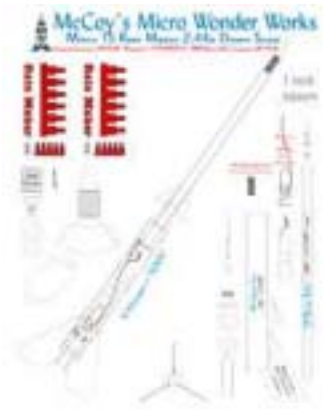
Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 10.625"
Diameter: 0.544:
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)



Also of interest: Estes Raunmaker Family

(Estes) Ram Jet (#250)

MODEL NAME: **Micro-Maxx Ram-Jet** *Also known as*:

NUMBER: #250

Introduced: 2000
Final Year:
Designer: John McCoy

Type: Pseudo Scale, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Ram Jet Family

1 3 0 0

(Estes) Ranger (#226)

MODEL NAME: **MMX Ranger** *Also known as*:

NUMBER: #226

Introduced: 2003
Final Year:
Designer: Vern Estes, John McCoy

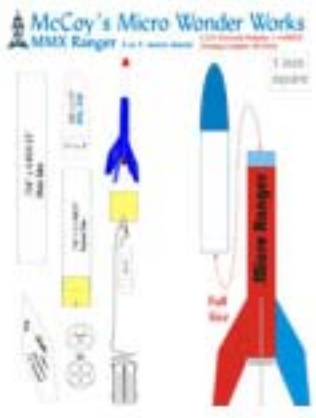
Type: Sport, Cluster, Downscale
Motor Mount: 3x6mm or 4x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter: 0.736"
Span:
Weight:

Mfg. Description: 3 or 4 Motor Cluster (Plan)

Web Liveries

Plan

Face Card(s)



Also of interest: Estes Ranger Family

(Estes) Scout (#330)

MODEL NAME: **Micro Scout-I** *Also known as*:

NUMBER: #330

Introduced: 2007
Final Year:
Designer: Vern Estes, John McCoy

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Tumble
Stages: 1
Length: 3.375"
Diameter: 0.375"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Scout Family

1 3 0 2

(Estes) Sentinel (#358)

MODEL NAME: **MM Sentinel (T3 & T2+)** *Also known as*:

NUMBER: #358

Introduced: 2008
Final Year:
Designer:

Type: Pseudo Ordnance, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note: The plan includes provisions for both a BT-3 version and a BT-2.5 version.

Web Liveries

Plan Image

Face Card(s)

Also of interest: Estes Sentinel Family

(Estes) SkyDart (#240)

MODEL NAME: **SkyDart Business SST** *Also known as*:

NUMBER: #240

Introduced: 2000
Final Year:
Designer: Larry Renger, John McCoy

Type: Boost Glider, Downscale
Motor Mount: 1x10.5mm or 1x6mm
Recovery: Streamer/Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Skydart Family

(Estes) Sprint (#297)

MODEL NAME: **Micro-Maxx Sprint** *Also known as*:

NUMBER: #297

Introduced: 2004
Final Year:
Designer: Mike Dorffler, John McCoy

Type: Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter: 0.448"
Span:
Weight:

Mfg. Description: 2.178X Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Estes Sprint Family

(Estes) Starship Vega (#268)

MODEL NAME: **Micro Maxx Starship Vega** *Also known as*:

NUMBER: #268

Introduced:
Final Year:
Designer: Wayne Kellner, John McCoy

Type: Exotic, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 5.875"
Diameter: 0.281"
Span:
Weight:

Mfg. Description:

Web Liveries

Face Card(s)

Also of interest: Estes Starship Vega Family

(DynaStar) Snarky (#380)

MODEL NAME: **T3 Snarky** *Also known as*:

NUMBER: #380

Introduced: 2011
Final Year:
Designer: Shrox, John McCoy

Type: Pseudo-Scale, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 4.547"
Diameter:
Span:
Weight:

Mfg. Description: 3.533x Downscale (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: DynaStar Snarky Family

(Centuri) Taurus (#317)

MODEL NAME: **Micro Centuri Taurus** *Also known as*:

NUMBER: #317

Introduced: 2006
Final Year:
Designer: John McCoy

Type: Exotic, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 9.28"
Diameter: 0.591"
Span:
Weight:

Mfg. Description: Micro Centuri Taurus (Plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Centuri Taurus Fleet Ship Family

(Estes) The Bat (#344)

MODEL NAME: **The Micro Bat** *Also known as*:

NUMBER: #344

Introduced: 2008
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 6.367"
Diameter: 0.375"
Span:
Weight:

Mfg. Description:

Web Liveries

Plan Image

Face Card(s)

Also of interest: Estes Bat Family

(Centuri) The Point (#232)

MODEL NAME: **Micro Maxx Kc-13 The Point** *Also known as*:

NUMBER: #232

Introduced: 2000
Final Year:
Designer: John McCoy

Type: Oddroc, Downscale
Motor Mount: 1x6mm
Recovery: Rigid Parachute
Stages: 1
Length: 3.125"
Diameter: 1-31/64"
Span:
Weight:

Mfg. Description: Micro Maxx Kc-13 The Point 1:3818 downscale (plan)

Web Liveries

Plan

Face Card(s)

Also of interest: Centuri Point Family

1 3 1 0

(Estes) Tornado (#338)

MODEL NAME: **Tornado (T3) Maple Seed Recovery** *Also known as*:

NUMBER: #338

Introduced: 2007
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Maple Seed
Stages: 1
Length: 5"
Diameter: 0.375"
Span: 1.635"
Weight: 3.6g

Mfg. Description:

Web Liveries

Plan Image

Face Card(s)

Also of interest: Estes Tornado Family

(Estes) Trident (#321)

MODEL NAME: **Micro Trident Space Transport** *Also known as*:

NUMBER: #321

Introduced: 2006
Final Year:
Designer: Gene Street, John McCoy

Type: Exotic, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 11.75"
Diameter: 0.375"
Span: 2.25"
Weight: 13.2 g

Mfg. Description:

Web Liveries

Plan Image

Face Card(s)

Also of interest: Estes Trident Family

1 3 1 2

(Estes) X-Ray (#237)

MODEL NAME: **Micro-Maxx #1218 X-Ray** *Also known as*:

NUMBER: #237

Introduced: 2000
Final Year:
Designer: John McCoy

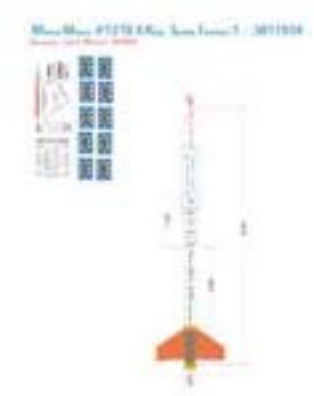
Type: Payload, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 6.66"
Diameter:
Span:
Weight:

Mfg. Description:

Web Liveries

Plan

Face Card(s)



Also of interest: Estes X-Ray Family

(Estes) Yellow Jacket (#326)

MODEL NAME: **T3 Micro Yellow Jacket** *Also known as*:

NUMBER: #326

Introduced: 2006
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length: 6.578"
Diameter: 0.375"
Span:
Weight:

Mfg. Description:

Web Liveries

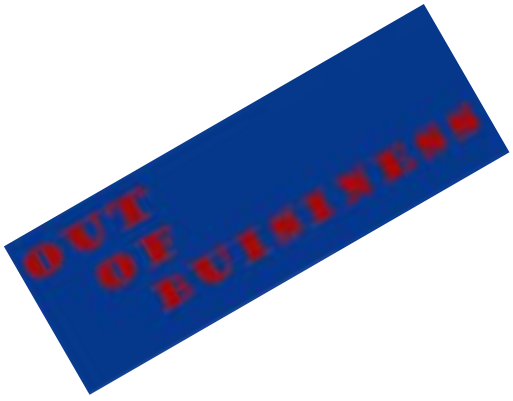
Plan Image

Face Card(s)

Also of interest: Estes Yellow Jacket Family

1 3 1 4

Model Missiles, Inc. (MMI)



Master List for **MMI** by Name

Aerobee Hi	#001-B
Aerobee Hi Deluxe	#001-A
Aerobee Hi Economy	#001-C

Master List for **MMI** by *Number*

#001-A	Aerobee Hi Deluxe
#001-B	Aerobee Hi
#001-C	Aerobee Hi Economy

Aerobee Hi (#001-B)

MODEL NAME: **Aerobee Hi** *Also known as*:

NUMBER: #001-B

Introduced: 1958
Final Year: 1961
Designer:

Type: Scale
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Aerobee Sounding Rocket Family, MMI Aerobee Hi Family

Aerobee Hi Deluxe (#001-A)

MODEL NAME: **Aerobee Hi Deluxe** *Also known as*:

NUMBER: #001-A

Introduced: 1958
Final Year: 1961
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Aerobee Sounding Rocket Family, MMI Aerobee Hi Family

Aerobee Hi Economy (#001-C)

MODEL NAME: **Aerobee Hi Economy** *Also known as*:

NUMBER: #001-C

Introduced: 1958
Final Year: 1961
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Aerobee Sounding Rocket Family, MMI Aerobee Hi Family

Modelrocket.US

ModelRockets.us Opening Hours:
Monday to Friday from 8am to 5pm.

Email us at:
info@modelrockets.us

Phone us at: 760-224-0950

You can write us at:
ModelRockets.us
2420 Grand Ave. Ste I-1
Vista, CA 92081

https://www.modelrockets.us/

Master List for **Modelrockets.US** by Name

Nike Smoke 2.6	#01039

Master List for **Modelrockets.US** by *Number*

#01039	Nike Smoke 2.6

Nike Smoke 2.6 (#01039)

MODEL NAME: **Nike Smoke 2.6** *Also known as*:

NUMBER: #01039

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 36.75"
Diameter: 2.64"
Span:
Weight: 12 oz

Mfg. Description: Sport scale model of the real sounding rocket that NASA used to check the atmosphere for wind shear before every Apollo/Saturn launch!

ModelRockets.us Expert Series rocket kits include a "Interlock Fin Can" that builds in minutes with strong birch plywood parts that Interlock together to produce an easy to assemble strong motor mount.

Includes:

- Decals
- Full Color Photo Instructions on CD
- Scale data and Images on CD
- Open Rocket Software & Flight Simulations on CD

Requires paint (not Included) to appear as pictured.

For experienced rocketeers that fly composite model rocket motors. (ModelRockets.US 2012 Web Ad)

Editorial Note:

Catalog Liveries

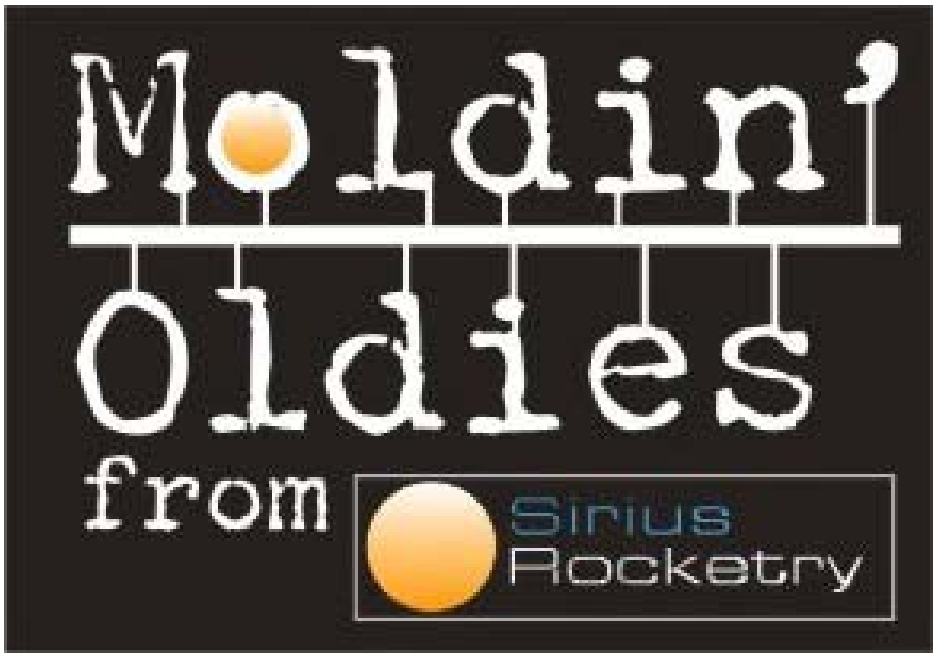
Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Nike Smoke Sounding Rocket Family



Moldin' Oldies

http://www.moldinoldies.com/

About Moldin’ Oldies

Moldin' Oldies is now a part of the Sirius Rocketry family of products.

The parts are available (as detailed below) in the Sirius Rocketry secure online store at www.siriusrocketry.com as they are ready to ship. Mike Schmidt started Moldin' Oldies some years ago, and David Miller took over the line upon Mike's "retirement" to make sure that these items could remain available and to indroduce new items under the Moldin' Oldies name.

David is also working on some new parts not offered before that will also be made available as time permits. Others are being reworked to make them even better. Some of the old molds were a bit tired and time has been spent on making replacement molds for these parts. You can help support the Moldin' Oldies effort by supporting Sirius Rocketry and ordering other products, spreading the word, and adding links to Sirius Rocketry to your website.

Note that the making of these cones is an extremely time-intensive process, and your patience is appreciated as we not only spend that time making some new cones, but we spend time restocking other complex Sirius Rocketry kits that have been selling faster than expected. We need your word-of-mouth to help us, so that we can spend the time making the cones that will allow you to recreate some of your old favorites! Please let people know we are here by linking to our website at www.siriusrocketry.com.

(2012 Company Web Statement)

Master List for **Moldin' Oldies** by Name

Taurus Fleet Ship

Taurus Fleet Ship

MODEL NAME: **Taurus Fleet Ship** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Exotic, Clone
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Taurus Fleet Ship Family

MoreRockets.Com

MoreRockets

444 Old Stage Rd.

Sanbornville, NH 03872

(603)767-8750

http://morerockets.com/

Master List for **MoreRockets.Com** by Name

Viper	#1310	*Estes Clone*

Master List for **MoreRockets.Com** by Number

#1310	Viper	*Estes Clone*

Viper (#1310)

MODEL NAME: **Viper** *Also known as*:

NUMBER: #1310

Introduced: 2010
Final Year:
Designer:

Type: Fantasy Scale, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.5"
Diameter: 0.976"
Span:
Weight: 2.4 oz

Mfg. Description: DESC

Catalog Liveries

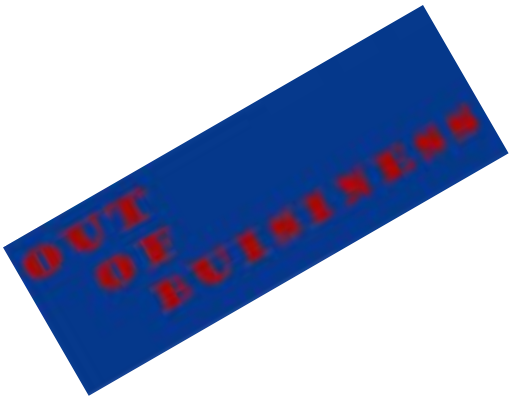
Web Liveries

Face Card(s)

Also of interest: Estes Colonial Viper Family, Battlestar Galactica Colonial Viper Family

1 3 3 0

Mountainside Hobbies



About Mountainside Hobbies

In 1994 Mountainside Hobbies opened for business. We were a small shop devoted to RC cars, airplanes, boats and rockets. Rocketry soon became a large part of our business and we quickly began offering mail order. We shipped kits from many of the major manufacturers and our own line of kits. After 3 years of almost non stop work we reached the point of burnout. We closed the hobby shop and mail order business, and took a vacation. Since then we have made small production runs of kits. After a two year re-design and perfection of the new V-2 kit; we are ready to offer the best Mountainside Hobbies V-2 yet.

(Company Web Statement 2004)

Master List for **Mountainside Hobbies** by Name

Sport Scale V-2	#103
4” V-2	#500

Master List for **Mountainside Hobbies** by *Number*

#103	Sport Scale V-2
#500	4” V-2

Sport Scale V-2 (#103)

MODEL NAME: Sport Scale V-2 *Also known as*: 2.6” V-2

NUMBER: #103

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 22-1/2"
Diameter: 2.6"
Span:
Weight: 7 oz

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: All V2 Families

4” V-2 (#500)

MODEL NAME: **4” V-2** *Also known as*:

NUMBER: #500

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description: Size: 34" tall by 4" in diameter (approx. 1/16 scale).
Weight: 36 ounces without motor.
More scale-like outline including properly shaped nose and accurately sized fins.
Light, strong construction for flights on consumer G motors through high power H motors.
Perfect for Level 1 certification flights.
29mm motor mount.
1/4" brass launch lug.
Real recovery system including 36' ripstop nylon parachute, 3/8" tubular nylon harness and nomex heat shield.
Stainless steel motor retainer for positive retention of single use and reloadable motors.
Locked in nose weight design can be made adjustable. (Mountainside Hobbies 2004 Web Ad)

Web Liveries

2002

2004

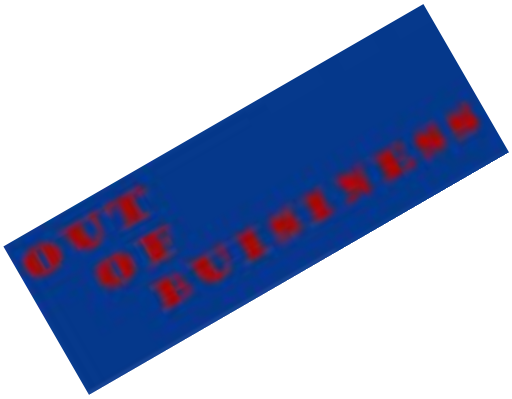
2007

Face Card(s)

Also of interest: All V2 Families

Neubauer Rockets

http://www.neubauerrockets.com/



About Neubauer Rockets

Neubauer Rockets caters to the sport scale enthusiast by offering models suitable for NAR competition, flying for fun or simple static display.

The Neubauer 1/100 Sport Scale models compliment the classic Estes 1/100 Saturn V, Saturn 1B and Little Joe II kits making for a complete collection of historical American space vehicles.

Most kits feature detailed plastic molded fins and capsules, decals, high quality airframe tubing and parachute or streamer recovery.

These kits may require white glue, cyanoacrylates (super glue) or epoxy for construction. Adhesives, paint and other finishing supplies are not included.

(Company Web Statement 2011)

Master List for **Neubauer Rockets** by Name

D-Region Tomahawk
Gemini Titan (4”)
Juno I (1/100)
Little Joe I
MegaDagger
Mercury Atlas (1/100)
Mercury Redstone (1/100)
Mercury Redstone (2.6”)
Mercury Redstone (4”)
Micro Gemini Titan
Micro Nike Smoke
Micro Saturn 1B
Micro Saturn V
Orion II
SkyDagger
Super Tube

D-Region Tomahawk

MODEL NAME: **D-Region Tomahawk** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: D-Region Tomahawk Sounding Rocket Family

Gemini Titan (4”)

MODEL NAME: **4” Gemini Titan** *Also known as*: 1/30 Gemini Titan

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: This giant 4" diameter 1/30 scale kit celebrates America's first walk in space.

Resin cast capsule measures approximately 8 inches in height and is accurately detailed with surface details that include:

Two windows
Approach radar
Louvre detail

Detailing based on data resourced from 1/24 Revell kit, Miniatures In Space #2 - Gemini, and Rockets of the World (non-parallel lines are correct).

Kit includes:

Resin cast static display engine bells (removed for flight).
Vinyl decals (lettering and roll patterns)
Laser cut plywood centering rings.
Detachable fin unit with plywood fins (required for flight).
29mm motor mount tube.
Gorilla style shock cord mount.
Single 50" nylon parachute recovery.
1/4" launch lugs.
Instruction manual. (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Gemini Titan Launch Vehicle Family

Juno I (1/100)

MODEL NAME: **1/100 Juno I** *Also known as*: Micro Juno

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 8.5"
Diameter: 0.76"
Span:
Weight: 1.0 oz

Mfg. Description: 1/100 sport scale Juno 1 and Explorer 1 Satellite (America's first orbiting satellite.) This kit features resin cast plastic satellite/nose cone. Laser cut plastic fins / Full body wrap decal / Streamer recovery. (Discount Rocketry 2012)Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Juno I Launch Vehicle Family

Little Joe I

MODEL NAME: **Little Joe I** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 24.75"
Diameter: 2.6"
Span:
Weight: 6.1 oz

Mfg. Description: Little Joe 1 was a 1959 unmanned test vehicle to determine how well the escape rocket would function under the most severe dynamic loading conditions anticipated during a Mercury-Atlas launching. This 1/30 scale kit features 1/8" balsa fins, balsa capsule, hardwood/resin escape tower, 18" plastic chute, and decals. (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Little Joe I Launch Vehicle Family

MegaDagger

MODEL NAME: **MegaDagger** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Boost Glider
Motor Mount: 1x24mm
Recovery: Parachute/Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Skydart Family

Mercury Atlas (1/100)

MODEL NAME: **1/100 Mercury Atlas** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 11.25"
Diameter: 1.14"
Span:
Weight: 2 oz

Mfg. Description: 1/100 sport scale Mercury Atlas kit features resin cast capsule, two removable clear fin units for flight stabilization, silver body wrap, vinyl decals. (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Mercury Atlas Launch Vehicle Family

Mercury Redstone (1/100)

MODEL NAME: **1/100 Mercury Redstone** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 9.75"
Diameter: 0.76"
Span:
Weight: 1.5 oz

Mfg. Description: This kit features resin cast plastic capsule/nose cone. Laser cut plastic fins / Full color adhesive body wrap decal. Escape tower is supported by a clear plastic rod that is surrounded by the tower trusswork for strength and ease of assembly. Recovered by streamer. (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest:Mercury Redstone Launch Vehicle Family

Mercury Redstone (2.6”)

MODEL NAME: **2.6” Mercury Redstone** *Also known as*: 1/27 Mercury Redstone

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 37.5"
Diameter: 2.6"
Span:
Weight: 12.5 oz

Mfg. Description: This exciting 1/27 scale Mercury Redstone kit stands over 37 inches tall.
Detailed resin cast capsule and escape tower.
The escape tower is removable for flights.
Laser cut hardwood fins. Vinyl decals.
38" plastic parachute recovery.
This kit recommended for the experienced modeler. (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

2012 Discount Rocketry

Also of interest: Mercury Redstone Launch Vehicle Family

Mercury Redstone (4”)

MODEL NAME: **4” Mercury Redstone** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 58.5"
Diameter: 3.9"
Span:
Weight: 52oz

Mfg. Description: This giant 4" diameter 1/17.5 scale kit celebrates Alan Shepard's 1961 launch aboard Freedom 7.

Resin cast capsule measures approximately 7 inches in height (17" with escape tower) and features surface details that include:

- Round window
- Hatch
- Vertical panels
- Umbilical panel

Escape tower may be removed for flight.

Kit includes:

- Vinyl decals (lettering and roll patterns)
- Plywood centering rings.
- Laser-cut plywood fins with thru-the-wall attachment to motor mount.
- 29mm motor mount tube.
- Gorilla style shock cord mount.
- Single 50" nylon parachute recovery.
- 1/4" launch lugs.
- 6 page instruction manual.

Flights to 350' on G motor. (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Mercury Redstone Launch Vehicle Family

Micro Gemini Titan

MODEL NAME: **Micro Gemini Titan** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 8.5"
Diameter: 24mm
Span:
Weight: 1.75 oz

Mfg. Description: This kit features resin cast plastic Gemini capsule, fins, and clear plastic launch lugs. Kit is stabilized for flight using a clear plastic fin assembly. Kit comes complete with one piece detailed body wrap. Recovered by 9" parachute (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Gemini Titan Launch Vehicle Family

Micro Nike Smoke

MODEL NAME: **Micro Nike Smoke** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery:
Stages: 1
Length: 10.5"
Diameter: 0.76"
Span:
Weight:

Out Of Production

Mfg. Description: This kit features finely turned balsa nose cone. Laser cut hardwood fins. Kit comes complete with color adhesive decals and can be built in only 1 to 2 hours (except paint and decals). (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Nike Smoke Sounding Rocket Family

Micro Saturn 1B

MODEL NAME: **Micro Saturn 1B** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 6.8"
Diameter: 0.76"
Span:
Weight: 3.0 oz

Out Of Production

Mfg. Description: This kit features resin cast plastic capsule/nose cone.
Laser cut plastic fins / Streamer recovery.
Each kit comes with a complete set of color adhesive decals and can be built in only 1 to 2 hours (except paint and decals). (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Saturn I Launch Vehicle Family

Micro Saturn V

MODEL NAME: **Micro Saturn V** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 10.7"
Diameter: 0.97"
Span:
Weight: 3.0 oz

Out Of Production

Mfg. Description: This kit features resin cast plastic nose cone/capsule. Plastic fin unit. Each kit comes with a complete set of color adhesive decals and can be built in only 1 to 2 hours (except paint and decals). (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

Also of interest: Saturn V Launch Vehicle Family

Orion II

MODEL NAME: **Orion II** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport/Upscale
Motor Mount: 1x24mm
Recovery:
Stages:
Length: 27.25"
Diameter: 2.6"
Span:
Weight: 8 oz.

Out Of Production

Mfg. Description: A upscaled clone of the classic Centuri kit, this Orion II features:

- 2.6" Balsa nose cone
- Vacuum formed body wrap
- Vinyl decal
- Laser cut fins
- Six resin cast side pod nose cones
- 24 mm motor mount
- Bonus Vinyl decal added (Neubauer 2011 Web Ad)

Editorial Note:

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Orion Family

SkyDagger

MODEL NAME: **SkyDagger** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Boost Glider
Motor Mount: 1x18mm
Recovery: Parachute/Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes SkyDart Family

Super Tube

MODEL NAME: **Super Tube** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport, Tube Fin
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 47"
Diameter: 2.6"
Span:
Weight: 11 oz

Mfg. Description: Standing almost 4 feet tall, the Super Tube can be assembled quickly and painlessly because there are no balsa fins to sand and fill! The unique ram-jet style custom turned balsa nose cone and tube fin design make this kit stand out on the ground and in the air! The Super Tube is recovered by a plastic 27" parachute. (Discount Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

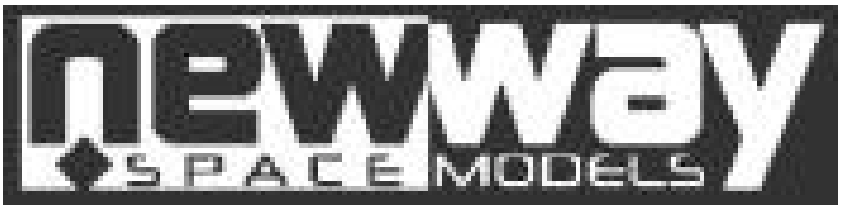
Face Card(s)

Instruction Header

Other Web Occurences

2012 Discount Rocketry

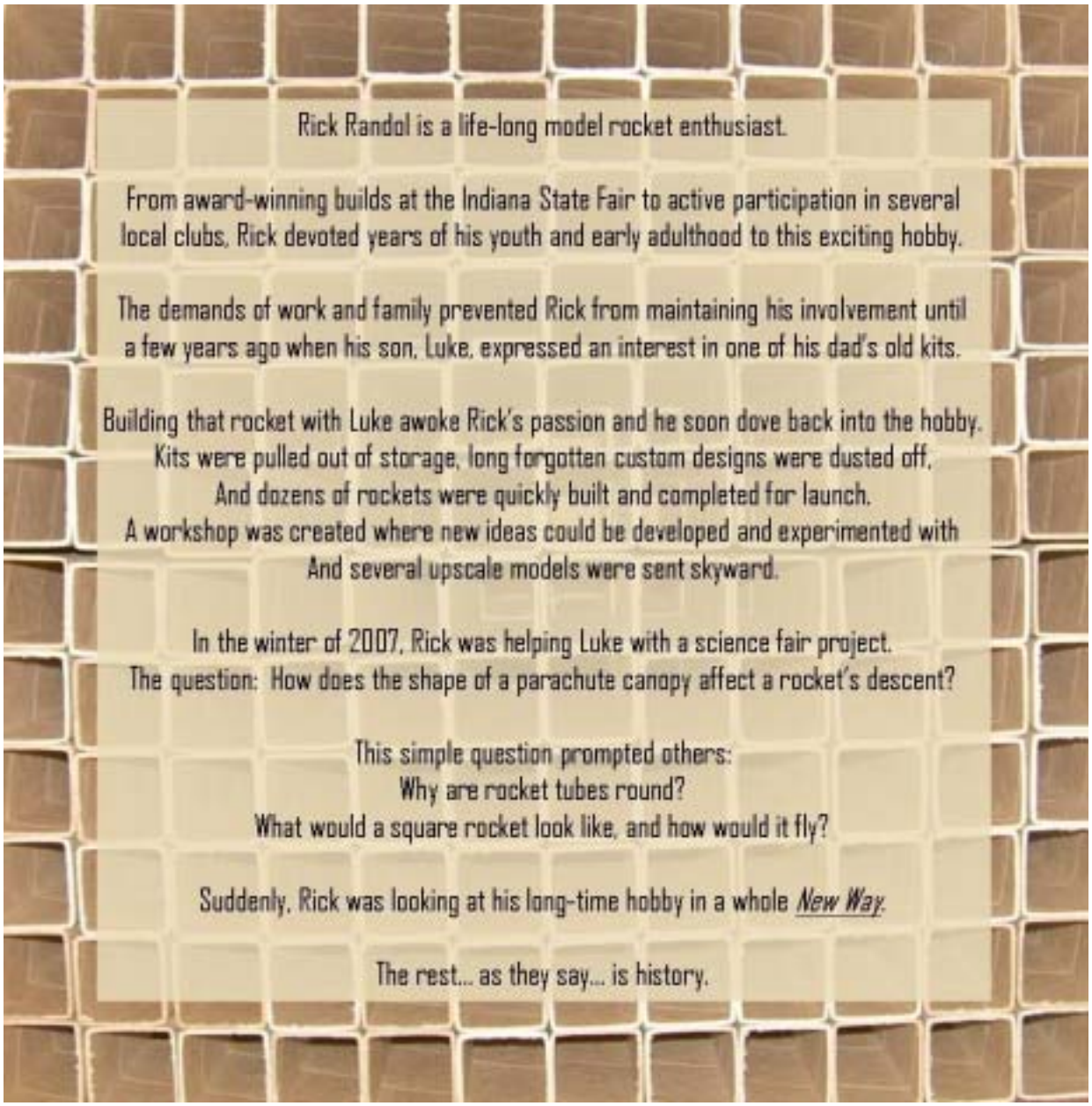
Also of interest: Tube Fin Family



New Way Space Models

http://www.newwayspacemodels.com/

About New Way



(Company Web Statement 2011)

Master List for **New Way Space Models** by Name

Quad Goblin

Quad Goblin

MODEL NAME: **Quad Goblin** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: This spooky little monster was designed for speed. So fast its scary! Its the rocket you'll need a good recovery team for. (New Way 2011 Web Ad)

Editorial Note:

Catalog Liveries

2011

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Estes Goblin Family

NORIS exclusiv von Thorwald Petersen
Raketenmodellbau

Noris Raketen

Noris Raketen
Siedlung 1a
92348 Berg-Richtheim
Germany

Tel./Fax: 09181/500815
http://www.noris-raketen.de/

Master List for **Noris Raketen** by Name

A-4 Peenemunde	#004

Master List for **Noris Raketen** by *Number*

#004	A-4 Peenemunde

A-4 Peenemunde (#004)

MODEL NAME: **A-4 Peenemunde** *Also known as*:

NUMBER: #004

Introduced:
Final Year:
Designer:

Type: Scale
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Catalog Liveries

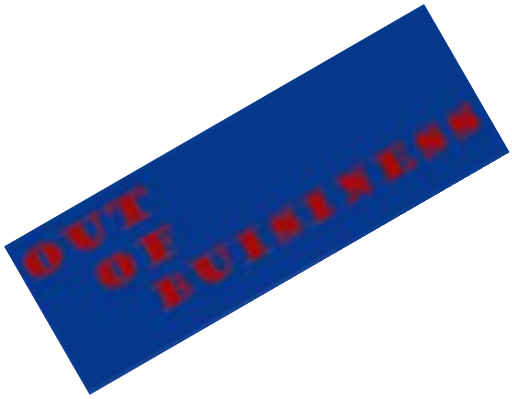
Web Liveries

2011

Face Card(s)

Also of interest: V-2 Family

North Coast Rocketry (NCR)



1366

Master List for **NCR** by Name

Aerobee Hi-Test	K-5	
Big Brute	#3508	
Big Brute	K-53	
Interceptor G	#3516	*Estes Upscale*
Lance Beta	K-47	
Patriot	#3512	
Patriot	K-85	
SA-14 Archer	K-76	

Master List for **NCR** by *Number*

#3508	Big Brute	
#3512	Patriot	
#3516	Interceptor G	*Estes Upscale*
K-5	Aerobee Hi-Test	
K-47	Lance Beta	
K-53	Big Brute	
K-76	SA-14 Archer	
K-85	Patriot	

Aerobee Hi-Test (K-5)

MODEL NAME: **Aerobee Hi-Test** *Also known as*:

NUMBER: k-5

Introduced:
Final Year:
Designer:

Out Of Production

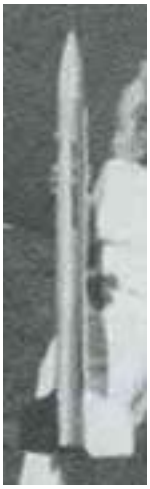
Type: Scale, Upscale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 2.6"
Span:
Weight: 17 oz

Mfg. Description: The NCR AEROBEE HI-TEST is a scaled up version of the Model Missiles, Inc. (MMI) model rocket kit that was made famous during the late 1950's. This "grown-up" version should really light smiles on the faces of "old timers" around your flying field! (NCR 1986 Catalog)

Editorial Note:

Catalog Liveries

1986


1987

1989

Other Printed Matter

NCR 1987 Catalog Cover

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Aerobee Sounding Rocket Family, MMI Aerobee Hi Family

Big Brute (K-53 or #3508)

MODEL NAME: **Big Brute** *Also known as*:

NUMBER: K-53 or #3508

Introduced: 1989
Final Year:
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 35"
Diameter: 4"
Span:
Weight: 16 oz

Mfg. Description: The perfect high power demo rocket! This rugged sport model can be flown nearly out-of-site on F motors, or punch it into orbit on a G! The Big Brute features slow, realistic take-offs, and is perfect for the new White Lightning motors! Recovery is by colorful 24" rip-stop nylon parachute. The Big Brute also incorporates our new Gorilla Shock Cord Mount. If you are looking for an impressive flying model, but have a small field, this should be perfect! (NCR 1989 Catalog)

Editorial Note:

Catalog Liveries

1989

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Interceptor G (#3516)

MODEL NAME: **Interceptor G** *Also known as*:

NUMBER: #3516

Introduced:
Final Year:
Designer:

Type: Exotic, Upscale
Motor Mount: 1x28.5mm
Recovery: Parachute
Stages: 1
Length: 46"
Diameter: 2.5"
Span:
Weight: 16 oz

Out Of Production

Mfg. Description: The INTERCEPTOR G lifts off with the excitement and power of powerful G motors! The interceptor G represents a futuristic manned interceptor concept in a flying model kit. Colorful decals, plastic molded detailing, and precision laser cut plywood parts make building a snap, with impressive results. (NCR 1996 Catalog)

Editorial Note:

Catalog Liveries

1996

Web Liveries

Face Card(s)

Also of interest: Estes Interceptor Family

Lance Beta (K-47)

MODEL NAME: **Lance Beta** *Also known as*:

NUMBER: K-47

Introduced: 1987
Final Year:
Designer:

Type: Pseudo-Scale, Payload
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 2.7"
Span:
Weight: 22 oz

Out Of Production

Mfg. Description: The Lance Beta represent a tactical missile for use across the world. Both a "demo" paint scheme and an operational olive drab paint scheme are featured, as well as realistic, detailed decals. The Lance Beta also features a large payload section that is perfect for beacons such as the XMTR-1. (NCR 1987 Catalog)

Editorial Note:

Catalog Liveries

1987

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

1374

Patriot (K-85 or #3512)

MODEL NAME: **Patriot** *Also known as*:

NUMBER: K-85 or #3512

Introduced: 1992
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 54.5"
Diameter: 4"
Span:
Weight: 32 oz

Mfg. Description: Here's a model that everyone will recognize! You can own a 1/4 scale of this historic lifesaver or the Persian Gulf War. Based around our 4" diameter tube, this big bird stands 54.5" tall and weighs in at 32 oz. It's low drag design minimizes weathercocking, yet there is plenty of stability margin. Three decal sheets and die cut fins are included to make building a snap. You can fly off of small fields with the short delay F motors or go for broke with G power! The Patriot features a ripstop nylon 36" parachute and 1/4" diameter launch lugs. (NCR 1992 Catalog)

Editorial Note:

Catalog Liveries

1992

1994

1996

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family

SA-14 Archer (K-76)

MODEL NAME: **SA-14 Archer** *Also known as*:

NUMBER: K-76

Introduced: 1990
Final Year:
Designer:

Type: Pseudo Scale
Motor Mount: 2x24mm + 1x29mm
Recovery: Parachute
Stages: 1
Length: 50"
Diameter: 4"
Span:
Weight: 28 oz

Mfg. Description: The SA-14 Archer is patterned after a prototype ship-to-air missile being developed for NATO. The large size and detailing are certain to attract a lot of attention. The SA-14 Archer includes balsa strakes, plywood fins and multicolor decals. The kit also features a core 29mm motor with twin 24mm mounts for extra versatility in choosing motor combinations; it can be flown both in single motor and cluster configurations. (NCR 1990 Catalog)

Editorial Note:

Catalog Liveries

1990

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Pemberton Technologies (PemTech)

Pemberton Technologies

P.O. Box 250760

Little Rock, AR 72225

http://pembertontechnologies.com/index.php

About Pemberton Technologies

Flash back with me, if you will, to a time when handsome, brave, wide shouldered, square jawed, homogenized white guys in jump suits made the universe safe for all mankind. Heroes such as Captain Video, Flash Gordon, Tom Corbett and Buzz Corry came to the rescue every week, thrashing bad guys and thrilling youngsters across the land.

From out of that Wonder Bread World of the 50´s, Pem-Tech brings you the coolest Science Fiction spaceships of all time: Sleek, silver, beauties like the Space Ark, M2–Mars Challenger and 3FNC as well as the glorious golden hotrods like Bucky Jones Space Cadet.

Pem-Tech has also begun offering more traditional sport rockets like the Kraken and the upcoming Screemin´ Green Meenie, for those of you not enamored by Science Fiction.

Pem-Tech kits are available in [LPR] low power (A, B, C and D black powder motors), [MPR] mid power (E, F, and G Ammonium Perchlorate motors) and [HPR] high power (H and I motors).

Pem-Tech has something for everyone, from the first time builder to the seasoned BAR looking for a challenge. So, trip on over to the Kits page and get the Pem-Tech rocket that is right for you.

(Company Web Statement 2012)

Master List for **Pemberton Technologies** by Name

King Kraken
Kraken

King Kraken

MODEL NAME: **King Kraken** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Layne Pemberton

Type: Tube Fin, Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 41"
Diameter: 3"
Span: 9.3"
Weight: 36oz

Mfg. Description: A Mid and High Power Creature from Ancient Sea Lore

The Pem-Tech King Krãken (pronounced krã'-kin), named for the dark, sinister creature of ancient sea lore, is a one of a kind sport flier featuring our unique, sculpted tube-fin design. She is as much a fantastic flying machine as she is a work of art, created by you. Unlike traditional, and boring, tube fins the King Kraken sports a long leading edge tube fin with a short full tube that has been reported to be 30% more stable than square cut tube fins. Large, long and lean with sexy flowing lines, the King Krãken will be sure to turn heads at your next launch.

Kit comes complete with 3" plastic nose cone, 3" heavy duty body and fin tubes, Heavy Duty 38mm motor mount capable of handling F-I impulse motors, massive plywood centering rings, monstrous 10' shock cord of 9/16" tubular nylon, 1/4" launch lugs, optional 28" chute, sleek 1/8” laser cut ply nose canards (for that sinister Squidlyness), and our infamous Destruction Manual. (PemTech 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2009

2012

Face Card(s)

Instruction Header

Also of interest: PemTech Kraken Family, Tube Fin Family

Kraken

MODEL NAME: **Kraken** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Layne Pemberton

Type: Tube Fin, Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 23"
Diameter: 1.6"
Span: 4.7"
Weight:

Mfg. Description: The Krãken (pronounced krã'-kin with a long A) is named after the dark and mysterious creature from the seagoing legends of yore. She is a sleek, black, shapely beauty, featuring our new and unique modified-tube fin construction. She is as much a fantastic flying machine as she is a work of art, created by you. Unlike traditional, and boring, tube fins the King Kraken sports a long leading edge tube fin with a short full tube that has been reported to be 30% more stable than square cut tube fins. Large, long and lean with sexy flowing lines, the Krãken will be sure to turn heads at your next launch.

Kit come complete with preimium balsa nose cone, nose canard pattern, balsa stock, two 18" body tubes for tube fins and airframe, 16" parachute, 60" KEVLAR shock cord, heavy-duty centering rings, extended 24mm motor mount, 1/4" launch lug and our infamous Destruction manual. (PemTech 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: PemTech Kraken Family, Tube Fin Family

Performance Rocketry (PR)

Performance Rocketry

883 Ragers Hill Rd

South Fork, Pa 15956

814-536-8491

sales@performancerocketry.com

http://www.performancerocketry.com/

Master List for **Performance Rocketry** by Name

1/2 Scale AMRAAM
Gizmo
Gizmo XL
1/4 Scale Nike Smoke
1/3 Scale Nike Smoke
1/4 Scale Patriot Missile
1/2 Scale Patriot Missile
1/5 Scale V-2

1/2 Scale AMRAAM

MODEL NAME: **1/2 Scale AMRAAM** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: AIM 120 AMRAAM Ordnance Family

Gizmo

MODEL NAME: **Gizmo** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 16.5"
Diameter: 5"
Span:
Weight:

Mfg. Description: 5" GIZMO
The Gizmo is a 5" diameter fiberglass rocket consiting of
Fiberglass 5" body tube 16" long
Fiberglass 54mm Motor Mount tube
Fiberglass Centering Rings X 2
Fiberglass Nose cone (Wildman Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Other Printed Matter

Also of interest: Performance Rocketry Gizmo Family

Gizmo XL

MODEL NAME: **Gizmo XL** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x75mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 8"
Span:
Weight:

Mfg. Description: GIZMO HAS A BIG BROTHER ITS THE GIZMO XL
This Kit is a wopping 8 inch diameter with a 75mm motor mount (Wildman Rocketry 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Performance Rocketry Gizmo Family

1/4 Scale Nike Smoke

MODEL NAME: 1/4 Scale Nike Smoke *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery:
Stages: 1
Length:
Diameter: 4"
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Nike Smoke Sounding Rocket Family

1/3 Scale Nike Smoke

MODEL NAME: **1/3 Scale Nike Smoke** *Also known as*: 5.5” Nike Smoke

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery:
Stages: 1
Length: 6' 6"
Diameter: 5.5"
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Nike Smoke Sounding Rocket Family

1/4 Scale Patriot Missile

MODEL NAME: **1/4 Scale Patriot Missile** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery:
Stages:
Length:
Diameter: 4"
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family

1/2 Scale Patriot Missile

MODEL NAME: **1/2 Scale Patriot Missile** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery:
Stages:
Length:
Diameter: 7.5"
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family

1/5 Scale V-2

MODEL NAME: **1/5 Scale V-2** *Also known as*: 11.5” V-2

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 8' 1"
Diameter: 11.67"
Span:
Weight: 50-100 lbs

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2005

2007

Face Card(s)

Instruction Header

Also of interest: V-2 Ordnance Family, V-2 Launch Vehicle Family

Polecat Aerospace (Doing Buisiness As What's Up Hobbies)

209-986-5829

9033 Rieti Lane

Stockton, CA, 95212

http://stores.whatsuphobby.com/StoreFront.bok

1 3 9 6

Master List for **Polecat Aerospace** by Name

AQM 37 Jayhawk (4”)	#21
Bullpup (4”)	#26
Bullpup (7.5”)	#4
Fat Man (5.5”)	#13
Fat Man (10”)	#10
Nike Smoke (4”)	#23
Nike Smoke (10”)	#6
Patriot MIM-104 (7.5”)	#1

Master List for **Polecat Aerospace** by Number

#1	Patriot MIM-104 (7.5”)
#4	Bullpup (7.5”)
#6	Nike Smoke (10”)
#10	Fat Man (10”)
#13	Fat Man (5.5”)
#21	AQM 37 Jayhawk (4”)
#23	Nike Smoke (4”)
#26	Bullpup (4”)

4” AQM 37 Jayhawk (#21)

MODEL NAME: **4” AQM 37 Jayhawk** *Also known as*:

NUMBER: #21

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: `1x38mm
Recovery: Parachute
Stages: 1
Length: 47"
Diameter: 4"
Span:
Weight: 3.5 lbs.

Mfg. Description: Mfg. Description: In the 1959, the Navy and Air Force issued a joint request for a new high-speed expendable target. Beechcraft won the competition, and the result was a small delta-winged drone with wingtip fins and a liquid rocket motor, originally designated XKD2B-1 but now known as the AQM-37. The type first flew in 1961, then entered service with the US Navy in 1963, and remains in service.

The original version was the AQM-37A or Beech Model 1019. There were several variants of the AQM-37 over the years. One high-performance variant with improved thermal protection attained a speed of Mach 4.7 and an altitude of over 112,000 feet (34 kilometers) on a ballistic trajectory. The final US Navy variant was designated AQM-37C. All variants are air-launched, with the US Navy traditionally using the F4 Phantom for the job.

More than 5,000 AQM-37 targets of all variants have been delivered since the early 1960s. The AQM-37C/D is still in limited production for the Navy.

The AQM-37's engine is built by Rocketdyne, though in some sources it is credited to Harley Davidson, the motorcycle manufacturer, which appears to be due to a sequence of company buyouts. The engine uses "storable" liquid propellants, in contrast to cryogenic propellants like liquid oxygen and liquid hydrogen that have to be loaded up just before launch lest they evaporate away. The problem is that the storable propellants in common use are corrosive, highly toxic, and "hypergolic", meaning that the propellants spontaneously ignite when mixed together.

This scale model if the AQM-37 offers a unique look and solid construction. With 1/4" baltic birch laser cut fins, through the wall fin design, a pre-cut mortise and tenon joint for the wingtips, laser-slotted fiberglassed body tube, and molded fiberglass nose cone and boat tail, the Jayhawk offers fast building, easy finishing, and great durability and performance.

The kit also features an upper slot in the body tube for a tab on the fin that makes assembly quick and easy, eliminating fin alignment issues for the longer fins. All fin leading edges are pre-beveled so a minimum of finish sanding is needed to get a great look.

Designed for H through J motors, the Hawk is a performs beautifully on L1 and L2 motors. The kit includes high-quality vinyl decals for a great finishing touch. (What’s Up Hobbies 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

Face Card(s)

Also of interest: AQM-37 Jayhawk Ordnance Family

4” Bullpup (#26)

MODEL NAME: **4” Bullpup** *Also known as*:

NUMBER: #26

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description: Unlike other Bullpup kits, the Polecat Aerospace Bullpups have the forward fins located on the nose cone where they belong, making the kit more scale. With through-the-wall fin construction for both the main and forward fins, the Bullpup is an amazingly strong rocket. With a 38mm motor mount it can accommodate motors up to J. (2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest:

7.5” Bullpup (#4)

MODEL NAME: 7.5” Bullpup *Also known as*:

NUMBER: #4

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x54mm or 1x75mm
Recovery: Dual Deploy Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Unlike other Bullpup kits, the Polecat Aerospace Bullpups have the forward fins located on the nose cone where they belong, making the kits more scale.

With through-the-wall fin construction for both the main and forward fins, the Bullpup is an amazingly strong rocket.

The 7.5" Bullpup comes with a 54mm motor mount and an optional 75mm. The kit comes dual-deployment ready, with a spacious in-coupler electronics bay. The rocket is shown here flying on an Aerotech L850 to 7,200'. (2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest:

1 4 0 2

5.5” Fat Man (#13)

MODEL NAME: **5.5” Fat Man** *Also known as*:

NUMBER: #13

Introduced:
Final Year:
Designer:

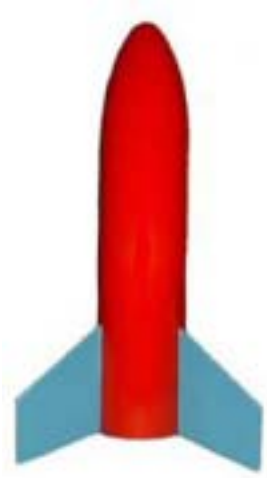
Type: Sport, Upscale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 27"
Diameter: 5.5"
Span:
Weight: 4.5 pounds

Mfg. Description: The little rocket that packs the big punch! Small in size but very versatile. The Fat Man has a 54mm motor mount and flys on motors from G through K impulse.

The Fat Man is a very easy build and a solid flyer. Go for the slow lift-off with a G80 or let it rip with a K1100. Able to support L1 and L2 certifications the Fat Man is a super rocket for beginner and expert alike! (Polecat 2011 Web Ad)

Catalog Liveries

Web Liveries



2011

Face Card(s)

Also of interest: Estes Fat Boy Family

10” Fat Man (#10)

MODEL NAME: **10” Fat Man** *Also known as*:

NUMBER: #10

Introduced:
Final Year:
Designer:

Type: Sport, Upscale
Motor Mount: 1x98mm
Recovery: Parachute
Stages: 1
Length: 51"
Diameter: 10"
Span:
Weight: 15.5 lbs

Mfg. Description: Turn some heads at the flying field! This rocket is the perfect size. Easy to transport and store, but capable for L3 action up to a full M.

This kit has a unique dual-deployment system that uses a zipper-less design and a piston-ejection system for the main. No more popping the main at apogee because of too much charge. The main is secured in the upper section of the extended motor tube and ejected firmly with a piston.

The Fat Man 10 has a 98mm motor mount and flys on motors from I through M impulse. The Fat Man is a very easy build and a solid flyer. Able to support L1, 2, and 3 certifications the Fat Man is a super rocket for beginner and expert alike!

Note: Despite what most simulations programs predict, this kit will NOT require any nose weight if build per the instructions, even on an M!

Specifications:

Height 51"
Diameter 10"
Motor mount 98mm
Dry weight 15.5 pounds
Motors "I" through "M" impulse
Parachute 70" to 96" (not provided) (What's Up Hobbies 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Fat Boy Family

4” Nike Smoke (#23)

MODEL NAME: **4” Nike Smoke** *Also known as*:

NUMBER: #23

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 58"
Diameter: 4"
Span:
Weight: 3.5 lbs

Mfg. Description: This 1/4 scale replica of the famous Nike Smoke is a rugged workhorse and a great level 1 and 2 rocket. Featuring a fiberglass nosecone, pre-fiberglassed and slotted body tube, Machined Baltic Birch fins and rings, and a full hardware package.

This rocket has a built weight of only 3.5 pounds, making it great for G through K motors. The kit is very easy to build and comes with fully illustrated instructions. Kit comes with rail guides for a standard rail.We recommend a 36" to 50" parachute. (What's Up Hobbies 2011 Web Ad)

Editorial Note:

Web Liveries

2011

Face Card(s)

Also of interest: Nike Smoke Sounding Rocket Family

10” Nike Smoke (#6)

MODEL NAME: **10” Nike Smoke** *Also known as*:

NUMBER: #6

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x98mm
Recovery: Dual Deploy Parachute
Stages: 1
Length: 11' 8"
Diameter: 10.25"
Span:
Weight: 29 pounds

Mfg. Description: This is a 2/3 scale replica of the famous sounding rocket from the 1950s and 1960s. One of the favorites of rocketry enthusiasts, the Nike Smoke is a very stable and great looking rocket. With a fiberglass nose cone, pre-fiberglassed and slotted body tubes, and machined Baltic Birch fins and rings, this kit is a quick build and a solid flyer. (Polecat 2011 Web Ad)

Editorial Note:

Web Liveries

2011

Face Card(s)

Also of interest: Nike Smoke Sounding Rocket Family

7.5” Patriot MIM-104 (#1)

MODEL NAME: **7.5” Patriot MIM-104** *Also known as*:

NUMBER: #1

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x75mm
Recovery: Dual Deploy Parachute
Stages: 1
Length: 8' 7"
Diameter: 7.5"
Span:
Weight: 19 Pounds

Mfg. Description: The MIM-104 Patriot is a surface-to-air missile (SAM) system, the primary of its kind used by the United States Army and several allied nations. It is manufactured by the Raytheon Company of the United States.

The Patriot System replaced the Nike Hercules System as the U.S. Army's primary high to medium air defense (HIMAD) platform , and replaced the HAWK System as the U.S. Army's medium tactical air defense platform. In addition to these roles, Patriot has assumed the role as the U.S. Army's anti-ballistic missile (ABM) platform, which today is Patriot's primary mission.

Patriot uses an advanced aerial interceptor missile and high performance radar systems. Patriot is the only ABM system to have successfully engaged and destroyed a tactical ballistic missile (TBM) in combat and the only SAM system which has successfully provided a maneuver force with tactical ballistic missile protection. (What's Up Hobby 2012 Web Ad)

Editorial Note:

Catalog Liveries

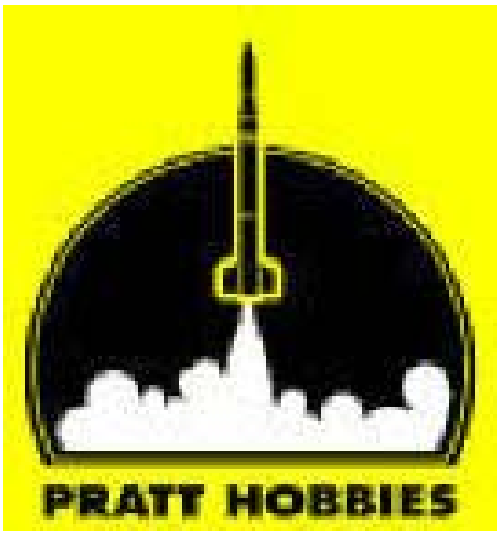
Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: MIM-104 Patriot Ordnance Family



Pratt Hobbies

Pratt Hobbies

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Herndon, VA 20171

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http://www.pratthobbies.com/

About Pratt Hobbies

Still Crazy after 18 years...

Pratt Hobbies will celebrate 20 years of operation this summer. Not bad for one crazy old guy in his basement.

I've been flying model rockets since 1960. In the late Seventies I worked for FSI, a rocket company based in Missouri. In between at least ten other careers, I wrote a book entitled "Basics of Model Rocketry," which was published in 1980 and became a best-seller by hobby standards. That led to writing eight other hobby books, while working as a magazine editor and association executive.

For some strange reason I was inspired to ruin my hobby by making a business out of it. The fact is, I get the same pleasure out of assembling a batch of gadgets that I used to get out of building model planes and rockets. There is a real thrill in exploring new ideas, cobbling something together, figuring out why it didn't work, and figuring out the best way to make 20 of them at a time.

Pratt Hobbies is a family business even though our principal source of child slave labor has left to go to school. Son Brian did a year and a half at Lassen College in Susanville, California, in the oldest and most-respected gunsmithing program in the country, and is now developing a career as a machinist. Daughter Valerie graduated this year from Randolph-Macon Academy, a 120-year old military college prep school in Front Royal, VA. She will be attending Messiah College in Grantham, PA in the fall, majoring in Politics, appropriately enough for a kid who was Captain of the Debate Team and won five national events. High school debate is amazing and Val ran a great team. We even did a talk show on a radio station in Front Royal; you can find podcasts at rmadebate.blogspot.com.

Dad still has his day job, but dreams of doing this nonsense full time when the kids are through school. The way both the kids and the business are growing, it could happen.

Looking back, I can say it's been a pure pleasure to work with so many enthusiastic people over the years. We have the finest customers in any business I can imagine, and we're all here for the same reason: to have fun. I have boxes with hundreds of letters from teachers, Scoutmasters, school kids, 4-H clubs, every group you can imagine, all excited about their rockets. On the other side of things, NASA is using an RTLS launch system to fire hybrid motors at Wallops Island. Life is good.

Thanks to you all.

Doug Pratt

(Company Web Statement 2011)

Master List for **Pratt Hobbies** by Name

D Region Tomahawk (MMX)

D Region Tomahawk (MMX)

MODEL NAME: **D Region Tomahawk (MMX)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x6mm
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: D Region Tomahawk Sounding Rocket Family

Public Missiles LTD (PML)

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810-327-1712 Fax (24 hrs./7 days)

888-PUBLICM Orders ONLY (9-5pm EST M-F)

http://publicmissiles.com

About PML

The success of our enterprise is only as good as the people behind it. Pictured above are the passionate people who have made PML the number one high-power rocketry company in the world.

Our mission statement is simple: "Design and manufacture the best rockets in the world and give our customers the best possible service. Period."

My name is Frank R. Uroda. I've been designing, building, and flying rockets of all sizes for over 20 years. Along the way, I've learned a thing or two about building strong and nicely finished models. I discovered very early on when beginning to get into larger motors that using F motors and bigger in standard models produces large amounts of confetti and "sky writing". Even before the debris hit the ground, I knew I had to find an alternative.

At first, heavy duty cardboard tubing, plywood fins and epoxy became the new materials of choice. I was on the right track, but there were still some problems. Almost every time I flew one of my "new and improved" rockets, even after a perfect flight, there seemed to be some kind of repair to be done. A broken fin, a kinked airframe, or damaged motor mount. I thought that I was doing something wrong, but most of my "rocket buddies" that had also ventured into higher power levels were having the same problems.

Hundreds of phone calls, scores of dead ends, and dozens of samples later, I finally found the right airframe/motor mount material, and it was the right price...phenolic tubing. The more I worked with it, the more I liked it. I eventually began building rockets for my buddies with the new materials. This then led to component manufacturing, the creation of PML as a company, and eventually complete kits. Gerald Kolb and Frank formed PML "the company" back in 1990, and have had almost 12 years of success together. However, in the Fall of 2001, Jerry decided to pursue other opportunities available to him outside of PML, and Frank became the sole owner and proprietor. Frank has always been the lead project designer and production engineer, so you can be confident that you'll still get the same great quality, unique systems, and innovation that PML has built it's reputation on.

From the beginning PML have devoted ourselves to researching, developing, and marketing new materials and components.

(Company Web Statement 2011)

Master List for **PML** by Name

Bulldog (6”)
Bull Puppy
Bull Puppy 2.1

Bulldog (6”)

MODEL NAME: Bulldog (6”) *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x54mm (upgrades to 75mm or 98mm)
Recovery: Parachute
Stages: 1
Length: 74"
Diameter: 6"
Span:
Weight: 170 oz

Mfg. Description: The Bulldog is a great "semi-scale" representation of the famous Bullpup missile. The Bulldog comes standard with two great PML hand-laid fiberglass nosecones (with one converted to a pre-slotted boattail for an easy build, great looks, and super drag-reducing performance), a 54mm motor mount, 0.093" G-10 fins, and a 72" parachute. The `Dog can fly on motors from a J180 through a K700 stock! The Bulldog has the usual PML high quality features of a phenolic airframe, piston ejection system, tubular nylon shock cord, and more. (PML 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: AGM-12 Bullpup Ordnance Family

Bull Puppy

MODEL NAME: **Bull Puppy** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 39"
Diameter: 3"
Span:
Weight: 32oz

Mfg. Description: Based on the U.S. Air Force`s Bull Pup missile, this kit is visually exciting on the ground as well as in flight! It`s perfect for beginners and experienced rocketeers alike. Don`t let the name fool you, this puppy is equipped with a 38mm motor mount and can be flown with 29mm motors using the optional motor adapter ADPTR-38/29. 39" tall and weighs approximately 32 oz. Can be flown on G through I motors.

Dado-slotted Quantum Tube airframe for canard fins
Pre-slotted plastic boattail
G-10 Fiberglass fins
38mm motor mount
Both original and military-style decals included
Piston ejection system
Multi-panel nylon parachute
Plastic nose cone
Thin-wall brass launch lug (PML 2012 Web Ad)

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: AGM-12 Bullpup Ordnance Family

Bull Puppy 2.1

MODEL NAME: Bull Puppy 2.1 *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 28"
Diameter: 2.1"
Span:
Weight: 20oz

Mfg. Description: Based on the U.S. Air Force`s Bull Pup missile, the Bull Puppy 2.1 is the latest addition to the Bull family of rocket kits. A great starter kit with excellent styling and performance. This puppy is perfect for pre-cert F and G flights and smaller fields. Comes complete with military style decals and a pre-slotted plastic boattail. 28" tall and weighs approximately 20 oz. Can be flown on F through H motors.

Dado-slotted Quantum Tube airframe for canard fins
Pre-slotted plastic boattail
G-10 Fiberglass fins
29mm motor mount
Military-style decals included
Piston ejection system
Multi-panel nylon parachute
Plastic nose cone
Thin-wall brass launch lug (PML 2012 Web Ad)

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: AGM 12 Bullpup Ordnance Family

QMODELING

QModeling

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About QModeling

The team at QModeling has an extensive Engineering background in Electrical, Computer Control, Mechanical, and Manufacturing Systems. From this custom work a variety of unique products have emerged that carry the QModeling brand name.

Currently QModeling is focusing on developing and selling the highest quality and most fun model rocket kits available. We hope you agree!

(Company Web Statement 2008)

Master List for **QModeling** by Name

NIKEX	*Retro MEGA*
Rogue	*Retro MEGA*

NIKEX

MODEL NAME: **NIKEX** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Pseudo Scale, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 45.875”
Diameter: 2.6"
Span: 10.09”
Weight: 13.3 oz

Mfg. Description: The NIKEX is one of QModeling's top quality sports class model rocket kits. The NIKEX is a large scale recreation of the awesome Estes™ NIKE-X. The original Nike-X boomed the skies in the 1970's.

QModeling has created a MEGA BT-80 version of this classic that enables the use of E or F size (24mm) rocket motors for spectacular launches. The NIKEX is a 1.96:1 MEGA scale of the original NIKE-X making it over 45 inches tall. Combined with QModeling's high quality laser cut parts and renowned easy step-by-step instructions your own NIKEX could be thundering into the sky in no time.

QModeling's NIKEX comes with a unique retractable Engine Hook eliminating the annoying problem of not being able to display your powerful bird on a flat surface without a stand. The kit includes QModeling's BT-80-Ogive Nose Cone produced from their high quality nose cone liquid plastic process. Making a substantial investment in an aluminum large mold to produce a BT-80 size nose cone is another example of QModeling's quest to offer the highest quality kits on the market.

Like the other MRS kits, QModeling's has broken the deployment barrier by offering a wad-less high performance Recovery System based on a partnership with Top Flight Recovery. It consists of a 30” Octagon, Thin Mil, Ripstop Nylon Parachute with sewn in 24” Nylon shroud lines, Nomex® 9” x 9” Heat Shield Parachute Protector, 9’ Kevlar® Shock Cord, and a Snap Swivel. Now there is no need to search out any after market recovery system components, because QModeling builds top quality into all aspects of their kits. (QModeling 2006 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2006

Face Card(s)

Instruction Header

Also of interest: Estes Nike-X Family, QModeling Retro MEGA Family

Rogue

MODEL NAME: **Rogue** *Also known as*: Mega Rogue

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport, Pseudo-Scale, Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 29"
Diameter: 1.637"
Span: 9.88"
Weight: 5.8 oz

Mfg. Description: The ROGUE is one of QModeling's top quality sports class model rocket kits. The ROGUE is a large scale recreation of the ½ A Estes™ Rogue. The original Rouge torched the skies in the late 1970's.

QModeling has created a MEGA BT-60 version of this classic that enables the use of both D and E size (24mm) rocket motors for spectacular high altitude launches. The ROGUE is a 2.22:1 MEGA scale of the original Rogue making it over 29 inches tall. Combined with QModeling's high quality laser cut parts and renowned easy step-by-step instructions your own ROGUE could be breaking altitude records in no time.

QModeling's ROGUE comes with a their unique Engine Mount eliminating annoying Primary Fin alignment problems while providing a very robust easy to build design. The kit includes QModeling's BT-60-TAP Nose Cone produced from their high quality nose cone liquid plastic process. The kit comes with a painting stencil that can optionally be used instead of the provided Primary Fin “33” Decal. This is another example of QModeling listening to customers in order to improve the overall quality of their kits.

Like the other MRS kits, QModeling has broken the deployment barrier by offering a wadless high performance Recovery System based on a partnership with Top Flight Recovery. It consists of an 18” Octagon, Thin Mil, Ripstop Nylon Parachute with sewn in 24” Nylon shroud lines, Nomex® 5” x 5” Heat Shield Parachute Protector, 9’ Kevlar® Shock Cord, and a Snap Swivel. Now there is no need to search out any after market recovery system components, because QModeling builds top quality into all aspects of their kits.

Features

True Scale MEGA Replica of the Original Classic
Over 29" Tall
Authentic Nose Cone
Laser Cut Parts
Designed to use D, E, or F Size (24mm) Engines
Foil lined Engine Mount Tube for long life
Robust Interlocking Design
18” Octagon, Thin Mil, Ripstop Nylon Parachute

5” x 5” Nomex® Chute Protector
9’ Kevlar® Shock Cord
Snap Swivel
Detailed Step-by-Step Instructions (QModelling 2006 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2006

Face Card(s)

Instruction Header

Also of interest: Estes Rogue Family, QModeling Retro MEGA Marketing Family

Quest Aerospace

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About Quest

We are located in Pagosa Spring, Colorado. We have serviced our customers via retail outlets and direct mail order since the spring of 1991. Our online service was introduced in 2006. We work with schools and organizations providing a quality product at a discounted price.

(Company Web Statement 2011)

Master List for **Quest** by Name

Cobalt	#1021	
High-Q	#5012	*Advanced Rocketry*
Little Joe (MMX)	#5611	
Striker AGM	#2020	

Master List for **Quest** by Number

#1021	Cobalt	
#2020	Striker AGM	
#5012	High-Q	*Advanced Rocketry*
#5611	Little Joe (MMX)	

Cobalt (#1021)

MODEL NAME: **Cobalt** *Also known as*:

NUMBER: #1021

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 7.5in / 19cm
Diameter: 1.58in / 40cm
Span:
Weight: 9.00OZ

Mfg. Description: Short, Fat, and Fun (can we say that?) The short length of this rocket makes it only flyable on "A" size engines. If you fly it with a "B" or "C", then you will need to add nose weight (not included). (Quest 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header(s)

Also of interest:

High-Q (#5012)

MODEL NAME: **High-Q** *Also known as*:

NUMBER: #5012

Introduced: 2010
Final Year:
Designer: Scott Branche

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 30.5in / 77.5cm
Diameter: 1.97in / 50mm
Span:
Weight: 30.00OZ

Mfg. Description: Big and Sleek!

Flies on "D", "E", and "F" motors.

High-Q is a great looking and performing mid-size rocket. Over 30 inches tall, the kit features blowmolded plastic nose cone, laser-cut balsa fins and a rugged 29mm diameter motor mount. Flights with an Aerotech F32-6W will go to almost 3,000 feet. Then your High-Q will recover gently on the big 18" fabric parachute. Includes big, easy-to-apply self adhesive decals. Also includes 24mm engine mount adapter that allows you to use 24mm diameter engines.

Recommended Motors: D12-3, D12-5, E9-4, E9-6 - Aerotech E20-4W, E20-7W, F32-6W, F20-7W.

NOTE: Quest does not currently produce a rocket motor to fly the High-Q with. We will have the Aerotech line of rocket motors available on our website soon.

This rocket designed by internationally famous designer Scott Branche (Quest 2012 Web Ad)

Editorial Note:

Catalog Liveries

2010

Web Liveries

2012

Face Card(s)

Instruction Header(s)

Also of interest: Quest Advanced Rocketry Marketing Family

Little Joe (MMX) (#5611)

MODEL NAME: **Little Joe** *Also known as*: MMX Little Joe

NUMBER: #5611

Introduced:
Final Year:
Designer:

Type: Scale, RTF
Motor Mount: 1x6mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Also of interest: Little Joe II Launch Vehicle Family

Striker AGM (#2020)

MODEL NAME: **Striker AGM** *Also known as*:

NUMBER: #2020

Introduced:
Final Year:
Designer:

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 27.7"
Diameter: 1.38"
Span:
Weight:

Mfg. Description:

Catalog Liveries

2010

Web Liveries

2011

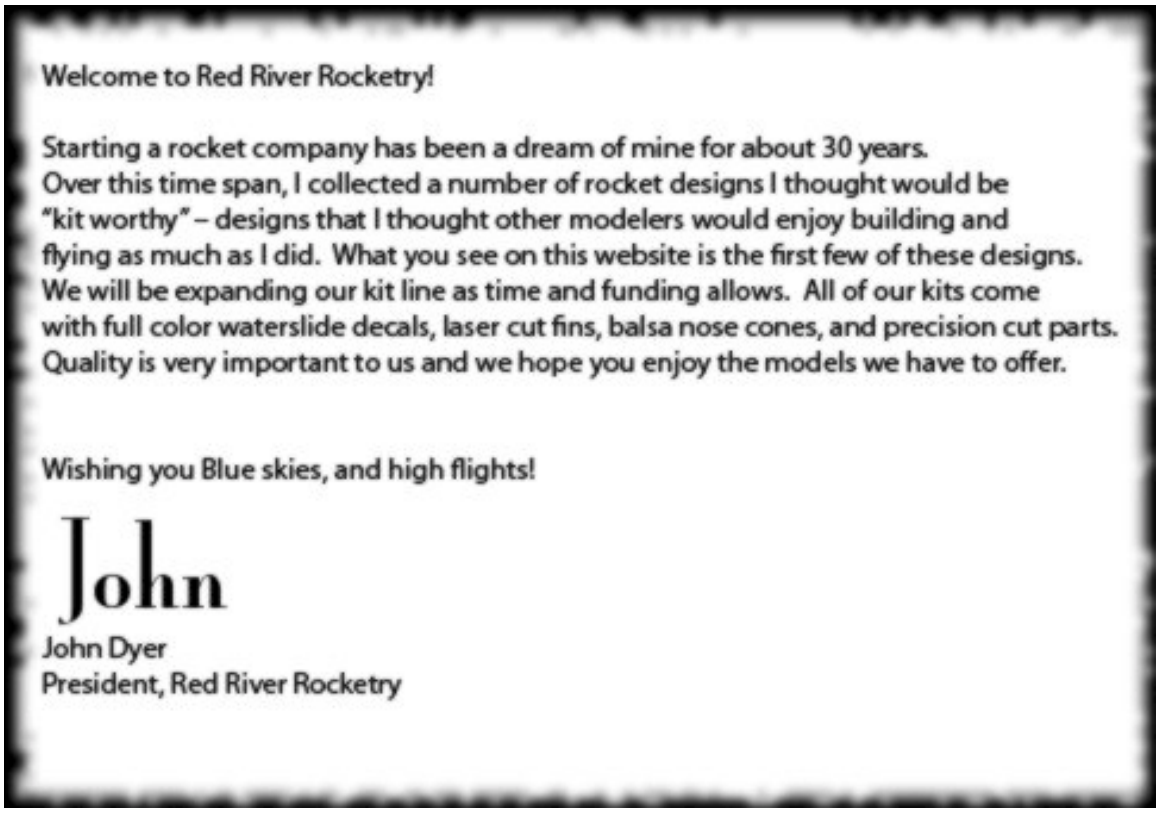
Also of interest: Enertek Astra 2000 Family

Red River Rocketry

Red River Rocketry

http://www.redriverrocketry.com/

About Red River Rocketry



Welcome to Red River Rocketry!

Starting a rocket company has been a dream of mine for about 30 years. Over this time span, I collected a number of rocket designs I thought would be "kit worthy" – designs that I thought other modelers would enjoy building and flying as much as I did. What you see on this website is the first few of these designs. We will be expanding our kit line as time and funding allows. All of our kits come with full color waterslide decals, laser cut fins, balsa nose cones, and precision cut parts. Quality is very important to us and we hope you enjoy the models we have to offer.

Wishing you Blue skies, and high flights!

John

John Dyer
President, Red River Rocketry

(Company Web Statement 2012)

Master List for **Red River Rocketry** by Name

StarLiner DST	K-005

Master List for **Red River Rocketry** by *Number*

K-005	StarLiner DST

StarLiner DST (K-005)

MODEL NAME: **StarLiner DST** *Also known as*:

NUMBER: K-005

Introduced:
Final Year:
Designer: John Dyer

Type: Esotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15.0 in. (381mm)
Diameter: 0.976 in. (24.79mm)
Span:
Weight: 1.0 ounces (25g)

Mfg. Description: The earth vessel, StarLiner DST, was launched as a transport vehicle between the Terran and Alpha-Centauri star systems. By utilizing focused atomic explosions, this craft speeds between the two solar systems at half the speed of light. But as the StarLiner DST travels, another craft is hunting it as its prey - a Predator. (Red River 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

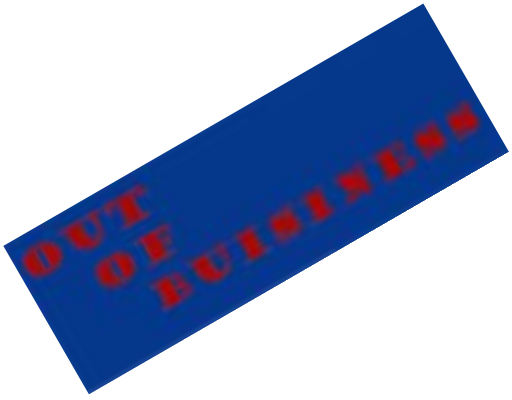
Instruction Header

Also of interest:

Retro Rocketry

www.RetroRocketry.com

Retro Rocketry



1 4 4 6

Master List for **Retro Rocketry** by Name

Mini Blue Max	
Mini Red Max	#0651-RS

Master List for **Retro Rocketry** by Number

#0651-RS	Mini Red Max

Mini Blue Max

MODEL NAME: **Mini Blue Max** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 7.25"
Diameter: 0.736"
Span:
Weight: 5/8 oz

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Estes Der Red Max Family

Mini Red Max (#0651-RS)

MODEL NAME: **Mini Red Max** *Also known as*:

NUMBER: #0651-RS

Introduced:
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 7.25"
Diameter: 0.736"
Span:
Weight: 5/8 oz

Out Of Production

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Estes Der Red Max Family

Roachwerks Custom Turnings

Gordon Agnello

7205 Roach Road

Lexington, Michigan 48450

gagnello@yahoo.com

http://roachwerksmachining.com.istemp.com/index.html

1450

About Roachwerks

I can make just about any design in wood or other soft media primarily for Hobby Rocketry as long as it is mostly round. I specialize in Upscale or Downscale of common nose cone shapes but my first love is Scale.

Send me a sketch, drawing, jpeg, a PDF, a dxf or a dwg (CAD) file and I can send you an estimate of what it will cost for me to make your part

Price will depend on the amount of work the part will require to complete and how big a piece of material (wood, foam) I will need to begin with.

From the top left to right. Two BT-60 Ram Jet cones for a BOMARC, one of Lockheed's capsule ideas, X-20 Dynasoar, a BT-80 Goblin cone, a Crayon cone, an upscale of the Estes dropnose cone, a Vostok nose cone, a BT-101 Apollo Capsule and a Soyuz nose cone from one of my kits.

I can provide CAD drawing if you need them for pre-approval.

(Company Web Statement 2011)

Master List for **Roachwerks** by Name

Nike Ajax (13mm)
Nike Ajax (18mm)
Orbital Transport
Saturn 1B
Vostok

Nike Ajax (13mm)

MODEL NAME: **Nike Ajax (13mm)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Gordon Agnello

Type: Scale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Nike Ajax Ordnance Family

Nike Ajax (18mm)

MODEL NAME: **Nike Ajax (18mm)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Gordon Agnello

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Nike Ajax Ordnance Family

Orbital Transport

MODEL NAME: **Orbital Transport** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Boost Glider, Clone
Motor Mount: 1x18mm
Recovery: Glide/Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Orbital Transport Family

Saturn 1B

MODEL NAME: Saturn 1B *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Gordon Agnello

Type: Scale
Motor Mount:
Recovery: Parachute
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Saturn 1B Launch Vehicle Family

Vostok

MODEL NAME: **Vostok** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Gordon Agnello

Type: Scale
Motor Mount:
Recovery: Parachute
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

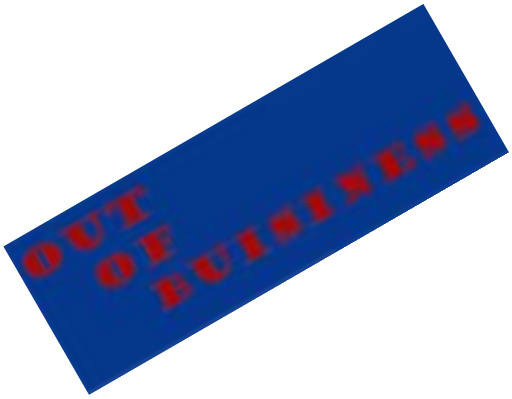
Web Liveries

Face Card(s)

Instruction Header

Also of interest: Vostok Launch Vehicle Family

Rocket Vision



Master List for **Rocket Vision** by Name

Machbuster

Machbuster

MODEL NAME: **Machbuster** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport, Machbuster
Motor Mount: 1x24mm
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

1460

Rocketarium.com

ROCKETARIUM.COM INC
2200 KINGS HWY UNIT 3L PMB 15
PT CHARLOTTE, FL 33980-5761

Tel: (941) 268-2724

http://www.rocketarium.com/

Master List for **Rocketarium.com** by Name

AMRAAM 120A	RK-AMRAA

Master List for **Rocketarium.com** by *Number*

RK-AMRAA	AMRAAM 120A

AMRAAM 120A (RK-AMRAA)

MODEL NAME: **AMRAAM 120A** *Also known as*:

NUMBER: RK-AMRAA

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 34.17"
Diameter: 1.637" (BT60)
Span: 5.61"
Weight: 4.3 oz

Mfg. Description: **AMRAAM AIM 120A Scale Rocket Kit**

This is a sport-scale version of the popular Advanced Medium-Range Air-to-Air Missile.

The actual missile is powered by solid-propellant rocket motors. The rocket kit flies on motors ranging from a D12-5 to an F42-7.

The AMRAAM 120A kit includes a parachute kit for recovery, balsa stock for fins, and three plywood centering rings.

The many small decals add lots of detail to this flying model rocket kit.

Challenges

The AMRAAM has a tailcone which is formed from a cardstock template. This makes it a Skill Level 4 rocket kit.

There are lots of small decals/ printed on a single decal sheet. Cutting out and handling the small decals can take time.

Parts

The AMRAAM AIM 120A includes laser-cut plywood centering rings, plastic translucent nose cone, balsa fin stock, fin templates, 15" plastic parachute kit. (Rocketarium.com 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: AIM 120 AMRAAM Ordnance Family

Rocketry Warehouse

Rocketry Warehouse

971 Soaphollow Rd

Hollsopple, Pa 15935

USA

Tel: 814-270-2381

E-mail Contacts:

Business Relations - sales@rocketrywarehouse.com

Product Inquiries - sales@rocketrywarehouse.com

Order Status - sales@rocketrywarehouse.com

http://rocketrywarehouse.com/index.php

Master List for **Rocketry Warehouse** by Name

Flying Pumpkin	EK-FP-G12
Formula 54	
Formula 75	
Formula 98	
Formula 150	

Master List for **Rocketry Warehouse** by Number

EK-FP-G12	Flying Pumpkin

Flying Pumpkin (EK-FP-G12)

MODEL NAME: **Flying Pumpkin** *Also known as*:

NUMBER: EK-FP-G12

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Specs:

Over 28 InchesTall
Built Weight Just Over 5 Lbs
Pre Colored Parts
CNC Precision Cut Parts
CNC Precision Slotted
Flies on anything from H to L
Perfect for Level 1 or Level 2 (Rocketry Warehouse 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest:

Formula 54

MODEL NAME: **Formula 54** *Also known as*:

NUMBER:

Introduced: 2010
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Kit includes:

- 54mm Fiberglass 5:1 Von Karman Nosecone
- 54mm G12 Fiberglass Airframe 21 inches
- 29mm Motor Mount G12 Fiberglass 7 Inches
- 3 G10 Fiberglass 1/16" Thick Fins
- G10 Fiberglass Centering Rings
- G10 Fiberglass Bulk Plate
- Decals

This kit Features

- Precision routed fin slots
- Flies on anything from an F to an I
- Weight Just over 1 Lb
- 33 Inches Tall
- All Fiberglass design

Great for that Cert level 1 (Rocketry Warehouse 2012 Web Ad)

Editorial Note:

Catalog Liveries

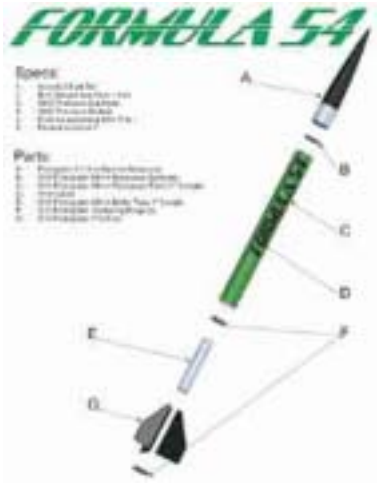
Web Liveries

2012

Face Card(s)

Instruction Header

Other Printed Matter



2012 Brochure

Also of interest: Rocketry Warehouse Formual X Family

Formula 75

MODEL NAME: **Formula 75** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Kit includes:

- 3 Inch Black Filament Wound 5:1 Von Karman Nosecone
- 3 Inch G12 Colored Fiberglass Airframe 30 inches
- 38mm Motor Mount G12 Colored Fiberglass 10 Inches
- 3 G10 Fiberglass 3/32" Thick Fins
- G10 Black Fiberglass Centering Rings
- G10 Black Fiberglass Bulk Plate
- Decals Black

This kit Features

- Beautiful Lemon Yellow color
- Needs no paint
- Precision routed fin slots
- Flies on anything from an G to an J
- Weight Just over 3 Lb
- 4 Feet Tall
- All Fiberglass design

Great for that Cert level 1 or 2 (Rocketry Warehouse 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

2012 Alternate

Face Card(s)

Instruction Header

Also of interest: Rocketry Warehouse Formula X Family

Formula 98

MODEL NAME: **Formula 98** *Also known as*:

NUMBER:

Introduced: 2012
Final Year:
Designer:

Type: Sport
Motor Mount: 1x98mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: This kit Features

Beautiful color tubing
Standard Dual Deploy
Needs no paint
Precision routed fin slots
Flies on anything from an I to an K
Weight aprox 8 Lb
Over 5 Feet Tall
All Fiberglass design (Rocketry Warehouse 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Other Printed Matter

2012 Brochure

Also of interest: Rocketry Warehouse Formula X Family

Formula 150

MODEL NAME: **Formula 150** *Also known as*:

NUMBER:

Introduced: 2012
Final Year:
Designer:

Type: Sport
Motor Mount: 1x75mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Kit includes:

- 6 Inch Black Filament Wound 5:1 Von Karman Nosecone
- 6 Inch G12 Colored Fiberglass Airframe 24 inches
- 6 Inch G12 Colored Fiberglass Coupler 12 inches
- 6 Inch G12 Colored Fiberglass Airframe 36 inches
- 75mm Motor Mount G12 Colored Fiberglass 22 Inches
- 3 G10 Fiberglass 3/16" Thick Fins
- G10 Black Fiberglass Centering Rings
- G10 Black Fiberglass Bulk Plates
- Decals Black

This kit Features

- Beautiful color tubing
- Standard Dual Deploy
- Needs no paint
- Precision routed fin slots
- Flies on anything from an l to an m
- Weight aprox 28 Lb
- Almost 8 Feet Tall
- All Fiberglass design

Great for that Cert level 2 or 3 (Rocketry Warehouse 2012 Web Ad)

Editorial Note:

Catalog Liveries

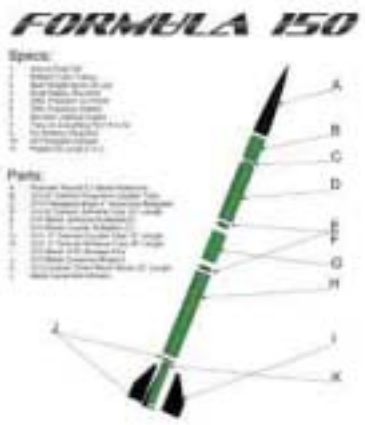
Web Liveries

2012

Face Card(s)

Instruction Header

Other Printed Matter



Also of interest: Rocketry Warehouse Formula X Family

Rocwerks

http://rocwerks.ecrater.com/

Master List for **Rocwerks** by Name

Reactor	#101

Master List for **Rocwerks** by *Number*

#101	Reactor

Reactor (#101)

MODEL NAME: **Reactor** *Also known as*:

NUMBER: #101

Introduced: 2012
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 24"
Diameter: 2.2"
Span:
Weight:

Mfg. Description: Brand New designer, premiere kit! The Reactor measures 24 inches tall 2.14 2.23 Dia; the kit includes:

- 18 inch Top Flight X-type parachute
- Ejection baffle
- 1/8 laser cut ply fins
- 1/8 ply centering rings
- 24MM heavy motor mount
- 2.2" dia Body tubes BT-70
- Balsa nose cone
- Engine hook
- 48 inch elastic shock cord
- Stickershock vinyl decals
- Complete instructions with diagrams

The rocket is designed for D through F motors. Be the first to own this rocket! More kits coming soon! (Rocwerks 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

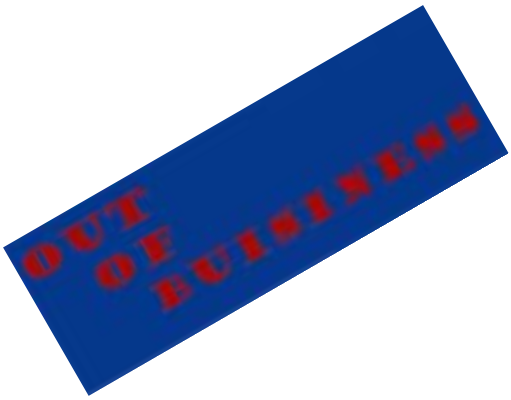
2012

Face Card(s)

Instruction Header

Also of interest:

Schoolyard Rockets



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Master List for **Schoolyard Rockets** by Name

Honest John

Honest John

MODEL NAME: **Honest John** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family

Semroc Astronautics Corporation

Box 1271

Knightdale, NC 27545

(919) 266-1977

FAX (919) 341-8652

http://www.semroc.com

About Semroc

Semroc is the newest "old model rocket company." Originally starting in November 1967 and after a 31 year "quiet phase", Semroc now qualifies as a B.A.R.M. (Born-Again-Rocket-Manufacturer) Although there have been many exciting changes in the Consumer and Sport Rocketry field during the last thirty years, we want to help keep the roots of Model Rocketry alive. Inspired by the internet and much more modern equipment than was available in the late 1960's, we will be trying to recapture the fun that brought us to where we are today. We have built and launched all types of rockets from 1/4A through M impulse since 1959 so we understand the full range of consumer rocketry.

(Company Web Statement 2011)

Master List for **Semroc** by Name

Aerobee Hi	KV-2	*MMI Retro Repro*
Apehelion		
Arcas	KS-8	
Arcon	KV-7	*Centuri Retro Repro*
Arcon-Hi	KV-15	*Centuri Retro Repro*
Astro-1	KV-30	*Centuri Retro Repro*
Astron		
Baby Orion	KA-31	*Centuri Downscale*
BatRok	KV-53	*Centuri Retro Repro*
Centaur	KV-12	*Centuri Retro Repro*
Centurion	KV-40	*Centuri Retro Repro*
Defender Space Probe	KV-60	*Centuri Retro Repro*
Excalibur	KV-43	*Centuri Retro Repro*
Goblin	KV-80	*Estes Retro Repro*
Golden Scout	KV-4	*Golden Scout*
Hydra One	KA-18	
Hydra VII	KB-7	
Hydra VII	KV-29	*Semroc Retro Repro*
IQSY Tomahawk	KD-2	*Deci Scale*
Iris	KD-4	*Deci Scale*
Javelin	KV-16	*Centuri Retro Repro*
Laser-X	KV-33	*Centuri Retro Repro*
Lil' Hercules	KV-14	*Centuri Retro Repro*
Lil' Ivan		
Little Joe II	KS-3	*Estes Retro Repro*
Magnum Hornet	KV-69	*Centuri Retro Repro*
Marauder	KV-32	*Centuri Retro Repro*
Mark	XES-K2	*Estes Retro Repro, xKit*
Mark II		
Micron	KV-8	*Centuri Retro Repro*
Mini Exlorer	KA-22	*Centuri Downscale*
Mini Hustler	KA-20	*Centuri Downscale*
My Boid		
Nike X		
Omega	KV-64	*Estes Retro Repro*
Orbital Transport	KV-66	*Estes Retro Repro*
Recruiter Space Probe	KV-22	*Centuri Retro Repro*
Saturn 1B	KS-1	*Estes Retro Repro*
SLS Aero-Dart	KV-6	*Centuri Retro Repro, SLS*
SLS Arcas	KS-5	*SLS*
SLS Explorer	KV-56	*Centuri Retro Repro, SLS*
SLS Hustler	KV-11	*Centuri Retro Repro, SLS*
SLS Javelin	KLV-16	*Centuri Upscale, SLS*
SLS Laser-X	KLV-33	*Centuri Upscale, SLS*
SLS Lil’ Hustler	KV-57	*Centuri Retro Repro, SLS*

Snipe Hunter	KV-51	*Centuri Retro Repro*
Spaceman	XES-K9	*Estes Retro Repro, xKit*
Squire		
SST Shuttle-1 xKit	XCE-K17	*Centuri Retro Repro, xKit*
Starfire	KV-20	*Centuri Retro Repro*
Starship Vega	KV-78	*Estes Retro Repro*
Start	KA-25	
Swift Boost Glider	KV-27	*Centuri Retro Repro*
Tau Zero	KN-2	
Taurus Fleet Ship	KV-42	*Centuri Retro Repro*
Texas Firefly	KA-8	*Centuri Upscale*
ThunderBee	KA-1	
ThunderChief	KA-7	
ThunderStrike	KA-16	
V2	XES-K22	*xKit*
Vector-V	KV-44	*Centuri Retro Repro*
VF 261	KA-10	

Master List for **Semroc** by Number

KA-1	ThunderBee	
KA-7	ThunderChief	
KA-8	Texas Firefly	*Centuri Upscale*
KA-10	VF-261	
KA-16	ThunderStrike	
KA-18	Hydra One	*Semroc Downscale*
KA-20	Mini Hustler	*Centuri Downscale*
KA-22	Mini Explorer	*Ready to Build*
KA-25	Start	*Estes Clone*
KA-31	Baby Orion	*Centuri Downscale*
KB-7	Hydra VII	
KD-2	IQSY Tomahawk	*Deci Scale*
KD-4	Iris	*Deci Scale*
KLV-16	SLS Javelin	*Centuri Upscale, SLS*
KLV-33	SLS Laser-X	*Centuri Upscale, SLS*
KN-2	Tau Zero	
KS-1	Saturn 1B	*Estes Retro Repro*
KS-3	Little Joe II	*Estes Retro Repro*
KS-5	SLS Arcas	*SLS*
KS-8	Arcas	
KV-2	Aerobee Hi	*MMI Retro Repro*
KV-4	Golden Scout	*Estes Retro Repro*
KV-6	SLS Aero Dart	*Centuri Retro Repro, SLS*
KV-7	Arcon	*Centuri Retro Repro*
KV-8	Micron	*Centuri Retro Repro*
KV-11	SLS Hustler	*Centuri Retro Repro, SLS*
KV-12	Centaur	*Centuri Retro Repro*
KV-14	Lil' Hercules	*Centuri Retro Repro*
KV-15	Arcon-Hi	*Centuri Retro Repro*
KV-16	Javelin	*Centuri Retro Repro*
KV-20	Starfire	*Centuri Retro Repro*
KV-22	Recruiter Space Probe	*Centuri Retro Repro*
KV-27	Swift Boost Glider	*Centuri Retro Repro*
KV-29	Hydra VII	*Semroc Retro Repro*
KV-30	Astro-1	*Centuri Retro Repro*
KV-32	Marauder	*Centuri Retro Repro*
KV-33	Laser-X	*Centuri Retro Repro*
KV-40	Centurion	*Centuri Retro Repro*

KV-42	Taurus Fleet Ship	*Centuri Retro Repro*
KV-43	Excaibur	*Centuri Retro Repro*
KV-44	Vector V	*Centuri Retro Repro*
KV-51	Snipe Hunter	*Centuri Retro Repro*
KV-53	BatRoc	*Centuri Retro Repro*
KV-56	SLS Explorer	*Centuri Retro Repro, SLS*
KV-57	SLS Lil' Hustler	*Centuri Retro Repro, SLS*
KV-60	Defender Space Probe	*Centuri Retro Repro*
KV-64	Omega	*Estes Retro Repro*
KV-66	Orbital Transport	*Estes Retro Repro*
KV-69	Magnum Hornet	*Centuri Retro Repro*
KV-78	Starship Vega	*Estes Retro Repro*
KV-80	Goblin	*Estes Retro Repro*
XCE-K17	SST Shuttle-1 xKit	*xKit, Centuri Retro Repro*
XES-K2	Mark xKit	*xKit, Estes Retro Repro*
XES-K9	SpaceMan	*xKit, Estes Retro Repro*
XES-K22	V2 xKit	*xKit*

Aerobee Hi (KV-2)

MODEL NAME: **Aerobee Hi** *Also known as*:

NUMBER: KV-2

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.0" (35.6 cm)
Diameter: 0.825" (2.1 cm)
Span: 3.2" (8.1 cm)
Weight: 0.8 oz (22.7 g)

Mfg. Description: 1958 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Aerobee Sounding Rocket Family, MMI Aerobee Hi Family, Semroc MMI Retro Repro Family

Arcas (KS-8)

MODEL NAME: **Arcas** *Also known as*:

NUMBER: KS-8

Introduced: 2011
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 30.4" (77.2 cm)
Diameter: 1.54" (3.9 cm)
Span: 5.0" (12.7 cm)
Weight: 2.4 oz (68.1 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Arcas Sounding Rocket Family

Arcon (KV-7)

MODEL NAME: **Arcon** *Also known as*:

NUMBER: KV-7

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 20.0" (50.8 cm)
Diameter: 1.04" (2.6 cm)
Span: 4.8" (12.2 cm)
Weight: 1.25 oz (35.5 g)

Mfg. Description: 1962 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest: Arcon Sounding Rocket Family, Semroc Centuri Retro Repro Family

Arcon-Hi (KV-15)

MODEL NAME: **Arcon-Hi** *Also known as*:

NUMBER: KV-15

Introduced:
Final Year:
Designer:

Type: Scale, 2 Stage, Clone
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 23.0" (58.4 cm)
Diameter: 1.04" (2.6 cm)
Span: 6.9" (17.5 cm)
Weight: 1.9 oz (53.9 g)

Mfg. Description: 1965 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Arcon Sounding Rocket Family, Semroc Centuri Retro Repro Fam-

Astro-1 (KV-30)

MODEL NAME: **Astro-1** *Also known as*:

NUMBER: KV-30

Introduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 17.2" (43.8 cm)
Diameter: 1.04" (2.6 cm)
Span: 4.7" (12.0 cm)
Weight: 1.1 oz (31.2 g)

Mfg. Description: 1969 Retro Repro (Semroc 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Astro-1 Family

Baby Orion (KA-31)

MODEL NAME: **Baby Orion** *Also known as*:

NUMBER: KA-31

Introduced: 2011
Final Year:
Designer:

Type: Exotic, Downscale
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length: 11.3" (28.7 cm)
Diameter: 1.04" (2.6 cm)
Span: 3.7" (9.4 cm)
Weight: 0.6 oz (17.3 g)

Mfg. Description:

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Orion Family

BatRoc (KV-53)

MODEL NAME: **BatRoc** *Also known as*:

NUMBER: KV-53

Introduced:
Final Year:
Designer: Ron Maggiano

Type: Sport/exotic/payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.0" (30.5 cm)
Diameter: 0.759" (1.9 cm)
Span: 4.0" (10.2 cm)
Weight: 0.6 oz (17.0 g)

Mfg. Description:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Batroc Family, Semroc Centuri Retro Repro Family

Centaur (KV-12)

MODEL NAME: **Centaur** *Also known as*:

NUMBER: KV-12

Introduced:
Final Year:
Designer: Lee Piester

Type: Sport
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 19.0" (48.3 cm)
Diameter: 1.34" (3.4 cm)
Span: 8.4" (21.3 cm)
Weight: 2.0 oz (55.8 g)

Mfg. Description:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Centaur Family, Semroc Centuri Retro Repro Family

Centurion (KV-40)

MODEL NAME: **Centurion** *Also known as*:

NUMBER: KV-40

Introduced:
Final Year:
Designer: Reproduction of Centuri Centurion

Type: Sport
Motor Mount: 1x18mm
Recovery: Twin Parachutes
Stages: 1
Length: 25.7"
Diameter: 1.64"
Span: 6.3"
Weight: 2.1 oz.

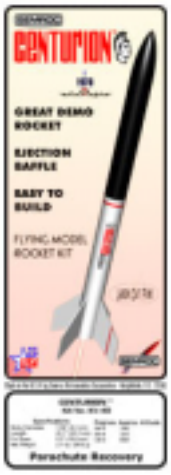
Mfg. Description: 1970 Retro Repro

Catalog Liveries

Web Liveries

2011

Face Card(s)



Also of interest: Centuri Centurion Family, Semroc Centuri Retro Repro Family

Defender Space Probe (KV-60)

MODEL NAME: **Defender Space Probe** *Also known as*:

NUMBER: KV-60

IIntroduced:
Final Year:
Designer:

Type: Cluster/Sport/Payload
Motor Mount: 3x18mm
Recovery: Parachute
Stages: 1
Length: 22.4" (56.9 cm)
Diameter: 1.64" (4.2 cm)
Span: 5.4" (13.7 cm)
Weight: 2.0 oz (55.8 g)

Mfg. Description: 1967 Retro Repro (Semroc Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Defender Space Probe Family, Semroc Centuri Retro Repro Family

Excalibur (KV-43)

MODEL NAME: **Excaibur** *Also known as*:

NUMBER:

Introduced: 2011
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 26.0" (66.1 cm)
Diameter: 0.908" (2.3 cm)
Span: 5.2" (13.2 cm)
Weight: 1.3 oz (36.9 g)

Mfg. Description: 1972 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Excalibur Family, Semroc Centuri Retro Repro Family

Goblin (KV-80)

MODEL NAME: **Goblin** *Also known as*:

NUMBER: KV-80

Introduced:
Final Year:
Designer: Wayne Kellner

Type: Sport, Clone
Motor Mount: 1x24mm
Recovery: Streamer
Stages: 1
Length: 14.3" (36.3 cm)
Diameter: 1.325" (3.4 cm)
Span: 6.1" (15.5 cm)
Weight: 1.2 oz (34.1 g)

Mfg. Description: 1970 Retro Repro (Semroc 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: Estes Goblin Family

Golden Scout (KV-4)

MODEL NAME: **Golden Scout** *Also known as*:

NUMBER: KV-4

Introduced:
Final Year:
Designer: Vern Estes

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Tumble
Stages: 1
Length: 7.1" (18.0 cm)
Diameter: 0.767" (1.9 cm)
Span: 2.7" (6.9 cm)
Weight: 0.28 oz (7.9 g)

Mfg. Description: 1960 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Estes Scout Family, Semroc Estes Retro Repro Family

Hydra One (KA-18)

MODEL NAME: **Hydra One** *Also known as*:

NUMBER: KA-18

Introduced: 2009
Final Year:
Designer: Carl McLawhorn

Type: Exotic, Downscale, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.1" (56.1 cm)
Diameter: 1.17" (3.0 cm)
Span: 4.9" (12.5 cm)
Weight: 1.9 oz (53.9 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Semroc Hydra VII Family

Hydra VII (KB-7)

MODEL NAME: **Hydra VII** *Also known as*:

NUMBER: KB-7

Introduced: 1969
Final Year: 1971
Designer: Carl McLawhorn

Out Of Production

Type: Exotic, Cluster, Payload
Motor Mount: 7x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Great bird for advanced payloads. May be flown using 3 to 7 engines, with a maximum payload of up to 3 newtons. Recommended for the advanced modeler only. Engines not included. (Semroc 1970 Catalog)

Editorial Note:

Catalog Liveries

1970

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Semroc Hydra VII Family

Hydra VII (KV-29)

MODEL NAME: **Hydra VII** *Also known as*:

NUMBER: KV-29

Introduced:
Final Year:
Designer: Carl McLawhorn

Type: Exotic, Cluster, Payload, Reissue
Motor Mount: 7x18mm
Recovery: Parachute
Stages: 1
Length: 30.5" (77.4 cm)
Diameter: 1.64" (4.2 cm)
Span: 6.9" (17.6 cm)
Weight: 5.2 oz (147.6 g)

Mfg. Description: 1969 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Semroc Hydra VII Family, Semroc Retro Repro Marketing Family

I.Q.S.Y. Tomahawk (KD-2)

MODEL NAME: **I.Q.S.Y. Tomahawk** *Also known as*:

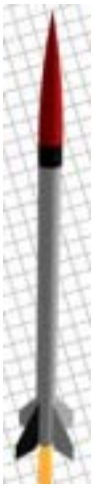
NUMBER: KD-2

Introduced: 2009
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.8" (50.3 cm)
Diameter: 0.908" (2.3 cm)
Span: 3.7" (9.4 cm)
Weight: 1.2 oz (34.1 g)

Mfg. Description:

Web Liveries



2011

Face Card(s)

Also of interest: D Region Tomahawk Sounding Rocket Family, Semroc Deci Scale Family

Iris (KD-4)

MODEL NAME: **Iris** *Also known as*:

NUMBER: KD-4

Introduced: 2009
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.8" (60.4 cm)
Diameter: 1.17" (3.0 cm)
Span: 4.7" (11.9 cm)
Weight: 1.3 oz (36.9 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2009

Face Card(s)

Instruction Header

Also of interest: IRIS Sounding Rocket Family, Semroc Deci Scale Marketing Family

Javelin (KV-16)

MODEL NAME: **Javelin** *Also known as*:

NUMBER: KV-16

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.7" (32.2 cm)
Diameter: 0.759" (1.9 cm)
Span: 3.8" (9.7 cm)
Weight: 0.6 oz (17.0 g)

Mfg. Description: 1965 Retro Repro (Semroc 2011 Web Ad)

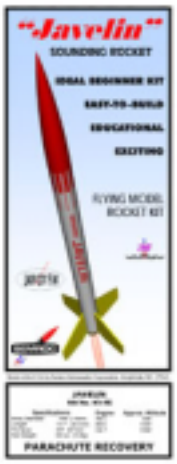
Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)



Also of interest: Centuri Javelin Family, Semroc Centuri Retro Repro Family

Laser-X (KV-33)

MODEL NAME: **Laser-X** *Also known as*: Laser-X Space Probe

NUMBER: KV-33

Introduced:
Final Year:
Designer: Bill Blair

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21.5" (54.6 cm)
Diameter: 1.34" (3.4 cm)
Span: 7.0" (17.8 cm)
Weight: 1.8 oz (51.1 g)

Mfg. Description: 1968 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2010

Face Card(s)

Instruction Header

Also of interest: Centuri Laser-X Family, Semroc Centuri Retro Repro Family

Lil’ Hercules (KV-14)

MODEL NAME: **Lil’ Hercules** *Also known as*: Lil’ Herc

NUMBER: KV-14

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Tumble
Stages: 1
Length: 6.5" (16.5 cm)
Diameter: 0.759" (1.9 cm)
Span: 3.4" (8.6 cm)
Weight: 0.3 oz (8.5 g)

Mfg. Description: 1965 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Lil' Hercules Family, Semroc Centuri Retro Repro Family

Little Joe II (KS-3)

MODEL NAME: **Little Joe II** *Also known as*:

NUMBER: KS-3

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.6" (37.1 cm)
Diameter: 2.217" (5.6 cm)
Span: 4.9" (12.4 cm)
Weight: 1.5 oz (42.6 g)

Mfg. Description: 1968 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Little Joe II Launch Vehicle Family, Semroc Estes Retro Repro Family

Magnum Hornet (KV-69)

MODEL NAME: **Magnum Hornet** *Also known as*:

NUMBER: KV-69

ntroduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 19.8" (50.3 cm)
Diameter: 1.325" (3.4 cm)
Span: 5.7" (14.5 cm)
Weight: 1.7 oz (48.2 g)

Mfg. Description: 1980 Retro Repro (Semroc 2011 Web Ad)

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Hornet Family, Semroc Centuri Retro Repro Family

Marauder (KV-32)

MODEL NAME: **Marauder** *Also known as*:

NUMBER: KV-32

Introduced:
Final Year:
Designer:

Type: Sport, 2 Stage, Payload
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 18.1" (46.0 cm)
Diameter: 0.908" (2.3 cm)
Span: 6.6" (16.8 cm)
Weight: 1.4 oz (39.7 g)

Mfg. Description: The original Centuri Marauder was released in the 1969 Centuri catalog. It was advertised as an ideal beginner multi-stage rocket using Centuri's "dual-lock" stage coupling, later known as the Pass-Port Staging System. It only had a three year production run, but is still remembered by many as their first two-stage rocket. It was released as #KC-45 and retailed for $2.75.

The Semroc Retro-Repro™ Centuri Marauder™ is very close to the original. The pre-printed fins are replaced with more convenient laser-cut fins. The original balsa nose cone is supplied instead of the later plastic nose cone. The original rubber shock cord is replaced with an elastic cord for longer life along with a Kevlar® cord for greater reliability and ease of mounting. (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Marauder Family, Semroc Centuri Retro Repro Family

Mark xKit (XES-K2)

MODEL NAME: **Mark xKit** *Also known as*: Mark

NUMBER: XES-K2

Introduced:
Final Year:
Designer: G. Harry Stine

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 9.2" (23.4 cm)
Diameter: 0.767" (1.9 cm)
Span: 3.1" (7.9 cm)
Weight: 0.4 oz (11.3 g)

Mfg. Description: 1961 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Mark Family, Semroc Estes Retro Repro Family, Semroc xKit Family

Micron (KV-8)

MODEL NAME: **Micron** *Also known as*:

NUMBER: KV-8

Introduced:
Final Year:
Designer: Lee Piester

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 9.2" (23.4 cm)
Diameter: 0.759" (1.9 cm)
Span: 2.6" (6.6 cm)
Weight: 0.4 oz (11.3 g)

Mfg. Description: 1963 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2007

2011

Face Card(s)

Also of interest: Centuri Micron Family, Semroc Centuri Retro Repro Family

Mini Explorer (KA-22)

MODEL NAME: **Mini Explorer** *Also known as*:

NUMBER: KA-22

Introduced: 2010
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.3" (41.4 cm)
Diameter: 1.04" (2.6 cm)
Span: 3.5" (8.9 cm)
Weight: 1.3 oz (36.9 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2010

Face Card(s)

Also of interest: Centuri Explorer Family, Semroc Ready to Build Family

Mini Hustler (KA-20)

MODEL NAME: **Mini Hustler** *Also known as*:

NUMBER: KA-20

Introduced: 2010
Final Year:
Designer:

Type: Payload, Downscale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.7" (57.7 cm)
Diameter: 1.34" (3.4 cm)
Span: 6.8" (17.3 cm)
Weight: 1.9 oz (53.9 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card

Instruction Header

Also of interest: Centuri Hustler Family

Omega (KV-64)

MODEL NAME: **Omega** *Also known as*:

NUMBER: KV-64

Introduced: 2012
Final Year:
Designer:

Type: 2 Stage, Clone
Motor Mount: 1x24mm/1x24mm
Recovery: Tumble/Parachute
Stages: 2
Length: 27.8" (70.6 cm)
Diameter: 1.84" (4.7 cm)
Span: 7.2" (18.3 cm)
Weight: 3.2 oz (90.8 g)

Mfg. Description: 1970 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Omega Family, Semroc Estes Retro Repro Family

Orbital Transport (KV-66)

MODEL NAME: **Orbital Transport** *Also known as*:

NUMBER: KV-66

Introduced:
Final Year:
Designer: Wayne Kellner

Type: Exotic, Boost Glider, Clone
Motor Mount: 1x18mm
Recovery: Glide/Parachute
Stages: 1
Length: 23.0" (58.4 cm)
Diameter: 0.976" (2.5 cm)
Span: 8.1" (20.6 cm)
Weight: 2.3 oz (65.3 g)

Mfg. Description: 1968 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Orbital Transport Family, Semroc Estes Retro Repro Family

Recruiter Space Probe (KV-22)

MODEL NAME: **Recruiter Space Probe** *Also known as*: Recruiter

NUMBER: KV-22

Introduced:
Final Year:
Designer:

Type: Sport, Payload, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 19.2" (48.8 cm)
Diameter: 1.34" (3.4 cm)
Span: 4.4" (11.2 cm)
Weight: 1.2 oz (34.1 g)

Mfg. Description: 1967 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest: Centuri Recruiter Family, Semroc Centuri Retro Repro Family

Saturn 1B (KS-1)

MODEL NAME: **Saturn 1B** *Also known as*:

NUMBER: KS-1

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 37.0" (94.0 cm)
Diameter: 3.938" (10.0 cm)
Span: 8.2" (20.8 cm)
Weight: 9.9 oz (280.9 g)

Mfg. Description: 1967 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Saturn 1B Launch Vehicle Family, Semroc Estes Retro Repro Family

SLS Aero Dart (KV-6)

MODEL NAME: **SLS Aero Dart** *Also known as*:

NUMBER: KV-6

Introduced:
Final Year:
Designer: Lee Piester

Type: Sport
Motor Mount: 1x24mm or 1x29mm
Recovery: Parachute
Stages: 1
Length: 36.8" (93.5 cm)
Diameter: 1.84" (4.7 cm)
Span: 9.2" (23.4 cm)
Weight: 7.6 oz (215.7 g)

Mfg. Description:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Aero-Dart Family, Semroc Centuri Retro Repro Family, Semroc SLS Family

SLS Arcas (KS-5)

MODEL NAME: **Arcas** *Also known as*:

NUMBER: KS-5

Introduced: 2007
Final Year:
Designer:

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length: 45.5" (115.6 cm)
Diameter: 2.25" (5.7 cm)
Span: 6.5" (16.5 cm)
Weight: 8.7 oz (246.9 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest: Arcas Sounding Rocket Family, Semroc SLS Marketing Family

SLS Explorer (KV-56)

MODEL NAME: **SLS Explorer** *Also known as*:

NUMBER: KV-56

Introduced:
Final Year:
Designer: Lee Piester

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 28.7" (72.9 cm)
Diameter: 1.84" (4.7 cm)
Span: 6.3" (16.0 cm)
Weight: 5.8 oz (164.6 g)

Mfg. Description: 1967 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Explorer Family, Semroc SLS Family, Semroc Centuri Retro Repro Family

SLS Hustler (KV-11)

MODEL NAME: **SLS Hustler** *Also known as*:

NUMBER: KV-11

Introduced:
Final Year:
Designer: Lee Piester, Carl McLawhorn

Type: Payload, Clone
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 39.7" (100.8 cm)
Diameter: 2.34" (5.9 cm)
Span: 11.8" (30.0 cm)
Weight: 9.0 oz (255.4 g)

Mfg. Description: 1965 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Centuri Hustler Family, Semroc SLS Marketing Family, Semroc Centuri Retro Repro Family

SLS Javelin (KLV-16)

MODEL NAME: **SLS Javelin** *Also known as*:

NUMBER: KLV-16

Introduced: 2004
Final Year:
Designer:

Type: Sport, Upscale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 22.3" (56.6 cm)
Diameter: 1.34" (3.4 cm)
Span: 6.7" (17.0 cm)
Weight: 3.3 oz (93.6 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Centuri Javelin Family, Semroc SLS Marketing Family

SLS Laser-X (KLV-33)

MODEL NAME: **SLS Laser-X** *Also known as*:

NUMBER: KLV-33

Introduced: 2005
Final Year:
Designer:

Type: Exotic, Upscale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 38.3" (97.3 cm)
Diameter: 2.34" (5.9 cm)
Span: 12.3" (31.2 cm)
Weight: 7.9 oz (224.2 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest: Centuri Laser-X Family, Semroc SLS Marketing Family

SLS Lil’ Hustler (KV-57)

MODEL NAME: **SLS Lil’ Hustler** *Also known as*:

NUMBER: KV-57

Introduced:
Final Year:
Designer: Lee Piester, Carl McLawhorn

Type: Payload, Clone
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 29.8" (75.7 cm)
Diameter: 1.84" (4.7 cm)
Span: 8.7" (22.1 cm)
Weight: 6.0 oz (170.2 g)

Mfg. Description: 1967 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Centuri Hustler Family, Semroc SLS Marketing Family, Semroc Centuri Retro Repro Family

Snipe Hunter (KV-51)

MODEL NAME: **Snipe Hunter** *Also known as*:

NUMBER: KV-51

Introduced:
Final Year:
Designer:

Type: Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.1" (30.7 cm)
Diameter: 0.908" (2.3 cm)
Span: 3.6" (9.2 cm)
Weight: 0.5 oz (14.2 g)

Mfg. Description: 1967 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Snipe Hunter Family, Semroc Centuri Retro Repro Family

SpaceMan xKit (XES-K9)

MODEL NAME: **SpaceMan** *Also known as*: SpaceMan xKit

NUMBER: XES-K9

Introduced:
Final Year:
Designer: Vern Estes, Carl McLawhorn

Type: Oddroc, Clone
Motor Mount: 1x18mm
Recovery: Featherweight
Stages: 1
Length: 9.2" (23.4 cm)
Diameter: 0.736" (1.9 cm)
Span: 3.1" (7.9 cm)
Weight: 0.4 oz

Mfg. Description: 1961 Retro Repro (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Estes Spaceman Family, Semroc Estes Retro Repro Marketing Family, Semroc xKit Marketing Family

SST Shuttle-1 xKit (XCE-K17)

MODEL NAME: **SST Shuttle-1 xKit** *Also known as*:

NUMBER: XCE-K17

Introduced:
Final Year:
Designer:

Type: Boost Glider, Exotic
Motor Mount: 1x18mm
Recovery: Glide/Parachute
Stages: 1
Length: 24.4" (62.0 cm)
Diameter: 1.04" (2.6 cm)
Span: 7.2" (18.3 cm)
Weight: 3.1 oz (88.0 g)

Mfg. Description: 1971 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

This kit does not provide instructions and instead relies on the downloading of the old Centuri instruction.

Also of interest: Centuri SST Shuttle 1 Family, Semroc Centuri Retro Repro Family, Semroc xKit Family

Starfire (KV-20)

MODEL NAME: **Starfire** *Also known as*:

NUMBER: KV-10

Introduced:
Final Year:
Designer: Lee Piester

Type: Sport, Competition
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15.6" (39.6 cm)
Diameter: 0.908" (2.3 cm)
Span: 4.1" (10.5 cm)
Weight: 0.8 oz (22.7 g)

Mfg. Description: 1966 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Starfire Family, Semroc Centuri Retro Repro Family, Parachute Duration Family

Starship Vega (KV-78)

MODEL NAME: **Starship Vega** *Also known as*:

NUMBER: KV-78

Introduced: 2012
Final Year:
Designer: Wayne Kellner

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 20.4"
Diameter: 0.976"
Span: 9.0"
Weight: 1.3 oz

Mfg. Description: 1971 Retro Repro

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Estes Starship Vega Family, Semroc Estes Retro Repro Family

Start (KA-25)

MODEL NAME: **Start** *Also known as*:

NUMBER: KA-25

Introduced: 2010
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13.0" (33.0 cm)
Diameter: 1.04" (2.6 cm)
Span: 4.2" (10.7 cm)
Weight: 1.2 oz (34.1 g)

Mfg. Description:

Web Liveries

2010

Face Card(s)

Also of interest: Estes Alpha Family

Swift Boost Glider (KV-27)

MODEL NAME: **Swift Boost Glider** *Also known as*: Swift BG

NUMBER:

Introduced: 2010
Final Year:
Designer: Lee Piester

Type: Boost Glider
Motor Mount: 1x18mm
Recovery: Tumble/Glide
Stages: 1
Length: 16.5" (41.9 cm)
Diameter: 0.759" (1.9 cm)
Span: 11.8" (30.0 cm)
Weight: 1.0 oz (28.4 g)

Mfg. Description: 1969 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Swift Family, Semroc Centuri Retro Repro Family

Tau Zero (KN-2)

MODEL NAME: **Tau Zero** *Also known as*:

NUMBER: KN-2

Introduced: 2008
Final Year:
Designer: Jay "Centuri Guy" Goemmer

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 16.0" (40.6 cm)
Diameter: 0.759" (1.9 cm)
Span: 5.3" (13.4 cm)
Weight: 1.0 oz (28.4 g)

Mfg. Description: The Tau Zero™ is the first original Semroc kit to be designed by Jay "Centuri Guy" Goemmer of Twin Falls, Idaho, who says he's "an incurable Semroc fan." Released in 2008, the Tau Zero combines an unusually-shaped nose cone, forward-swept outer fins, and an unexpected ring fin. These features add up to a futuristic sport rocket with some minor building challenges for the intermediate rocketeer. The Tau Zero kit is rated a Skill Level 2 for construction, or as much as a Skill Level 3, depending on the complexity of your chosen paint scheme. The phrase "Tau Zero" is borrowed from the 1970 Poul Anderson novel of the same name. (Semroc 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

Taurus Fleet Ship (KV-42)

MODEL NAME: **Taurus Fleet Ship** *Also known as*:

NUMBER: KV-42

Introduced:
Final Year:
Designer:

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.5" (59.7 cm)
Diameter: 1.34" (3.4 cm)
Span: 6.6" (16.8 cm)
Weight: 1.8 oz (51.1 g)

Mfg. Description: 1972 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Taurus Fleet Ship Family, Semroc Centuri Retro Repro Family

Texas Fire Fly (KA-8)

MODEL NAME: **Texas Fire Fly** *Also known as*:

NUMBER: KA-8

Introduced: 2005
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length: 14.3" (36.3 cm)
Diameter: 1.34" (3.4 cm)
Span: 7.2" (18.3 cm)
Weight: 2.1 oz (59.6 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Also of interest: Centuri Firefly Family

ThunderBee (KA-1)

MODEL NAME: **ThunderBee** *Also known as*:

NUMBER: KA-1

Introduced: 2004
Final Year:
Designer:

Type: Sport
Motor Mount: 1x13mm
Recovery: Streamer
Stages: 1
Length: 14.7" (37.5 cm)
Diameter: 0.543" (1.4 cm)
Span: 3.3" (8.5 cm)
Weight: 0.3 oz (8.5 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Thunder Roc Family

ThunderChief (KA-7)

MODEL NAME: **ThunderChief** *Also known as*:

NUMBER: KA-7

Introduced: 2009
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 31.9" (81.0 cm)
Diameter: 0.908" (2.3 cm)
Span: 6.1" (22.6 cm)
Weight: 2.1 oz (59.6 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Thunder Roc Family

ThunderStrike (KA-16)

MODEL NAME: **ThunderStrike** *Also known as*:

NUMBER: KA-16

Introduced: 2009
Final Year:
Designer:

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 50.7" (128.8 cm)
Diameter: 1.34" (3.4 cm)
Span: 8.9" (22.6 cm)
Weight: 3.4 oz (96.5 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Thunder Roc Family

V-2 xKit (XES-K22)

MODEL NAME: **V-2 xKit** *Also known as*:

NUMBER: XES-K22

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 11.4" (29.0 cm)
Diameter: 1.325" (3.4 cm)
Span: 4.0" (10.2 cm)
Weight: 3.7 oz/105 gm

Mfg. Description: The V-2 was introduced in 1965 in the Estes® 1966 Catalog. Based on the German A-4/V-2 designed in the 1940's as a military missile, the Estes® V-2 was one of their first scale models. The V-2 was able to be built as a scale model or semi-scale model with larger fins for better stability. For many early rocket-eers, the V-2 was their first scale model. The V-2 was Estes® #K-22 and the original kit sold for $1.75.

The Semroc V-2 xKit™ is updated by using laser-cut fins including both the scale and semi-scale parts. The original balsa nose cone and boat tail dimensions and the original body tube sizes are used. A larger washer weight is provided for the semi-scale version.

Plans are not provided in this kit but they are avail-able are online at

http://www.dars.org/jimz/k-22.htm

thanks to the tireless efforts of Jim Zalewski and the generosity of Estes Industries in allowing him to help preserve the past. (Semroc 2011 Web Ad)

Web Liveries

2011

Face Card(s)

Also of interest: All V-2 families, Semroc xKit Family

Vector V (KV-44)

MODEL NAME: Vector V *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 12.6" (32.0 cm)
Diameter: 1.34" (3.4 cm)
Span: 3.3" (8.4 cm)
Weight: 0.9 oz (25.5 g)

Mfg. Description: 1972 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2011

Face Card(s)

Instruction Header

Also of interest: Centuri Vector V Family, Semroc Centuri Retro Repro Family

VF-261 (KA-10)

MODEL NAME: **VF-261** *Also known as*:

NUMBER: KA-10

Introduced: 2007
Final Year:
Designer: Vern Estes, Carl McLawhorn

Type: Sport, Retro
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 11.1" (28.2 cm)
Diameter: 1.325" (3.4 cm)
Span: 5.5" (14.0 cm)
Weight: 1.6 oz (45.4 g)

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest:

Sheri’s Hot Rockets (SHR)

http://www.cjsaviation.com/

Master List for **SHR** by Name

Gemini Titan
Mercury Redstone

Gemini Titan

MODEL NAME: **Gemini Titan** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 2x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: If you have been looking for a large scale detailed medium/high powered gemini titan kit then this is for you.!!
This kit has numerous outstanding features: Lots of prefab parts make this kit an easy quick build:
1. 2 piece solid resin capsule
2. 1/8 inch thick walled heavy duty main body tube
3. Precut glassine 29 mm heavy duty high quality motor tubes-2
4. 1/4 inch birch ply cnc cut centering rings
5. Cnc cut 1/8 inch clear lexan fins that simply slide in and bolt on.
6. Lightweight machined aluminum nozzles!!! Nozzles stay on for flight and act as positive motor retention.
7. Large vinyl wrap for main body graphics
8. Waterslide decals for gemini capsule
9. Full size plans and comprehensive construction and flying manual.
10. Proven design with numerous hours of designing and flight testing.
11. Design to fly on "g" size motors such as the g-80-4t by aerotech. No certifications or permits required to purchase. Readily available on line.
12. Model reaches altitude of 550-600 feet on 2 g80-4t motors!!!!
13. No other kit offers these custom features.
14. Overall height is almost 53 inches (SHR 2011 Web Ad)

Web Liveries

2011

Also of interest: Gemini Titan Launch Vehicle Family

Mercury Redstone

MODEL NAME: **Mercury Redstone** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 3"
Span:
Weight:

Mfg. Description: THIS KIT HAS SOME GREAT FEATURES:
1. CNC CUT FINS AND CENTERING RINGS
2. LARGE MULTICOLORED VINYL WRAP FOR BOOSTER MARKINGS
3. WATERSLIDE DECALS FOR BOTH CAPSULE VERSIONS "LIBERTY BELL 7 AND FREEDOM 7" BY SPACE MODEL SYSTEMS. THE SAME DECALS AS PROVIDED FOR THE GREAT ATOMIC CITY 1/12 MERCURY CAPSULE KIT RESCALED TO 1/24 SCALE. ALSO INCLUDES EXTENSIVE DETAILED PLACEMENT INSTRUCTIONS WITH ALL KNOW CAPSULE MARKINGS..
4. PRECUT WHITE VINYL COATED 3" WIDE MAIN BODY TUBE
5. RESIN CAPSULE AND ESCAPE TOWER NOZZLES. EASY TO CONSTRUCT TOWER.
6. FINS ARE PLYWOOD WITH A STYRENE VENEER FOR ADDED SCALE REALISM.
7. DESIGNED TO FLY ON 29MM DIAMETER MEDIUM POWERED MOTORS SUCH AS THE AEROTECH G77R-4T. REACHES ALTITUDE OF 700-800 FEET!
8. KIT DOES NOT INCLUDE PARACHUTE, BUT RECOMMENDED CHUTE IS ONE 36 INCH DIAMETER NYLON CHUTE
9. LIFT OFF WEIGHT IS SLIGHTLY OVER 2 POUNDS.
10. MODEL STANDS OVER 40 INCHES TALL (SHR 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

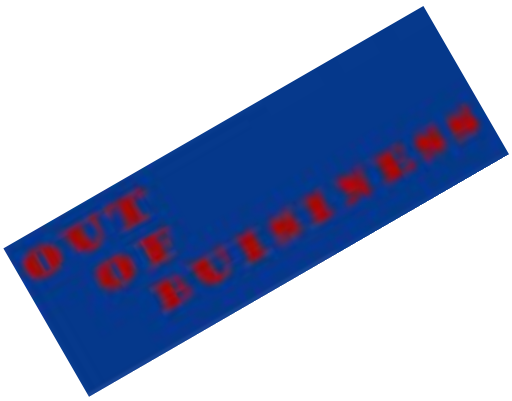
2011

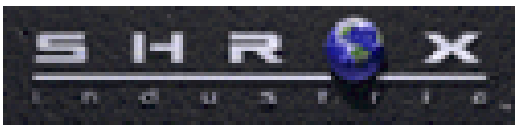
Face Card(s)

Also of interest: Mercury Redstone Launch Vehicle Family

Shrox Industria

http://www.shrox.com/





1598

Master List for **Shrox Industria** by Name

Icarus

Icarus

MODEL NAME: **Icarus** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer: Shrox

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 28"
Diameter: 1.325"
Span: 8"
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2002

Face Card(s)

Instruction Header

Also of interest:

1600

SpaceX (Space Exploration Technologies)

Space X

1 Rocket Rd

Hawthorne, CA 90250

Tel: 310-363-6000

http://www.spacex.com/index.php

About SpaceX

Space Exploration Technologies (SpaceX) designs, manufactures and launches the world's most advanced rockets and spacecraft.

The company was founded in 2002 by Elon Musk to revolutionize space transportation and ultimately make it possible for people to live on other planets. Today, SpaceX is advancing the boundaries of space technology through its Falcon launch vehicles and Dragon spacecraft.

The company's prototype rocket, Falcon 1, was the first privately developed liquid-fueled rocket to reach orbit. The more powerful Falcon 9 rocket debuted with back-to-back successful flights in June and December of 2010. The December 2010 flight included the first flight of the Dragon spacecraft, making SpaceX the first commercial company to send a spacecraft to orbit and return it safely to Earth.

In May 2012, SpaceX again made history when its Dragon spacecraft became the first commercial vehicle to successfully attach to the International Space Station. Previously only four governments -- the United States, Russia, Japan and the European Space Agency -- had achieved this challenging technical feat. This mission marked a new era in commercial spaceflight, validating the SpaceX business model and reigniting public excitement about the future of space exploration.

Later this year, SpaceX's Falcon 9 rocket and Dragon spacecraft will take over the job of delivering cargo to and from the International Space Station under a $1.6 billion Commercial Resupply Services contract with NASA for a minimum of 12 missions. Although initially carrying cargo, Falcon 9 and Dragon were designed to one day carry astronauts, and cargo flights will provide valuable experience toward this goal. In April 2011, NASA awarded SpaceX a $75 million contract to prepare Dragon for transporting astronauts into space, and the company has already completed significant milestones as a part of that contract.

SpaceX is producing the most advanced launch vehicles in the world, and the international launch market has responded -- commercial launches now represent over 60 percent of the company's upcoming missions. In total, the company has approximately $4 billion in contracts and more than 40 launches on its manifest, making SpaceX the world's fastest growing launch services provider. As a result of these successes, the company has been cash flow positive for the last five years.

Looking to the future, SpaceX has announced its plans for Falcon Heavy, the most powerful rocket in the world, second only to the Apollo-era Saturn V. Falcon Heavy will be able to carry payloads weighing over 53 metric tons to orbit, offering more than twice the performance of other commercial launch vehicles and making possible

missions that were previously unachievable.

Long term, SpaceX is working to build vehicles that are fully and rapidly reusable, a key element to radically reducing the cost of spaceflight in order to truly revolutionize space exploration. The Dragon spacecraft can be used for multiple missions to space. SpaceX is also working to make reusable rockets, something that has never been done before and is the most important element to radically reducing the cost of spaceflight.

SpaceX is a private company owned by management and employees, with minority investments from Founders Fund, Draper Fisher Jurvetson, and Valor Equity Partners. The company has more than 1,800 employees at its headquarters in Hawthorne, California; launch facilities at the Cape Canaveral Air Force Station in Florida and Vandenberg Air Force Base in California; a rocket development facility in McGregor, Texas; and offices in Washington, DC.

(Company Web Statement 2012)

Master List for **SpaceX** by Name

Falcon 9 with Dragon

Falcon 9 with Dragon

MODEL NAME: **Falcon 9 with Dragon** *Also known as*: Falcon 9

NUMBER:

Introduced: 2011
Final Year:
Designer:

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.8"
Diameter:
Span:
Weight:

Mfg. Description: On December 8, 2010, SpaceX became the first commercial company in history to launch, fly, and recover a spacecraft from Earth orbit. The Falcon 9 rocket delivered the Dragon spacecraft to orbit where it circled the Earth at speeds greater than 7,600 meters per second (17,000 miles per hour). After nearly two orbits, Dragon fired its thrusters to begin reentry and splashed down in the Pacific Ocean 3 hours, 19 minutes and 52 seconds after liftoff. Now you can build and fly your own 1:88 scale model of SpaceX's Falcon 9 rocket with the Dragon spacecraft. With molded nose and tail, full-color pre-printed body tube, and full color sticker for nose, the impressive finished model stands a big 58 cm (22.8 in) tall. No painting required! The kit includes molded transparent fins for flight, which can be removed for display. Dual parachutes return the Falcon 9 and Dragon spacecraft separately to Earth. REQUIRED FOR ASSEMBLY (not included): Scissors, adhesive tape, white glue, epoxy glue (5-minute type), coffee stirrers or similar to mix and apply epoxy, sheet of printer paper (either A4 or 8.5 x 11 in). REQUIRED FOR FLIGHT (not included): Model rocket engines (recommended A8-3, B6-4, C6-5), engine igniters, flame proof recovery wadding, launch system. Designed by SpaceX, and tooled and manufactured in California. Build and fly your own model of America's newest private space transportation system - from SpaceX! --- The model's launch lug is 1/8" diameter and the model is designed for standard A B and C engines, so these are good matches for this rocket. Estes 302215 Porta-Pad II Launch Pad Estes 302220 Electron Beam Launch Controller Estes A8-3 Model Rocket Engine Pack Estes B6-4 Model Rocket Engine Pack Estes C6-5 Model Rocket Engine Pack (Amazon.com 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

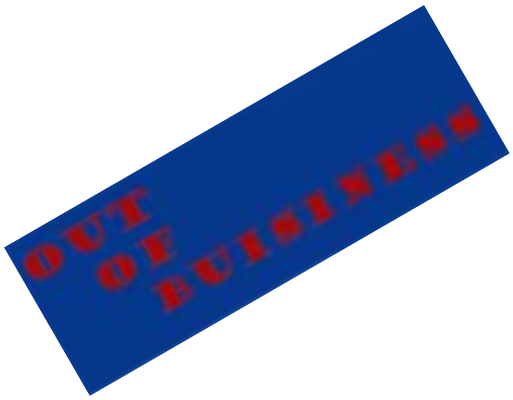
Instruction Header

Other Web Appearances

2012 Amazon.com Web Ad

Also of interest: Falcon 9 Launch Vehicle Family

Starlight Model Rockets



1607

Master List for **Starlight** by Name

Jay Hawk	MN 4353

Master List for **Starlight** by Number

MN 4353	Jay Hawk

Jay Hawk (MN 4353)

MODEL NAME: **Honest John** *Also known as*:

NUMBER: MN 4353

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x18mm
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

2009

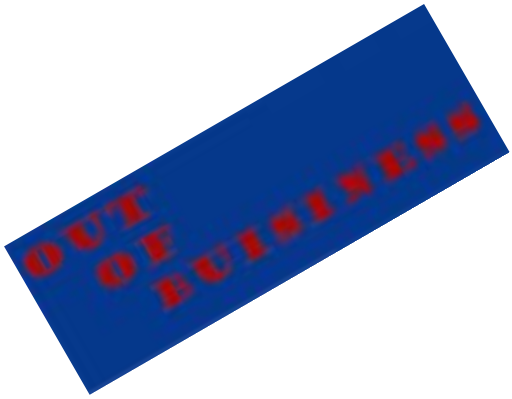
Face Card(s)

Also of interest: AQM-37 Jayhawk Ordnance Family

Tango Papa Decals

Tango Papa Decals
1901 Mitman Road
Easton, PA 18040

1-610-252-8543



1610

Master List for **Tango Papa** by Name

1.6x Mars Lander
2x Mars Lander
3.9” Mars Lander

1.6x Mars Lander

MODEL NAME: **1.6x Mars Lander** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Upscale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: These kits are made as close as possible to an exact upscale of the original Estes Mars Lander. Changes have been made to improve upon the original design and also to make the Lander a lot stronger.

The design allows for the rear of the Lander to be removed, allowing access to the legs for repairs and replacement.

There are many parts to this kit. It's for someone that's built rockets before - don't buy it for your 10-year-olds first rocket!

Here's some of what's included:

Complete written instructions with photos
Shrouds, tubes, braces, centering rings, launch lug
Nosecone and laser-cut parts (BMS)
Bulkheards, tubes and couplers
Motor retaining system Tom designed to be very small & use the screws that hold the read bulkhead in place
Fabric paint needed for raised detail on the shrouds - nice touch, thanks to Laurie!
Templates, decal sheet, shock cord, kevlar cord and more
Chutes (Recovery Techologies) - optional for all kits (Tango Papa 2006 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Mars Lander Family

2x Mars Lander

MODEL NAME: **2x Mars Lander** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Upscale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: These kits are made as close as possible to an exact upscale of the original Estes Mars Lander. Changes have been made to improve upon the original design and also to make the Lander a lot stronger.

The design allows for the rear of the Lander to be removed, allowing access to the legs for repairs and replacement.

There are many parts to this kit. It's for someone that's built rockets before - don't buy it for your 10-year-olds first rocket!

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Shrouds, tubes, braces, centering rings, launch lug
Nosecone and laser-cut parts (BMS)
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Motor retaining system Tom designed to be very small & use the screws that hold the read bulkhead in place
Fabric paint needed for raised detail on the shrouds - nice touch, thanks to Laurie!
Templates, decal sheet, shock cord, kevlar cord and more
Chutes (Recovery Techologies) - optional for all kits (Tango Papa 2006 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2006

Face Card(s)

Instruction Header

Also of interest: Estes Mars Lander Family

3.9” Mars Lander

MODEL NAME: **3.9” Mars Lander** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Upscale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: These kits are made as close as possible to an exact upscale of the original Estes Mars Lander. Changes have been made to improve upon the original design and also to make the Lander a lot stronger.

The design allows for the rear of the Lander to be removed, allowing access to the legs for repairs and replacement.

There are many parts to this kit. It's for someone that's built rockets before - don't buy it for your 10-year-olds first rocket!

Here's some of what's included:

Complete written instructions with photos
Shrouds, tubes, braces, centering rings, launch lug
Nosecone and laser-cut parts (BMS)
Bulkheards, tubes and couplers
Motor retaining system Tom designed to be very small & use the screws that hold the read bulkhead in place
Fabric paint needed for raised detail on the shrouds - nice touch, thanks to Laurie!
Templates, decal sheet, shock cord, kevlar cord and more
Chutes (Recovery Techologies) - optional for all kits (Tango Papa 2006 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

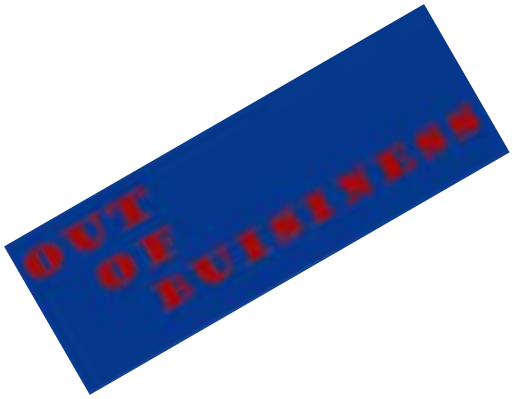
2006

Face Card(s)

Instruction Header

Also of interest: Estes Mars Lander Family

Thrustline Aerospace



1 6 1 7

Master List for **Thrustline** by Name

A-Slam	TA-016	
Aerobee 300	TACL-013	*Estes Clone*
Alien Explorer	TACL-029	*Estes Clone*
Alien Troop Mover	TA-004	
Andromeda	TACL-027	*Estes Clone*
Apogee II	TACL-041	*Estes Clone*
Arapaho E	TA-023	
Arcas	TACL-017	*Estes Clone*
Astral Lance	TA-021	
Avenger	TACL-037	*Estes Clone*
Black Shadow	TA-001	
Blue Bird Zero	TACL-023	*Estes Clone*
Cherokee D	TACL-001	*Estes Clone*
Cobra	TACL-033	*Estes Clone*
Constellation	TACL-030	*Estes Clone*
D-Region Tomahawk	TA-024	
Deep Space Transport	TACL-028	*Estes Clone*
Der Big Red Max	TACL-025a	*Estes Clone*
Der Big Red Max 24mm	TACL-025aa	*Estes Clone*
Der Red Max	TACL-025	*Estes Clone*
Double-Up	TA-006	
Drifter	TACL-010	*Estes Clone*
Duster	TA-007	
EAC Viper	TACL-039	*Estes Clone*
Electra		
F-19 Night Fighter	TA-012	
F-24 Pather Interceptor	TA-017	
Falcon	TACL-015	*Estes Clone*
Farside	TACL-012a	*Estes Clone*
Farside X	TACL-012	*Estes Clone*
Flux Probe	TA-013	
Goblin	TACL - 005	*Estes Clone*
Gyroc	TACL-009	*Estes Clone*
Hank	TA-011	
Honest John	TACL-003	*Estes Clone*
Honest John	TACL-004	*Estes Clone*
Little John	TACL-020	*Estes Clone*
Mars Probe	TA-018	
Mars Snooper	TACL-024	*Estes Clone*
Mighty Mick	TA-002	
Mike IX	TA-015	
Mini Mike IX	TA-027	*Thrustline Downscale*
Mosquito	TACL-042	*Estes Clone*
Nike-X	TACL-002	*Estes Clone*

Omega	TACL-035	*Estes Clone*
Orbital Interceptor	TACL-032	*Estes Clone*
Orbital Transport	TACL-034	*Estes Clone*
Patriot	TACL-036	*Estes Clone*
Pegasus	TACL-019	*Estes Clone*
Pumpkin Head	TA-008	
Ranger	TACL-026	*Estes Clone*
Rogue	TACL-038	*Estes Clone*
Scamp	TACL-022	*Estes Clone*
Scorpion ATGW	TA-026	
Sea Dart	TA-014	
Seeker	TA-009	
Smoke N’ Fire	TA-010	
Space Man	TACL-044	*Estes Clone*
Sprint	TACL-018	*Estes Clone*
Sprite	TACL-031	*Estes Clone*
Star Hauler	TA-005	
Starliner	TACL-021	*Estes Clone*
Starship Electra	TA-025	
Tribute II	TA-022	
Trident	TACL-034	*Estes Clone*
V2	TA-019	
V-2	TACL-016	*Estes Clone*
WAC Corporal	TACL-014	*Estes Clone*
X-Ray	TACL-011	*Estes Clone*
Yellow Jacket	TACL-040	*Estes Clone*
Zack Attack	TA-003	

Master List for **Thrustline** by Number

TA-001	Black Shadow	
TA-002	Mighty Mick	
TA-003	Zack Attack	
TA-004	Alien Troop Mover	
TA-005	Star Hauler	
TA-006	Double-Up	
TA-007	Duster	
TA-008	Pumpkin Head	
TA-009	Seeker	
TA-010	Smoke N' Fire	
TA-011	Hank	
TA-012	F-19 Night Fighter	
TA-013	Flux Probe	
TA-014	Sea Dart	
TA-015	Mike IX	
TA-016	A-Slam	
TA-017	F-24 Pantehr Interceptor	
TA-018	Mars Probe	
TA-019	V2	
TA-021	Astral Lance	
TA-022	Tribute II	
TA-023	Arapahoe E	
TA-024	D-Region Tomahawk	
TA-025	Starship Electra	
TA-026	Scorpion ATGW	
TA-027	Mini Mike IX	*Thrustline Downscale*
TACL-001	Cherokee D	*Estes Clone*
TACL-002	Nike-X	*Estes Clone*
TACL-003	Honest John	*Estes Clone*
TACL-004	Honest John	*Estes Clone*
TACL-005	Goblin	*Estes Clone*
TACL-009	Gyroc	*Estes Clone*
TACL-010	Drifter	*Estes Clone*
TACL-011	X-Ray	*Estes Clone*
TACL-012	Farside X	*Estes Clone*
TACL-012a	Farside	*Estes Clone*
TACL-013	Aerobee 300	*Estes Clone*
TACL-014	WAC Corporal	*Estes Clone*
TACL-015	Falcon	*Estes Clone*
TACL-016	V-2	*Estes Clone*
TACL-017	Arcas	*Estes Clone*
TACL-018	Sprint	*Estes Clone*
TACL-019	Pegasus	*Estes Clone*

TACL-020	Little John	*Estes Clone*
TACL-021	Starliner	*Estes Clone*
TACL-022	Scamp	*Estes Clone*
TACL-023	Blue Bird Zero	*Estes Clone*
TACL-024	Mars Snooper	*Estes Clone*
TACL-025	Der Red Max	*Estes Clone*
TACL-025a	Der Big Red Max	*Estes Clone*
TACL-025aa	Der Big Red Max 24mm	*Estes Clone*
TACL-026	Ranger	*Estes Clone*
TACL-027	Andromeda	*Estes Clone*
TACL-028	Deep Space Transport	*Estes Clone*
TACL-029	Alien Explorer	*Estes Clone*
TACL-030	Constellation	*Estes Clone*
TACL-031	Sprite	*Estes Clone*
TACL-032	Orbital Interceptor	*Estes Clone*
TACL-033	Cobra	*Estes Clone*
TACL-034	Trident	*Estes Clone*
TACL-035	Omega	*Estes Clone*
TACL-036	Patriot	*Estes Clone*
TACL-037	Avenger	*Estes Clone*
TACL-038	Rogue	*Estes Clone*
TACL-039	EAC Viper	*Estes Clone*
TACL-040	Yellow Jacket	*Estes Clone*
TACL-041	Apogee II	*Estes Clone*
TACL-042	Mosquito	*Estes Clone*
TACL-043	Orbital Transport	*Estes Clone*
TACL-044	Space Man	*Estes Clone*

A-Slam (TA-016)

MODEL NAME: **A-Slam** *Also known as*:

NUMBER: TA-016

Introduced:
Final Year:
Designer: John Rowan-Stern

Out Of Production

Type: Sport, Cluster
Motor Mount: 3x18mm
Recovery: Parachute
Stages: 1
Length: 21.5 in.
Diameter: 2.27 in.
Span:
Weight: 4.5 oz.

Mfg. Description: High performance, three engine cluster kit. Flexible motor choices allow flying on different size fields. Features include a balsa nose cone, Kevlar recovery system, Mylar parachute and water slide decal. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2005

Face Card(s)

Instruction Header

Also of interest:

1 6 2 2

Aerobee 300 (TACL-013)

MODEL NAME: **Aerobee 300** *Also known as*:

NUMBER: TACL-013

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Aerobee Sounding Rocket Family

Alien Explorer (TACL-029)

MODEL NAME: **Alien Explorer** *Also known as*:

NUMBER: TACL-029

Introduced:
Final Year:
Designer:

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Alien Explorer Family

Alien Troop Mover (TA-004)

MODEL NAME: **Alien Troop Mover** *Also known as*:

NUMBER: TA-004

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 21.6"
Diameter: 2.2"
Span:
Weight: 7.36 oz

Mfg. Description: This five-finned rocket is designed for fun and performance. It can fly on both small or large fields. Included are six alien paratroopers each with their own parachute. Just load them up and see what happens at ejection! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

Andromeda (TACL-027)

MODEL NAME: **Andromeda** *Also known as*:

NUMBER: TACL-027

Introduced:
Final Year:
Designer:

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Andromeda Family

Apogee II (TACL-041)

MODEL NAME: **Apogee II** *Also known as*:

NUMBER: TACL-041

Introduced:
Final Year:
Designer:

Type: Payload, 2 Stage, Clone
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachte
Stages:2
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Apogee Family

Arapahoe E (TA-023)

MODEL NAME: **Arapahe E** *Also known as*:

NUMBER: TA-023

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x24mm
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: When I was about 9 or 10, I bought my first "D" motor rocket called the Cherokee D. Ironically, I built it when I was staying at some friend's house for the summer in Upper State New York. The man of the house was of Cherokee Indian descent and taught me a lot about fishing and other great things in life. As luck would have it, I lost the model on it's maiden flight and vowed that someday, I would build it again. Well, a lot of fish have come and gone since then but the memory of that summer inspired me to make a more modern version of that still famous rocket. Why name it the Arapahoe E? Well, because it just keeps things in perspective. My continued thanks for the help, photos and friendship of Mr. John McClure. For without his help and input, this kit, (and a few others) may still be on the bench! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Arcas (TACL-017)

MODEL NAME: **Arcas** *Also known as*:

NUMBER: TACL-017

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Arcas Sounding Rocket Family

Astral Lance (TA-021)

MODEL NAME: **Astral Lance** *Also known as*:

NUMBER: TA-021

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 30.75"
Diameter: 1.637"
Span: 7.5"
Weight: 3.9 oz

Mfg. Description: Standing at over 30 inches tall, the Lance is a high performing versatile rocket that will become the pride of your fleet. Able to take C11 through E series motors, you can fly this model from a variety of field sizes.

All fins are laser cut basswood for precise control during building. Kit comes with very high quality components and a fully illustrated instruction guide for fast and precise assembly. Boat tail construction adds not only great looks, but great performance as well!

Balsa Nose Cone
Engine and body Tubes
Centering rings
Kevlar and Elastic Shock recovery system
18" Mylar parachute
Laser cut, basswood fins!
Fully illustrated instruction booklet (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Avenger (TACL-037)

MODEL NAME: **Avenger** *Also known as*:

NUMBER: TACL-037

Introduced:
Final Year:
Designer:

Type: Sport, Payload, 2 Stage, Clone
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Parachute
Stages: 2
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Avenger Family

Black Shadow (TA-001)

MODEL NAME: **Black Shadow** *Also known as*:

NUMBER: TA-001

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 15.6 in.
Diameter: 1.32 in
Span:
Weight: 2.0 oz.

Mfg. Description: The first original rocket design by Thrustline Aerospace is a limited edition production of only 200 made. A great beginner's kit but don't let that fool you! The performance of this rocket is not lacking! Each kit comes with a certificate of authenticity signed by the designer. (Thrustline 2008 Web Ad)

Editorial Note: When Thrustline briefly re-opened, the Black Shadow was one of 2 kits that went back into production for a limited run.

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Blue Bird Zero (TACL-023)

MODEL NAME: **Blue Bird Zero** *Also known as*:

NUMBER: TACL-023

Introduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount:
Recovery: Parachute
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Blue Bird Zero Family

Cherokee D (TACL-001)

MODEL NAME: **Cherokee D** *Also known as*:

NUMBER: TACL-001

Introduced:
Final Year:
Designer: Gene Street

Type: Sport, Clone
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 21.6"
Diameter: 1.325"
Span:
Weight: 2.75 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Cherokee D Family

Cobra (TACL-033)

MODEL NAME: **Cobra** *Also known as*:

NUMBER: TACL-033

Introduced:
Final Year:
Designer:

Type: Sport, Cluster, Clone
Motor Mount: 3x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Cobra Family

Constellation (TACL-030)

MODEL NAME: **Constellation** *Also known as*:

NUMBER: TACL-030

Introduced:
Final Year:
Designer:

Type: Sport, Payload, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Constellation Family

D-Region Tomahawk
(TA-024)

MODEL NAME: **D-Region Tomahawk** *Also known as*:

NUMBER: TA-024

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Scale
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: D-Region Tomahawk Sounding Rocket Family

Deep Space Transport
(TACL-028)

MODEL NAME: **Deep Space Transport** *Also known as*:

NUMBER: TACL-028

Introduced:
Final Year:
Designer:

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Deep Space Transport Family

Der Big Red Max (TACL-025a)

MODEL NAME: Der Big Red Max *Also known as*:

NUMBER: TACL-025a

Introduced: 2006
Final Year:
Designer: Wayne Kellner

Type: Sport, Clone
Motor Mount:
Recovery:
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Catalog Liveries

Web Liveries

Face Card(s)

Also of interest: Estes Der Red Max Family

Der Big Red Max 24mm (TACL-025aa)

MODEL NAME: **Der Big Red Max 24mm** *Also known as*:

NUMBER: TACL-025aa

Introduced:
Final Year:
Designer:

Type: Upscale, Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: Longer version with 24mm engine mount. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Der Red Max Family

Der Red Max (TACL-025)

MODEL NAME: **Der Red Max** *Also known as*:

NUMBER: TACL-025

Introduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Der Red Max Family

Double-Up (TA-006)

MODEL NAME: **Double-Up** *Also known as*:

NUMBER: TA-006

Introduced:
Final Year:
Designer:John Rowan-Stern

Type: Sport, 2 Stage
Motor Mount: 1x18mm/1x18mm
Recovery: Tumble/Streamer
Stages: 2
Length: 23.25"
Diameter: 0.98"
Span:
Weight: 1.35 oz

Out Of Production

Mfg. Description: This kit is a two-stage rocket utilizing a technique know as gap staging. With altitudes as high as 1,300 feet, this is quite a performer. Easy to build and even easier to fly! Features a balsa nose cone and Kevlar recovery system. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

1 6 4 2

Drifter (TACL-010)

MODEL NAME: **Drifter** *Also known as*:

NUMBER: TACL-010

Introduced:
Final Year:
Designer:

Out Of Production

Type: Parachute Duration, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Estes Drifter Family, Parachute Duration Family

Duster (TA-007)

MODEL NAME: **Duster** *Also known as*:

NUMBER: TA-007

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 39.6"
Diameter: 1.325"
Span:
Weight: 3.0 oz

Out Of Production

Mfg. Description: This is a great sport flyer and a real crowd pleaser! Almost 40 inches long and a unique split fin design will keep the crowd's eyes centered and their necks aching! Flies on 24mm motors. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

1 6 4 4

EAC Viper (TACL-039)

MODEL NAME: **EAC Viper** *Also known as*:

NUMBER: TACL-039

Introduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes EAC Viper Family

F-19 Night Fighter (TA-012)

MODEL NAME: **F-19 Night Fighter** *Also known as*:

NUMBER: TA-012

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Pseudo Scale
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 24.5"
Diameter: 1.325"
Span:
Weight: 2.5 oz

Mfg. Description: High performance 24mm single-engine fighter type rocket kit. This is a great model for learning to work with balsa. Some people are a little intimidated with cutting and sanding but the fully illustrated step by step process make it easy! A great addition to anyone's fighter wing! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest:
1 6 4 6

F-24 Panther Interceptor (TA-017)

MODEL NAME: **F-24 Panther Interceptor** *Also known as*: F-24 Panther

NUMBER: TA-017

Introduced:
Final Year:
Designer: John Rowan-Stern

Out Of Production

Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.5"
Diameter: 1.325"
Span:
Weight: 2.3 oz

Mfg. Description: This kit will not only give you great, exciting flights, but will also enhance your building skills as well. Features include a balsa nose cone, Kevlar recovery system, Mylar parachute and multiple water slide decals. (Thrustline 2005 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest:

Falcon (TACL-015)

MODEL NAME: **Falcon** *Also known as*:

NUMBER: TACL-015

Introduced:
Final Year:
Designer:

Type: Rocket Glider, Clone
Motor Mount: 1x18mm
Recovery: Glide
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Estes Falcon Family

Farside (TACL-012a)

MODEL NAME: **Farside** *Also known as*:

NUMBER: TACL-012a

Introduced:
Final Year:
Designer:

Type: 3 Stage, Payload, Clone
Motor Mount: 1x18mm/1x18mm/1x18mm
Recovery: Tumble/Tumble/Parachute
Stages: 3
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Farside Family

Farside X (TACL-012)

MODEL NAME: **Farside X** *Also known as*:

NUMBER: TACL-012

Introduced:
Final Year:
Designer:

Type: 3 Stage, Payload, Clone
Motor Mount: 1x18mm/1x18mm/1x18mm
Recovery: Tumble/Tumble/Parachute
Stages: 3
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Estes Farside Family

Flux Probe (TA-013)

MODEL NAME: **Flux Probe** *Also known as*:

NUMBER: TA-013

Introduced:
Final Year:
Designer: John Rowan-Stern

Out Of Production

Type: Sport
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length: 35"
Diameter: 0.76"
Span:
Weight: 1.2 oz

Mfg. Description: This long rocket was designed to be both eye catching and a high performer. At 35" long this rocket really stands out in a crowd! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

1 6 5 2

Goblin (TACL-005)

MODEL NAME: **Goblin** *Also known as*: Estes Goblin

NUMBER: TACL-005

Introduced: 2005
Final Year: 2008
Designer: Wayne Kellner

Type: Sport, Clone
Motor Mount: 1x24mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Also of interest: Estes Golbin Family

Gyroc (TACL-009)

MODEL NAME: **Gyroc** *Also known as*:

NUMBER: TACL-009

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Helicopter
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Estes Gyroc Family

Hank (TA-011)

MODEL NAME: **Hank** *Also known as*:

NUMBER: TA-011

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport, Cluster
Motor Mount: 2x18mm
Recovery: Parachute
Stages: 1
Length: 13.25"
Diameter: 1.327"
Span:
Weight: 2.0 oz

Out Of Production

Mfg. Description: You won't find to many kits like this. A compact 2 engine cluster is bound to turn some heads. Laser cut cluster rings and split fin design set this kit apart from anything you've ever seen. You can choose this kit with a number of different options. From no chute, to a rip stop nylon chute and differing mounts! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2007

Face Card(s)

Instruction Header

Also of interest:

Honest John (TACL-003)

MODEL NAME: **Honest John** *Also known as*:

NUMBER: TACL-003

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount:
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note: Clone of Estes K-27

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: MGR-1 Honest John Ordnance Family

Honest John (TACL-004)

MODEL NAME: **Honest John** *Also known as*:

NUMBER: TACL-004

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount:
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

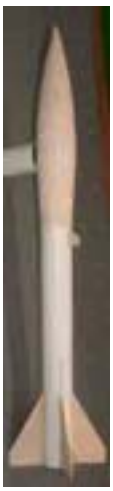
Out Of Production

Mfg. Description:

Editorial Note: Clone of Estes #1919

Catalog Liveries

Web Liveries



2008

Face Card(s)

Instruction Header

Also of interest: MGR-1 Honest John Ordnance Family

Little John (TACL-0020)

MODEL NAME: **Little John** *Also known as*:

NUMBER: TACL-020

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: MGR 3 Little John Ordnance Family

Mars Probe (TA-018)

MODEL NAME: **Mars Probe** *Also known as*:

NUMBER: TA-018

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Exotic
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 13.6"
Diameter: 0.978"
Span:
Weight: 1.1 oz

Mfg. Description: Mars Probe is a unique design that has a fin, ring/fin combination structure giving it a very distinctive look. Features include a balsa nose cone, Kevlar recovery system, Mylar parachute, reflective trim and water slide decal. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2005

Face Card(s)

Instruction Header

Also of interest:

Mars Snooper (TACL-024)

MODEL NAME: **Mars Snooper** *Also known as*:

NUMBER: TACL-024

Introduced:
Final Year:
Designer:

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Mars Snooper Family

Mighty Mick (TA-002)

MODEL NAME: **Mighty Mick** *Also known as*:

NUMBER: TA-002

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 25"
Diameter: 1.64"
Span:
Weight: 2.76 oz

Mfg. Description: This rocket was designed with versatility in mind without sacrificing performance. It will take a wide array of engines including C11 up through some of the more popular RMS engines. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

Mike IX (TA-015)

MODEL NAME: **Mike IX** *Also known as*:

NUMBER: TA-015

Introduced:
Final Year:
Designer: John Rowen-Stern

Type: Sport, Pseudo Ordnance, Cluster
Motor Mount: 3x24mm
Recovery: Parachute
Stages: 1
Length: 42"
Diameter: 2.6"
Span:
Weight: 8.8 oz

Out Of Production

Mfg. Description: Inspired by rockets of the military genre, this big high performance, three engine cluster kit will turn heads at the launch field! Features include a balsa nose cone, Kevlar recovery system, and 30" nylon parachute. Kit also features laser cut cluster rings and fully illustrated instructions. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Thrustline Mike IX Family

Mini Mike IX (TA-027)

MODEL NAME: **Mini Mike IX** *Also known as*:

NUMBER: TA-027

Introduced: 2007
Final Year:
Designer: John Rowen-Stern

Type: Sport, Pseudo Ordnance, Cluster, Downscale
Motor Mount: 3x13mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Thrustline Mike IX Family

Mosquito (TACL-042)

MODEL NAME: **Mosquito** *Also known as*:

NUMBER: TACL-042

Introduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x13mm
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Mosquito Family

Nike-X (TACL-002)

MODEL NAME: **Nike-X** *Also known as*:

NUMBER: TACL-002

Introduced:
Final Year:
Designer:

Type: Pseudo Scale, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Estes Nike-X Family

Omega (TACL-035)

MODEL NAME: **Omega** *Also known as*:

NUMBER: TACL-035

Introduced:
Final Year:
Designer:

Type: Sport, Payload, 2 Stage, Clone
Motor Mount: 1x24mm/1x24mm
Recovery:Tumble/Parachute
Stages: 2
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Omega Family

Orbital Interceptor (TACL-032)

MODEL NAME: **Orbital Interceptor** *Also known as*:

NUMBER: TACL-032

Introduced:
Final Year:
Designer:

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Orbital Interceptor Family

Orbital Transport
(TACL-043)

MODEL NAME: **Orbital Transport** *Also known as*:

NUMBER: TACL-043

Introduced:
Final Year:
Designer:

Type: Exotic, Boost Glider, Clone
Motor Mount: 1x18mm
Recovery: Glide/Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Orbital Transport Family

Patriot (TACL-036)

MODEL NAME: **Patriot** *Also known as*:

NUMBER: TACL-036

Introduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note: This is a clone of the Estes Patriot (#0652) that was part of the Citation serios, not the missile.

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes (Citation) Patriot Family

Pegasus (TACL-019)

MODEL NAME: **Pegasus** *Also known as*:

NUMBER: TACL-019

Introduced:
Final Year:
Designer: Mike Dorffler

Type: Exotic, Clone
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Pegasus Family

Pumpkin Head (TA-008)

MODEL NAME: **Pumpkin Head** *Also known as*:

NUMBER: TA-008

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x18mm or 1x24mm
Recovery: Parachute
Stages: 1
Length: 17"
Diameter: 1.6"
Span:
Weight: 2.4 oz

Out Of Production

Mfg. Description: This is a Thrustline original designed to be both eye catching and a high performer. It flies great on C11 or D12 motors! Or you can adapt it to fly on 18mm motors. Features balsa nose cone, Kevlar recovery system and water slide decal. Check out all the different options for this kit! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2005

2008

Face Card(s)

Instruction Header

Also of interest:

Ranger (TACL-026)

MODEL NAME: **Ranger** *Also known as*:

NUMBER: TACL-026

Introduced:
Final Year:
Designer:

Type: Sport, Cluster, Clone
Motor Mount: 3x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Ranger Family

Rogue (TACL-038)

MODEL NAME: **Rogue** *Also known as*:

NUMBER: TACL-038

Introduced:
Final Year:
Designer:

Type: Sport, Pseudo-Scale, Clone
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Rogue Family

Scamp (TACL-022)

MODEL NAME: **Scamp** *Also known as*:

NUMBER: TACL-022

Introduced:
Final Year:
Designer:

Type: Clone, Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages:
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Scamp Family

Scorpion ATGW (TA-026)

MODEL NAME: **Scorpion ATGW** *Also known as*:

NUMBER: TA-026

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Pseudo Ordnance
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length: 33"
Diameter: 1.64"
Span: 10.79"
Weight: 7 oz

Mfg. Description: It started out as an idea. A shoulder launched anti-tank weapon...or at least as fictitious one anyway.

At 33 inches, this kit will make you proud as it soars straight and true to altitude. Laser cut fins...Kevlar recovery cord...baffle system with laser cut ply baffle rings. It's all in there. Launch with 24mm motor, "D" or "E". It also comes with a great waterslide decal!

Thanks to Donald Besaw Jr. for all his efforts helping me finalize the testing of this kit. His help and input with this particular kit assured it's success. Thanks Don! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Sea Dart (TA-014)

MODEL NAME: **Sea Dart** *Also known as*:

NUMBER: TA-014

Introduced:
Final Year:
Designer: John Rowan-Stern

Out Of Production

Type: Pseudo Ordnance
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 21.5"
Diameter: 1.325"
Span:
Weight: 2.5 oz

Mfg. Description: High performance, single engine rocket in a Naval Anti-Ship design. Features include a balsa nose cone, Kevlar recovery system, Mylar parachute and water slide decal. Thanks to Martin Vrstal for the great photo! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

1 6 7 6

Seeker (TA-009)

MODEL NAME: **Seeker** *Also known as*:

NUMBER: TA-009

Introduced:
Final Year: 2006
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 23.4"
Diameter: 1.325"
Span:
Weight: 1.68 oz

Out Of Production

Mfg. Description: This is a great sport flyer/pay loader and a real crowd pleaser. Like all Thrustline kits, it incorporates a Kevlar recovery system and great precision parts! (Thrustline 2006 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2006

Face Card(s)

Instruction Header

Also of interest:

Smoke N’ Fire (TA-010)

MODEL NAME: **Smoke N’ Fire** *Also known as*:

NUMBER: TA-010

Introduced:
Final Year:
Designer: John Rowan-Stern

Out Of Production

Type: Sport, Cluster
Motor Mount: 3x24mm
Recovery: Parachute
Stages: 1
Length: 35"
Diameter: 2.6"
Span:
Weight: 8.6 oz

Mfg. Description: This rocket stands an impressive three feet tall! It features a three engine cluster mount which houses 18mm or 24mm motors. Five fins on both the booster and payload sections! The rocket recovers in two sections under two parachutes. Other features include a balsa nose cone and Kevlar recovery system. Each kit comes hand signed and numbered by the designer. Another quality kit from Thrustline Aerospace. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

Space Man (TACL-044)

MODEL NAME: **Space Man** *Also known as*:

NUMBER: TACL-044

Introduced:
Final Year:
Designer:

Out Of Production

Type: Oddroc, Clone
Motor Mount: 1x18mm
Recovery: Featherweight
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Spaceman Family

Sprint (TACL-018)

MODEL NAME: **Sprint** *Also known as*:

NUMBER: TACL-018

Introduced:
Final Year:
Designer: Mike Dorffler

Type: Clone, Streamer Duration
Motor Mount: 1x18mm
Recovery: Streamer
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Sprint Family, Streamer Duration Family

Sprite (TACL-031)

MODEL NAME: **Sprite** *Also known as*:

NUMBER: TACL-031

Introduced:
Final Year:
Designer: Gene Street

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: Tumble
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Sprite Family

Star Hauler (TA-005)

MODEL NAME: **Star Hauler** *Also known as*:

NUMBER: TA-005

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport, Payload
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22.8"
Diameter: 1.33"
Span:
Weight: 1.32 oz

Out Of Production

Mfg. Description: Looking for a rather unique payload rocket? Great flying qualities make this the perfect Sunday flier. Features include a balsa nose cone and transitions, Kevlar recovery system, and clear payload section. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

Starliner (TACL-021)

MODEL NAME: **Starliner** *Also known as*:

NUMBER: TACL-021

Introduced:
Final Year:
Designer: Michael Hambright

Type: Exotic, Clone
Motor Mount: 1x13mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description: DESC

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Estes Starliner Family

Starship Electra (TA-025)

MODEL NAME: **Starship Electra** *Also known as*:

NUMBER: TA-025

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Exotic
Motor Mount: 1x24mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Tribute II (TA-022)

MODEL NAME: **Tribute II** *Also known as*:

NUMBER: TA-022

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport, Cluster
Motor Mount: 2x18mm + 1x24mm
Recovery: Parachute
Stages: 1
Length: 23.7"
Diameter: 2.6"
Span: 10"
Weight: 4 oz

Mfg. Description: What a great kit for all occasions! Three engine in-line cluster kit that can be flown with 2-18mm motors, 1-24mm motor....or all three! laser cut lite ply cluster rings make building the motor mount a breeze! Kit also comes with a great waterslide decal to dress it up as you see it. Thanks to R.S. Barker for beating the rain and completing all of the beta testing and photos! (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Trident (TACL-034)

MODEL NAME: **Trident** *Also known as*:

NUMBER: TACL-034

Introduced:
Final Year:
Designer:

Type: Exotic, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Trident Family

V2 (TA-019)

MODEL NAME: **V2** *Also known as*:

NUMBER: TA-019

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 14.6"
Diameter: 1.6"
Span:
Weight: 3.4 oz

Mfg. Description: This is a Thrustline original scale kit of the famous German WWII rocket, The V2! This kit was researched and design by Thrustline and beta tested by Donald Besaw. The kit is an easy to assemble rocket that performs well. It comes complete with fully illustrated instructions for building and flying. This is a great kit for smaller fields. You can expect altitudes starting at 275 feet up to 700 feet with a C6-5. Here is a look at what you get:

- Balsa Nose Cone
- Balsa Tail Cone
- Engine and body Tubes
- Centering rings
- Pre-measured nose weight
- Kevlar and Elastic Shock recovery system
- 18" Mylar parachute
- Fin patterns and fin stock
- Fully illustrated instruction booklet (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2005

2008

Face Card(s)

Instruction Header

Also of interest: V2 Ordnance Family, V2 Launch Vehicle Family

V-2 (TACL-016)

MODEL NAME: **V-2** *Also known as*:

NUMBER: TACL-016

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight

Mfg. Description:

Editorial Note: Clone of Estes K-22

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: V-2 Ordnance Family, V-2 Sounding Rocket Family, V-2 Launch Vehicle Family

WAC Corporal (TACL-014)

MODEL NAME: **WAC Corporal** *Also known as*:

NUMBER: TACL-014

Introduced:
Final Year:
Designer:

Type: Scale, Clone
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: WAC Corporal Sounding Rocket Family

X-Ray (TACL-011)

MODEL NAME: **X-Ray** *Also known as*:

NUMBER: TACL-011

Introduced:
Final Year:
Designer:

Type: Payload, Clone
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest: Estes X-Ray Family

Yellow Jacket (TACL-040)

MODEL NAME: **Yellow Jacket** *Also known as*:

NUMBER: TACL-040

Introduced:
Final Year:
Designer:

Type: Sport, Clone
Motor Mount: 1x18mm
Recovery: 1
Stages: Parachute
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Estes Yellow Jacket Family

Zack Attack (TA-003)

MODEL NAME: **Zack Attack** *Also known as*:

NUMBER: TA-003

Introduced:
Final Year:
Designer: John Rowan-Stern

Type: Sport
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1
Length: 22"
Diameter: 0.98"
Span:
Weight: 0.6 oz

Out Of Production

Mfg. Description: This kit was designed with sport rocketry in mind. It can be flown in both a small and large field environment. Features include a balsa nose cone, two balsa transitions and Kevlar recovery system. (Thrustline 2008 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2008

Face Card(s)

Instruction Header

Also of interest:

1 6 9 6

Urban Kartonmodelle

Master List for **Urban Kartonmodelle** by Name

Mercury Little Joe

Mercury Little Joe

MODEL NAME: **Mercury Little Joe** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale, Cardstock
Motor Mount:
Recovery:
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Little Joe Launch Vehicle Family

U.S. Rockets (USR)

U.S. Rockets

Box 1242

Claremont, CA 91711 USA

http://www.usrockets.com/

1700

About US Rockets

INTRODUCTION U.S. Rockets was founded in 1980 by advanced model rocketeers to serve an expanding definition of consumer rocketeers. U.S. Rockets products poineered the concept and definition of Large Model Rockets (LMR) which are now defined as under 125g (0.28 pounds) propellant and under 1500g (3.3 pounds) liftoff weight. This is the current definition of a "model rocket" in the NAR safety code.

In 1984 U.S. Rockets succeeded in convincing NAR to consider studying High Power Rockets (HPR) for inclusion into the safety code regime. NAR formed a commission to study rockets which exceeded the then safety code limits of propellant and liftoff weight. The result of a NAR multiyear study during which several other associations formed to serve HPR consumers, was that NAR decided to adopt HPR as a valid consumer sport and define a safety code almost identical to the USR version (except excessive offset distances): the NAR HPR safety code. Following that NAR codified these codes and other rules, with the defects and excesses in place, into NFPA-1122 and NFPA-1127 in cooperation with other industry groups and interested parties including all major manufacturers, but with some specific objections from small manufacturers related to recreational BP handling, club tethering, and offset distance issues, which in hindsight has virtually eliminated "lone ranger" users, about 90% of the market for HPR size rockets and motors. Needs Fixin'. Safety Codes Link.

ROCKET KITS U.S. Rockets rocket kits are reuseable airframes which accept a wide variety of motor powers, thrusts, diameters and propellant types. Exploring the variety offered by these choices is the fun of the sport of consumer rocketry. Enjoy!

(Company Web Statement 2012)

Master List for **USR** by Name

Mosquito 2.2	#1174	*Sport and School Series*

Master List for **USR** by *Number*

#1174	Mosquito 2.2	*Sport and School Series*

Mosquito 2.2 (#1174)

MODEL NAME: **Mosquito 2.2** *Also known as*:

NUMBER: #1174

Introduced:
Final Year:
Designer: Jerry Irvine

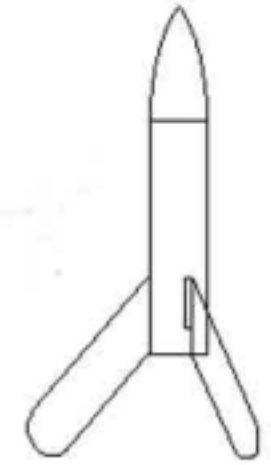
Type: Sport, Upscale
Motor Mount: 1x29mm
Recovery: Streamer
Stages: 1
Length: 17.5"
Diameter: 2.25"
Span:
Weight: 107g

Mfg. Description: MOSQUITO 2.2 is a familiar sport model with 29mm "Host Mount-tm" and 24mm "Interchange Mount-tm" included. This rocket is recomended for schools, recreation programs and sport flying! It can fly on as little as C6-3 (with 18mm "interchange Mount-tm" not included) and flies surprisingly well on D12-5 or E9-6. Best flights are with 29mm F and G motors! Its very strong and lightweight construction makes it fly surprisingly high compared to other rocket kit brands. Test it for yourself! (USR 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries



2004

2005

2010

2012

Face Card(s)

Instruction Header

Also of interest: Estes Mosquito Family, USR Sport and School Family

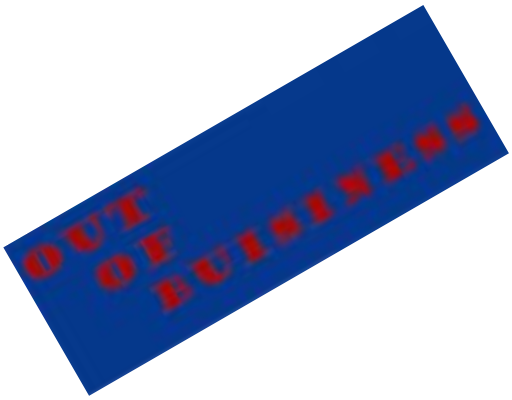
Vaughn Brothers Rocketry

4575 Ross Drive

Paso Robles, CA 93446

Phone: 805/239-3818

Fax: 805/239-0292



About Vaughn Brothers

Vaughn Brothers Rocketry has been established to produce a product that excites Rocketeers in both the model and high power communities. At VBR we are dedicated to bringing established technology and new innovations to rocketry.

Vaughn Brothers Rocketry was formed in 1992 to produce a line of model rocket kits utilizing high power technology. Our rocket kits consist of light weight airframes and nose cones, machined plywood centering rings, fiberglass fins, and sturdy rip-stop nylon parachutes. The original idea behind our product line is to bring fun and challenging flying back to the smaller fields.

Since then we have added medium and high power kits, and expanded our ground support and accessories. Also new is a complete line of components for building your own rockets.

From the people at VBR enjoy our products and have a great time flying!

(Company Web Statement 1999)

Master List for **Vaughn Brothers** by Name

Javelin

Javelin

MODEL NAME: **Javelin** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 60"
Diameter: 2.6"
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest:

Wildman Rocketry

Wildman Rocketry

P.O. Box 33

25996 N. 2750 Rd.

Van Orin, IL 61374

PHONE: Toll Free 1 (815) 638-3200

FAX: 1 (815) 638-3412

sales@wildmanrocketry.com

http://www.wildmanrocketry.com/

Master List for **Wildman Rocketry** by Name

DarkStar
DarkStar 4
DarkStar 4 Dual Deploy
DarkStar Extreme
DarkStar JR
DarkStar JR Dual Deploy
DarkStar Lite
DarkStar Mini
Ultimate DarkStar
Ultimate Wildman
Warrior Jr.
Wild Child
Wildman
Wildman 22
Wildman Dual Deploy
Wildman Extreme
Wildman JR

DarkStar

MODEL NAME: **DarkStar** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 2.1"
Span:
Weight: 4.5 lbs

Mfg. Description:

Editorial Note: The original DarkStar has been "discontinued" and re-branded as the "DarkStar JR DD".

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Image of Completed Darkstars from Instructions

2011 Sales Brochure

Also of interest: Wildman Darkstar Family

DarkStar 4

MODEL NAME: **DarkStar 4** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 60"
Diameter: 4"
Span:
Weight:

Mfg. Description: THE DARKSTAR GROWS UP

Wildman Hobbies is pleased to announce the long awaited release of the Dark Star 4. This version of the Dark Star rocket is 4 inches in diameter, and over 5 feet tall

Specifications:

- Length - 54"
- Width - 4"
- Motors - I to K

This Kit Includes:

- 42" long, 4" dia. slotted Fiberglass Booster
- 4" Fiberglass Von Karman 5-1 Nose Cone
- Fiberglass bulk plate
- 54mm Fiberglass Motor Mount tube
- 6 - 1/8" thick beveled G10 Fins
- 4 - centering rings (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Other Printed Matter

2012 Sales Brochure

Also of interest: Wildman DarkStar Family

DarkStar 4 Dual Deploy

MODEL NAME: **DarkStar 4 Dual Deploy** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 4"
Span:
Weight:

Mfg. Description: The Dark Star Dual Deploy
4" Diameter all Fiberglass Rocket
Features
40 inch G12 Booster
20 inch G12 Payload
8 inch Coupler
Von Karmen filament wound M/T nose cone
1/8 G10 fins
54mm G12 Motor Mount
4 Centering rings
Fiberglass Bulk Plates (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Wildman DarkStar Family

DarkStar Extreme

MODEL NAME: **DarkStar Extreme** *Also known as*: DarkStar Xtreme 4, Extreme DarkStar, DarkStar 4 Extreme

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x75mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 4"
Span:
Weight:

Mfg. Description: TAKING IT TO THE MAX

Leave it to Wildman to push the Darkstar to the Max with this radical upgrade. No Mildmen allowed!

This beast is ready to rock on any motor you can stuff in it! Finally the upscale of the original is here and the skies the limit.

This Kit Includes:

- 4" Fiberglass Booster 52" Long
- 4" Fiberglass Payload 24" Long
- 4" 5-1 Von Karman Nose Cone
- 75mm Fiberglass Motor Mount
- 3/16" Thick G10 Beveled Fiberglass Fins
- Fiberglass Centering Rings
- 4" Bulk plates
- High Quality tubular nylon
- Kevlar bridal
- Quick links,nuts washers (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

2012 Instruction Image

2012 Sales Brochure

Also of interest: Wildman DarkStar Family

DarkStar JR

MODEL NAME: **DarkStar JR** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 2.1"
Span:
Weight: 4.5 lbs

Mfg. Description: This new fiberglass dual deployment rocket features a 38mm motor mount, making it a great L1 or L2 certification kit. Standing nearly five feet tall and measuring 2.1" in diameter, it weighs just 4.5 pounds and can be flown on motors from H through J impulse. (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Wildman DarkStar Family

DarkStar JR Dual Deploy

MODEL NAME: *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 2.1"
Span:
Weight:

Mfg. Description

Editorial Note: The original DarkStar has been "discontinued" and re-branded as the "DarkStar JR DD".

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Wildman DarkStar Family

DarkStar Lite

MODEL NAME: **DarkStar Lite** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 44"
Diameter: 2.1"
Span:
Weight: 1.25 lbs

Mfg. Description: THE ORIGINAL DARKSTAR'S LITTLE BROTHER

This new fiberglass rocket features a new lightweight spiral fiberglass airframe tube and comes with a 29mm motor mount, making it a great L1 certification kit. Standing nearly 44 inches tall and measuring 2.1" in diameter, it weighs just 1.25 pounds and can be flown on motors from E through I impulse. (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

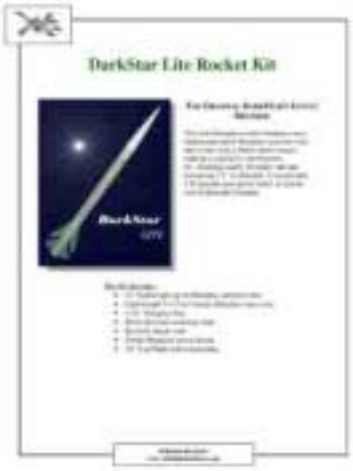
2012

Face Card(s)

Instruction Header

Other Printed Matter

2012 Instruction Image



2012 Sales Brochure

Also of interest: Wildman DarkStar Family

DarkStar Mini

MODEL NAME: **DarkStar Mini** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Other Printed Matter

2012 Instruction Image

Also of interest: Wildman DarkStar Family

Ultimate DarkStar

MODEL NAME: **Ultimate DarkStar** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x98mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 6"
Span:
Weight:

Mfg. Description: ULTIMATE DARK STAR FIBERGLASS KIT

This amazing kit includes.

6" diameter 60" long booster
6"diameter 48" long payload
6" coupler 18" long
Switch band
98mm motor mount
3/16 thick G10 fins
6"-5-1 Fiberglass nose cone
4 centering rings
3 coupler bulk platesn(Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Wildman DarkStar Family

Ultimate Wildman

MODEL NAME: **Ultimate Wildman** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount:
Recovery: Parachute
Stages: 1
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header

Also of interest: Wildman Wildman Family

Warrior Jr.

MODEL NAME: **Warrior Jr.** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 2.1"
Span:
Weight: 4.5 lbs

Mfg. Description: This new fiberglass dual deployment rocket features a 38mm motor mount, making it a great L1 or L2 certification kit. Standing nearly five feet tall and measuring 2.1" in diameter, it weighs just 4.5 pounds and can be flown on motors from H through J impulse.

This Kit Includes:

- 1 Fiberglass booster airframe
- 1 Fiberglass payload bay
- 1 Fiberglass coupler
- 1 Fiberglass avionics bay switch band
- 6 Fiberglass fins
- 4 fiberglass centering rings
- Fiberglass bulk plates
- 38mm fiberglass mmt (Wildman 2012 Web Ad)

Editorial Note:

Web Liveries

2012

Face Card(s)

Wild Child

MODEL NAME: **Wild Child** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport, Downscale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 38mm
Span:
Weight: 1.2lb

Mfg. Description: CLASSIC WILDMAN ROCKET “MINI”

Scaled down version of the rocket that started it all! The Wild Child! - a "mini" version of the venerable Wildman Rocket. Finally, an all glass mid-power kit for the masses. The Wild Child weighs in at 1.2 lbs and will fly on “E” to “I” motors.

This Kit Includes:

- 1.5” dia. 24” long lightweight fiberglass body tube
- 1.5” light weight fiberglass Von Karmen nose cone
- 1/16” fiberglass fins
- 29mm fiberglass motors mount tube
- Fiberglass centering rings (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Wildman Wildman Family

Wildman

MODEL NAME: **Wildman** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 48"
Diameter: 3"
Span:
Weight: 3lb 5oz

Mfg. Description: The Kit That Started It All.

This was the first rocket kit designed by Wildman and it continues to be a solid performer. This brute was designed to last and comes with a lifetime guarantee* Who else but the Wildman can offer this.

This Kit Features:

- All fiberglass construction
- Weighs 3lbs. 5oz.
- 48 inches tall
- 3 inches in diameter
- 54mm motor mount
- Kevlar bridal
- Easy to assemble
- Detailed instructions
- Hawk Mountain design
- Dual deployment recovery option
- High Quality tubular nylon (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Wildman Wildman Family

Wildman 22

MODEL NAME: **Wildman 22** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Booster Stage
Motor Mount:
Recovery: Parachute
Stages: 1 (Booster)
Length:
Diameter:
Span:
Weight:

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Wildman Wildman Family

Wildman Dual Deploy

MODEL NAME: **Wildman Dual Deploy** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 3"
Span:
Weight:

Mfg. Description: This kit was designed to take any motor put in the pipe and ask for more.
This all Fiberglass kit is 3" diameter.
The kit includes
48" booster
24" payload
9"coupler
Switch Band
54mm Motor Mount
1/8 G10 Fins
3-5-1 nose cone
Kevlar Bridal
High Quality tubular nylon
Welded Eye bolts
quick links
nuts,washers,ect. (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Wildman Wildman Family

Wildman Extreme

MODEL NAME: **Wildman Extreme** *Also known as*: Extreme Wildman

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x75mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 4"
Span:
Weight:

Mfg. Description: This 4" diameter Fiberglass kit will push the limits to the extreme.
It was designed to take any 75mm motor available.
The Kit Includes
52" long booster
24" long payload
12" long coupler
switch band
75mm motor mount
4-5-1 nose cone
centering rings
high quality tubular nylon
kevlar bridal
welded eyebolts
quick links,washers,nuts,ect. (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

Instruction Header

Also of interest: Wildman Wildman Family

Wildman JR

MODEL NAME: **Wildman JR** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length:
Diameter: 2.1"
Span:
Weight:

Mfg. Description: A ROCKET DESIGNED FOR EVERYONE FROM THE MILD TO THE WILD!!
Now everyone can own a Wildman. This rocket will fly on anything from an F motor to the longest 38mm J motor you can get your hands on. And its totally modular -- you can fly it single deployment or dual deployment, which ever you prefer, by just removing a quick link and moving the parachute and nose cone. And once again, Wildman is putting their money where their mouth is by backing this kit with a Lifetime Guarantee. (Wildman 2012 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries

2012

Face Card(s)

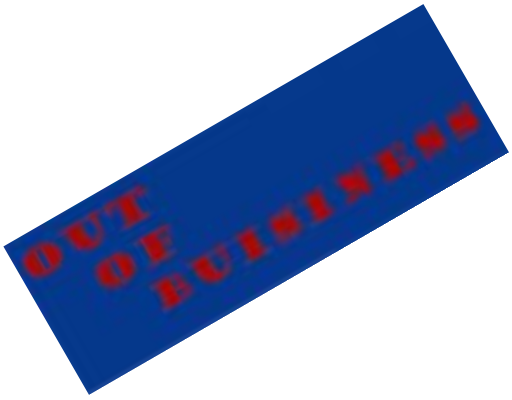
Instruction Header

Also of interest: Wildman Wildman Family

Yank Enterprises (Yank)

Yank Enterprises
P.O. Box 156
Plymouth, WI 53073

Phone: 920-892-6722
Fax: 810-454-0152



About Yank Enterprises

We are located in Plymouth, Wisconsin. All of us fly regularly at Bong Recreational Area along with Tripoli Wisconsin Association. The idea of Yank Enterprises started out as a hobby shop. Trains, planes, r/c cars, rockets.....etc. Since all of us only knew about rocketry, and really didn't have the ambition to learn about the other things. What's the use of starting a hobby shop with 5 people working in the rocketry section!!! We have a name, now all we have to do is think of something to do! So, we accomplished the next best thing, Yank Enterprises "rocket kit manufacturer" yup, that was it. Lets get some ideas and start designing kits! Our products here are just the start of it. Many more kits, innovations, and different products to come your way! All of us are level 2 certified, Andy and possibly the rest of us are going for our level 3 this up coming season. Thanks for the visit and be sure to check back soon!

(Company Web Statement 2000)

Master List for **Yank Enterprises** by Name

Astrobee D (2”)
Black Brant X (2”)
Black Brant X (3”)
Black Brant X (4”)
Bullet (4”)
Concept One (4”)
Genesis (3”)
IQSY Tomahawk (3”)
IQSY Tomahawk (4”)
Iris (2”)
Iris (3”)
Iris (4”)
Mystic Buzz (3”)
Sandhawk (2”)
Sandhawk (3”)
Wraith (2”)

Astrobee D (2”)

MODEL NAME: **Astrobee D (2”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 54"
Diameter: 2"
Span:
Weight: 20 oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: Astrobee Sounding Rocket Family

Black Brant X (2”)

MODEL NAME: **Black Brant X (2”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 54"
Diameter: 2"
Span:
Weight: 20oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: Black Brant X Sounding Rocket Family

Black Brant X (3”)

MODEL NAME: **Black Brant X (3”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 82"
Diameter: 3"
Span:
Weight: 60oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: (Carde) Black Brant X Sounding Rocket Family

Black Brant X (4”)

MODEL NAME: **Black Brant X (4”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 109"
Diameter: 4"
Span:
Weight: 90oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: (Carde) Black Brant X Sounding Rocket Family

Bullet (4”)

MODEL NAME: **Bullet (4”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 40"
Diameter: 4"
Span:
Weight: 39oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest:

Concept One (4”)

MODEL NAME: **Concept One (4”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 80"
Diameter: 4"
Span:
Weight: 85 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest:

Genesis (3”)

MODEL NAME: **Genesis (3”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 48"
Diameter: 3"
Span:
Weight: 35oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest:

IQSY Tomahawk (3”)

MODEL NAME: **IQSY Tomahawk (3”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 66"
Diameter: 3"
Span:
Weight: 40oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: (Sandia) D Region Tomahawk Sounding Rocket Family

IQSY Tomahawk (4”)

MODEL NAME: **IQSY Tomahawk (4”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 88"
Diameter: 4"
Span:
Weight: 85oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: (Sandia) D Region Tomahawk Sounding Rocket Family

Iris (2”)

MODEL NAME: **Iris (2”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 39"
Diameter: 2"
Span:
Weight: 16 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: Iris Sounding Rocket Family

Iris (3”)

MODEL NAME: **Iris (3”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x38mm
Recovery: Parachute
Stages: 1
Length: 60"
Diameter: 3"
Span:
Weight: 40 oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: Iris Sounding Rocket Family

Iris (4”)

MODEL NAME: **Iris (4”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Scale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 80"
Diameter: 4"
Span:
Weight: 85 oz

Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: Iris Sounding Rocket Family

Mystic Buzz (3”)

MODEL NAME: **Mystic Buzz (3”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 48"
Diameter: 3"
Span:
Weight: 35oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest:

Sandhawk (2”)

MODEL NAME: **Sandhawk (2”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x29mm
Recovery: Parachute
Stages: 1
Length: 54"
Diameter: 2"
Span:
Weight: 20oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: (Sandia) Sandhawk Sounding Rocket Family

Sandhawk (3”)

MODEL NAME: **Sandhawk (3”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Out Of Production

Type: Scale
Motor Mount: 1x54mm
Recovery: Parachute
Stages: 1
Length: 80"
Diameter: 3"
Span:
Weight: 60oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest: (Sandia) Sandhawk Sounding Rocket Family

Wraith (2”)

MODEL NAME: **Wraith (2”)** *Also known as*:

NUMBER:

Introduced:
Final Year:
Designer:

Type: Sport
Motor Mount: 1x29mm
Recovery: Streamer
Stages: 1
Length: 37"
Diameter: 2"
Span:
Weight: 13oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries

2000

Face Card(s)

Instruction Header

Also of interest:

The Aftermath

Sources for *The Rocketry Index*

In putting this together, my primary sources have been the catalogs wherever possible. Most of these have been attained through http://ninfinger.org/. Of course, some companies do not put out catalogs. For those, I try to get what I need from their websites, assuming that the company is still in business and has a website. For those companies that have folded for any reason, the Wayback Machine web archives have often been helpful but the coverage is spotty. Also, you must have the URL exactly right. Google does not work there.

At times, it seems like I have all the needed information before me but still can't make sense of it. At times like that, the people of Ye Olde Rocket Forum have come in handy. They have a wealth of information. Other forums, particularly The Rocketry Forum, have also been estremely helpful.

What You Can Do To Help

Most of all, you can let me know when you find a problem or a mistake. I hate making mistakes but I do make them all too often. I can be contated through Rocketryforum.com where my "handle" is JAL3. I can also be contacted by email: John@JAL3.net.

If you have a suggestion, that would be most welcome as well. The contact information given abovc works for suggestions as well.

Another way you can be extremely useful is by providing data. A close examination of the entries in *The Rocketry Index* will show that there are holes. I can't put out what I don't have. I relied heavily on the catalogs made available from Ninfinger, Ye Olde Rocket Forum and the others venues mentioned above. In some cases, I have been able to download catalogs directly from the manufacturers. Taken together, this provides a lot of information but still the holes persist. If you have information in the form of catalogs, old brochures, or other resources, please consider sharing those sources. I'll even volunteer to do the grunt work. If you have something that may be of use to others and entrust it to me, I'll scan it and return it safely to you. In turn, I can use the information to make this a more comprehensive resource and I'd like to pass it along to YORF for others to use as well.

A similar case can be made for the materials from individual rockets as well. Before building a rocket, please consider making scans of the decals and parts. Of course, my offer to do the scanning applies here as well but I can see how that would be a bit more problematical. Scans of instructions and facecards would be appreciated as well and here my offer to do the scanning become a bit more practical again. I will scan everything and return the originals to you...but I need the raw materials to work with.

Company Information

I had never heard of many of the companies included here in the Index before seeing some obscure refference on one of the forums or a photo posted in the TRF galleries. Many I still know only from a single example. One of the purposes of this work is to try and make sure that these small, but important, players in the hobby rocket industry are not forgotten. When you have informa-

tion, please let me know!

Rocketeers' Views of the Companies

For each company included here in the index, I want to try and include at least one "article" written by a person who has some familiarity with the company. These articles are not intended to be marketing and advertising tools but, instead, are intended to describe the niche filled by the company from the point of view of the customer.

We all know that some companies are more "reliable" than others and I don't want to try and whitewash the reputation of any of them. Still, the purpose of this section is not to lambaste anyone but to describe what the company does do and how they do it. I can think of one particular company that is known for a fairly shoddy product when compared to most other manufacturers. Even so, they have been around a while and many of their offerings are unique, available nowhere else. I want to include the good and the bad.

I intend to solicit these articles from people I know have some familiarity with the company involved but that is not to say that others are not free to contribute as well. If you have first hand experience, your input would be most welcome. In general for this, I am looking for articles that are about the size of one typewritten page or less. If you have a photo of yourself with examples of the products, that would be most welcome as well. A caveat to remember is that these will be attributed articles. I will include names, not forum handles.

Rocketeers' Observations on the Rockets

Something else I want to invite people to contribute is information on the rockets themselves. This should be your information, not reputation or hearsay. It's also not the place to say, "the Ultra-Roc is my favorite and everyone should have one!" You can include something like that if you wish but I am looking for something more like, "The Ultra-Roc is my most dependable egglofter. It was easy (hard, impossible, tedious, etc.) to assemble but it brings the egg down safely each time, even in a high wind. It may not always win but it does always qualify."

Do you see the difference? The former is just a rah-rah statement. The latter tells something about the rocket.

For these "blurbs", I am looking for something shorter than in the company articles. Anything from a single sentence to a paragraph will do. Again, they will be attributed and there will be nothing wrong with a rocket having multiple entries or with a person having entries for multiple rockets.

Let other people have the benefit of the experience you have gained first hand.

Revision History

This may be useful to nobody but me...but it is useful to me. As I complete each task, I note it here. That comes in handy on occasion, to see what order things were done. That helps in opdating and correcting mistakes.

From this list, it will seem at first as if there is madness to the order in which tasks are done. I assure you that is not the case. In general, I am working alphabetically but first, making entries for those rockets that have associated galleries on TRF. If you are mad because your favorite doesn't appear, the cure is to post it in a gallery. Then it moves to the top of the list. Note that "E" had already been commenced on TRF before this index was begun. It will take some time to work around to"A" again.

My goal is to "publish" a monthly update. The first number in the revision number is the year, the second is the month.

When publicizing updates to The Rocketry Index, I will simply cut and paste the relevant portions of this table to show what has been added.

12.09

Add Estes Star Stryker #3206
Add Rocwerks Reactor #101
Set up Rocwerks Master Lists
Add Rocwerks Company Info
Establish Rocwerks Section
Add PemTech Kraken
Establish PemTech Kraken Family
Establish PemTech Patriarchal Family Group
Add PemTech King Kraken
Set up PemTech Master List
Add PemTech Company Statement
Add PemTech Company Info
Establish PemTech Section
Add PML Bull Puppy 2.1
Establish AGM-12 Bullpup Ordnance Family
Add PML Bull Puppy
Add Semroc Omega KV-64
Add Wildman Wild Child
Add Wildman Wildman JR
Add Wildman Wildman Dual Deploy
Add Wildman Wildman 22
Add Wildman Wildman
Add Wildman Ultimate Wildman
Establish Wildman Wildman Family
Add Wildman Wilman Extreme
Update CMR Buzzard BG4
Update CMR Orbitran BG3
Update CMR Sting Ray BG-2
Update CMR Manta BG-1
Update CMR D-Region Tomahawk S-1
Update Estes Monarch #7214
Add LOC Onyx PK-12
Add LOC Cyclotron PK-47
Establish (Sandia) Doorknob Sounding Rocket Family
Establish Fliskits Robert H. Goddard Historic Series Marketing Family
Establish (Goddard) Nell Sounding Rocket Family
Add Fliskits Nell SC003
Add LOC Stovi PK-40
Add Red River StarLiner DST K-005
Set up Red River master lists
Add Red River Company Statement
Add company info for Red River
Establish Red River Rocketry Section
Add Estes Viking #1755
Establish Estes Viking Family
Add Estes Viking #1949

12.08

Add Yank Black Brant X 4"
Add Yank IQSY Tomahawk 4"
Add Yank Bullet 4"
Add Yank Concept One 4"
Add Yank IQSY Tomahawk 3"
Add Yank Black Brant X 3"
Add Yank Sandhawk 3"
Add Yank Mystic Buzz 3"
Add Yank Genesis 3"
Add Yank Wraith 2"
Establish (Sandia) Sandhawk Sounding Rocket Family
Add Yank Sandhawk (2")
Establish Black Brant X Sounding Rocket Family
Add Yank Black Brant X 2"
Add Yank Astrobee 2"
Add Cygnus 76er
Add Cygnus Blazer
Update Centuri Hustler KF-10
Update Centuri Aero-Dart KF-12
Update Centuri Explorer KF-9
Add Centuri Jaguear KF-4
Update Centuri Scorpion KF-6
Update Centuri Lil' Hustler KF-8
Update Centuri X-21 BG-21
Update Centuri T Bird KC-9
Update Centuri Centaur KC-15
Update Centuri Arcon Hi KC-3
Update Centuri Arcon KC-1
Update Centuri Micro-Probe KB-22
Update Centuri Black Widow KB-6
Update Centuri Javelin KC-31
Update Centuri Payloader II KC-20
Update Cygnus X-1 NEAV
Add Cygnus Critter
Add Wildman Warrior Jr
Add Semroc Recruiter Space Probe KV-22
Establish Centuri Recruiter Family
Add Centuri Recruiter KC-30
Update Centuri Lil' Hercules KA-1
Update Centuri Micron KA-5
Add LOC Hi-Tech PK-56
Add LOC EZI-65 Mini #0175
Establish LOC EZI-65 Family
Add LOC EZI-65 PK-64
Add Centuri Honest John KC-25
Add Yank Iris 2"
Add Yank Iris 3"
Add Yank Iris 4"
Set up Yank master list
Add Yank company info
Establish Yank Enterprises Section
Add Semroc Iris KD-4
Establish Iris Sounding Rocket Family
Add Centuri Iris KC-14
Update Centuri Astrobee 350 KC-5
Add CMR Chameleon C12
Add CMR Hyper C2
Add CMR VIP C11
Add CMR Pen C10
Add CMR Start C7
Add Performance Rocketry Gizmo XL
Establish Performance Rocketry Gizmo Family
Establish Performance Rocketry Patriarchal Family Group
Add Performance Rocketry Gizmo
Add LOC Nuke Pro Max PK-5
Establish LOC Novice Kit Series Marketing Family
Add LOC Lil' Nuke PK-4
Establish LOC Mini Missile Family
Add LOC Big Nuke Mini #0174
Add LOC Big Nuke 3E PK-82-3E
Establish LOC Nuke Family
Add LOC Big Nuke PK-82
Add Estes Nike Smoke #9704
Add Semroc Hydra One KA-18
Establish Semroc Retro Repro Family
Add Semroc Hydra VII KV-29
Establish Semroc Hydra VII Family
Establish Semroc Patriarchal Family Group
Add Semroc Hydra VII KB-7
Add MMWW (Estes) Tornado #338
Add Estes Twister #1449
Establish Estes Tornado Family
Add Estes Tornado #2004
Add Estes Mini Meanie #1202
Add CMR Effy C4
Add CMR Rapier C5
Add Estes Moon Mutt #1476
Add Custom Redliner #10011
Add CMR Marcus C6
Add CMR Robin C9
Establish Egg Lofter Family
Add CMR ELO C3
Add CMR Paratrooper C8
Add CMR Break Away C1
Establish Applewhtie Spartan Family
Add Applewhite 13mm Spartan
Establish CMR Manta Family
Establish CMR Patriarchal Family Group
Add CMR Orbitron BG3
Add CMR Buzzard BG4
Establish LOC ISP Performance Series Marketing Family
Add LOC Warlock PK-80
Add CMR Sting Ray BG2
Add CMR Manta BG1
Add Estes Sky Hook K-8
Add Estes Phantom K-7B
Establish Estes Phantom Family
Add Estes Phantom K-7
Update Estes Space Plane K-3
Add Estes WAC Corporal K-11
Establish Estes DOM Top Secret Family
Establish Estes DOM Patriarchal family group
Add Estes DOM Top Secret #78
Set up Estes DOM Master lists
Establish Estes DOM section
Add CMR D Region Tomahawk S1
Set up CMR Master Lists
Establish CMR Section
Add Apogee Saturn V #05026
Add Centuri Saturn 5 KS-12
Add DynaStar Stonebreaker #05028
Add MMWW (Estes) Sentinel #358
Establish Estes Sentinel Family
Add Estes Sentinel #1987
Add Estes Maxi-Brute V-2 #1952
Add ARR Basic Blues 4
Add ARR Basic Blues 3
Establish ARR Basic Blues Family
Establish ARR Patriarchal Family Group
Add ARR Basic Blues 38
Add BMS Gyroc K24
Add Madcow Arcas HV K-144
Add Estes Arcas K-26
Update AT G Force #82091
Establish Centuri Stellar Marketing Family
Add Centuri (Stellar) Hercules KD-13
Add AMROCS Wombat K-5
Set up AMROCS master lists
Establish AMROCS section
Add Estes Invader K-19
Add Excelsior Goonybird Zero
Add Fliskits Long OverDu SP008
Establish Fliskits OverDue Family
Establish Fliskit patriarchal family group
Add Fliskits OverDue OD001
Add NCR Big Brute K-53
Add Fliskits Decaffeinator SP011
Add MMWW (Estes) The Bat #344
Establish Estes Bat Family
Add Estes Hyper Bat #7217
Add MMWW (Estes) Optima #385
Update Estes Shadow #2094
Add Estes Eclipse #0846
Add Shrox Icarus
Set up Shrox master list
Establish Shrox Industria Section
Establish Quest Advanced Rockety Marketing Family
Establish Quest Marketing family group
Add Quest High-Q #5012
Add Estes Bail-Out #2070
Add TLP Scimitar K027
Add Custom Venture #10019
Add Estes V-2 #1926
Add Estes V-2 K-22
Add Centuri SSV Scorpion #5307
Add Estes Ninja #0882
Add Estes Echo #1950
Add Centuri Python Fighter #5358
Add Semroc SLS Javelin KLV-16
Add Sermroc Arcon-Hi KV-15
Add Excelsior Der Fat Max
Add Coaster Mercury
Add Coaster Space Probe I
Add Coaster Saturn
Add Centuri USS America #5310
Add Centuri Satellite 62SL KM-2
Add Estes Solar Probe #2051
Add Centuri Photon Probe KD-16
Add Semroc SLS Laser-X KLV-33
Add New Way Quad Goblin
Set up New Way Master list
Add New Way Company Statement
Add New Way company infor
Establish New Way Section
Add Coaster Centauri Dynasoar
Add Tango Papa 1.6x Mars Lander

Add Tango Papa 2x Mars Lander
Establish Estes Mars Lander Family
Add Tango Papa 1.6x Mars Lander
Set up Tango Papa Master list
Add Tango Papa Company info
Establish Tango Papa Section
Add Custom Serin #10038
Add Ace Mini-Allegro
Add Ace Sonic
Add Ace Shark
Add Ace Andante
Add Ace Ultra
Set up Ace master list
Add Ace company info
Establish Ace Rocket Mfg. section
Add Estes Challenger II #1330
Add Dr. Zooch Space Launch System
Add Madcow 4" Little John K-142
Add Madcow 2.6" Little John K-101

12.07

Add DG&A Armageddon 54mm
Add DG&A Armageddon 29mm
Update DG&A Armageddon 38mm
Establish DG&A Armageddon Family
Establish DG&A Patriarchal family group
Add Polecat 10" Fat Man #10
Add Urban Kartonmodelle Mercury Little Joe
Set up Urban Kartonmodelle master list
Establish Urban Kartonmodelle section
Add NCR SA-14 Archer K-76
Add Estes AIM-9 Sidewinder #2125
Establish AIM-9 Sidewinder Ordnance Family
Add TLP Sidewinder AIM-9L K030
Add TLP Nike Ajax K060
Add Roachwerks Nike Ajax (18mm)
Add Roachwerks Nike Ajax (13mm)
Add Semroc SLS Lil' Hustler KV-57
Add Semroc SLS Hustler KV-11
Add Semroc Mini Huster KA-20
Add Centuri Lil' Hustler KF-8
Establish Centuri Hustler Family
Add Centuri Hustler KF-10
Add Centuri Scorpion KF-6
Update Centuri Acro Bat KBG-3
Update Centuri X-21 BG-21
Add Centuri T Bird KC-9
Update Centuri Black WIdow KB-6
Establish Centuri Micro-Probe Family
Add Centuri Micro-Probe KB-22
Establish Astrobee Sounding Rocket Family
Add Centuri Astrobee 350 KC-5
Add Centuri Arcon-Hi KC-3
Add Centuri Arcon KC-1
Update Centuri Micron KA-5
Add Rocketry Warehouse Flying Pumpkin EK-FP-G12
Set up Rocketry Warehouse master list by number
Add LOC Loc-IV PK-48
Establish Estes Hi Flier Family
Add Estes Hi Flier XL #3226
Add Thrustline ATGW TA-026
Add Thrustline Starship Electra TA-025
Add Thrustline D-Region Tomahawk TA-024
Add Thrustline Arapahe E TA-023
Add Thrustline Tribute II TA-022
Add Thrustline Astral Lance TA-021
Add Thrustline V2 TA-019
Add Thrustline Mars Probe TA-018
Add Thrustline F-24 Panther Interceptor TA-017
Update Thrustline A-Slam TA-016
Update Thrustline Mini Mike IX TA-027
Update Thrustline Mike IX TA-015
Update Thrustline Sea Dart TA-014
Update Thrustline Flux Probe TA-013
Update F-19 Night Fighter TA-012
Update Thrustline Hank TA-011
Update Thrustline Smon N' Fire TA-010
Update Thrustline Seeker TA-009
Update Thrustline Pumpkin Head TA-008
Update Thrustline Duster TA-007
Update Thrustline Double Up TA-006
Update Thrustline Star Hauler TA-005
Update Thrustline Alien Troop Mover TA-004
Update Thrustline Zack Attack TA-003
Update Thrustline Mighty Mick TA-002
Update Thrustline Black Shadow TA-001
Add Thrustline A-Slam TA-016
Establish Thrustline Patriarchal Family Group
Establish Thrustline Mike IX Family
Add Thrustline Mike IX TA-015
Add Thrustline Sea Dart TA-014
Add Thrustline Flux Probe TA-013
Update Thrustline Seeker TA-009
Update Thrustline Smoke N' Fire TA-010
Update Thrustline Star Hauler TA-005
Add Thrustline F-19 Night Fighter TA-012
Add Thrustline Hank TA-011
Add Thrustline Smoke N' Fire TA-010
Add Thrustline Seeker TA-009
Add Thrustline Pumpkin Head TA-008
Add Thrustline Duster TA-007
Add Thrustline Double-Up TA-006
Add Thrustline Star Hauler TA-005
Add Thrustline Alien Troop Mover TA-004
Add Thrustline Zack Attack TA-003
Add Thrustline Mighty Mick TA-002
Add Thrustline Black Shadow TA-001
Add Thrustline Space Man TACL-044
Add Semroc SpaceMan XES-K9
Establish Estes Spaceman Family
Estes Spaceman K-9
Add NCR Interceptor G #3516
Add Roachwerks Orbital Transport
Add Thrustline Orbital Transport TACL-043
Add Thrustline Mosquito TACL-042
Add Thrustline Apogee II TACL-041
Establish Estes Apogee Family
Add Estes Apogee K-5
Add Thrustline Yellow Jacket
Add MMWW (Estes) Yellow Jacket #326
Add Estes Yellow Jacket #7005
Establish Estes Yellow Jacket Family
Add Estes Yellow Jacket #2008
Add Thrustline EAC Viper TACL-039
Add QModeling Rogue
Estabblish Estes Rogue Family
Add Estes Rogue #0818
Add Thrustline Avenger TACL-037
Establish Estes Avenger Family
Add Estes Avenger K-38
Establish Estes (Citation) Patriot Family
Add Thrustline Patriot TACL-036
Add Thrustline Omega TACL-035
Establish Estes Omega Family
Add Estes Omega K-52
Add Thrustline Trident TACL-034
Add MMWW (Estes) Trident #321
Add Estes Trident II #2033
Establish Estes Trident Family
Add Estes Trident K-33
Establish Estes Cobra Family
Add Thrustline Cobra TACL-033
Add NCR Lance Beta K-47
Add Rocketarium.com AIM 120 AMRAAM RK-AMRAA
Set up Rocketarium.com master lists
Add company info for Rocketarium.com
Establish Rocketarium.com section
Add Performance Rocketry 1/2 Scale AMRAAM
Add MMWW AIM-120A AMRAAM (Navy Ver.) #285
Establish AIM 120 AMRAAM Ordnance Family
Add Estes AIM 120 AMRAAM #2153
Add Thrustline Orbital Interceptor TACL-032
Establish Estes Orbital Interceptor Family
Add Estes Orbital Interceptor #1359
Add Thrustline Sprite TACL-031
Add Hawks Hobby Super Sprite HH-80
Set up Hawks Hobby master lists
Add Hawks Hobby company statement
Establish Hawks Hobby Section
Establish Estes Sprite Family
Add Estes Sprite K-15
Add Thrustline Constellation TACL-035
Establish Estes Constellation Family
Update Estes Constellation K-35
Establish Estes Goonybird marketing family
Add Estes Cloud Hopper #0851
Add Estes Teros #1285
Establish Estes Teros Family
Add Estes Teros KL-5
Add Thrustline Alien Explorer TACL-029
Establish Estes Alien Explorer Family
Add Estes Alien Explorer #1372
Add Thrustline Deep Space Transport TACL-028
Establish Estes Andromeda Family
Add Thrustline Andromeda TACL-027
Establish Estes Ranger Family
Add Thrustline Ranger TACL-026
Add Thrustline Mars Snooper TACL-024
Add Thrustline Der Red Max TACL-025
Add Thrustline Der Big Red Max 24mm TACL-025aa
Establish Estes Blue Bird Zero Family
Add Thrustline Blue Bird Zero TACL-023
Add Thrustline Scamp TACL-022
Add Estes Scamp #1286
Establish Estes Coldpower Family
Establish Estes Scamp Family
Add Estes Scamp KL-1
Add Thrustline Starliner TACL-021
Establish Estes Estes Starliner Family
Add Estes Estes Starliner #0863
Add Thrustline Little John TACL-020
Add Thrustline Pegasus TACL-019
Establish Estes Pegasus Family
Add Estes Pegasus #0806
Add Thrustline Sprint TACL-018
Add MMWW Sprint #297
Establish Estes Sprint Family
Establish Streamer Duration Family
Add Estes Sprint K-49
Add Thrustline Arcas TACL-017
Add Thrustline V-2 TACL-016
Add Giant Leap Talon 6
Add Giant Leap Talon 4
Add Giant Leap Talon 3
Add Giant Leap Talon 2
Establish Giant Leap Talon family
Establish Giant Leap Patriarchal family group
Set up Giant Leap master list
Add Giant Leap company statement
Add Giant Leap company data
Establish Giant Leap Section
Add Rocketry Warehouse Formula 54
Add Rocketry Warehouse Formula 75
Add Fat Cat F104 Starfighter
Set up Fat Cat Master list
Establish Fat Cat Rockets Section
Establish the F-104 Starfighter Aircraft Family
Add Modelrockets.US Nike Smoke 2.6 #01039
Set up Modelrockets.US master lists
Add Modelrockets.US company information
Establish Modelrocket.US section
Add NCR Patriot K-85
Add Fliskits ACME Spitfire SP007
Update Aerotech Arreaux #89013
Add Rocket Vision Machbuster
Set up master list for Rocket Vision
Establish Rocket Vision Section
Add Rocketry Warehouse Formula 150
Add Estes Exocet MM38 #1925
Establish Exocet Ordnance Family
Establish the AGM-114 Hellfire Ordnance Family
Add MMWW (Wildman) DarkStar
Add Wildman Ultimate DarkStar
Add Wildman DarkStar Mini
Add Wildman DarkStar Lite
Add Wildman DarkStar JR Dual Deploy
Add Wildman DarkStar JR
Add Wildman DarkStar Extreme
Add Wildman DarkStar 4 Dual Deploy
Add Wildman DarkStar 4
Add Wildman DarkStar
Establish Wildman DarkStar Family
Establish Wildman Rocketry Patriarchal Family Group
Set up Wildman Master list
Add Wildman company information
Establish Wildman Rocketry section
Add Semroc Tau Zero KN-2
Add Rocketry Warehouse Formula 98
Establish Rocketry Warehouse Formula X Family
Establish Rocketry Warehouse Patriarchal Family Group
Set up Rocketry Warehouse master list
Add Rocketry Warehouse company information
Establish Rocketry Warehouse Section
Add Quest Cobalt #1021
Add Semroc VG-261 KA-10
Add Estes Spin Fin #1355
Add Estes Constellation
Add Vaughn Bros Javelin
Establish Vaughn Brothers Rocketry Section
Add Estes Leviathan #9700
Establish Estes Pro Series II Marketing Family
Add Estes Ventris #9701
Add Coaster Super-Son
Set up Coaster Company Master List
Add Coaster Company information
Establish Coaster Company Section
Add Estes Vagabond #3217
Establish Falcon 9 Launch Vehicle Family
Add SpaceX Falcon 9 with Dragon
Set Ups SpaceX Master List
Establish SpaceX Section
Add Estes QCC Explorer #3221
Add Fliskits Night Whisper FR006

12.06

Add Binder Design Stealth Jr. 29mm
Add Binder Design Stealth 54mm
Establish Binder Design Stealth Family
Add Binder Design Stealth 38mm
Add Binder Design Aspire 29mm
Add Estes Wizard #1292
Decision to modify image "normalization" to include only sizing and orientation
Add Semroc Starship Vega KV-78
Add MMWW Estes Starship Vega #268
Add Estes Super Vega #2036
Add Estes Starship Vega #1320
Establish Estes Starship Vega Family
Add Estes Starship Vega KC-4
Add Binder Design Excel Jr.
Add Binder Design Excel 54mm DD
Add Binder Design Excel 38mm DD
Add Binder Design Excel 54mm
Add Binder Design Excel
Add Binder Design Jackhammer
Add LOC Bruiser EXP PK-96
Establish LOC Advanced Series Marketing Family
Establish LOC Bruiser Family
Establish LOC Patriarchal Family Group
Add LOC Bruiser PK-88
TRF Gallery modification completed

12.05

No work done as upgrades to TRF Galleries awaited

12.04

No work done as upgrades to TRF Galleries awaited

12.03

Add Thrustline Falcon TACL-015
Update Estes Falcon Family
Add Thrustline WAC Corporal TACL-014
Establish WAC Corporal Sounding Rocket Family
Add Thrustline Aerobee 300 TACL-013
Update Aerobee Sounding Rocket Family
Add Thrustline Farside X TACL-012
Add Thrustline Farside TACL-012a
Update Estes Farside Family
Add Thrustline X-Ray TACL-011
Add MMWW X-Ray #237
Add Estes X-Ray K-18
Establish Estes X-Ray Family
Add Thrustline Drifter TACL-010
Update Parachute Duration Family
Update Estes Drifter Family
Add Thrustline Gyroc TACL-009
Update Estes Gyroc Family
Add Thrustline Honest John TACL-004
Add Thrustline Honest John TACL-003
Update MGR-1 Honest John Ordnance Family
Add Thrustline Nike-X TACL-002
Update Estes Nike-X Family
Add Estes Red Alert #0893
Update Estes Scout K-1
Update Estes Space Plane K-3
Add Estes Raven #2029
Add Thrustline Cherokee D TACL-001
Update Estes Cherokee D Family
Add Estes Rascal #2021
Add Centuri Micro-Probe KB-10
Add Centuri X-21 BG-21
Establish Centuri X-21 Family
Add Centuri Aero-Dyne KB-8
Update Centuri Black Widow KB-6
Change Centuri Payloader II Family to Centuri Payloader Family and update
Update Centuri Payloader KB-4

Update Centuri Arcon KB-2
Add Centuri Acro-Bat KBG-3
Add Performance Rocketry 1/5 Scale V-2
Update V-2 Launch Vehicle Family
Update V-2 Ordnance Family
Add MMWW Micro-Maxx Ram-Jet #250
Add Estes Ram Jet #1994
Establish Estes Ram Jet Family
Add MMWW Micro Rain Maker #355
Add Estes Rainmaker #2009
Establish Estes Rainmaker Family
Add Estes Nike Ajax #1279
Establish MIM-3 Nike Ajax Ordnance Family
Add Neubauer D-Region Tomahawk
Add Neubauer SkyDagger
Add Neubauer MegaDagger
Add MMWW SkyDart Business SST
Add Estes Skydart K-57
Establish Estes Skydart Family
Add Neubauer 1/100 Juno I
Establish Juno I Launch Vehicle Family
Add Neubauer 1/100 Mercury Atlas
Add Neubauer 1/100 Mercury Redstone
Add Neubauer 2.6" Mercury Redstone
Add Neubauer 4" Gemini Titan
Add Neubauer Little Joe I
Add Neubauer Micro Gemini Titan
Add Neubauer Micro Nike Smoke
Add Neubauer Micro Saturn 1B
Add Neubauer Micro Saturn V
Add Neubauer Super Tube
Add Neubauer 4" Mercury Redstone
Add Estes R2-D2 #2142
Add Estes R2-D2 #2104
Add Estes R2-D2 #1823
Add Estes R2-D2 #1395
Add Estes R2-D2 #1301
Add Estes Mini R2-D2 #1835
Establish Star Wars R2-D2 Media Family
Add Estes Quark #0802
Add Estes Python 4 ASRAAM #2054
Add Estes Python 4 ASRAAM #1245
Establish ASRAAM Python Ordnance Family
Add Cox Space Shuttle America #5200
Add Cox X-15 #5000
Establish X-15 Aircraft Family
Establish Aircraft Family Group
Add Cox Honest John #5050
Add Cox Nike Zeus #5150
Establish XLIM-49 Nike Zeus Ordnance Family
Add Cox Apollo Little Joe II #5100
Add Cox Uprated Saturn 1B #5025
Update Enertek Strong ARM #8815
Update Enertek Initiator #8814
Update Enertek Astra 2000 #8819
Add Cox Apollo Saturn V #5075
Set up Cox master lists
Establish Cox section
Establish Saturn V Launch Vehicle Family

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Add Estes Prime Number Explorer #0891
Add Estes Polaris #2174
Add Cosmodrome Black Brant VC
Establish Black Brant V Sounding Rocket Family
Add Semroc Laser-X KV-33
Add Estes Plasma Probe #3211
Add Estes Photon Probe #3026
Add Estes Photon Probe #2043
Establish Estes Photon Probe Family
Add Estes Photon Disruptor II #2052
Add Estes Photon Disruptor #3025
Add Estes Photon Disruptor #1282
Establish Estes Photon Disruptor Family
Add Estes Space Plane K-3
Add MMWW Micro Scout-I #330
Add Semroc Golden Scout KV-4
Add Estes Scout K-1
Establish Estes Scout Family
Add Madcow Phoenix K-136
Add Estes Phoenix #1380
Divide Estes at S
Establish AIM 54 Phoenix Ordnance Family
Add MMWW NASA Pegasus #353
Add Estes NASA Pegasus #1376
Establish Estes NASA Pegasus Family
Add Semroc SLS Arcas KS-5
Update Centuri Black Widow KB-6
Add Semroc Arcon KV-7
Add Centuri Arcon KB-2
Establish Arcon Sounding Rocket Family
Add Centuri Payloader KB-4
Add Centuri Aero-Bat KBG-1
Add Barclone Arrow Head
Set up Barclone Master List
Add Barclone statement
Establish Barclone section
Add Aerobee Hi Economy #001-C
Add MMI Aerobee Hi Deluxe #001-A
Add MMI Aerobee Hi #001-B
Set up MMI Master Lists
Establish MMI Section
Add Semroc Aerobee Hi KV-2
Establish Semroc MMI Retro Repro Family
Add NCR Aerobee Hi Test K-5
Set up NCR Master Lists
Establish NCR Section
Establish MMI Aerobee Hi Family
Establish MMI Family Group
Update Cosmodrome Aerobee Hi
Add Roachwerks Vostok
Add Cosmodrome Aerobee Hi
Establish Aerobee Sounding Rocket Family
Add Cosmodrome Vostok
Update Cosmodrome Black Brant II
Update Cosmodrome Nike Apache
Establish the Vostok Launch Vehicle Family
Add Cosmodrome Nike Smoke
Add MMWW Patrol Cruiser Excalibur #373
Add Estes Patrol Cruiser Excalibur #1339
Establish Estes Patrol Cruiser Excalibur Family
Add Polecat 7.5" Patriot MIM-104 #1
Add PR 1/2 Scale Patriot Missile
Add PR 1/4 Scale Patriot Missile
Add Estes US Army Patriot M-104 #1248
Add Estes Patriot #1450
Add Estes Patriot #1843
Add Estes Patriot #1825
Add Estes Patriot Missile #2066
Add Estes Patriot Missile #2056
Add Estes Mini Patriot #0896
Establish MIM-104 Patriot Ordnance Family
Add Estes Citation KC-3
Establish Estes Citation Marketing Family
Add Estes Pathfinder #1997
Add Semroc Arcas KS-8
Establish ARCAS Sounding Rocket Family
Add Estes Outlander #2110
Add Semroc Orbital Transport KV-66
Add LawnDart Piggyback Shuttle #2
Set up LawnDart Master Lists
Add Lawndart Company Statement
Establish LawnDart Section
Add Estes Orbital Transport #1259

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Add Estes Orbital Transport K-42
Establish Estes Orbital Transport Family
Add Estes Shadow #2094
Add Estes Optima #2035
Establish Estes Optima Family
Add Estes Odyssey #1289
Add MMWW Nova Payloader #236
Add Estes Nova Payloader #1960
Establish Estes Nova Payloader Family
Add QModeling NIKEX
Establish QModeling Retro MEGA Family
Establish QModeling Marketing Family Group
Set up QModeling master list
Add QModeling Company Statement
Add Qmodeling Company info
Establish QModeling Section
Add Estes Nike-X K-70
Establish Estes Nike-X Family
Add Estes Nemesis #2175
Add MMWW Micro National Aerospace Plane #304
Add Estes National Aerospace Plane #2037
Establish Estes National Aerospace Plane Family
Add Estes Royal Starship #1830
Establish Star Wars Royal Starship Family
Add USR Mosquito 2.2 #1174
Establish USR Sport and School Family
Establish USR Marketing Family Group
Set up USR master lists
Add USR company statement
Add USR company info
Establish USR section
Add Madcow Mozzie K-112
Add Estes Mega Mosquito #1335
Add Estes Mosquito #1335
Add Estes Mosquito TK-1
Establish Estes Mosquito Family
Divide Estes at P
Divide Estes at M
Add LOC 7.5" V2 PK-100
Add Leading Edge Micro Goblin LE-05
Establish Leading Edge Micro Classics Family
Establish Leading Edge Marketing Families Group
Add Madcow Army Hawk MIM-23A Rocket K-106
Add TLP Hawk MIM-23A 1.6" K039
Establish MIM-23 Hawk Ordnance Family
Add Estes Mongoose #2092
Add Estes Monarch #7214
Add Estes Monarch #2172
Add Estes Mk-109 Stingray #1232
Add Estes Mk-109 Stingray #2131
Establish Estes Mk-109 Stingray Family
Add Estes Mini Cobra #0898
Add MMWW Midget #362
Add Estes Midget TK-40
Add Estes Midget K-40
Establish Estes Midget Family
Add Estes Micron #0876
Add Estes Metalizer #2168
Add Estes Mercury Atlas #2111
Establish Mercury Atlas Launch Vehicle Family
Add Estes Menace #2173
Add Estes Mini Mean Machine #0865
Add Estes Mean Machine #1295
Establish Estes Mean Macnine Family
Add Estes Maxi Streak #1387
Add Estes Streak K-4
Establish Estes Streak Family
Add MMWW Mars Snooper #235
Add Estes Mars Snooper II #1220
Add Estes Mars Snooper #2063
Establish Estes Collector's Series Family
Add Estes Mars Snooper K-20
Establish Estes Mars Snooper Family
Add Estes Mars Lander K-43
Add Semroc Mark xKit XES-K2
Add Estes Mark II K-2A
Divide Estes at G
Divide Estes at D
Add Estes Mark K-2
Establish Estes Mark Family
Add Estes Magnum #2032
Add Estes Magician #2440
Add Estes Mach-2 #1379
Add Estes Javelin #0815
Add MMWW Interceptor #267
Add Estes Interceptor E #1350
Add Estes Interceptor K-50
Establish Estes Interceptor Family
Add Estes Icarus #1277
Add Madcow Little John Rocket K-157
Add Estes Little John #0819
Establish MGR-3 Little John Ordnance Family
Add Estes Lucky Seven #0807
Add Estes Crusader Swing Wing #1961
Update Estes 36 D Squared #2119
Add Madcow Cricket K-141
Add Estes 220 Swift #0810
Establish Estes 220 Swift Family
Add Enertek Strong ARM #8815
Establish Enertek Strong Arm Family
Add Enertek Initiator #8814
Establish Enertek Initiator Family
Add Enerjet 1340 Sounding Rocket #1340
Add Edmonds Tinee
Add MMWW Ivee Boost Glider #227
Add Edmonds Ivee
Establish Edmonds Ivee Family
Add MMWW Ecee #300
Set up MMWW Prototype MGF master list
Add Edmonds Ecee
Establish Edmonds Ecee Family
Add MMWW Deltie Boost Glider #230
Add Edmonds Deltie
Establish Edmonds Deltie Family
Establish Edmonds Aerospace family group
Set up Edmonds master list
Add Edmonds company statement
Add Edmonds company info
Establish Edmonds Section
Add MMWW Snarky #380
Add DynaStar Snarky #05030
Establish DynaStar Snarky Family
Establish DynaStar Family Group
Add DynaStar Sky Torpedo #05033
Add DynaStar Grappler #05031
Set up DynaStar Master lists
Add DynaStar company statement
Add DynaStar company info
Establish DynaStar Section
Establish Harvest History Section
Add Dr Zooch Titan IIIc SLV5
Establish Titan III Launch Vehicle Family
Add Dr Zooch Soyuz
Establish Soyuz Launch Vehicle Family
Add Dr Zooch Mercury Little Joe
Establish Little Joe Launch Vehicle Family
Add Dr. Zooch Mark II
Update Quest Striker AGM #2020
Update Enertke Astra 2000 #8819
Establish Enertek Astra 2000 Family
Establish Enertek Family Group
Add Dr. Zooch Juno II
Establish Juno II Launch Vehicle Family
Add Dr. Zooch Gb-LV
Add Dr. Zooch Atlas Agena
Establish Atlas Agena Launch Vehicle Family
Add Dr Zooch Ares I-X
Establish Ares I Launch Vehicle Family
Add DG&A Armageddon
Set up DG&A master list
Establish DG&A section
Add DFR Delta IV Medium 5+4 (24mm)
Establish Delta IV Launch Vehicle Family
Add DRF Delta II (18mm)
Set up DFR master list
Add DFR company info
Establish DFR Technologies section
Establish Delta II Launch Vehicle Family
Add Cygnus X-1 NEAV
Set up Cygnus master list
Add Cygnus company info
Establish Cygnus section
Add Custom Tristar #10027
Add Custom SLV #10044
Add Custom Scavenger #10046
Add Custom Razor #10017
Add Custom P.O.N.G. #10043
Add Custom Liberty #10045
Add Custom Landviper #10001
Add Custom Lamprey #10006
Add Custom Ion Pulsar #10028
Add Custom Game Over #10042
Add Custom Fiesta #10030
Establish Custom Fiesta Family
Establish Custom Family Group
Add Custom Galileo #10012
Add Custom Engage #10002
Add Custom Bullet #10015
Add Custom ATW Anti Tank Weapon #10039
Add Estes Nike Apache #1957
Add Cosmodrome Nike Apache
Establish Nike Apache Sounding Rocket Family
Add Madcow Black Brant II K-156
Add Estes Black Brant II #1958
Add Cosmodrome Black Brant II
Set up Comsmodrome master list
Add Cosmodrome company statement
Add Cosmodrome company info
Establish Cosmodrome Section
Establish Black Brant II Sounding Rocket Family
Add American Rocketeer Finless V4 N1
Set up American Rocketeer master list
Establish Centuri American Rocketeer Section
Add Semroc Vector V KV-44
Add Centuri Vector V KB-2
Establish Centuri Vector V Family
Add Semroc ThunderStrike KA-16
Add Semroc ThunderChief KA-7
Add Semroc ThunderBee KA-1
Add Centuri Thunder Hawk #5338
Add Centuri Thunder Roc #5340
Establish Centuri Thunder Roc Family
Add MMWW The Point #232
Add Centuri The Point KC-13
Establish Centuri Point Family
Add Semroc Taurus Fleet Ship KV-42
Add Moldin' Oldies Taurus Fleet Ship
Set up Moldin' Oldies master list
Add Moldin' Oldies company statement
Add Moldin Oldies Company information
Establish Moldin' Oldies Section
Add MMWW Centuri Taurus #317
Add Centuri Taurus Fleet Ship KB-3
Establish Centuri Taurus Fleet Ship Family
Add Semroc Swift Boost Glider KV-27

Add Centuri Swift KBG-3
Establish Centuri Swift Family
Add Semroc Starfire KV-20
Add Centuri Starfire KC-12
Establish Centuri Starfire Family
Add Estes Star Trooper #3031
Add Centuri Star Trooper KM-3
Establish Centuri Star Trooper Family
Add Semroc SST Shuttle-1 XCE-K17
Add Centuri SST Shuttle 1 KC-17
Establish Centuri SST Shuttle 1 Family
Add Semroc Snipe Hunter KV-51
Add Centuri Snipe Hunter KB-13
Establish Centuri Snipe Hunter Family
Add Centuri Sky Devil KB-10
Add Centuri Screaming Eagle KF-3
Add Centuri Scram Jet KF-4
Update Inflight Nike Smoke IF-K114
Fleshed out the "You can Help" section
Add Semroc Saturn 1B KS-1
Add Roachwerks Saturn 1B
Add Roachwerks company statement
Add Roachwerks company information
Establish Roachwerks section

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Add Estes Saturn 1B #2048
Add Estes Saturn 1B K-29
Add Dr. Zooch Saturn SA-5
Add Centuri Saturn 1B KS-10
Establish Saturn I Launch Vehicle Family
Add MMWW Payloader II #354
Add Estes Payloader II #3022
Add Centuri Payloader II KC-20
Establish Centuri Payloader Family
Add Neubauer Orion II
Add Neubauer Company Statement
Add Neubauer Company Info
Establish Neubauer Rocketry Section
Add MMWW Centuri Orion #348
Add Centuri Orion KC-8
Establish Centuri Orion Family
Add Polecat 10" Nike Smoke #6
Add Polecat 4" Nike Smoke #23
Add PR 1/4 Scale Nike Smoke
Add PR 1/3 Scale Nike Smoke
Set up PR master list
Add PR company info
Establish Performance Rocketry Section
Add InFlight Nike Smoke
Add FSI Nike Smoke #1030
Add Centuri Nike Smoke KS-15
Add Centuri Nike Smoke KE-3
Establish Nike Smoke Sounding Rocket Family
Add Semroc Micron KV-8
Add Centuri Micron KA-5
Establish Centuri Micron Family
Add SHR Mercury Redstone
Add Estes Mercury Redstone #1921
Add Estes Mercury Redstone K-41
Add Dr Zooch Mercury Redstone
Add Centuri Mercury Redstone KS-1
Establish Mercury Redstone Launch Vehicle Family
Add Semroc Marauder KV-32
Add Centuri Marauder KC-45
Establish Centuri Marauder Family
Add Starlight Jay Hawk MN 4353
Set up Starlight master lists
Establish Starlight Section
Add Polecat 4" Jayhawk #21
Add Madcow Jay Hawk K-109
Add Estes Pro Series Jayhawk #2085
Establish Estes Pro Series Family
Add Centuri Magnum D Jayhawk #5342
Establish AQM-37 Jayhawk Ordnance Family
Add Centuri Mach 10 KA-4
Add Estes Long Tom #3016
Add Centuri Long Tom KC-4
Establish Centuri Long Tom Family
Add Semroc Little Joe II KS-3
Add Quest MMX Little Joe #5611
Add Estes Little Joe II #0892
Add Centuri Little Joe II KS-9
Add Centuri Little Joe II KS-8
Establish Semroc Estes Retro Repro Family
Establish Little Joe II Launch Vehicle Family
Add Semroc Lil' Hercules KV-14
Add Centuri Lil' Hercules KA-1
Set up framwork for Aftermath
Splite of "The Aftermath" section
Establish Centuri Lil' Hercules Family
Add MMWW Laser-X #248
Add Centuri Laser-X KC-50
Establish Centuri Laser-X Family
Add Semroc Javelin KV-16
Add MMWW Javelin #352
Add Centuri Javelin KC-31
Establish Centuri Javelin Family
Add Centuri Hummingbird KF-2
Add Centuri Flutter-By KA-9
Add Semroc Texas Fire Fly KA-8
Add Centuri Fire Fly KA-6
Establish Centuri Firefly Family
Add Semroc SLS Exlorer KV-56
Add Semroc Mini Explorer KA-22
Estabish Semroc Ready to Build Family
Add Centuri Explorer KF-9
Estabish Centuri Explorer Family
Add Semroc Excaibur KV-43
Add Centuri Excalibur KA-8
Establish Centuri Excalibur Family
Add MMWW ESS Raven #273
Add Centuri ESS Raven #5312
Estabish Centuri ESS Raven Family
Establish Centuri Super Kit Family
Establish Centuri Marketing Family Group
Add Centuri Draconian Marauder #5336
Establish Buck Rogers Draconian Maurauder Family
Establish Buck Rogers Family Group
Add Semroc Defender Space Probe KV-60
Add Centuri Defender Space Probe KC-35
Establish Centuri Defender Space Probe Family
Add Estes Chuter Two #3009
Add Centuri Chuter 2 KC-16
Establish Centuri Chuter 2 Family
Add Semroc Centurion KV-40
Add Centuri Centurion KC-2
Establish Centuri Centurion Family
Add Semroc Centaur KV-12
Add Centuri Centaur KC-15
Establish Centuri Centaur Family
Add A Rocketeers View of Dr Zooch
Add Centuri Black Widow KB-6
Add Semroc BatRoc KV-53
Add Centuri BatRoc KB-8
Establish Centuri BatRoc Family
Add Centuri Alien Scoutship Flying Saucer #5325
Add Semroc SLS Aero Dart KV-6
Establish Semroc SLS Marketing Family
Add Enerjet Aero-Dart KE-12
Set up Enerjet Master Lists
Establish Enerjet Section
Add Centuri Aero-Dart KF-12
Add Centuri Aero-Dart KFS-9
Add Centuri Aero-Dart KF-2
Establish Centuri Aero-Dart Family
Add BSD 4" Thor
Add BSD 3" Thor
Establish BSD Thor Family
Add 4" BSD Diablo
Establish BSD Diablo Family
Set up BSD master list
Add BSD company statement
Establish BSD section
Add Centuri Space Shuttle KC-6
Add Blast from the Past Centuri Space Shuttle
Set up Blast from the Past Master List
Establish Blast from the Past Section
Establish Centuri Space Shuttle Family
Add Binder Design Thug
Add Binder Design Excel Plus
Establish Binder Design Excel Family
Establish Binder Design Family Group
Set up Binder Design master list
Add Binder Design company statement
Add Binder Design company info
Establish Binder Design section
Add FSI Viking 5 #1029
Add FSI Viking 4 MRK-12
Add FSI Viking 3 MRK-11
Add FSI Viking 2 MRK-10
Add FSI Viking 1 MRK-9
Add BMS FSI Viking 1 FSIVK1
Establish Tube Fin Family
Establsih FSI Viking Family
Establish FSI Family Group
Set up FSI master lists
Establish FSI section
Add Madcow Bomarc K-119
Add Estes Mini Bomarc TK-5
Add Estes Bomarc #0657
Add Estes Bomarc KC-5
Add BMS Mini Bomarc
Establish CIM-10 Bomarc Ordnance Family
Add BMS Astron Drifter K14
Establish Parachute Duration Family
Set up BMS master lists
Add BMS info
Establish BMS section
Establish Estes Drifter Family
Add Bal-Rock Rock-a-Chute MkI
Set up Bal-Rock Master lists
Establish Bal-Rock Section
Add BaddAzz Das Blitzkrieg
Set up BaddAzz Master list
Establish BaddAzz Section
Add Apogee Diamondback #05034
Add American Alliance Emulator NB5
Add American Alliance Avenver F2
Set up American Alliance master lists
Establish American Alliance Section
Add Applewhite Super Stealth
Add Applewhite MMX Stealth
Add Applewhite MMX Scimitar
Add Estes Hornet TK-4
Add Leading Edge Micro Max LE-07
Set up Leading Edge master lists
Add Leading Edge company statement
Add Leading Edge company info
Establish Leading Edge section
Add Applewhite 13mm Qubit
Add Semroc Magnum Hornet KV-69
Add Estes Hornet #3037
Add Centuri Magnum D Hornet #5341
Establish Centuri Hornet Family
Add Applewhite Micro Maxx Qubit
Add Estes Big Yank #0868
Add Estes Honest John #1919
Add Excelsior Honest Goon
Add Fliskits Honest John MX008
Establish Fliskits Micro to the Maxx Family
Establish Fliskits Marketing Family Group
Set up Fliskits master lists
Add Fliskits company statement
Add Fliskits company info
Establish Fliskits Section
Add Estes Mini Honest John #2446
Add Estes Honest John K-27
Add Madcow Honest John Rocket K-115
Set up Madcow master lists
Add Madcow company statement
Add Madcow company info
Establish Madcow Rocketry Section
Add Schoolyard Rockets Honest John
Set up Schoolyard Rockets master list
Establish Schoolyard Rockets Section
Add Estes Maxi Honest John #1269
Add Estes Maxi Honest John #2166
Establish Applwhite Qubit Family
Establish MGR-1 Honest John Ordnance Family
Add Applewhite Micro Maxx Flying Saucer
Establish Applewhite Flying Saucer Family
Add Retro Rocketry Mini Red Max (#0651-RS)
Add Retro Rocketry Mini Blue Max
Set up Retro Rockety master lists
Establish Retro Rocketry Section
Add Estes Hi-Flier (#2178)
Establish the Scribe Family
Add Applewhite 29mm Helix
Add Applewhite 24mm Helix
Add Applewhite 20mm Helix
Add Applewhite 18mm Helix
Add Applewhite 13mm Helix
Add Applewhite 24mm Double Helix
Establish Applewhite Helix Family
Add MMWW Hercules (#239)
Add Applewhite 38mm Cinco
Establish Estes Hercules Family
Add Estes Hercules (#1377)
Add Applewhite 13mm Cinco
Establish Applewhite Cinco Family
Establish Applewhite Family Group
Add Estes Hawkey (#0873)
Establish Estes Gyroc Family
Establish Estes Guardian Family
Add Applewhite Bic Stic
Set up Applewhite master list
Add Applewhite company statement
Add Applewhite company info
Establish Art Applewhite Section
Add Semroc Astro-1 (KV-30)
Establish Semroc Centuri Retro Repro Family
Add Centuri Astro-1 (KB-17)
Establish Centuri Astro-1 Family
Establish Centuri Family Group
Add Estes Geo Sat LV (#1977)
Add Currell V-2 Rocket
Set up Currell master list
Establish Currell Graphics Section
Establish MX-774 HIROC Ordnance Family
Establish Black Brant IV Sounding Rocket Family
Set up SHR master list
Establish SHR section
Add Estes Gemini Titan (#1978)
Add Estes Gemini-Titan (K21)
Establish Gemini Titan Launch Vehicle Family
Add Estes Gemini DC (#2136)
Add Estes Gauchito (#0809)
Add Polecat 5.5" Fat Man (#13)
Add Estes Fat Boy (#1273)
Add Estes Fat Boy (#2139)
Establish Estes Launchables Family
Establish Estes Fat Boy Family
Add Estes Farside-X (K-12X)
Add Estes Farside (K-12)
Establish Estes Farside Family
Add MMWW Falcon (#313)
Add Estes Falcon (K-13)
Establish Estes Falcon Family
Add MMWW Explorer Aquarius (#243)
Add Estes Explorer Aquarius (#2016)
Establish Estes Explorer Aquarius Family
Add Estes Executioner (#1951)
Add MMWW EAC Viper (#375)
Add Estes EAC Viper (#0820)
Establish Estes Aerospace Club Family
Establish Estes EAC Viper Family
Establish Estes Goblin Family
Add MMWW Dragon Ship 7 (#374)
Add Estes Dragon Ship 7 (#1345)
Establish Estes Dragon Ship 7 Family
Add Thrustline Der Big Red Max (TACL-025a)
Add Excelsior Der Grosser Vati
Establish Estes Big Daddy Family
Add Excelsior Goony Max
Established Goony Family Section
Established Other Family Section
Set up master list for Excelsior
Add company statement for Excelsior
Add company info for Excelsior
Establish Excelsior Rocketry Section
Add Estes Mini Max (#2445)
Add Estes Der Red Max (KC-2)
Add Estes Der Big Red Max (#1403)
Establish Estes Der Red Max Family
Add Estes Delta Star (#1322)
Add Estes Delta Clipper (#2067)
Add Estes Defender (#1924)
Add MMWW Deep Space Transport (#246)
Add Estes Deep Space Transport (#2034)
Establish Estes Deep Space Transport Family
Add Estes Death Star (#2143)
Add Estes Dark Star (#2045)
Add Estes DART (#1981)
Establish Star Was Death Star Family
Establish Star Wars Family group
Add Semroc IQSY Tomahawk (KD-2)
Establish Semroc Deci Scale Family
Add Pratt D Region Tomahawk (MMX)
Set up master list for Pratt
Add Pratt Company Statement
Add Pratt company info
Establish Pratt Hobbies section
Add Estes D Region Tomahawk (#2037)
Add Estes D Region Tomahawk (#1944)
Establish D Region Tomahawk Sounding Rocket Family
Add Estes Customizer (#1500)
Add Estes Crossfire ISX (#1469)
Add K&S Satellite Interceptor
Add Estes Satellite Interceptor (#3027)
Add Estes Satellite Interceptor (#1296)
Add Estes Crossbow SST (#3207)
Establish Estes Satellite Interceptor Family
Add MMWW Courier (#350)
Add Estes Courier (#1911)
Establish Estes Courrier Family
Add Semroc V2 xKit (XES-K22)
Established Semroc xKit Family
Established Semroc marketing famies
Add Mountainside Hobbies 4" V-2 (#500)
Add Mountainside Hobbies Sport Scale V-2 (#103)
Set up Mountainside Hobbies master lists
Add Mountainside Hobbies company

statement
Establish Mountainside Hobbies Section
Add LOC 3.9” V-2 (PK-57)
Set up LOC master lists
Add company info for LOC
Establish LOC/Precision section
Add Hostile Projectiles V-2 Rocket
Set up Hostile Projectiles master list
Establish Hostile Projectiles Section
Add Estes V-2 (#1926)
Add Estes Maxi V2 (K-67)
Establish Estes Maxi Brute family
Add Centuri V2 (KS-19)
Add Apogee Micro V2 (#5021)
Set up Apogee master lists
Add Apogee company statement
Add Apogee company info
Establish Apogee Components Section
Add Noris A-4 Peenemunde (#004)
Set up master lists for Noris
Add company info for Noris
Establish Noris Raketen section
Add Estes Cosmos Explorer (#2190)
Establish Estes X Prize family
Add Estes Corkscrew (#2114)
Established ordnance family group
Established launch vehicle family group
Established sounding rocket family group
Add Estes Condor (#0807)
Established Estes Mini Brute family
Created marketing family subsection
Add Estes Comet Chaser (#3202)
Establish Estes Alpha family
Add Estes Comanche 3 (#1382)
Add MoreRockets Viper (#1310)
Add company info for MoreRockets.com
Establish MoreRockets.Com section
Add Estes Colonial Viper (#1310)
Establish Estes Colonial Viper Family
Establish Battlestar Galactica Colonial Viper Family
Add Estes Cobra (K-10)
Add Estes Cobra 1500 (#1294)
Add MMWW MMX Cherokee (#230)
Add Estes Cherokee D (K-47)
Established Estes Cherokee D Family
Created Patriarchal Family subsection
Add Estes CC Express (#1302)
Added Estes Candian Arrow (#2188)
Created X-Prize Family
Created Prototypical Family subsection
Created “Family Group” section
Add Estes Cajun (#2028)
Add TLP Bullpup AGM-12B (K005)
Add Estes Bull Pup 12D (#7000)
Add TLP Bullpup AGM-12C (K006)
Set up TLP master lists
Establish TLP section
Add Estes Bull Pup 12D (#1972)
Add Polecat 7.5” Bullpup (#4)
Add Polecat 4” Bullpup (#26)
Set up master lists for Polecat
Add company info for Polecat
Establish Polecat Section
Add PML Bulldog (6”)
Set up master list for PML
Add company statement for PML
Add company info for PML
Establish PML Section
Add MMWW Micro AGM-13B Bullpup A (#276)
Add InFlight Blue Bird Zero (IF-K207)
Set up master lists for InFlight
Establish InFlight Section
Add MMWW Blue Bird Zero (#305)
Add K&S Blue Bird Zero (1.64)
Set up master list for K&S
Add company statement for K&S
Add company info for K&S
Establish K&S Section
Add Estes Blue Bird Zero (#1335)
Add Estes Blazer (#1956)
Add Dr Zooch Vanguard Eagle
Add MMWW Black Hole Space Probe (#346)
Add Estes Black Hole Space Probe (#1350)
Add Estes The Bat (#1362)
Add Estes Birdie (TK-44)
Add Estes Birdie (K-44)
Add Estes Big Dawg (#2151)
Add Estes Bandit (K-48)
Add Estes Big Daddy (#2162)
Add MRN Big Bertha (#13)
Set up master lists for Estes MRN
Establish Estes MRN Section
Add MMWW Micro Bertha (#297)
Add Estes Mini Bertha (TK-3)
Add Ester Super Big Bertha (#2165)
Add Estes Baby Bertha (#1261)
Add MMWW Ranger (#226)
Add Estes Big Bertha (K-23)
Add Estes Super Big Bertha (#2018)
Add Estes Big Bertha (#1948)
Add Estes Ranger (K-6)
Add Estes Attack Craft Orion (#1374)
Add Estes Apogee II (K-5)
Add Estes Andromeda (K-73)
Add Centuri Nomad (KB-5)
Set up master lists for Centuri
Establish Centuri Section
Add Semroc Start (KA-25)
Add Estes Super Alpha (#3216)
Add Estes Maxi Alpha (#1291)
Add Estes Maxi Alpha 3 (#1903)
Add Estes Maxi Alpha 3 (#1321)
Add Estes Alpha (K-25)
Add Estes Alpha IV (#1258)
Add Estes Alpha III (K-56)
Add Estes Alpha II (EK-25)
Add MMWW Alien Space Probe (#291)
Add Estes Alien Space Probe (#7502)
Add Estes Alien Space Probe (#2038)
Add Estes Alien Invader (#3003)
Add Estes Alien Invader (#1281)
Add MMWW Airborn Surveillance Missile (#372)
Add Estes Airborn Surveillance Missile (#0867)
Add Estes Aero-Hi (#0817)
Add Estes Aero-Fin (#1390)
Write description of what TRI is
Add Custom Nomad (#10054)
Set up master lists for Custom
Add company statement for Custom
Add company info for Custom
Establish Custom Rockets Section
Add Semroc Baby Orion (KA-31)
Add Estes 36 D Squared (#2119)

11.11

Add Quest Striker AGM (#2020)
Set up master lists for Quest
Add company statement for Quest
Add company info for Quest
Establish Quest Section
Add Enertek Astra 2000 (#8819)
Establish Enertek Section
Add company statement for Estes
Add (limited) company info for Estes
Add company statement for ARR
Add company info for ARR
Add company statement for Aerotech
Add company info for Aerotech
Explain Master Company Lists
Add company statement for Semroc
Add company info for Semroc
Add company statement for ASP
Add company info for ASP
Set up formatting for TOC
Divide master document into more managable section
Add Dr. Zooch Saturn V
Establish Dr. Zooch Section
Add Estes Semi-Scale Saturn V (K-39)
Add Estes Saturn V (#2157)
Add Estes Saturn V (#2001)
Add Estes Saturn V (K-36)
Add MMWW Gyron Tri-Fin
Add Estes Gyroc
Add MMWW MM Guardian Missile
Add Estes Guardian
Add ARR Predator Jr.
Add Semroc Goblin
Establish Semroc Section
Add Thrustline Goblin
Establish Thrustline Aerospace Section
Add MMWW Estes Goblin
Establish McCoy’s Micro Wonder Works Section
Add Estes Goblin
Establish Always Ready Rocketry Section
Add Aerotech Wart Hog
Add Aerotech Sumo
Add Aerotech Strong Arm
Add Aerotech Initiator
Add Aerotech HV Arcas
Add Aerotech G-Force
Add Aerotech Arreaux
Establish Aerotech Section
Add ASP WAC Corporal (18mm)
Add ASP V2 (24mm)
Add ASP Stubby
Add ASP Micro WAC Corporal
Add ASP Micro Jayhawk
Add ASP Micro Hawk
Established ASP Section
Add ARG Trident 13
Add ARG Skyprobe
Add ARG Black Brant IV
Add ARG Convair MX 774
Establish ARG Section
Establish Estes Section

1780

Harvest History

This is another section that I am setting up purely to help me keep track of things. As I process different sections on TRF, catalogs, web sites etc, I mark them down here.

TRF Galleries

Completed backlog of unindexed threads 8 Aug 2012

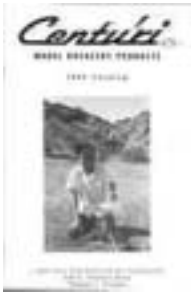
Tango Papa Gallery	29 July 2012
Gallery Structure Modified	27 June 2012
TRF Enertek Gallery	10 Jan 2012
TRF Enerjet Gallery	9 Jan 2012
TRF Edmonds Gallery	9 Jan 2012
TRF DynazStar Gallery	9 Jan 2012
TRF Dr Zooch Gallery	8 Jan 2012

Catalogs

Ace Rocket Mfg.

Unknown

Centuri Engineering



1962

1964

1965

1967

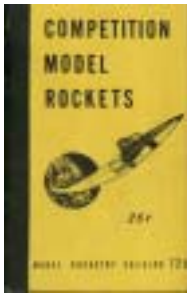
THE COASTER COMPANY

The Coaster Company

c. 1955

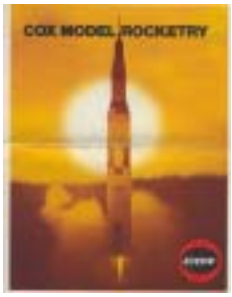
1962

Competition Model Rockets (CMR)



1972

Cox



1972

Estes Industries

1961

1963

1964

Manufacturer Web Sites

Cosmodrome Rocketry
31 Jan 2012

Cygnus Model Rocket Company
Harvested company site with additional data obtained from UMRS 24 Aug 2012

Neubauer Rockets
Some time between late 2011 and February 2012, Neubauer ceased operation. Trolling old website archives was not possible due to software implemented by Neubauer. As a result, other sites such as EMRR, RocketReviews and Discount Rocketry were used for source material.

Tango Papa Decals
Completed harves of all Tango Papa clones as per Wayback archive of 4 Dec 2000 forward. 29 July 2012

Thrustline Aerospace
Completed harvest of all Thrustline Clones as per Wayback archive of 28 Nov 2007
20 July 2012

Retrieved all available plans from YORP
14 July 2012

Completed the harvest of Thrustline clones as per Wayback archive of 2 Dec 2007
12 July 2012

Resume harvesting of Thrustiline clone offerings beginning with V-2 TACL-016 on 4 July 2012.

While working through the Thrustline Clone offerings, the server handling the Web Archive became temporarily unavailible. Progress was made through FalconTACL-015 as of 25 March.

Yank Enterprises
Completed harvest of all Yank kits as per Wayback of Aug 2000 26 Aug 2012

Non MFG Web Sites

Discount Rocketry
1 March 2012 for Neubauer Rocketry

EMRR
2 March 2012 for Neubauer Rocketry

RocketReviews.Com
2 March 2012 for Neubauer Rocketry

Ye Olde Rocket Plans
29 July 2012 for Coaster Plans
14 July 2012 for Thrustline Plans

Supplements and Other Printed Matter