



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 stepchildren, 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.

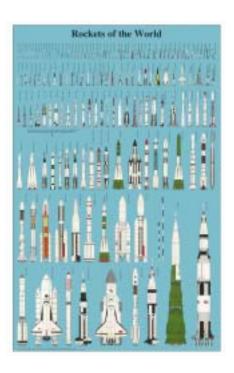
This time around, things were different. I did not have many catalogs...except for all those I found on Ninfinger.com. Then I found EMRR...and YORF...and TRF...and JimZ...

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.

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

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 FamilyBinder DesignExcel Plus

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.

<u>BSD Diablo Family</u> 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
<u>Centuri Ho</u>	ornet Family		
	Centuri	Magnum D Hornet	#5341
	Estes	Hornet	#3037
	Semroc	Magnum Hornet	KV-69
<u>Centuri Ae</u>	<u>ro-Dart Family</u>		
	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
<u>Centuri Ba</u>	<u>tRoc Family</u>		
	Centuri	BatRock	KB-8 or #5038
	Semroc	BatRok	KV-53
<u>Centuri Ce</u>	ntaur Family		
	Centuri	Centaur	KC-15 or #5075
	Semroc	Centaur	KV-12
<u>Centuri Centurion Family</u>			
	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			
<u>Centuri De</u>	_	-	VC 25 ar #5005
	Centuri	Defender Space Probe	KC-35 or #5095
	Semroc	Defender Space Probe	KV-60

<u>Centuri ESS Raven Family</u>			
	Centuri	E.S.S. Raven	#5312
	MMWW	Micros E.S.S. Raven	#273
~			
<u>Centuri Ex</u>	<u>calibur Family</u>		
	Centuri	Excalibur	KA-8 or #5008
	Semroc	Excalibur	KV-43
Conturi Fy	porer Family		
	Centuri	Explorer	KF-9 or #5179
	Semroc	Mini Explorer	KA-22
	Semroc	SLS Explorer	KV-56
	Semi ve		
Centuri Fi	<u>refly Family</u>		
	Centuri	Firefly	KA-6 or #5006
	Semroc	Texas Firefly	KA-8
		e e	
<u>Centuri Ja</u>	velin Family		
	Centuri	Javelin	KC-31 or #5091
	MMWW	Javelin	#352
	Semroc	Javelin	KV-16
<u>Centuri La</u>	<u>aser-X Family</u>		
	Centuri	Laser-X	KC-50 or #5110
	Estes	Plasma Probe	#3211
	MMWW	Laser-X	#248
	Semroc	Laser-X	KV-33
Centuri Li	l' Hercules Family	7	
<u>Centuri En</u>	<u>Centuri</u>	Lil' Hercules	KA-1 or #5001
	Semroc	Lil' Hercules	KV-14
	Semi ve		
Centuri Lo	ong Tom Family		
	Centuri	Long Tom	KC-4 or #5064
	Estes	Long Tom	#3016
		0	
<u>Centuri Marauder Family</u>			
	Centuri	Marauder	KC-45 or #5105
	Semroc	Marauder	KV-32
<u>Centuri Micron Family</u>			
	Centuri	Micron	KA-5 or #5005
	Semroc	Micron	KV-8

<u>Centuri Orion Family</u>			
	Centuri	Orion	KC-8 or #5068
	MMWW	Orion	#348
	Neubauer Rockets	Orion II	
	Semroc	Baby Orion	KA-31
		·	
<u>Centuri Pa</u>	<u>yloader II Family</u>		
	Centuri	Payloader II	KC-20 or #5080
	Estes	Payloader II	#3022
	MMWW	Payloader II	#354
<u>Centuri Po</u>	int Family		
<u> </u>	Centuri	The Point	KC-13 or #5073
	MMWW	The Point	#232
<u>Centuri Sn</u>	<u>ipe Hunter Family</u>	Ž	
	Centuri	Snipe Hunter	KB-13 or #5043
	Semroc	Snipe Hunter	KV-51
Conturi Sn	ace Shuttle Family		
<u>Centuri Sp</u>		Centuri Space Shuttle	
	Centuri	Space Shuttle	KC-6 or #5066
	Centuri	Space Shuttle	KC-0 01 #5000
<u>Centuri SS</u>	T Shuttle 1 Family	<u>v</u>	
	Centuri	SST Shuttle 1	KC-17 or #5077
	Semroc	SST Shuttle-1 xKit	XCE-KC17
Conturi Sta	ar Trooper Family		
<u>Centuri Sta</u>	<u>Centuri</u>		KM-3 or #5103
		Star Trooper	
	Estes	Star Trooper	#3031
<u>Centuri Sta</u>	arfire Family		
	Centuri	Starfire	KC-12 or #5072
	Semroc	Starfire	KV-20
Centuri Swift Family			
<u>contail 5</u>	Centuri	Swift	KBG-3
	Semroc	Swift Boost Glider	KUG-5 KV-27
		Switt Doost Office	12 7-21
<u>Centuri Taurus Fleet Ship Family</u>			
	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
<u>Centuri Vector V Family</u>		
Centuri	Vector V	KB-2 or #5132
Semroc	Vector-V	KV-44

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.

<u>Custom Fiesta Family</u>		
Custom	Fiesta	#10032
Custom	Game Over	#10042

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.

<u>DynaStar Snarky Family</u>		
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 Ecco Family		
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 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 Big Daddy Fam	ilv		
Estes	Big Daddy	#2162	
Excelsior	Der Grosser Vati	0_	
Estes Cherokee D Far	nily		
Estes	 Cherokee D	K-47 or #1247	
MMWW	Micro-Maxx Cherokee	#230	
Estes Colonial Viper	Family		
Estes Colonial viper 1 Estes		#1310	
Estes MoreRocke	Colonial Viper	#1310 #1310	
wiorekocke	ets.Com Viper	#1310	

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
Fstes Der I	Red Max Family		
<u>Estes Del 1</u>	Estes	Der Big Red Max	#1403
	Estes	Der Red Max	KC-2 or #0651
	Estes	Mini Max	#2445
	Excelsior	Der Grosser Vati	#2443
	Excelsior		
		Goony Max Micro Max	LE-07
	Leading Edge	Mini Blue Max	LE-07
	Retro Rocketry		#0751 DC
	Retro Rocketry	Mini Red Max	#0651-RS
	Thrustline	Der Big Red Max	TACL-025a
Estes Drag	<u>on Ship 7 Family</u>		
	Estes	Dragon Ship 7	#1345
	MMWW	Dragon Ship-7	#374
Estes Drift	er Family		
<u>Estes Dint</u>	BMS	Astron Drifter	K14
	Estes	Astron Drifter	K-14 or #1214
	Estes	Astron Dritter	K-14 01 #1214
Estes EAC	Viper Family		
	Estes	EAC Viper	#0820
	MMWW	T3 EAC Viper	#375
Estes Expl	orer Aquarius Fan	nilv	
_	Estes	Explorer Aquarius	#2016
	MMWW	Micro Explorer Aquarius	#243
Estes Falco	•	// /	TT 10 //1010
	Estes	(Astron) Falcon	K-13 or #1213
	MMWW	Micro Falcon BG	#313
<u>Estes Farsi</u>	de Family		
	Estes	Farside	K-12 or #1212
	Estes	Farside-X	K-12X or #1261

Estes Fat Boy Family			
	Estes	Fat Boy	#1273
	Estes	Fat Boy	#2139
	Polecat Aerospace	Fat Man (5.5'')	#13
Estes Gobl	in Family		
LSICS GUDI	Estes	Goblin	K-55 or #1255
	Leading Edge	Micro Goblin	LE-05
	MMWW	Micro-Maxx Goblin	#233
	Semroc	Goblin	KV-80
	Thrustline	Goblin	TACL-005
Estes Guar	dian Family		
	Estes	Guardian	#2179
	MMWW	MM Guardian Missile	#369
Estes Gyro	<u>c Family</u>		
	Estes	(Astron) Gyroc	K-24 or #1224
	MMWW	Gyroc Tri-Fin	#284
Estes Herc	ules Family		
	Estes	Hercules	1377
	MMWW	Micro-Maxx Hercules 2-Stage	#239
		mero-mass mercules 2-stage	
Estes Inter	<u>ceptor Family</u>		
	Estes	Interceptor	#1250
	Estes	Interceptor E	#1350
	MMWW	Micro-Maxx Interceptor	#267
Estes Marl	z Family		
	Estes	(Astron) Mark	K-2 or #1202
	Estes	(Astron) Mark II	K-2 or #1202 K-2A or #1202
	Semroc	Mark xKit	XES-K2
	Semroc		AE5-K2
Estes Mars	s 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
Feter Mee	n Machine Family		
<u>125105 Ivital</u>	•	Maan Mashina	#1205
	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-1	09 Stingray Famil	•	
	Estes	Mk-109 Stingray	#1232
	Estes	Mk-109 Stingray	#2131
Estes Moso	<u>uito Family</u>		
	Estes	Mega Mosquito	#1335
	Estes	Mosquito	TK-1 or #0801
	Estes	Mosquito	#1335
	Madcow	Mozzie	K-112
	US Rockets	Mosquito 2.2	#1174
		•	
Estes NAS	A Pegasus Family		
	Estes	NASA Pegasus	#1376
	MMWW	NASA Pegasus	#353
Estes Natio	onal Aerospace Pla	ne Family	
<u>Estes</u> name	Estes	<u>National Aerospace Plane</u>	#2037
	MMWW	Micro National Aerospace Plane	#2037 #304
		Micro National Aerospace Flane	#304
Estes Nike-	-X Family		
	Estes	Nike-X	K-70 or #1270
	QModeling	NIKEX	
Estes Nova	Payloader Family	,	
	Estes	Nova Payloader	#1960
	MMWW	Nova Payloader	#236
		itova i ayloadel	m250
<u>Estes Opti</u>	<u>na Family</u>		
	Estes	Optima	#2035
	Estes	Shadow	#2094
Eaton Orbi	tal Transnart Fam	:].,	
<u>Estes OIDI</u>	tal Transport Fam	-	V 42 am #1242
	Estes	Orbital Transport	K-42 or #1242
	Estes	Orbital Transport	#1259 #2
	Lawn Dart Rocketry		#2
	Semroc	Orbital Transport	KV-66
Estes Patrol Cruiser Excalibur Family			
	Estes	Patrol Cruiser Excalibur	#1339
	MMWW	Patrol Cruiser Excalibur	#373

Estes Photon Disruptor Family			
F	Estes	Photon Disruptor	#1282
ŀ	Estes	Photon Disruptor	#3025
H	Estes	Photon Disruptor II	#2052
Estes Photon	Probe Family		
ŀ	Estes	Photon Probe	#2043
ŀ	Estes	Photon Probe	#3026
<u>Estes Satellit</u>	<u>e Interceptor Fa</u>	mily	
F	Estes	Crossbow SST	#3207
F	Estes	Satellite Interceptor	#1296
ŀ	Estes	Satellite Interceptor	#3027
ŀ	K&S	Upscale Satellite Interceptor	
Estes Scout I	amily		
F	Estes	(Astron) Scout	K-1 or #1201
Ν	MMWW	Micro Scout-1	#330
S	Semroc	Golden Scout	KV-4
Estes Streak	Family		
ŀ	Estes	(Astron) Streak	K-4 or #1204
ŀ	Estes	Maxi Streak	#1387

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

DMC		
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

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 Semroc Aerobee Hi-Test Aerobee Hi K-5 KV-2

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.

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

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

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.

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	

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 Rocket (4")	K-157

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

0110		
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	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
Semroc	V-2 xKit	XES-K22

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	
North Coast Rocketry	Aerobee Hi-Test	K-5
Semroc	Aerobee Hi	KV-2

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.

HV Arcas	#89012
ARCAS	K-26 or 1226
SLS Arcas	KS-5
Arcas	KS-8
	ARCAS SLS Arcas

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
Semroc	Arcon	KV-7

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

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

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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
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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.

Estes	D-Region Tomahawk	#1944
Estes	D-Region Tomahawk	#2037
Pratt Hobbies	D-Region Tomahawk (MMX)	
Semroc	I.Q.S.Y Tomahawk	KD-2

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	
FSI	Nike Smoke	#1030
InFlight	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

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 customers, 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)

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
Sheri's Hot Rockets	Gemini Titan	

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

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

Little Joe II (1/45)	KS-8 or #5138
Little Joe II (1/100)	KS-9 or #5139
Little Joe II (1/100)	#0892
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Little Joe II	KS-3
	Little Joe II (1/45) Little Joe II (1/100) Little Joe II (1/100) Little Joe II (MMX) Little Joe II

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

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
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.

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Centuri	Saturn 1B	KS-10 or #5140
Dr Zooch	Saturn SA5	
Estes	Saturn 1B	K-29 or #1229
Estes	Saturn 1B	#2048
Roachwerks	Saturn 1B	
Semroc	Saturn 1B	KS-1

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 intelligencegathering), 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. **52**

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	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
Semroc	V-2 xKit	XES-K22

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' <u>Spaceship One.</u>

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
Naboo Royal Starship Family	Ζ	
Estes	Royal Starship	#1830

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

<u>Centuri Super Kit Family</u>		
Centuri	E.S.S. Raven	#5312

Estes Marketing Families

Estes Aerospace Club Family	V	
Estes	EAC Viper	#0820
Estes Citation Family		
Estes	Patriot	KC-3, MK-3 or #0652
Estas Collector's Sories For	÷1	
Estes Collector's Series Fam	•	#20.62
Estes	Mars Snooper	#2063
Estes Launchables Family		
Estes	Fat Boy	#1273
Estes	Mk-109 Stingray	#1232
Estes	US Army Patriot M-104	#1248
<u>Estes Maxi Brute Family</u>		
Estes Maxi bitte Failing Estes	Maxi Alpha	#1291
Estes	(Maxi) Honest John	#2166
Estes	Maxi Honest John	#1269
Estes	Maxi V-2	K-67 or #1267
Estes	Saturn V	#1236
<u>Estes Mini Brute Family</u>		
Estes	Big Yank	#0868
Estes	Condor	#0807
Estes	Hornet	TK-4 or #0804
Estes	Javelin	#0815
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	Little John	#0819
Estes Pro Series Family		
Estes	Pro Series Patriot Missile	#2066
Estes	Pro Series Jayhawk	#2085
Estas V Driza Family		
Estes X-Prize Family	Consider Amor-	#2100
Estes	Canadian Arrow	#2188
Estes	Cosmos Mariner	#2190 #0800
Estes Estes	Gauchito	#0809 #0807
LSUCS	Lucky Seven	πυου/

FlisKits Marketing Families

Fliskits Micro-to-the-Maxx Family
FliskitsHonest JohnMX008

Leading Edge Marketing Families

Leading Edge Micro Classics Family		
Leading Edge	Micro Goblin	LE-05
Leading Edge	Micro Max	LE-07

QModeling Marketing Families

QModeling Retro MEGA Family QModeling NIKEX

Semroc Marketing Families

Semroc Centuri Retro Repro Family

Semroc	Arcon	KV-7
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	SLS Explorer	KV-56
Semroc	SLS Aero-Dart	KV-6
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
<u>Semroc Deci Scale Family</u>		

C		
Semroc	I.Q.S.Y Tomahawk	KD-2

Seniroc Estes Ketro Kepro Fanny			
Semroc	Golden Scout	KV-4	
Semroc	Little Joe II	KS-3	
Semroc	Mark xKit	XES-K2	
Semroc	Orbital Transport	KV-66	
Semroc	Saturn 1B	KS-1	
Semroc MMI Retro Repro Family			
Semroc	Aerobee Hi	KV-2	
Semroc Ready to Build Family			
Semroc	Mini Explorer	KA-22	
Semroc SLS Family			
Semroc	SLS Aero-Dart	KV-6	
Semroc	SLS Arcas	KS-5	
Semroc	SLS Explorer	KV-56	
Semroc xKit Family			
Semroc	Mark xKit	XES-K2	
Semroc	SST Shuttle-1 xKit	XCE-KC17	
Semroc	V-2 xKit	XES-K22	

Semroc Estes Retro Repro Family

US Rockets Marketing Families

<u>USR Sport and School Family</u>		
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.

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.

Excelsior	2	Goony Max
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
Estes	Astron Drifter	K-14 or #1214
Semroc	Starfire	KV-20

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

Tube Fin Family

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

	5 55	11 1 5
BMS	FSI Viking 1	FSIVK1
Custom	Razor	#10017
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



Advanced Rocketry Group

(ARG)



Master List for ARG by Name

Black Brant IV Convair MX-774 HIROC Skyprobe Trident 13

#117-13



Master List for ARG by Number

#117-13 Trident 13





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)

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*: 4.60z/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*: 14.20z/400g.

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

Catalog Liveries

Web Liveries



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:

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

Catalog Liveries

Web Liveries



Face Card(s)

Also of interest:

AFROMPACE FROMETRALITY PRODUCTS 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 Rock-etry 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)



Master List for $\ensuremath{\textbf{ASP}}$ 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 $\ensuremath{\textbf{ASP}}$ by Number

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

AEROSPACE Speciality Products

Micro Hawk (KHAWK-MM)

MODEL NAME: Micro Hawk

Also known as:

NUMBER: KHAWK-MM

Introduced: Final Year: Designer:

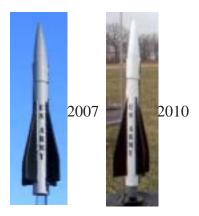
Type: Scale *Motor Mount*: 1x6mm *Recovery*: Streamer *Stages*: 1 *Length*: 4.13"/104.8 mm *Diameter*: 0.282"/7.16 mm *Span*: *Weight*: 0.18 oz/5 gm

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



Face Card(s)

Micro Jayhawk

AEROSPACE Speciality Products

MODEL NAME:

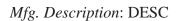
Micro Jayhawk

Also known as:

NUMBER:

Introduced: Final Year: Designer:

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



Out Of Production

Catalog Liveries

Web Liveries



Face Card(s)

AEROSPACE SPECIALITY PRODUCTS 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



Stubby (KSTU-13)

AEROSPACE Speciality Products

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

AEROSPACE Speciality Products

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



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)



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/HybridTM" 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/TurboTM". 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-PlusTM advanced delay sealing system and the FirstFireTM two-lead



igniter. AeroTech and Dr. Franklin Kosdon revealed that an agreement was reached whereby AeroTech would manufacture the Kosdon TRMTM 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 RedlineTM 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 TRMTM line under the "Kosdon by AeroTechTM" (KBATM) trade name, as well as the RedlineTM 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#89013G-Force#89021HV Arcas#89012Initiator#89011Stong Arm#89017Sumo#89024Wart-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

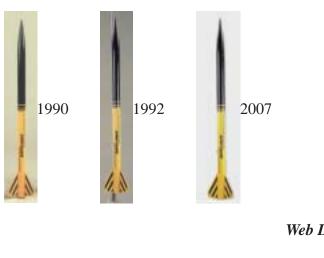
Also known as:

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

Web Liveries

Face Card(s)

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



Web Liveries

Face Card(s)



HV Arcas (#89012)

MODEL NAME: **HV Arcas**

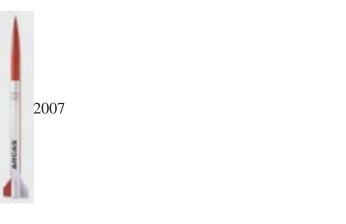
Also known as:

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

Web Liveries

Face Card(s)

Initiator (**#89011**)



MODEL NAME:

Initiator

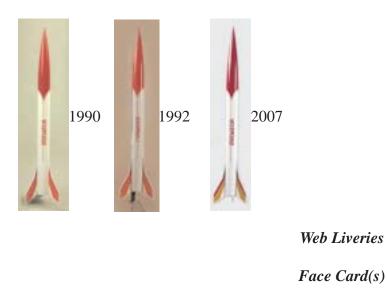
Also known as:

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

Also of interest: Enertek: Initiator: #89814



Strong Arm (#89017)

MODEL NAME: Strong Arm

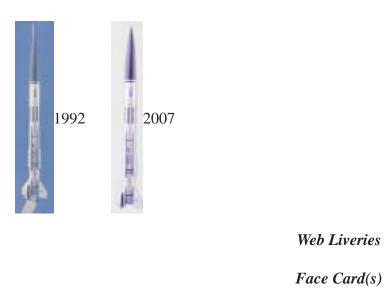
Also known as:

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

Also of interest: Enertek: Strong Arm: #8815

Sumo (#89024)



MODEL NAME: Sur

Sumo

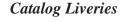
Also known as:

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)



2007

Web Liveries

Face Card(s)



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

Web Liveries

Face Card(s)



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

Predator Jr.



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

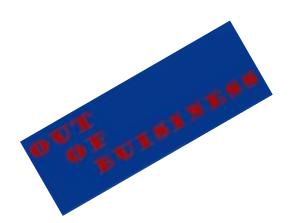
Web Liveries

2011

Face Card(s)



American Alliance Rocketry





Master List for American Alliance by Name

AvengerF2EmulatorNB5

Master List for American Alliance by Number

F2 Avenger

NB5 Emulator

Avenger (F2)



MODEL NAME: Av

Avenger

Also known as:

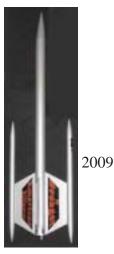
NUMBER: F2

Introduced: Final Year: Designer:

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

Mfg. Description:

Web Liveries



Face Card(s)



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



Face Card(s)



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, FUR-THER AND HIGHER.

(Company Web Statement 2011)



Master List for Apogee Components by Name

Diamondback	
Micro V-2	

#05034 #05021

Master List for Apogee Components by Number

 #05021
 Micro V-2

 #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

Micro V-2 (#05021)



MODEL NAME: Micro

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

Face Card(s)

Also of interest: All V-2 Families



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)



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



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:

These kits contain everthing you need to build a high performance rocket. *Mfg. Description*: 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



Face Card(s)

Also of interest: Scribe Family



Cinco (13mm)

MODEL NAME: 13mm Cinco

Also known as:

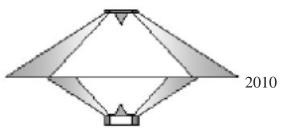
NUMBER:

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



Face Card(s)

Also of interest: Art Applewhite Cinco Family

Cinco (38mm)



MODEL NAME: 38mi

38mm Cinco

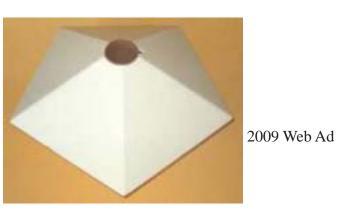
Also known as:

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

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

Face Card(s)

Helix (13mm)



MODEL NAME:

13mm Helix

Also known as:

NUMBER:

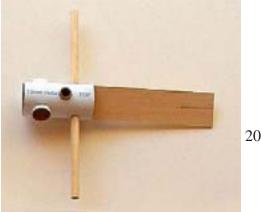
Introduced: Final Year: Designer: Art Applewhite

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)



Helix (18mm)

MODEL NAME: 18mm Helix

Also known as:

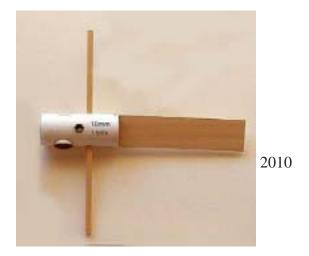
NUMBER:

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

Face Card(s)

Helix (20mm)



MODEL NAME:

E: 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)



Helix (24mm)

MODEL NAME:

24mm Helix

Also known as:

NUMBER:

Introduced: Final Year: Designer: Art Applewhite

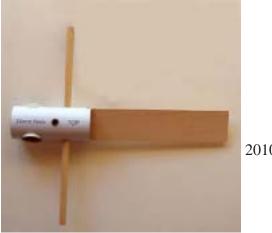
Type: MonoCopter Motor Mount: 1x24mm *Recovery: Tumble* Stages: 1 Length: Diameter: *Span:* 8" Weight: 1.4 oz (39 grams)

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

Face Card(s)



2010

Helix (29mm)



MODEL NAME:

29mm Helix

Also known as:

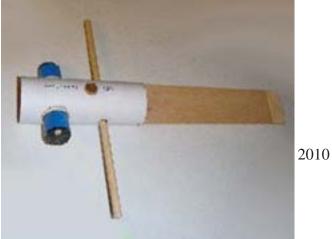
NUMBER:

Introduced: Final Year: Designer: Art Applewhite

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

Mfg. Description:

Web Liveries



Face Card(s)



Micro Maxx Flying Saucer

MODEL NAME: Micro Maxx Flying Saucer

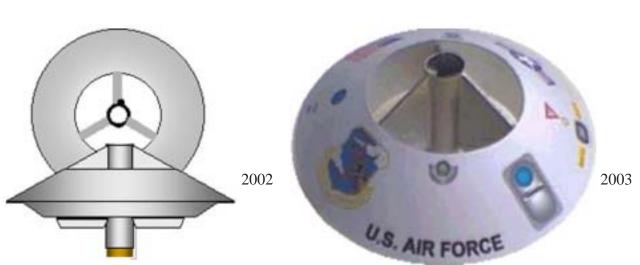
Also known as:

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

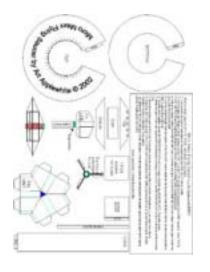
Mfg. Description: As these rockets climb, they spin like real flying saucers. At apogee the Saucer Section separates from the Power Pod and they glide safely down. The fins are 3/32" Basswood and the Saucer Section is 110 lb Card Stock. Engine hooks are used for positive engine retention. The plain flying 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



Face Card(s)



Also of interest: Applewhite Flying Saucer Family



Micro Maxx Qubit

MODEL NAME: Micro Maxx Qubit

Also known as:

NUMBER:

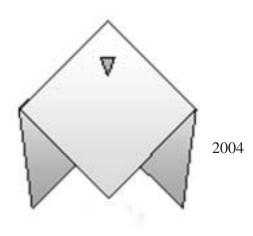
Introduced: 2004 Final Year: Designer: Art Applewhite

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

Mfg. Description: DESC

Catalog Liveries

Web Liveries



Face Card(s)

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)



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)

Qubit (13mm)



MODEL NAME:

13mm Qubit

Also known as:

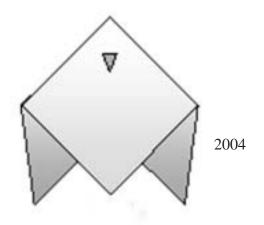
NUMBER:

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



Face Card(s)



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



Face Card(s)



BaddAzz Rocketry

http://www.baddazzrocketry.com/



Master List for **BaddAzz** by Name

Das Blitzkrieg

Das Blitzkrieg



MODEL NAME: D

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!!!!



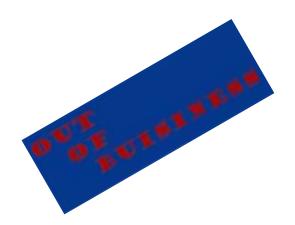
Web Liveries

Face Card(s)

Also of interest:



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

Rock-a-Chute Mrk-I

MODEL NAME: Rock-a-Chute Mark I

Also known as:

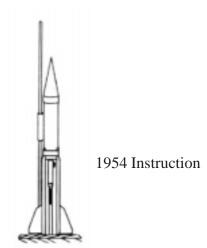
NUMBER: Mrk-I

Introduced: 1954 Final Year: Designer: Robert Carlisle

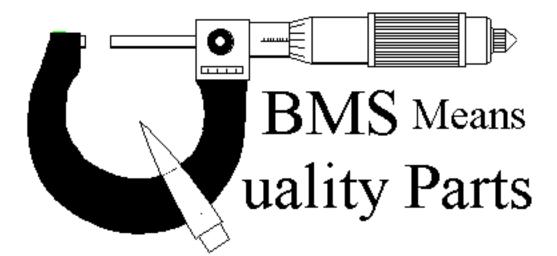
Type: Sport Recovery: Parachute Stages: 1 Length: Diameter: Span: Weight:

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)



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 (Estes) Mini Bomarc (FSI) Viking 1 K14 08005(TK-5) FSIVK1

Master List for **BMS** by Number

0805(TK-5) (Estes) Mini Bomarc

K14 (Estes) Astron Drifter

FSIVK1 (FSI) Viking 1

Astron Drifter (K14)



MODEL NAME: Astron

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



Face Card(s)

Also of interest: Estes Drifter Family, Parachute Duration 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





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

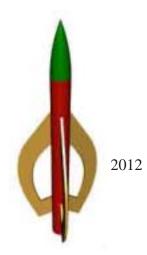
Type: Exotic Motor Mount: 1x13mm Recovery: Length: 10.0" Diameter: 0.736" (BT-20) Fin Span: 4.08" Weight: 0.98 oz

Mfg. Description:

Editorial Note:

Catalog Liveries

Web Liveries



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

Excel Plus Thug



Excel Plus

MODEL NAME: I

Excel Plus

Also known as:

NUMBER:

Introduced: Final Year: Designer:

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



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)



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)

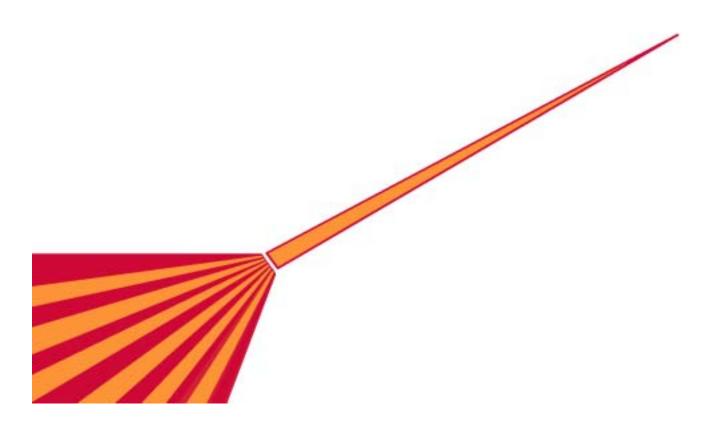
Editor's Note:

Catalog Liveries

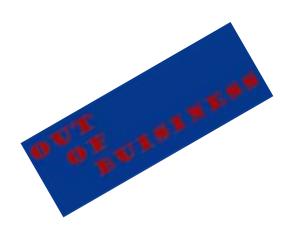
Web Liveries



Face Card(s)



Blast From the Past



143

Master List for **Blast From the Past** by Name

(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

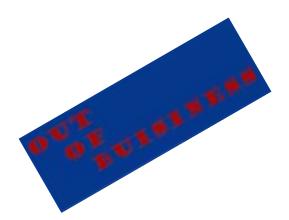
Web Liveries

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")





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





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:

Out Of Production

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

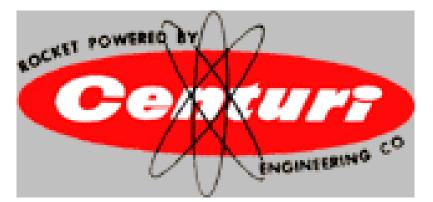
Web Liveries



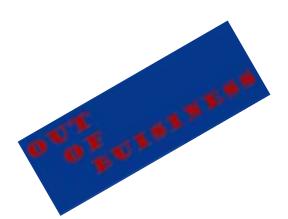
2008

Face Card(s)

Also of interest: BSD Thor Family



Centuri Engineering







Master List for Centuri by Name

Aero-Bat	#5057	
Aero-Bat	KBG-1	
Aero-Dart	#5182	
Aero-Dart	KF-2	
Aero-Dart	KF-12	
Aero-Dart	KFS-9	
Alien Scoutship Flying Saucer	#5325	
Arcon	KB-2	
Astro-1	#5047	
Astro-1	KB-17	
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	Buc
E.S.S. Raven	#5312	Sup
Excalibur	#5008	1
Excalibur	KA-8	
Explorer	#5179	
Explorer	KF-9	
Firefly	#5006	
Firefy	KA-6	
Flutter-By	#5009	
Flutter-By	KA-9	
Hummingbird	#5172	
Hummingbird	#KF-2	
Javelin	#5091	
Javelin	KC-31	
Laser-X	#5110	
Laser-X	KC-50	
Lil' Hercules	#5001	
Lil' Hercules	KA-1	
Little Joe II	#5138	
Little Joe II	#5139	
Little Joe II	KS-8	
Little Joe II	KS-9	

Buck Rogers SuperKit



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
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	#3080 KC-20
•	
(The) Point	#5073
(The) Point	KC-13
Saturn 1B	#5140
Saturn 1B	KS-10
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
Taurus Fleet Ship	#5033
Taurus Fleet Ship	KB-3
Thunder Hawk	#5338



Thunder Roc	#5340
Vector V	#5032
Vector V	KB-2
V2	#5149
V2	KS-19



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

Super Kit

#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
#5057	Aero-Bat
#5062	Centurion
#5064	Long Tom
#5066	Space Shuttle
#5068	Orion
#5072	Starfire
#5073	(The) Point
#5075	Centaur
#5076	Chuter Two
#5077	SST Shuttle 1
#5080	Payloader II
#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
#5145	Nike Smoke
#5149	V2
#5172	Hummingbird
#5173	Screaming Eagle
#5174	Scram Jet
#5179	Explorer
#5182	Aero-Dart
#5183	Nike Smoke
#5312	E.S.S. Raven
#5325	Alien Scoutship Flying Saucer
156	

Centuri

#5336	Draconian Marauder
#5338	Thunder Hawk
#5340	Thunder Roc
#5341	Magnum D Hornet
#5342	Magnum D Jayhawk
10012	inagnani 2 baynavn
KA-1	Lil' Hercules
KA-1 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	BatRoc
KB-10	Sky Devil
KB-13	Snipe Hunter
KB-13 KB-17	Astro-1
KD-1/	Asu0-1
VDC 1	A and Dat
KBG-1	Aero-Bat
KBG-3	Swift
WG A	
KC-2	Centurion
KC-4	Long Tom
KC-6	Space Shuttle
KC-8	Orion
KC-12	Starfire
KC-13	(The) Point
KC-15	Centaur
KC-16	Chuter Two
KC-17	SST Shuttle 1
KC-20	Payloader II
KC-31	Javelin
KC-35	Defender Space Probe
KC-45	Marauder
KC-49 KC-50	Laser-X
NC-30	Lasti-A
KD 12	A sure De rt
KD-12	Aero-Dart
KE-3	Nike Smoke

Buck Rogers



KF-2	Hummingbird
KF-3	Screaming Eagle
KF-4	Scram Jet
KF-9	Explorer
KFS-9	Aero-Dart
KM-3	Star Trooper
KS-1	Mercury Redstone
KS-8	Little Joe II
KS-9	Little Joe II
KS-10	Saturn 1B
KS-15	Nike Smoke
KS-19	V2



Centure 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:

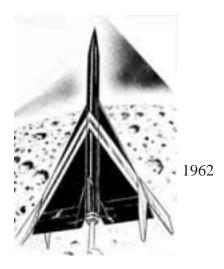


Powered flight straight up ------ then glide return for a soft landing. With the *Mfg. Description:* insertion of a new engine, the Aero-Bat is ready to fly again.

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

Editor's Note:

Catalog Liveries



Web Liveries

Face Card(s)

Instruction Header

Aero-Dart (KF-2)



MODEL NAME:

Aero-Dart

Also known as:

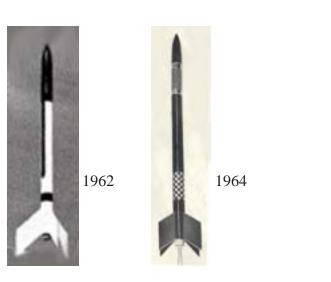
NUMBER: KF-2

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

Web Liveries

Face Card(s)

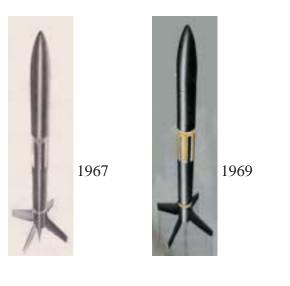
Also of interest: Centuri Aero-Dart Family



MODEL NAME:	Aero-Dart	Also known as:
NUMBER: KF-12 of	r #5182	
Introduced: 1967 Final Year: 1971 Designer: Lee Pieste	<i>T</i>	
Type: Sport/payload Motor Mount: Recovery: Parachute Stages: 1 Length: Diameter: 1.75" Span: Weight:	2	Out Of Production

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



Web Liveries

Face Card(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



Web Liveries

Face Card(s)

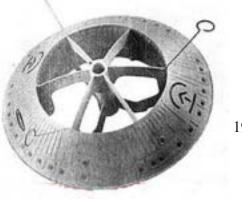
Also of interest: Centuri Aero-Dart Family

Centurs Alien Scoutship Flying Saucer (#5325)

MODEL NAME:Alien Scoutship Flying SaucerAlso known as:NUMBER: #5325Introduced: 1978
Final Year: 1982
Designer:Image: 1982
Designer:Image: 1982
Designer:Type: Oddroc/Saucer
Motor Mount: 1x18mm
Recovery: Aerobrake
Stages: 1
Length: 3.5"
Diameter: 9.125"
Span: 9.125"Image: 1982
Designer:

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



Weight: 2.4 oz

1978 Catalog 2











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)

Editor's Note:

Catalog Liveries



Web Liveries

Face Card(s)

Instruction Header

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



Easy and fast to build, ASTRO-1 is an excellent starting kit for the beginning *Mfg. Description*: 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)



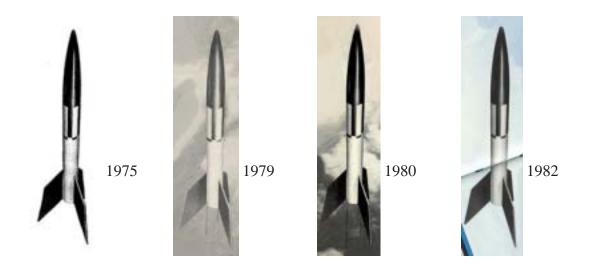
Catalog Liveries

1970 Christmas











Web Liveries

Face Card(s)

Also of interest: Centuri Astro-1 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



MODEL NAME: Black Widow

Also known as:

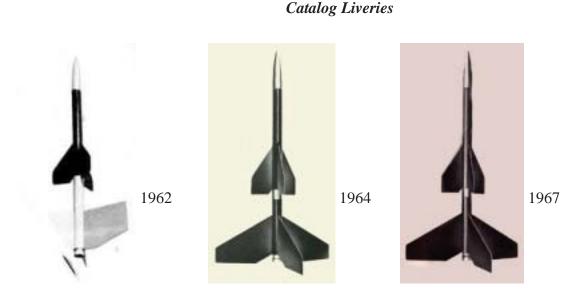
NUMBER: KB-6 or #5036

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 B6-0 and B6-6 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)



















1979



Also of interest:

Face Card(s)



Centaur (KC-15 or #5075)

MODEL NAME: Centaur

Also known as:

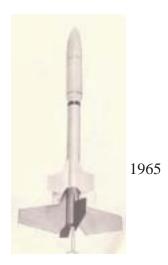
NUMBER: KC-15 or #5075

Introduced: 1965 Final Year: 1971 Designer:

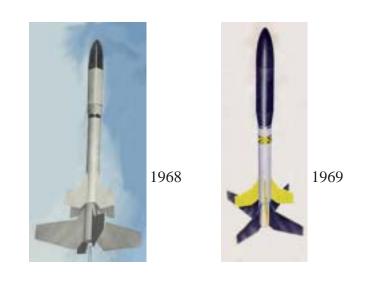
Type: Sport Motor Mount: 1x18mm/1x18mm Recovery: Tumble/Parachute Stages: 2 Length: 20.5" Diameter: 1.3" Span: Weight: 1.8 oz



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)



Catalog Liveries







1971

Web Liveries

Face Card(s)



Also of interest: Centuri Centaur Family



Centuri Centurion (KC-2 or #5062)

MODEL NAME:	Centurion
-------------	-----------

Also known as:

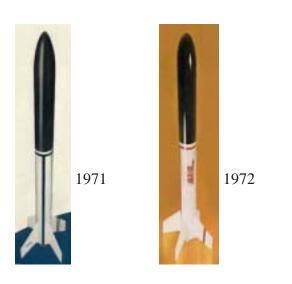
NUMBER: KC-2 or #5062

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 liftoffs 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

Web Liveries

Face Card(s)

Chuter Two (KC-16 or #5076)



MODEL NAME: Ch

Chuter Two

Also known as: Chuter 2, Chuter II

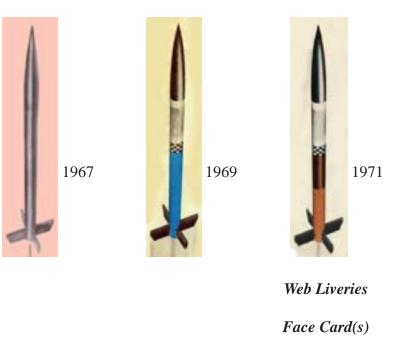
NUMBER: KC-16 or #5076

Introduced: 1967 Final Year: 1971 Designer:

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

Also of interest: Centuri Chuter Two Family



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

1969



Web Liveries

Face Card(s)



Also of interest: Centuri Defender Space Probe Family

Centure Draconian Marauder (#5336)

MODEL NAME: **D**

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:



Mfg. Description:

1979



1980

Catalog Liveries



Web Liveries

Face Card(s)



Also of interest: Buck Rogers Draconian Marauder Family



E.S.S. Raven (#5312)

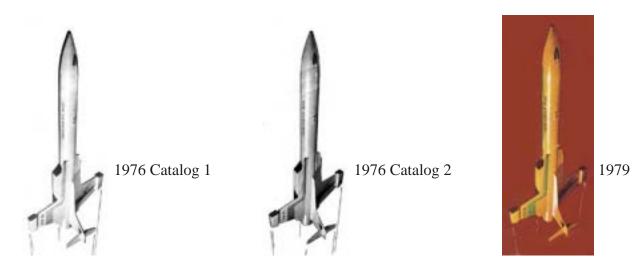
MODEL NAME:E.S.S. RavenAlso known as:NUMBER: #5312Introduced: 1976Final Year: 1981Designer:Type: ExoticMotor Mount:Recovery: Parachute

Recovery: Parach 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





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

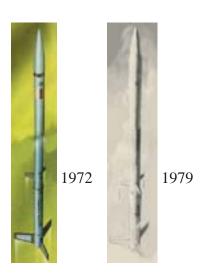
Introduced: 1972 Final Year: 1980 Designer:

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:





Face Card(s)



Also of interest: Centuri Excalibur Family



Explorer (KF-9 or #5179)

Also known as:

NUMBER: KF-9 or #5139

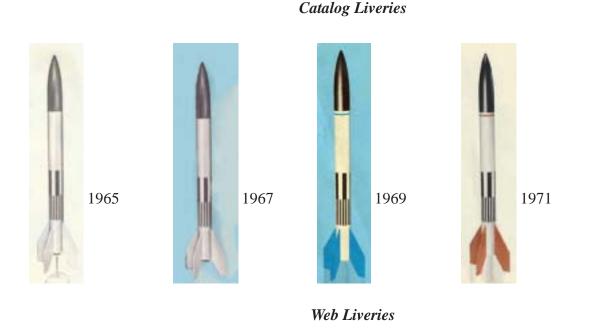
Introduced: 1965 Final Year: 1971 Designer: Lee Piester

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)

Editor's Note:



Face Card(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 "duallock" 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)

Catalog Liveries

Editor's Note:

1969



1970 Christmas





Face Card(s)



Also of interest: Centuri Firefly Family

Flutter-By (KA-9 or #5009)



MODEL NAME: Flutte

Flutter-By

Also known as:

NUMBER: KA-9 or #5009

Introduced: 1972 Final Year: 1974 Designer: Grant Boyd

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



Face Card(s)



Also of interest:

Hummingbird (KF-2 or #5172)



MODEL NAME: **H**

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:



Javelin (KC-31 or #5091)

MODEL NAME: Javelin

Also known as:

NUMBER: KC-31 or #5091

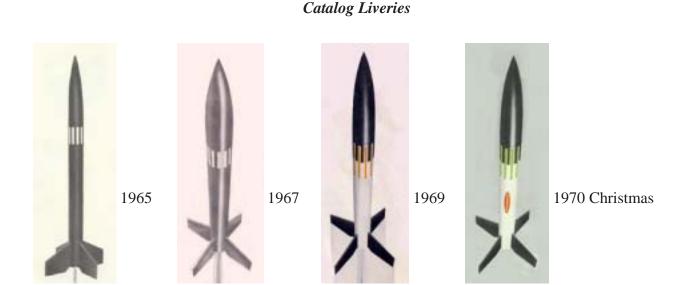
Introduced: 1965 Final Year: 1983 Designer:

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)

Editor's Note:

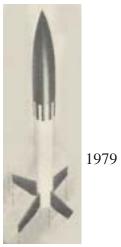


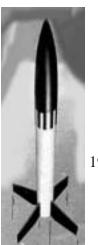












1980





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





1970 Christmas







Face Card(s)

Also of interest: Centuri Laser-X Family



MODEL NAME: Lil' Hercules

Also known as:

NUMBER: KA-1 or #5001

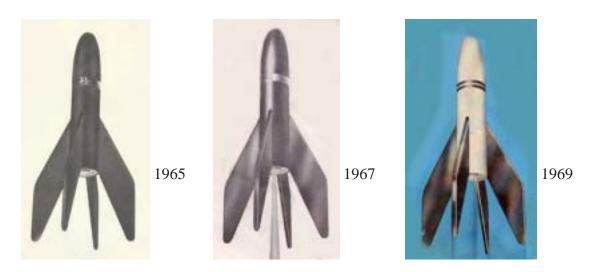
Introduced: 1965 Final Year: 1983 Designer:

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)

Editor's Note:





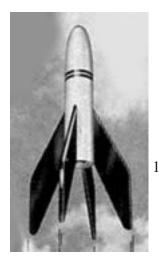


1970 Christmas





1979



1980



Face Card(s)

1982



1983



Also of interest: Centuri Lil' Hercules Family



MODEL NAME: Little Joe II

Also known as: Apollo Little Joe 2

NUMBER: KS-8 or #5138

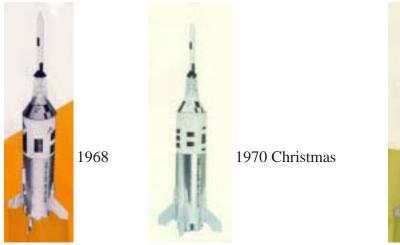
Introduced: 1968 Final Year: 1977 Designer:

Type: Scale. Cluster Motor Mount: Recovery: Parachute Stages: 1 Length: 23.4" Diameter: 3.4" Span: Weight: 5.5 oz



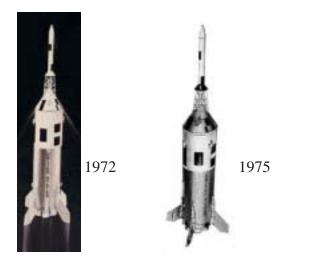
Mfg. Description: A terrific looking, top performing Real Flying Model of the famous rocket booster used by NASA to test out the APOLLO Capsule series before mating with the SATURN rockets. Now you can recreate those historic test flights with your own APOLLO Little Joe. Almost 2 feet tall, the LITTLE 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:









Face Card(s)

Also of interest: Little Joe II aunch Vehicle Family



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)

Catalog Liveries

Editor's Note:

1970 Christmas





Face Card(s)

Also of interest: Little Joe II Launch Vehice Family

1969

Long Tom (KC-4 or #5064)



MODEL NAME: Lon

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:





Face Card(s)



Also of interest: Centuri Long Tom Family

Mach 10 (KA-4 or #5004)



1975

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:







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:

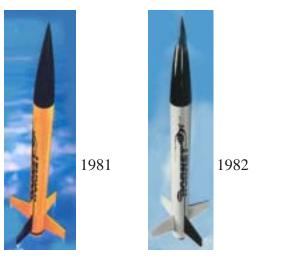
Type: Sport Motor Mount: 1x24mm Recovery: Streamer Stages: 1 Length: 19.8" Diameter: 1.325" Span: Weight: 1.76 oz



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



Web Liveries

Face Card(s)

Also of interest: Centuri Hornet Family

Centuri Magnum D Jayhawk (#5342)

Also known as: Magnum Jayhawk

NUMBER: #5342

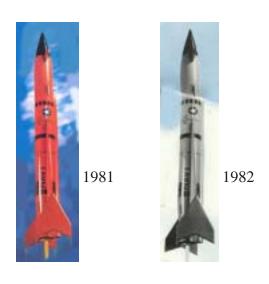
Introduced: 1980 Final Year: 1983 Designer: Chris Pocock and Doug Frost

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:





Face Card(s)



Also of interest: AQM-37 Jayhawk Ordnance Family



MODEL NAME: Marauder

Also known as:

NUMBER: KC-45 or #5105

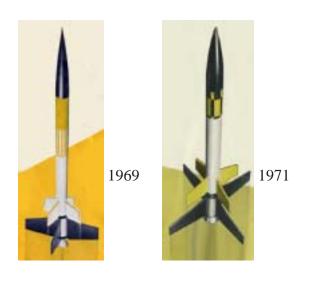
Introduced: 1969 Final Year: 1971 Designer:

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

Web Liveries

Face Card(s)

Mercury Redstone (KS-1 or #5131)



MODEL NAME:

Mercury Redstone

Also known as:

NUMBER: KS-1 or #5131

Introduced: 1971 Final Year: 1983 Designer:

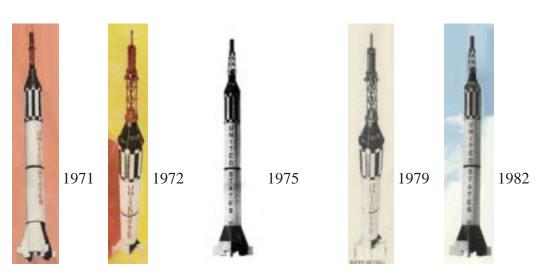
Type: Scale Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 29" Diameter: 2.04" Span: Weight: 3.7 oz



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:





Face Card(s)

Also of interest: Mercury Redstone Launch Vehicle Family

Micron (KA-5 or #5005)



MODEL NAME: Micron Also known as:

NUMBER: KA-5 or #5005

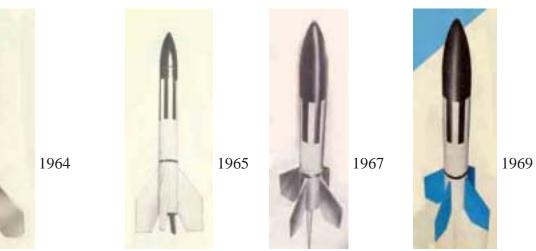
Introduced: 1963 Final Year: 1981 Designer: Lee Piester

Type: Sport Motor Mount: 1x18mm Recovery: Streamer Stages: 1 Length: 8.5" *Diameter:* Span: *Weight:* 0.38 *oz*

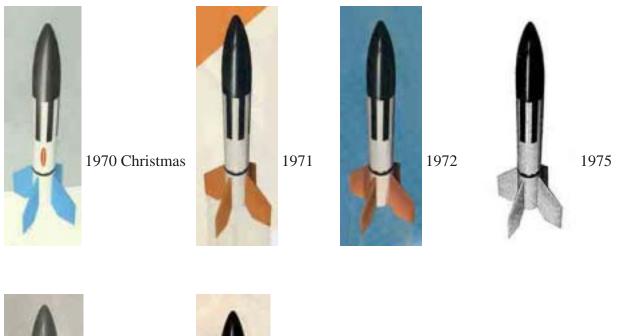


Mfg. Description: The single stage Micron kit is perfect for the beginner in model rocketry. Its basic stable design will aid your understanding of rocketry fundamentals. This models has been tracked to well over 2000 ft using a B8-0 engine. Streamer recovery system provides a soft landing so that the Micron can be flown again and again. Comes to you in easy to build kit form with easyto-follow instructions. (Centuri 1964 Catalog)

Editor's Note:









1979



Face Card(s)

Also of interest: Centuri Micron Family

Nike Smoke (KS-15 or #5145)



MODEL NAME: N

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:







1979

Web Liveries

Face Card(s)



Also of interest: Nike Smoke Sounding Rocket Famiy

Nike Smoke (KE-3 or #5183)



MODEL NAME: N

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:

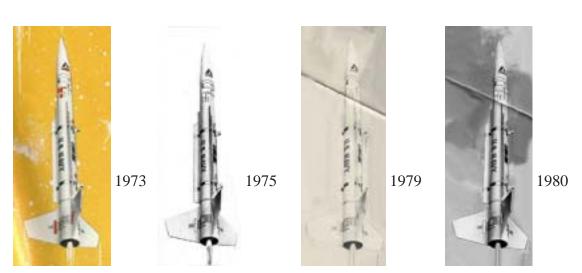
NUMBER: KB-5 or #5035

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)







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

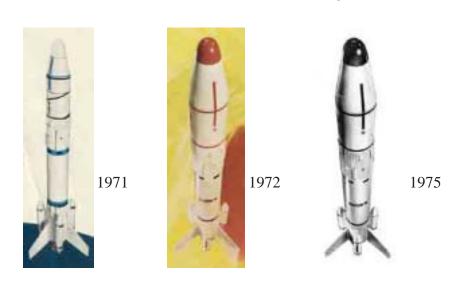
Type: Sport Motor Mount: Recovery: Parachute Stages: 1 Length: 22.5" Diameter: 2.04" Span: Weight: 4.5 oz



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)

Catalog Liveries

Editor's Note:



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)

Editor's Note:

Catalog Liveries



Web Liveries

Face Card(s)

Instruction Header



MODEL NAME: Payloader II

Also known as:

NUMBER: KC-20 or #5080

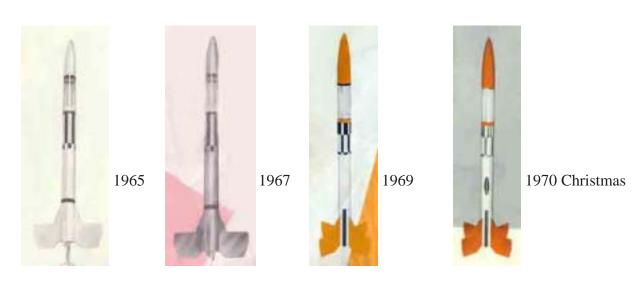
Introduced: 1965 Final Year: 1981 Designer:

Type: Sport/Payload Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 18.5" Diameter: 1.04" Span: Weight: 1.2 oz



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)

Editor's Note:

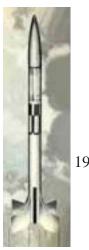












1980

Web Liveries

Face Card(s)



Instruction Header

Also of interest: Centuri Payloader II Family



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



1971



Web Liveries

Face Card(s)

Instruction Header



Also of interest: Centuri Point Family



MODEL NAME: Saturn 1B

Also known as:

NUMBER: KS-10 or #5140

Introduced: 1969 Final Year: 1982 Designer:

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:







1979

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Saturn I Launch Vehicle 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:

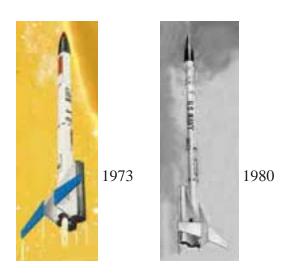
Type: pseudo-scale Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 18.5" Diameter: Span: Weight: 1.4 oz



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:





Web Liveries



Face Card(s)

Instruction Header





Also of interest:



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



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



1975









Screaming Eagle

Also of interest: **226**

Face Card(s)

Instruction Header



MODEL NAME: Sky Devil

Also known as:

NUMBER: KB-10 or #5040

Introduced: 1973 Final Year: 1983 Designer:

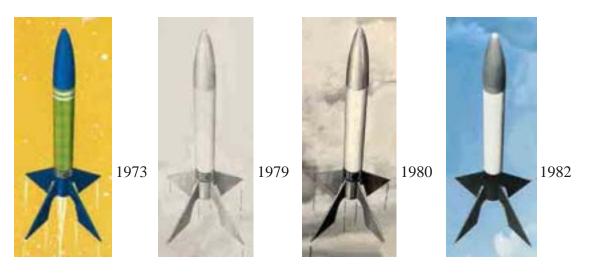
Type: Sport Motor Mount: 1x18mm Recovery: Streamer or Parachute Stages: 1 Length: 12" to 14" Diameter: 0.78" Span: Weight: 0.8 oz



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



Web Liveries



Face Card(s)



Instruction Header



Also of interest:



MODEL NAME: Sn

Snipe Hunter

Also known as:

NUMBER: KB-13 or #5043

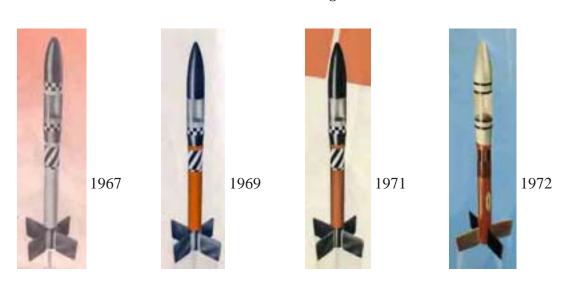
Introduced: 1967 Final Year: 1981 Designer:

Type: Payload Motor Mount: Recovery: Parachute Stages: 1 Length: 12.5" Diameter: 0.907" Span: Weight: 0.85 oz

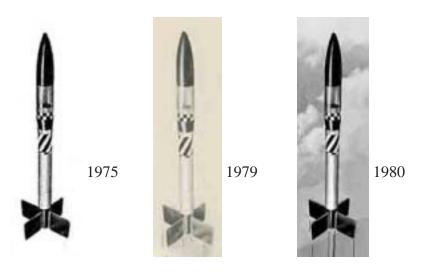


Mfg. Description: A fantastic performer!! Chosen for its new, high performance design characteristics, the SNIPE HUNTER was flown in the first International Model Rocket Championship Meet held at Dubnika, Czechoslovakia. Comes with clear plastic see-thru payload capsule. Terrific for demonstration or display. Study the effects of acceleration on insect life with assured parachute recovery. (Centuri 1967 Catalog)

Editor's Note:







Web Liveries

Face Card(s)

Instruction Header

Also of interest: Centuri Snipe Hunter Family



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

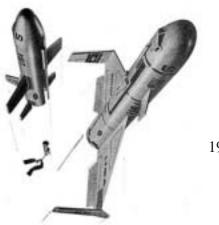


1971



1972





1976

Web Liveries

Face Card(s)

Also of interest: Centuri Space Shuttle Family



MODEL NAME: SST Shuttle 1

Also known as: SST Shuttle

NUMBER: KC-17 or #5077

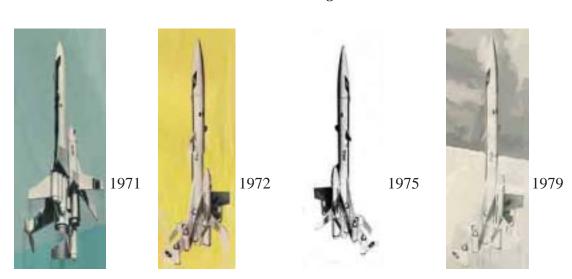
Introduced: 1971 Final Year: 1982 Designer:

Type: Exotic, Boost Glider Motor Mount: 1x18mm Recovery: Glide/Parachute Stages: 1 Length: 22.5" Diameter: 1.04" Span: Weight: 2.6 oz

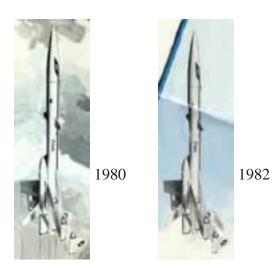


Mfg. Description: Long, sleek and impressive, the Centuri SST SHUTTLE blasts skyward in spectacular flight. At peak altitude the rocket plane separates for a long sweeping glide back to earth. The SST deploys a large parachute and begins descending, not hanging by the nose, but horizontally - in flying position! This kit is a must! Complete with detailing parts, SST "Concepts Report" and large full-color decals. (Centuri 1971 Catalog)

Editor's Note:







Face Card(s)



Instruction Header



Also of interest: Centuri SST Shuttle 1 Family **234**



MODEL NAME:	Star 7
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Star Trooper

Also known as:

NUMBER: KM-3 or #5103

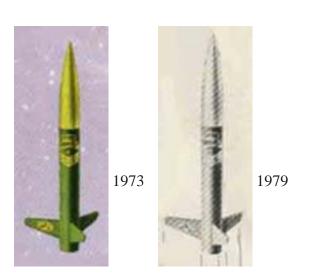
Introduced: 1973 Final Year: 1979 Designer:

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

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:

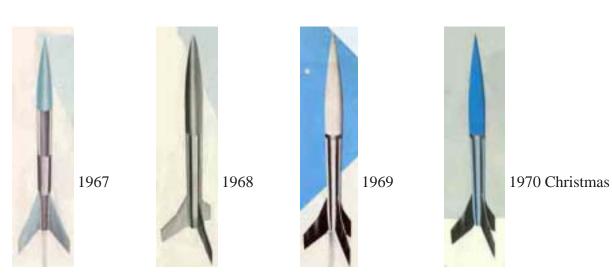
NUMBER: KC-12 or #5072

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:

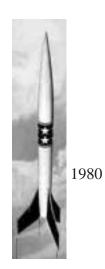
















1982

Web Liveries

Face Card(s)





Instruction Header



Also of interest: Centuri Starfire Family, Parachute Duration Family

Swift (KBG-3)



MODEL NAME:

Swift

Also known as: Swift Boost Glider

NUMBER: KBG-3

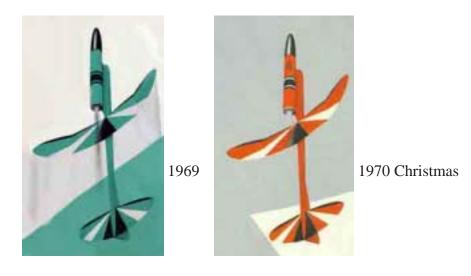
Introduced: 1969 Final Year: 1974 Designer: Lee Piester

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:







1972

Face Card(s)



Instruction Header



Also of interest: Centuri Swift Family

Taurus Fleet Ship (KB-3 or #5033)



MODEL NAME:

Taurus Fleet Ship

Also known as: Taurus

NUMBER: KB-3 or #5033

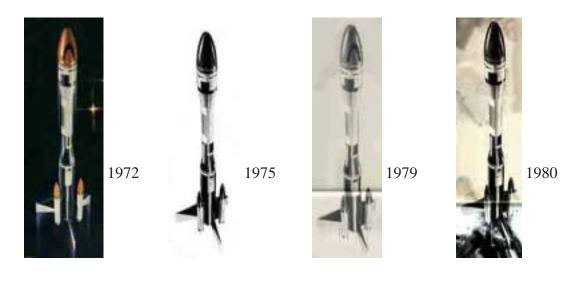
Introduced: 1972 Final Year: 1981 Designer:

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:







1981







Instruction Header

Also of interest: Centuri Taurus Fleet Ship Family

Thunder Hawk (#5338)



MODEL NAME:

Thunder Hawk

Also known as: ThunderHawk, Thunderhawk

NUMBER: #5338

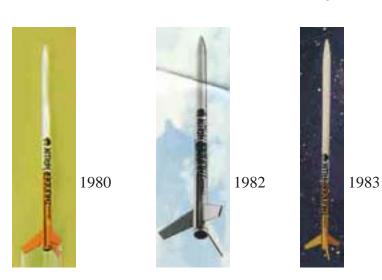
Introduced: 1980 Final Year: 1983 Designer: Bill Stine

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 rock-eteers. (Centuri 1980 Catalog)

Editor's Note:





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

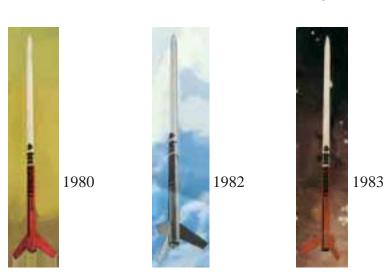
Introduced: 1980 Final Year: 1983 Designer: Bill Stine

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:





Web Liveries

Face Card(s)



Instruction Header



Also of interest: Centuri Thunder Roc Family

V2 (KS-9 or #5149)



MODEL NAME: V2

Also known as:

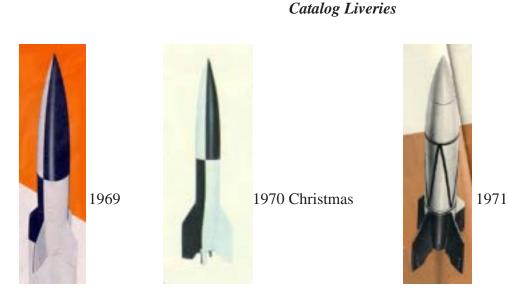
NUMBER: KS-9 or #5149

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)



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:





Web Liveries

Face Card(s)



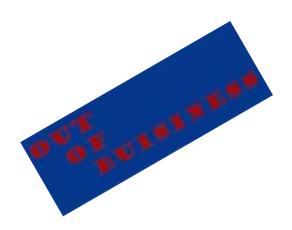
Instruction Header



Also of interest: Centuri Vector V Family



Centuri American Rocketeer





Master List for American Rocketeer by Name

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





Web Liveries

Face Card(s)

Instruction Header



Also of interest:

cosmodrome

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



MODEL NAME: Aerobe

Aerobee Hi

Also known as:

NUMBER:

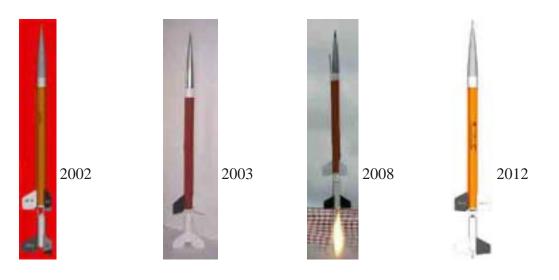
Introduced: Final Year: Designer: Mike Kruger

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 decals24" and 18" rip-stop nylon parachutesF through H powerThrough-the-wall finsMotor retension on both stages (Cosmodrome 2012 Web Ad)

Editorial Note:

Catalog Liveries







Instruction Header



Also of interest: Aerobee Sounding Rocket Family

Black Brant II



MODEL NAME: Black B

Black Brant II

Also known as:

NUMBER:

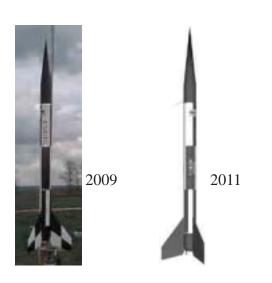
Introduced: Final Year: Designer: Mike Kruger

Type: Scale Motor Mount: 1x29mm Recovery: Parachute Stages: 1 Length: 50.8" Diameter: 2.63" Span: Weight: 190z

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







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 coneMovable forward vanes28" rip-stop nylon parachuteF through H powerThrough-the-wall finsMotor 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





Instruction Header



Also of interest: Black Brant V Sounding Rocket Family

Nike Apache



MODEL NAME:

Nike Apache

Also known as:

NUMBER:

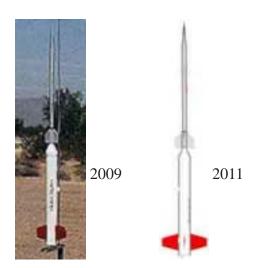
Introduced: Final Year: Designer: Mike Kruger

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







Instruction Header



Also of interest: Nike Apache Sounding Rocket Family

Nike Smoke



MODEL NAME: Nike

Nike Smoke

Also known as:

NUMBER:

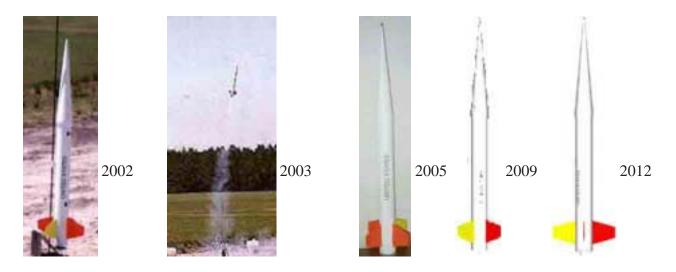
Introduced: Final Year: Designer: Mike Kruger

Type: Scale Motor Mount: 1x29mm Recovery: Parachute Stages: 1 Length: 36.5" Diameter: 2.63" Span: Weight: 17oz

Mfg. Description:Balsa nose coneSelf-adhesive decals24" rip-stop nylon parachuteE through H powerThrough-the-wall finsMotor retension (Cosmodrome 2012 Web Ad)

Editorial Note:

Catalog Liveries







Instruction Header



Also of interest: Nike Smoke Sounding Rocket Family

Vostok



MODEL NAME: Vostok

Also known as:

NUMBER:

Introduced: Final Year: Designer: Mike Kruger

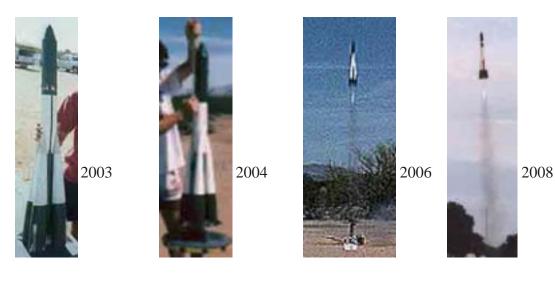
Type: Scale Motor Mount: 1x38mm Recovery: Parachute Stages: 1 Length: 45.0" Diameter: 3.216" Span: Weight: 55 oz

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



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Instruction Header



Also of interest: Vostok Launch Vehicle Family



Currell Graphics

http://www.currell.net/models/index.htm



Master List for **Currell** by Name

V-2 Rocket

V-2 Rocket



V-2 Rocket MODEL NAME:

Also known as:

NUMBER:

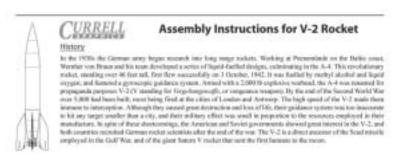
Introduced: 2005 Final Year: Designer: Ralph Currell

Type: Scale, Cardstock Motor Mount: Recovery: Stages: Length: Diameter: Span: Weight:

Mfg. Description:



Face Card(s)



Also of interest: V-2 Ordnance Family, V-2 Launch Vehicle Family



Custom Rockets

Custom Rocket Company P.O.Box 23 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
Scavenger	#10046
S.L.V.	#10044
Tristar	#10027



Master List for **Custom** by Number

#10001	Landviper
#10002	Engage
#10006	Lamprey
#10012	Galileo
#10015	Bullet
#10017	Razor
#10027	Tristar
#10028	Ion Pulsar
#10030	Fiesta
#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

CUSTOMATW 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







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:



Mfg. Description:

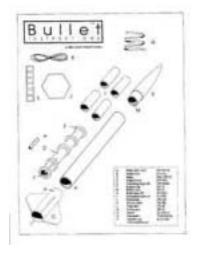
Editorial Note:

Catalog Liveries





Instruction Header



Also of interest:



Engage (#10002)

MODEL NAME: Engage

Als

Also known as:

NUMBER: #10002

Introduced: Final Year: Designer:

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



Mfg. Description:

Editorial Note:

Catalog Liveries

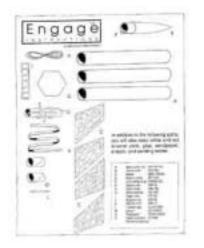




Web Liveries

Face Card(s)

Instruction Header



Also of interest:



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, precut balsa fins, colorful water-slide decals, quick release engine mount, and bright streamer. (Custom 1998 Catalog)

Editorial Note:

Catalog Liveries



1998



Web Liveries





Fieldstate The second second

Face Card(s)

Instruction Header

Also of interest: Custom Fiesta Family **2 8 4**



Galileo (#10012)

MODEL NAME: Gal

Galileo

Also known as: Galileo Probe

NUMBER: #10012

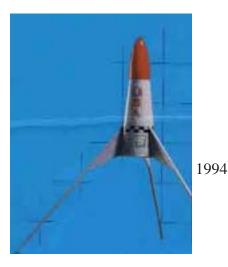
Introduced: Final Year: Designer:

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



1998



Web Liveries



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







Instruction Header

Also of interest: Custom Fiesta Family



Ion Pulsar (#10028)

Ion Pulsar MODEL NAME:

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



Web Liveries

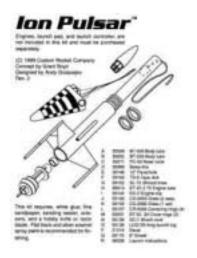


Face Card(s)





Instruction Header



Lamprey (#10006)



MODEL NAME:

Lamprey

Also known as:

NUMBER: #10006

Introduced: Final Year: Designer:

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

Mfg. Description:

Editorial Note:

Catalog Liveries





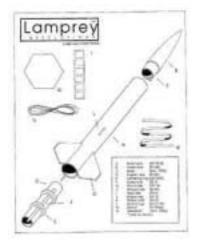


Web Liveries

Face Card(s)



Instruction Header



Landviper (#10001)



MODEL NAME:

Landviper

Also known as:

NUMBER:

Introduced: Final Year: Designer:

Type: Sport, Cluster Motor Mount: 3x18mm Recovery: Parachute Stages: 1 Length: Diameter: Span: Weight: Out Of Production

Mfg. Description:

Editorial Note:

Catalog Liveries





Web Liveries

Face Card(s)



Instruction Header

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)

If you like our Freedom kit then you'll want this kit. Big sport rocket with big *Mfg. Description*: 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





Face Card(s)



Instruction Header

Nomad (#10054)



MODEL NAME: Nor

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



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:

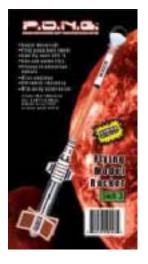
Catalog Liveries

Web Liveries





Face Card(s)



Instruction Header



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:



1998

Catalog Liveries



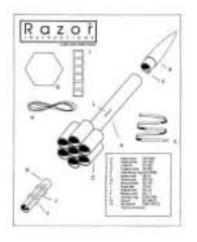
Web Liveries





Face Card(s)

Instruction Header



Also of interest: Tube Fin Family **3 0 2**



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





Face Card(s)



Instruction Header



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



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



Reserved and facility arises our ball...



Also of interest: **3 0 8**

Face Card(s)

Instruction Header



Cygnus Model Rocket Company

http://www.cygnusrocketry.com/



Master List for **Cygnus** by Name

X-1 N.E.A.V.



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

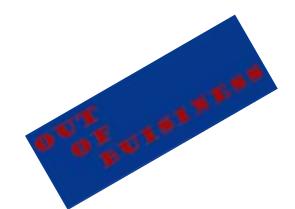


Face Card(s)

Instruction Header

DG&A high power rocketry

DG&A High Power Rocketry (DG&A)







Master List for **DG&A** by Name

Armageddon

Armageddon



MODEL NAME: A

Armageddon

Also known as:

NUMBER:

Introduced: Final Year: Designer: Danny Cantu

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

Mfg. Description:

Editorial Note:

Catalog Liveries

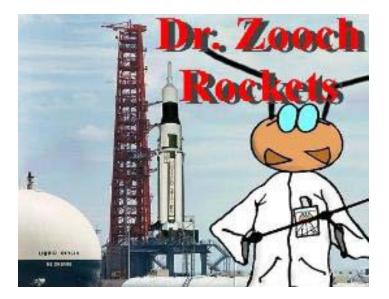
Web Liveries



Unknown Date

Face Card(s)

Instruction Header



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 Titan IIIc SLV5 Vanguard Eagle



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



Face Card(s)

Instruction Header

Also of interest: Ares I Launch Vehicle Family

Atlas Agena



MODEL NAME: Atla

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



Face Card(s)

Instruction Header

Also of interest: Atlas Agena Launch Vehicle Family





Gb-LV MODEL NAME:

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 vour 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



Face Card(s)

Instruction Header

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 enginesand 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





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

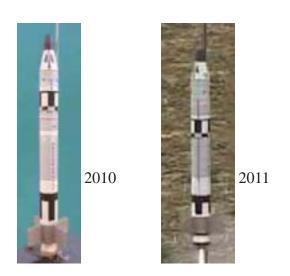
Type: Pseudo Scale, Payload Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 12.2" Diameter: Span: 2.93" Weight: 2.4 oz

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 childhood. Now he has refined and re-funned the design to make an easy to build fun flyer so that everyone 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:





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:





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





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:

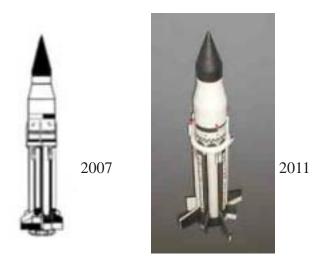
Mfg. Description: If anyone tells you that SA-5 was not the coolest rocket ever flown they are only demonstrating their lack of taste in rocket coolness. Such people are likely to be found at the local Whatever Mart buying one of those buy-n-fly kits with plastic fins. We urge you not to talk further 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:





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)





Face Card(s)



Also of interest:





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 kitmeaning 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:





Face Card(s)

Instruction Header

Also of interest: Soyuz Launch Vehicle Family



Titan IIIc SLV5

MODEL NAME: Titan IIIc SLV5

Also known as: Titan IIIc

NUMBER:

Introduced: Final Year: Designer: Wes Oleszewski

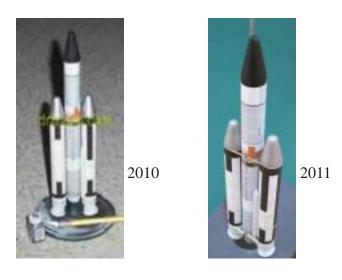
Type: Scale Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 12.75" Diameter: Span: Weight: 3.6 oz

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:





Face Card(s)

Instruction Header

Also of interest: Titan III Launch Vehicle Family



Vanguard Eagle

MODEL NAME: Vange

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

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

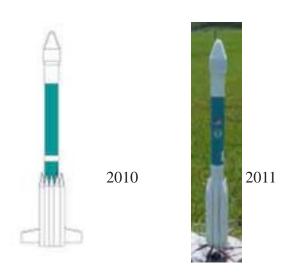
Mfg. Description: The Delta II-7925H configuration using a 2.9 meter fairing was used 3 times on the Delta 2 flying the Mars Rover Opportunity in 2003, The Planet Mercury Messenger mission in 2004 and the Dawn Asteroid mission in 2007. Delta IIs have been in service since February 1989 and launch from 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

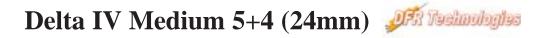




Face Card(s)

Instruction Header

Also of interest: Delta II Launch Vehicle Family



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

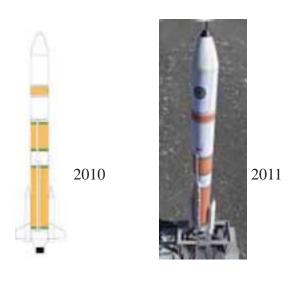
Mfg. Description: This kit is an approximate 1/78th scale of the United Launch Alliance's Evolved Expendable Launch Vehicle (EELV). This kit of the Delta IV Medium 5+4 configuration has 4 boosters that can be either captive or separating powered with 18mm motors. The kit employs clear acrylic fins that 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



344



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

Master List for **DynaStar** by *Number*

 #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:





Face Card(s)

Instruction Header

Also of interest:



Sky Torpedo (#05033)

MODEL NAME: Sky Te

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:





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:





Face Card(s)

Instruction Header

Also of interest: DynaStar Snarky Family



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



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



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:

The Ecee series models give you a sophisticated ride. Ecee gives you a quick *Mfg. Description*: 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





Face Card(s)

Instruction Header

Also of interest: Edmonds Ecee Family

Ivee

MODEL NAME: IN

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









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



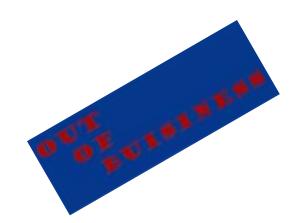
Face Card(s)

Instruction Header

Also of interest:



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





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



Web Liveries

Face Card(s)

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:

Out Of Production

Catalog Liveries

Web Liveries

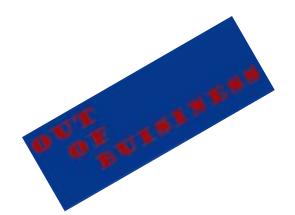
Face Card(s)

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: 1x29mm 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.

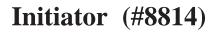
The kit features molded plastic nose cone and tail section, pre-cut lite-ply fins and strakes, baffle ejections system and parachute recovery. (Enertek 1989 Catalog)



Catalog Liveries

Web Liveries

Face Card(s)





MODEL NAME:

Initiator

Also known as:

NUMBER: #8814

Introduced: 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: 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





MODEL NAME: Strong

Strong ARM

Also known as:

NUMBER: #8815

Introduced: Final Year: Designer: Bob Sanford

Type: Pseudo scale Motor Mount: 1x29mm 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





Web Liveries

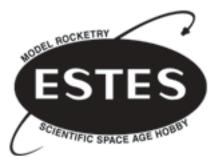
Face Card(s)

Instruction Header

Also of interest: Enertek Strong ARM Family



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

	110010	
220 Swift	#0810	
36 D Squared	#2119	
Aero-Fin	#1390	
Aero-Hi	#0817	
Airborne Surveillance Missile	#0867	
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 II	#1205	
(Astron) Apogee II	K-5	
ARCAS	#1226	
ARCAS	K-26	
Attack Craft Orion	#1374	
Baby Bertha	#1261	
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
(Astron) Cherokee D	#1247
(Astron) Cherokee D	K-47
Chuter Two	#3009
(Astron) Cobra	#1210
(Astron) Cobra	K-10
Cobra 1500	#1294
Colonial Viper	#1310
Comanche 3	#1382
Comet Chaser	#3202
Condor	#0807
Corkscrew	#2114
Cosmic Explorer	#3009
Cosmos Mariner	#2190
Courier	#1911
Crossbow SST	#3207
Crossfire ISX	#1469
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
Deep Space Transport	#2034
Defender	#1924
Delta Clipper	#2067
Delta Star	#1322
Der Big Red Max	#1403
Der Big Red Max	#1977
Der Red Max	#0651
Der Red Max	KC-2
Dragon Ship 7	#1345
EAC Viper	#0820
Explorer Aquarius	#2016
Execution	#1951
(Astron) Falcon	#1213
(Astron) Falcon	K-13
(Astron) Farside	#1212
	#1212 K-12
(Astron) Farside	
(Astron) Farside X	#1261
(Astron) Farside X	K-12X
Fat Boy	#1273

X-Prize Centuri Reissue Battlestar Galactica Mini Brute X-Prize Tandem-X Launch Set Star Wars Starter Set

Launchables



Fat Boy	#2139
Gauchite	#0809
Geo Sat LV	#1977
Gemini DC	#2136
Gemini-Titan	#1221
	K-21
Gemini-Titan	
Gemini Titan	#1978
Goblin	#1255
Goblin	K-55
Guardian	#2179
(Astron) Gyroc	#1224
(Astron) Gyroc	K-24
Hawkeye	#0873
•	
Hercules	#1377
Hi-Flier	#2178
Honest John	#1227
Honest John	#1919
Honest John	K-27
(Maxi) Honest John	#2166
Hornet	#0804
Hornet	#3037
Hornet	TK-4
Icarus	#1277
Icarus	K-77
Interceptor	#1250
Interceptor	K-50
Interceptor E	#1350
Javelin	#0815
Jayhawk	#2085
Little Joe II	#0892
Little John	#0819
	#3016
Long Tom	
Lucky Seven	#0807
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
Mars Snooper	K-20
Mars Snooper II	#1220
Mars Snooper II	K-20
L	

X-Prize

Maxi Brute, Reissue

Mini Brute Centuri Reissue Mini Brute

Mini Brute Pro Series

Mini Brute Centuri Reissue

Collector's Series

X-Prize



Maxi Alpha	#1291	Maxi Brute
Maxi Alpha 3	#1321	
Maxi Alpha 3	#1903	
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 Patriot	#0896	T 1 1 1
Mk-109 Stingray	#1232	Launchables
Mk-109 Stingray	#2131	
Monarch	#2172	
Monarch	#7214	
Mongoose	#2092	Mini Duuto
Mosquito Mosquito	#0801 #1335	Mini Brute
Mosquito	#1355 TK-1	Mini Brute
NASA Pegasus	#1376	Mini Drule
National Aerospace Plane	#2037	
Nemesis	#2175	
Nike Apache	#1957	
Nike-X	#1270	
Nike-X	ж-70	
Nova Payloader	#1960	
Odyssey	#1900	
Optima	#2935	
Orbital Transport	#1242	
Stotun Hunsport		



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	1 to Series
Payloader II	#3022	Centuri Reissue
Pheonix	#1380	Centuri Reissue
Photon Disruptor	#1282	
1	#3025	
Photon Disruptor		
Photon Disruptor II	#2052	
Photon Probe	#2043	
Photon Probe	#3026	
Plasma Probe	#3211	
Polaris	#2174	
Prime Number Explorer	#0891	
(Astron) Ranger	#1206	
(Astron) Ranger	K-6	
(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	
(Astron) Scout	#1201	
(Astron) Scout	K-1	
Semi-Scale Saturn V	#1239	
Semi-Scale Saturn V	K-39	
Shadow	#2094	
(Astron) Space Plane	#1203	
(Astron) Space Plane	K-3	
Star Trooper	#3031	Centuri Reissue
(Astron) Streak	#1204	Centuri Reissue
(Astron) Streak	#1204 K-4	
	K-4 #3216	
Super Alpha Super Big Bortha	#2018	
Super Big Bertha	#2010	



Super Big Bertha	#2165
US Army Patriot M-104	#1248
US Army Patriot M-104	#2056
V-2	#1926

Launchables



Master List for **Estes** by Number

#0651	Der Red Max	
#0652	Patriot	Citation
#0654	Bomarc	
#0657	Bomarc	
#0801	Mosquito	Mini Brute
#0803	Mini Bertha	Mini Brute
#0804	Hornet	Mini Brute
#0805	Mini Bomarc	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	
#0819	Little John	Mini Brute
#0820	EAC Viper	
#0840	Midget	Mini Brute
#0844	Birdie	Mini Brute
#0865	Mini Mean Machine	Mini Brute
#0867	Airborne Surveillance Missile	
#0868	Big Yank	Mini Brute
#0873	Hawkeye	
#0876	Micron	
#0891	Prime Number Explorer	
#0892	Little Joe II	
#0896	Mini Patriot	
#0898	Mini Cobra	
#1201	(Astron) Scout	
#1202	(Astron) Mark	
#1202	(Astron) Mark II	
#1203	(Astron) Space Plane	
#1204	(Astron) Streak	
#1205	(Astron) Apogee II	
#1206	(Astron) Ranger	
#1210	(Astron) Cobra	
#1212	(Astron) Farside	
#1213	(Astron) Falcon	
#1220	Mars Snooper	
#1220	Mars Snooper II	
#1221	Gemini-Titan	
#1223	(Astron) Big Bertha	
#1224	(Astron) Gyroc	
#1225	(Astron) Alpha	
#1226	ARCAS	



Constant of the local division of the local		
#1227	Honest John	
#1229	Saturn 1B	
#1232	Mk-109 Stingray	Launchables
#1236	Saturn V	Maxi Brute
#1239	Semi-Scale Saturn V	
#1240	(Astron) Midget	
#1242	Orbital Transport	
#1241	Mercury Redstone	
#1243	Mars Lander	
#1244	(Astron) Birdie	
#1247	(Astron) Cherokee D	
#1248	Bandit	
#1248	US Army Patriot M-104	Launchables
#1250	Interceptor	
#1255	(Astron) Goblin	
#1256	(Astron) Alpha III	
#1258	(Astron) Alpha IV	
#1259	Orbital Transport	
#1261	Baby Bertha	
#1261	(Astron) Farside X	
#1267	Maxi V-2	Maxi Brute
#1269	Maxi Honest John	Maxi Brute
#1209	Nike-X	man Druic
#1273	(Astron) Andromeda	
#1273	Fat Boy	Launchables
#1275	Icarus	Launenables
#1281	Alien Invader	
#1281	Photon Disruptor	
#1289	Odessey	
#1209	Maxi Alpha	
#1294	Cobra 1500	
#1295	Mean Machine	
#1295	Satellite Interceptor	
#1302	CC Express	
#1302	Colonial Viper	Battlestar Galactica
#1310	Maxi Alpha 3	Dumesial Outactica
#1321	Delta Star	
#1322 #1335	Blue Bird Zero	
#1335		
	Mega Mosquito	
#1335	Mosquito	
#1339	Patrol Cruiser Excalibur	
#1345	Dragon Ship 7 Diash Hala Shaqa Praka	The Direl Hele
#1350	Black Hole Space Probe	The Black Hole
#1350	Interceptor E	
#1362	(The) Bat	
#1374	Attack Craft Orion	
#1376	NASA Pegasus	



#1377	Hercules
#1379	Mach-2
#1380	Phoenix
#1382	Comanche 3
#1387	Maxi Streak
#1390	Aero-Fin
#1403	Der Big Red Max
#1421	Alpha II
#1450	Patriot
#1469	Crossfire ISX
#1500	Customizer
#1825	Patriot
#1820	(Naboo) Royal Starship
#1843	Patriot
#1903	Maxi Alpha 3
#1911	Courier
#1919	Honest John
#1921	Mercury Redstone
#1924	Defender
#1926	V-2
#1944	D-Region Tomahawk
#1948	Big Bertha
	0
#1951	Executioner
#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
	D.A.R.T.
#1981	
#1997	Pathfinder
#2001	Saturn V
#2016	Explorer Aquarius
#2018	Super Big Bertha
#2028	Cajun
#2032	Magnum
#2032	Deep Space Transport
#2035	Optima D. Bagion Tomohowk
#2037	D-Region Tomahawk
#2037	Nastional Aerospace Plane
#2038	Alien Space Probe
#2043	Photon Probe
#2045	Dark Star
#2048	Saturn 1B
-	

Starter Set
EX2 Starter Set Tandem-X Launch Set
RTF Starter Set Star Wars RTF Starter Set



Constant P		
#2052	Photon Disruptor II	
#2056	Patriot Missile	
#2063	Mars Snooper	Collector's Series
#2066	Patriot Missile	Pro Series
#2067	Delta Clipper	
#2085	Jayhawk	Pro Series
#2092	Mongoose	1.0.000000
#2094	Shadow	
#2110	Outlander	
#2111	Mercury Atlas	
#2114	Corkscrew	
#2119	36 D Squared	
#2131	Mk-109 Stingray	
#2136	Gemini DC	
#2139	Fat Boy	
#2143	Death Star	Star Wars
#2151	Big Dawg	Siur Wurs
#2151 #2157	Saturn V	
#2157 #2162		
#2162	Big Daddy Super Big Bortho	
	Super Big Bertha	Mari Davida Dairana
#2166	(Maxi) Honest John	Maxi Brute, Reissue
#2168	Metalizer	
#2172	Monarch	
#2173	Menace	
#2174	Polaris	
#2175	Nemesis	
#2178	Hi-Flier	
#2179	Guardian	V D I
#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	
#3207	Crossbow SST	
#3211	Plasma Probe	
#3216	Super Alpha	



#7000	Bull Pup 12D	
#7214	Monarch	
#7502	Alien Space Probe	Limited Offer
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 II	
K-6	(Astron) Ranger	
K-10	(Astron) Cobra	
K-12	(Astron) Farside	
K-12X	(Astron) Farside X	
K-13	(Astron) Falcon	
K-20	Mars Snooper	
K-20	Mars Snooper II	
K-21	Gemini-Titan	
K-23	(Astron) Big Bertha	
K-24	(Astron) Gyroc	
K-25	(Astron) Alpha	
K-27	Honest John	
K-29	Saturn 1B	
K-36	Saturn V	Maxi Brute
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-50	Interceptor	
K-55	(Astron) Goblin	
K-56	(Astron) Alpha III	
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-5 KC-5	Bomarc	Chanton



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*

This fun and easy to build "itty-bitty" rocket really scoots through the sky. The *Mfg. Description*: 220 Swift is sleek and launches on mini-engines then tumbles back to earth. (Estes 2004 Catalog)

Editorial Note:

Catalog Liveries



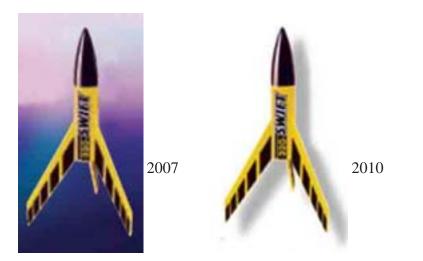
2004





2006





Web Liveries





Face Card(s)



Instruction Header



Also of interest: Estes 220 Swift Family



36 D Squared (#2119)

MODEL NAME: 3

36 D Squared

Also known as:

NUMBER: #2119

IIntroduced: 2006 Final Year: 2009 Designer:

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



Web Liveries

Face Card(s)

Instruction Header



Also of interest:



Aero-Fin (#1390)

MODEL NAME: Aero-Fin

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: 1983 Catalog)

Unique five fin design. Flights over 1200' with 18" streamer recovery. (Estes







Face Card(s)





Aero-Hi (#0817)

MODEL NAME: Aero-Hi

Also known as:

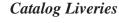
N 1UMBER: #0817

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



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)





Web Liveries

Face Card(s)



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

Web Liveries

1984

Face Card(s)



Span:

Weight: 1.62 oz

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"	Out Of Production

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

Web Liveries

Face Card(s)

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)





Web Liveries



Face Card(s)



Also of interest: Estes Alien Invader (#1281)

ESTES

MODEL NAME:

Alien Space Probe (#2038) **Alien Space Probe**

Also known as:

NUMBER: #2038

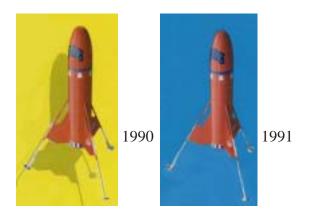
Introduced: 1990 Final Year: 1992 Designer:

Type: Exotic Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 17.75" Diameter: 2.6" Span: Weight: 3.51 oz

Out Of Production

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



Face Card(s)





Alien Space Probe (#7502)

MODEL NAME:

Alien Space Probe

Also known as: Special Offer Space Probe

NUMBER: #7502

Introduced: 1992 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:

1992



Catalog Liveries

Web Liveries

Face Card(s)

Note: Available only as part of a special offer in the 1992 catalog.

(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

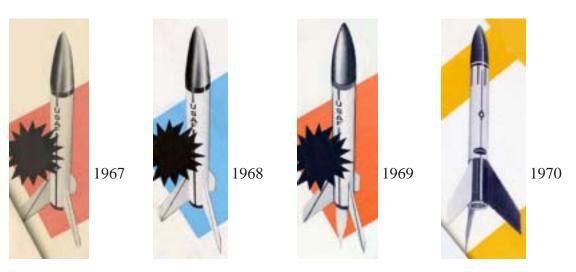
Type: Sport Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 12.3 in. (31.2 cm) Diameter: 0.98 in. (25 mm) Span: Weight: 0.8 oz. (23 g)

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.

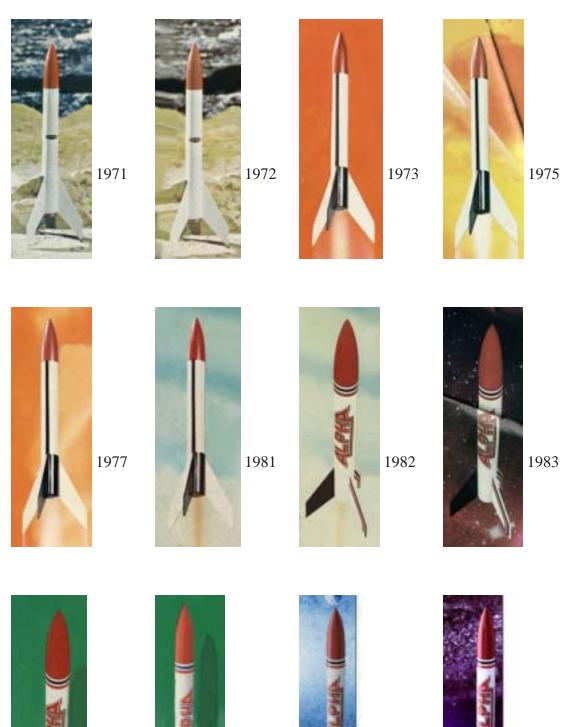
Its suggested color scheme and classy red, white and blue decals are as American as you can get. You'll feel patriotic building this sleek and colorful rocket as well as flying it. Get an Alpha and start flying today! (Estes 2011 Web Ad)



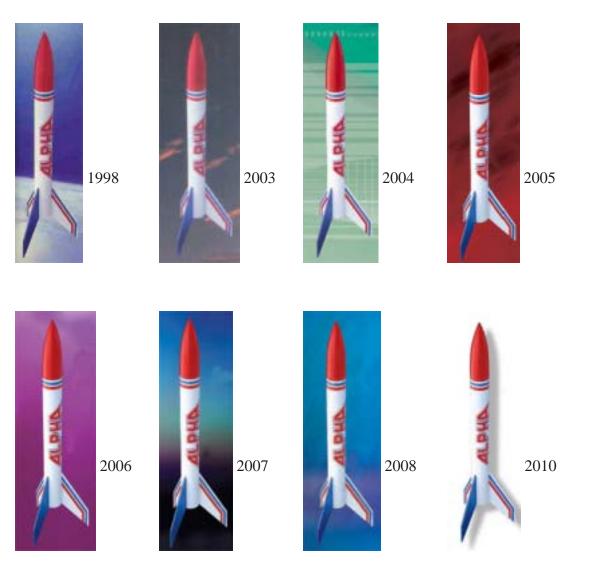
Catalog Liveries

406









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)











MODEL NAME: Astron Alpha III

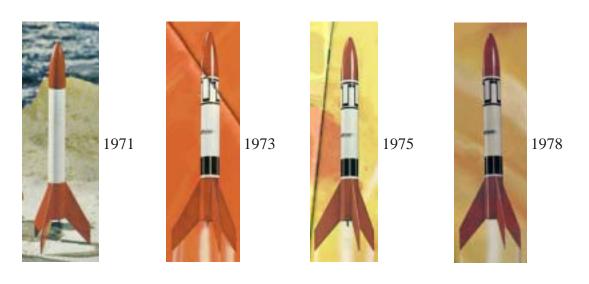
Also known as: Alpha III

NUMBER: K-56 or #1256

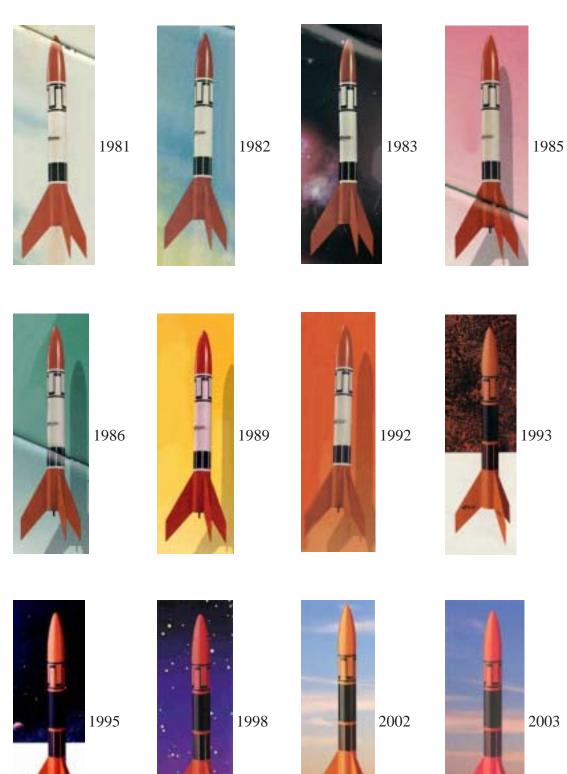
Introduced: 1971 Final Year: Designer: Mike Dorffler

Type: Sport Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 12.25" Diameter: 0.976" Span: Weight: 1.2 oz

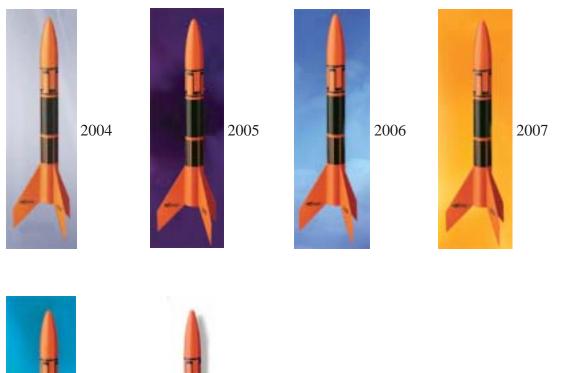
Mfg. Description: Just like the Alpha except it's easier to assemble and fly! Plastic nose cone and fins. (Estes 1971 Catalog)













2008



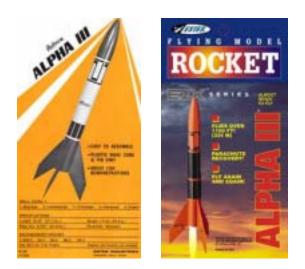
Web Liveries



2011



Face Card(s)



Also of interest: Estes Alpha, Alpha II, Alpha IV

(Astron) Alpha IV (#1258)



MODEL NAME:

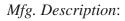
Astron Alpha IV

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:







4 1 4



Web Liveries

Face Card(s)



(Astron) Andromeda (K-73 or #1273)

MODEL NAME: Astron Andromeda Also known as: Andromeda, U.S.S. Andromeda

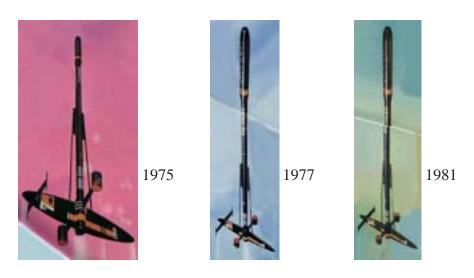
NUMBER: K-73 or #1273

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



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)





Web Liveries

Face Card(s)





(Astron) Apogee II (K-5 or #1205)

MODEL NAME: Astron Apogee II

Also known as: Apogee II

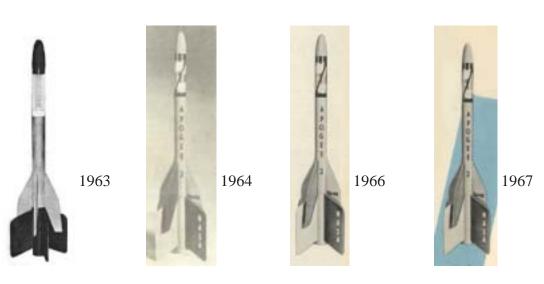
NUMBER: K-5 or #1205

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 <u>transparent</u> 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)























Web Liveries

Face Card(s)



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)









Also of interest:

Web Liveries

Face Card(s)

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)

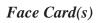














Also of interest: Estes Big Bertha

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 Out Of Production

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)







Web Liveries

Face Card(s)



The Bat (#1362)



MODEL NAME: The

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



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





Web Liveries

Face Card(s)



(Astron) Big Bertha (K-23 or #1223)

MODEL NAME: Astron Big Bertha

Also known as: Big Bertha

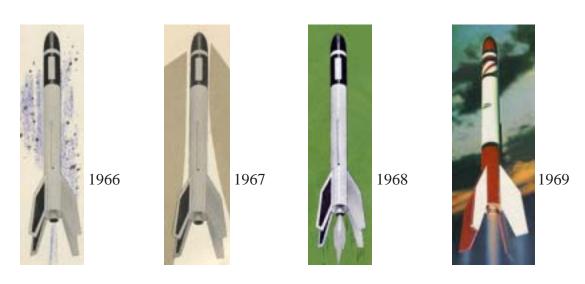
NUMBER: K-23 or #1223

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)









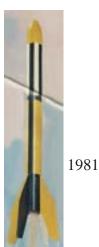


1983





1978







Face Card(s)







Also of interest: **4 2 8**



Big Bertha (#1948)

MODEL NAME: Big Bertha

Also known as:

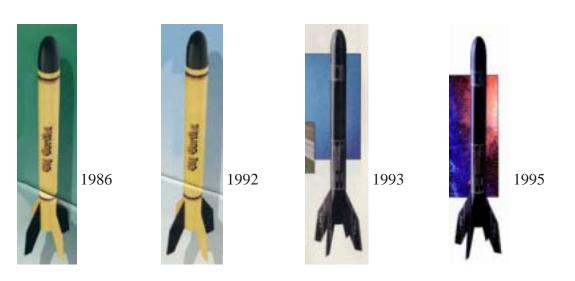
NUMBER: #1948

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)

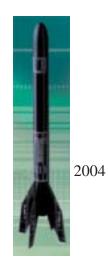






























Web Liveries



Face Card(s)



Big Daddy (#2162)



Big Daddy

Also known as:

NUMBER: #2162

Introduced: 1998 Final Year: Designer:

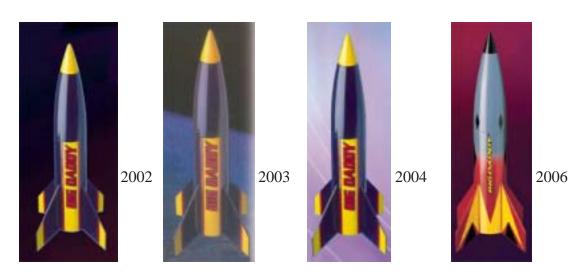
Type: Sport Motor Mount: 1x24mm Recovery: Parachute Stages: 1 Length: 19 in. (48.3 cm) Diameter: 3 in. (76 cm) Span: Weight: 5.3 oz. (150.3 g)

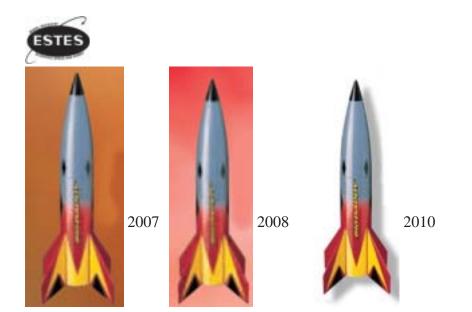


Mfg. Description: BIG is better! Well in most things - big is better. Using Estes E engines, this highly streamlined rocket can reach a cloud topping 900 feet. If you prefer to keep it suborbital, it will also fly extremely well on C11 engines or D engines! Either way, this extreme rocket is returned 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)











Face Card(s)



Also of interest: Estes Big Daddy Family

Big Dawg (#2151)



MODEL NAME: **B**

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



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: **4 3 4**



Big Yank (#0868)

MODEL NAME: Big

Big Yank

Also known as:

NUMBER: #0868

Introduced: 1984 Final Year: 1986 Designer:

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)





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

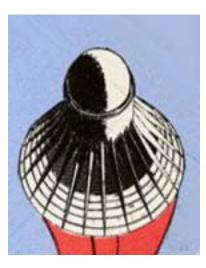
NUMBER: K-44 or #1244

Introduced: 1969 Final Year: 1972 Designer: Bill Simon

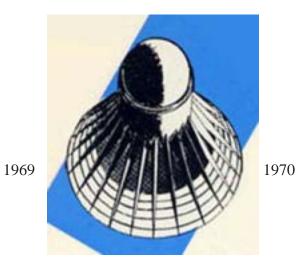
Type: Oddroc Motor Mount: 1x18mm Recovery: Tumble Stages: 1 Length: 2.8" Diameter: 2.6" Span: 2.6" Weight: 0.27 oz



Mfg. Description: You can change a badminton "bird" to a rocketeer's "bird" with this unusual kit...and watch it fly! (Estes 1969 Catalog)

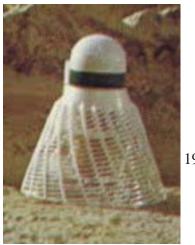


Catalog Liveries



437





1971

Web Liveries

Face Card(s)





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



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



Face Card(s)

Also of interest: Estes Astron Birdie

Black Brant II (#1958)



MODEL NAME: Black

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

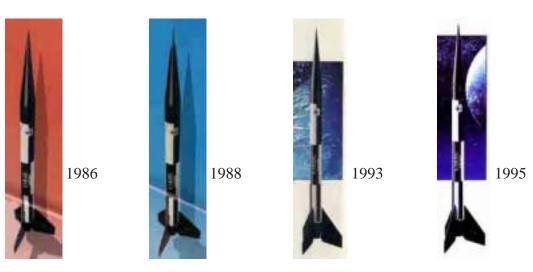


Mfg. Description: An outgrowth of the 1950's Black Brant I program, Black Brant II's payload capacity was increased to 6.2 cu. ft. by changing the nose cone's shape. The Canadair air frame was aerodynamically stabilized by 3 fixed fins. Total fin span was 39". The motor contained 2,000 lbs of solid propellant 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

440







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

Mfg. Description:



Catalog Liveries



Face Card(s)



Also of interest: **4 4 2**



Blazer (#1956)

MODEL NAME:	Blazer	Also known as:	
NUMBER: #1956			
Introduced: 1986 Final Year: 1991 Designer:			
Type: Sport Motor Mount: 1x18m Recovery: Streamer Stages: 1 Length: 12.75" Diameter: 0.736" Span: Weight: 0.71 oz	ım	Out Of Production	

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



Face Card(s)



Blue Bird Zero (#1335)



MODEL NAME:

Blue Bird Zero

Also known as:

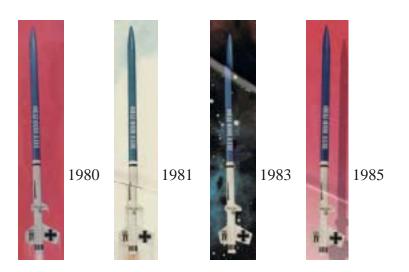
NUMBER: #1335

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)





Web Liveries

Face Card(s)



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

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-toair 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



Scaled down version of U.S. Air Force air-to-air missile features three-color *Mfg. Description*: decal, 800 foot flights and recovery via 12" chute. (Estes 1987 Catalog)

Catalog Liveries



1989





1994





Web Liveries

Face Card(s)



Bull Pup 12D (#7000)



MODEL NAME: Bull Pup 12D

Also known as: Bullpup 12D

NUMBER: #7000

Introduced: 1996 Final Year: Designer:

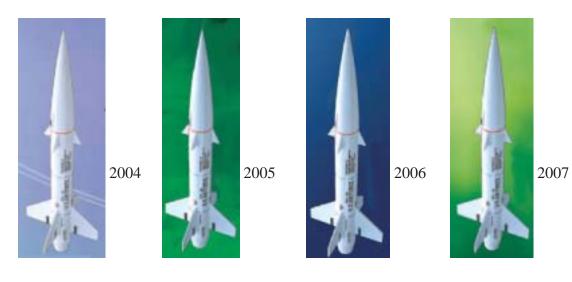
Type: Scale Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 15.6 in. (39.6 cm) Diameter: 1.33 in. (34 mm) Span: Weight: 1.8 oz. (51 g)

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.

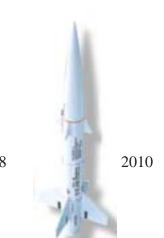
This kit comes with a large diameter, single piece body tube, high quality molded plastic tail and nose cone, laser cut wood fins and authentic full color self-stick decals. Standing 15.6 inches tall, this rocket can pack a ballistic punch by reaching almost 675 feet on standard engines and recovering with a colorful 12 inch preassembled parachute. (Estes 2011 Web Ad)











Web Liveries





Face Card(s)





CC Express (#1302)

MODEL NAME: CC Express

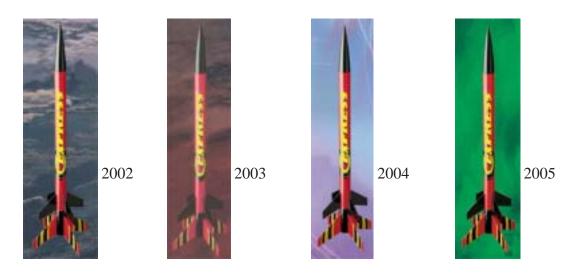
Also known as:

NUMBER: #1302

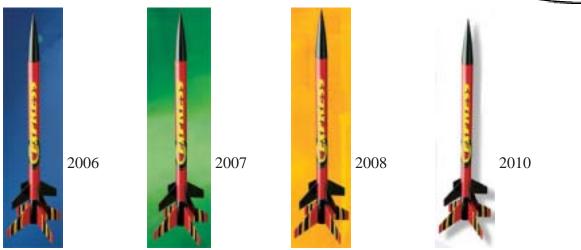
Introduced: 2002 Final Year: Designer:

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)













Face Card(s)





Cajun (#2028)

C man		
MODEL NAME:	Cajun	Also known as:
NUMBER: #2028		
Introduced: 1990 Final Year: 1991 Designer:		
Type: Sport Motor Mount: 1x18m Recovery: Streamer Stages: 1 Length: 17.06" Diameter: 0.976" Span: Weight: 1.07 oz	em	Out Of Production

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)





Face Card(s)

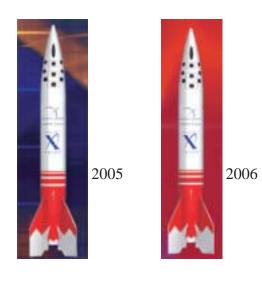




Canadian Arrow (#2188)

MODEL NAME:	Canadian Arrow	Also known as:
NUMBER: #2188		
Introduced: 2005 Final Year: 2006 Designer:		
Type: Scale Motor Mount: 1x24n Recovery: Parachute Stages: 1 Length: 26.8" Diameter: 2.6" Span: Weight: 5.3 oz		Out Of Production

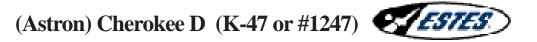
Mfg. Description: The Canadian Arrow team V-2 based X Prize rocket stands over 2 feet tall and includes laser cut balsa parts. It safely recovers with a colorful, fully assembled 18-inch parachute. 1:24 scale. (Estes 2005 Catalog)



Catalog Liveries

Web Liveries

Face Card(s)



MODEL NAME: Astro

Astron Cherokee D

Also known as: Cherokee D

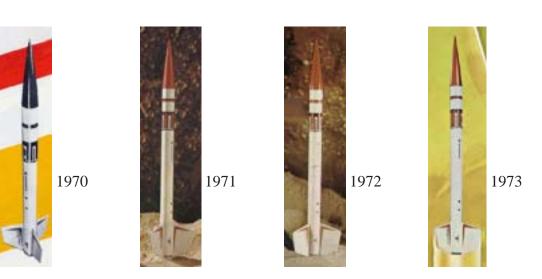
NUMBER: K-47 or #1247

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)









1975





1980





Face Card(s)



Also of interest: Estes Cherokee D Family

Chuter Two (#3009)



MODEL	NAME:	Cł

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:





Web Liveries



Face Card(s)



Also of interest: Centuri Chuter Two Family

(Astron) Cobra (K-10 or #1210)



MODEL NAME: Astr

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



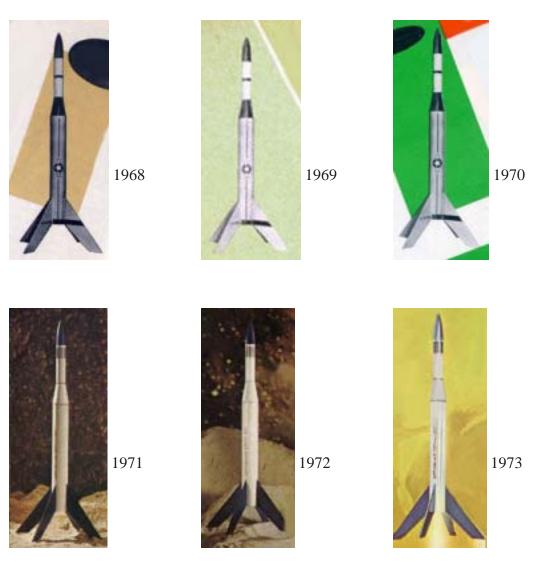
Mfg. Description: The ideal bird for getting started in clustering, yet challenging to the experienced rocketeer, the Astron Cobra gives you top performance. Medium size payloads (up to four ounces) get a real ride in the Cobra's 1" diameter capsule. Kit comes complete with all parts, instructions and a copy of Technical Report TR-6 on cluster techniques. (Estes 1964 Catalog)











Face Card(s)



Cobra 1500 (#1294)



MODEL	NAME:	Cob

Cobra 1500

Also known as:

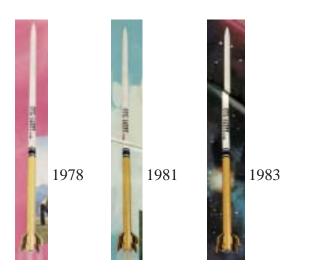
NUMBER: #1294

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



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)





Web Liveries

Face Card(s)



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

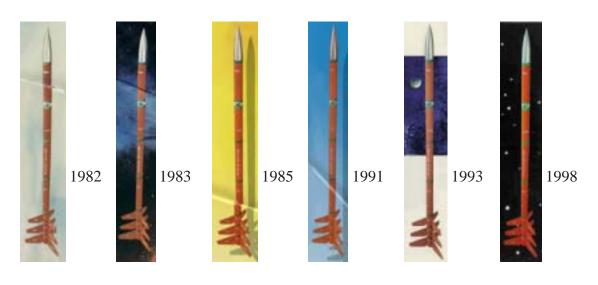
Also known as:

NUMBER: #1382

Introduced: 1982 Final Year: Designer:

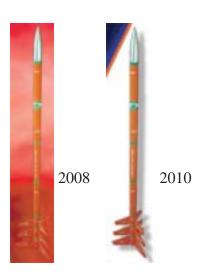
Type: Sport, 3 Stage Motor Mount: 1x24mm/1x18mm/1x18mm Recovery: Tumble/Tumble/Streamer Stages: 3 Length: 41" Diameter: 0.976" Span: Weight: 2.08 oz

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)





2002	2003	2004	2005	2006	2007









Face Card(s)





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)







Face Card(s)



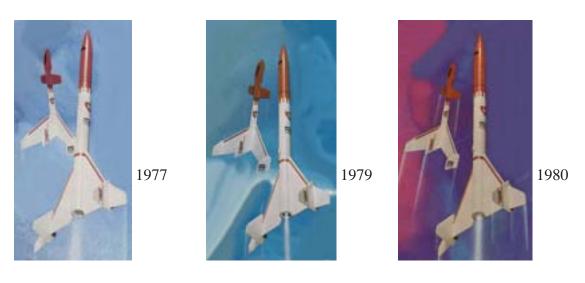


Condor (#0807)

MODEL NAME:	Condor	Also known as: Mini Brute Condor
NUMBER: #0807		
Introduced: 1977 Final Year: 1981 Designer: Bill Simon Type: Boost Glider Motor Mount: 1x13n Recovery: Parachute Stages: 1 Length: 18.25" Diameter: 0.976" Span: 5" Weight: 1 oz	nm	Out Of Production
0		

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



Face Card(s)

Also of interest: Estes Mini Brute Family

Corkscrew (#2114)



MODEL NAME:

Corkscrew

Also known as:

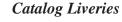
NUMBER: #2114

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



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)









Face Card(s)



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.











2008

Web Liveries

Face Card(s)

Also of interest: Estes X-Prize Family, X-Prize Family

Courier (#1911)



MODEL NAME: Cou

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)







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)

If you love the Satellite Interceptor then the Crossbow SST is just the rocket *Mfg. Description:* 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)











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:

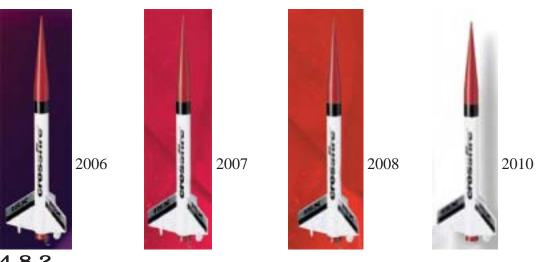
Type: Sport Motor Mount: 1x18mm Recovery: Parachute Stages: Length: 15.6" Diameter: Span: Weight:

Two is better than one! You'll get X-tra value with the Estes Tandem-X Model *Mfg. Description*: 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

482





Face Card(s)





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





1988



Face Card(s)



Instruction Header



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)





Face Card(s)



D-Region Tomahawk (#1944)



MODEL NAME:

D-Region Tomahawk

Also known as:

NUMBER: #1944

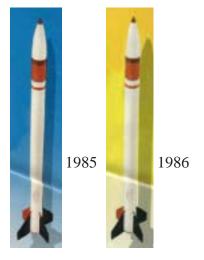
Introduced: 1985 Final Year: 1986 Designer:

Type: Scale Motor Mount: 1x24mm Recovery: Parachute Stages: 1 Length: 35.5" Diameter: 1.637" Span: Weight: 3.7 oz

Mfg. Description: DESC



Catalog Liveries



Web Liveries

Face Card(s)

Also of interest: D Region Tomahawk Sounding Rocket Family



MODEL NAME: **D-Region Tomahawk**

Also known as:

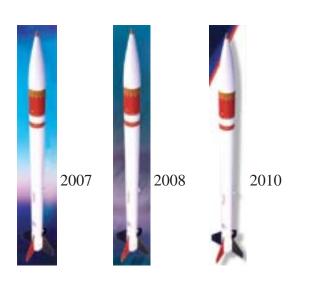
NUMBER: #2037

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)







Also of interest: D Region Tomahawk Sounding Rocket Family



D.A.R.T. (#1981)

Also known as:

MODEL NAME: **D.A.R.T.**

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)



Dark Star (#2045)



MODEL NAME: Da

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



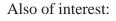
Mfg. Description: Gloss black paint scheme and gold pressure-sensitive decals highlight this great looking sport model. Estimated maximum altitude with a "C" engine is 500 ft (170 meters)! (Estes 1991 Catalog)

Catalog Liveries



Web Liveries

Face Card(s)





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* Out Of Production *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



Face Card(s)

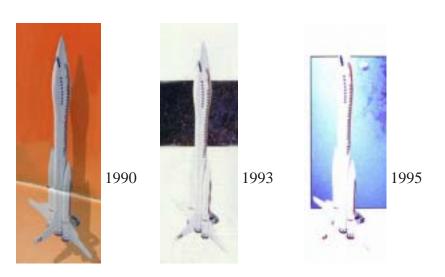


Also of interest: Star Wars Death Star Family



MODEL NAME:	Deep Space Transport	Also known as:
NUMBER: #2034		
Introduced: 1990 Final Year: 1995 Designer:		
Type: Exotic Motor Mount: 1x181 Recovery: Parachut Stages: 1 Length: 26.5" Diameter: 1.325" Span: Weight: 3.75 oz		Out Of Production

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)





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:

USD D

1985

Mfg. Description: "D" powered high-performance sport flier capable of flights over 1,200 feet. (Estes 1984 Catalog)



Weight: 1.8 oz.





Face Card(s)





MODEL NAME:

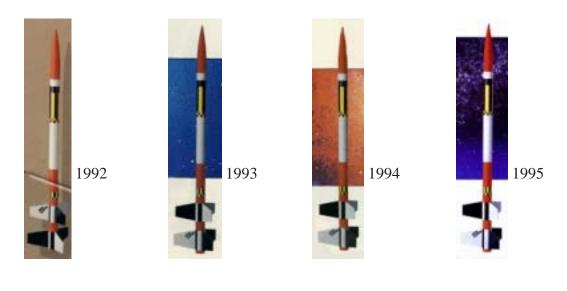
Delta Clipper (#2067)

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

Delta Clipper

Mfg. Description: Reach for the clouds with super high performance! (Estes 1992 Catalog)





Face Card(s)





Delta Star (#1322)

MODEL NAME: Delta Star

Star

Also known as:

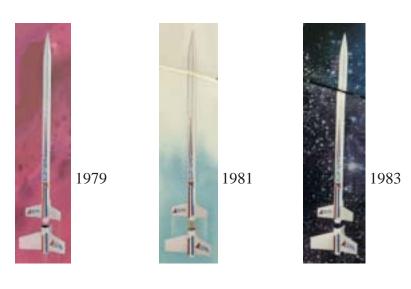
NUMBER: #1322

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)





Face Card(s)





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:



Mfg. Description:

Catalog Liveries



Face Card(s)

1981

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.

The Der Red Max is a classic Estes model rocket and another of our most *Mfg. Description*: 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







1977









Web Liveries









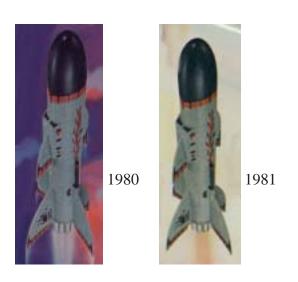
Also of interest: Estes Der Red Max Family



Dragon Ship 7 (#1345)

MODEL NAME:	Draagon Ship 7	Also known as: Dragonship 7
NUMBER: #1345		
Introduced: 1980 Final Year: 1981 Designer: Keith Nisk	tern	
Type: Exotic, Retro Motor Mount: 1x18n Recovery: Parachute Stages: 1 Length: 16.75" Diameter: 1.637" Span: Weight: 2.7 oz		Out Of Production

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

Web Liveries

Face Card(s)

Also of interest: Estes Dragon Ship 7 Family

EAC Viper (#0820)



MODEL NAME: EAG

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:

VIPER

Catalog Liveries



Face Card(s)



Also of interest: Estes EAC Viper Family, Estes Aerospace Club 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, aerody-namically 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



. Distances















Also of interest: **5** 1**0**

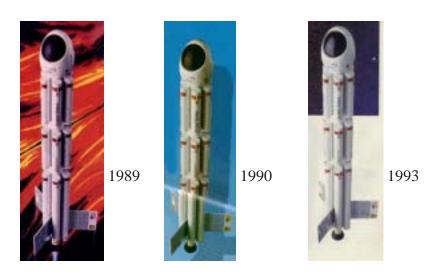
Face Card(s)



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		Out Of Production

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)





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

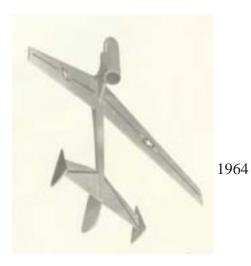
Introduced: 1963 Final Year: 1973 Designer: Larry Renger

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

















Web Liveries

Face Card(s)



Also of interest: Estes Falcon Family

(Astron) Farside (K-12 or #1212)



MODEL NAME: Astron

Astron Farside

Also known as: Farside

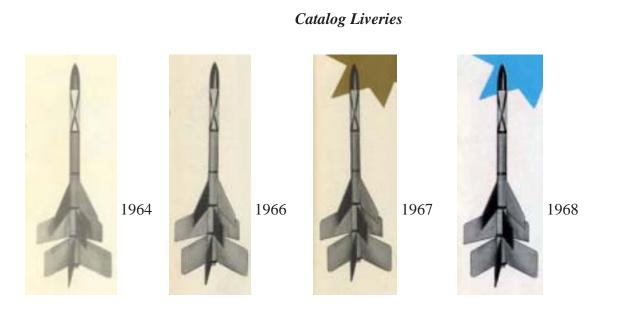
NUMBER: K-12 or #1212

Introduced: 1963 Final Year: 1981 Designer: Bill Simon

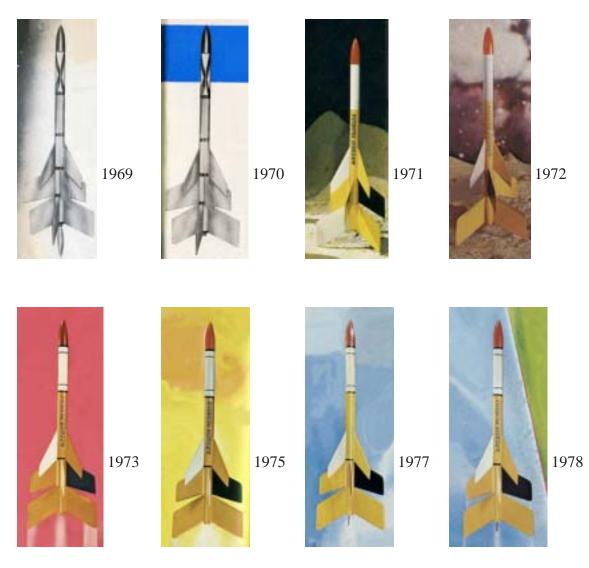
Type: 3 Stage, Payload Motor Mount: 1x18mm/1x18mm/1x18mm Recovery: Tumble/Tumble/Parachute Stages: 3 Length: 21.5" Diameter: 1" Span: Weight: 2 oz



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)







Face Card(s)



Also of interest: Estes Farside Family



MODEL NAME:

Astron Farside-X

Also known as: Farside-X, Astron Farside X, Farside X

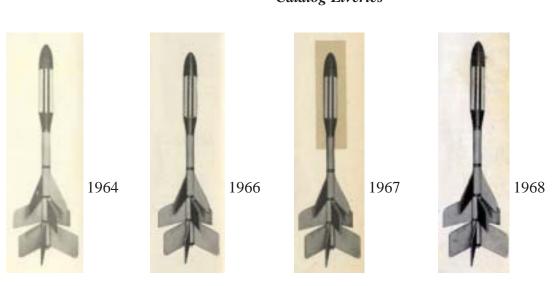
NUMBER: K-12X or #1261

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)









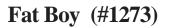


Web Liveries

Face Card(s)



Also of interest: Estes Farside Family





MODEL NAME: Fa

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

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















Face Card(s)



Also of interest: Estes Fat Boy Family



Gauchito (#0809)

MODEL NAME: Gauchito Also

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





Web Liveries

Face Card(s)



Also of interest: X Prize Family, Estes X Prize Family



Gemini DC (#2136)

MODEL NAME: Gemin

Gemini DC

Also known as:

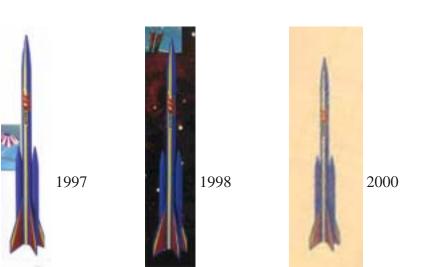
NUMBER: #2136

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

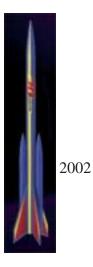


Mfg. Description: Twin parachutes are ejected from the side pods on this stunning rocket. Nearly out-of-this-world flights to over 800 feet. Easy to build! A great flyer! A unique rocket! (Estes 1997 Catalog)















Web Liveries

Face Card(s)



Also of interest:



Gemini-Titan (K-21 or #1221)

MODEL NAME: Gemini-Titan

Also known as: GT-3

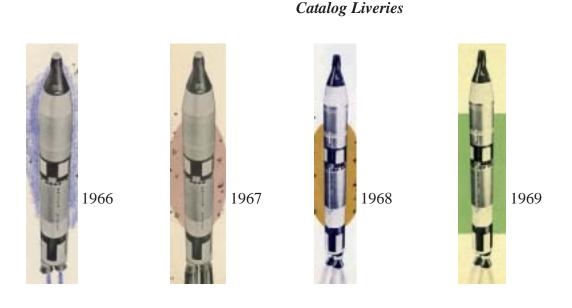
NUMBER: K-21 or #1221

Introduced: 1965 Final Year: 1973 Designer:

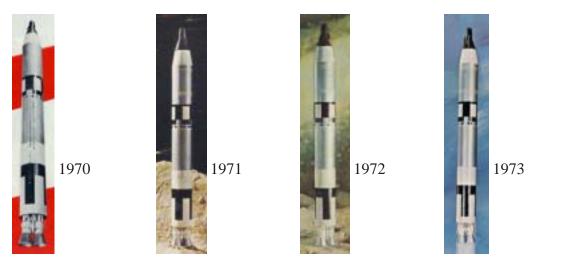
Type: Scale Motor Mount: 2x18mm Recovery: Parachute Stages: 1 Length: 24.4" Diameter: 2.22" Span: Weight: 3.8 oz



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)







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"		Out Of Production

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



Span:

Weight: 2.15 oz

Web Liveries

Face Card(s)

Also of interest: Gemini Titan Launch Vehicle Family

Geo Sat LV (#1977)



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



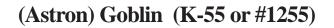


Web Liveries

Face Card(s)



Also of interest:





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)





Face Card(s)



Also of interest: Estes Goblin Family

Guardian (#2179)



MODEL NAME: Gua

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)

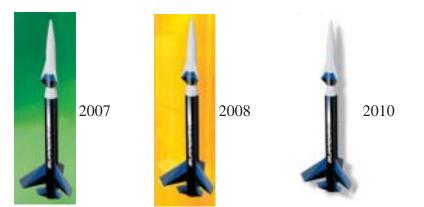












Web Liveries



Face Card(s)



Also of interest:

(Astron) Gyroc (K-24 or #1224)



MODEL NAME: Astron

Astron Gyroc

Also known as: Gyroc

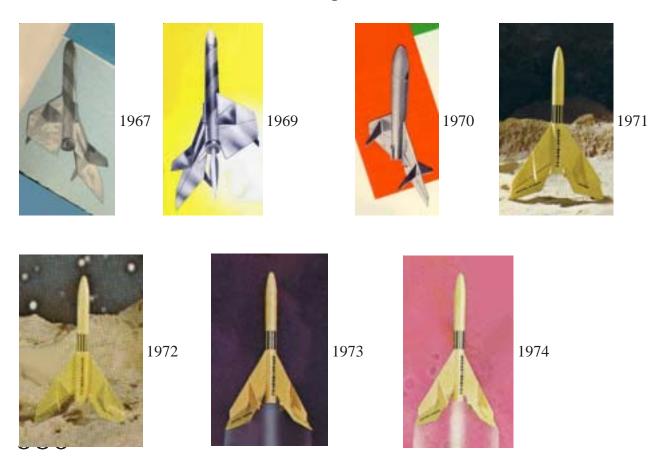
NUMBER: K-24 or #1224

Introduced: 1965 Final Year: 1983 Designer:

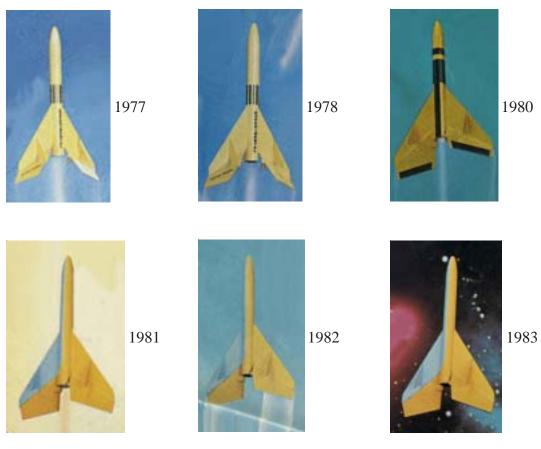
Type: Sport *Motor Mount*: 1x18mm *Recovery*: Helicopter *Stages*: 1 *Length*: 9.75" *Diameter*: 0.736" *Span*: *Weight*: 0.58 oz



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)







Web Liveries

Face Card(s)



Also of interest:

Hawkeye (#0873)



MODEL NAME: I

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









1990







1996





Also of interest:

Face Card(s)

Hercules (#1377)



MODEL NAME:

Hercules

Also known as:

NUMBER: #1377

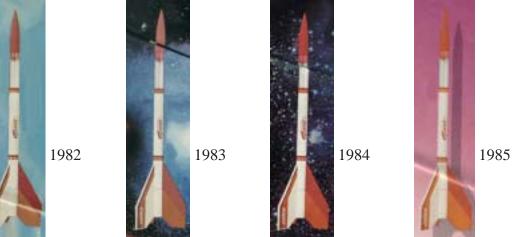
Introduced: 1982 Final Year: 1995 Designer:

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*



Clear payload section highlights this two-stager. Sleek design that can be *Mfg. Description*: flown as a single or two-stage model. Flights over 2500 ft.! (Estes 1982 Catalog)





















Face Card(s)



Also of interest:

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)

How high will a High-Flier go? The answer is OUTTA SIGHT!! No one *Mfg. Description*: 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)













Also of interest:

Face Card(s)





MODEL NAME: Hone

Honest John

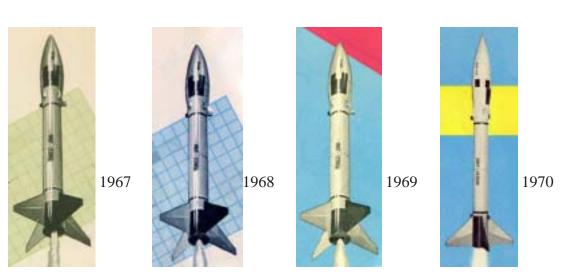
Also known as:

NUMBER: K-27 or #1227

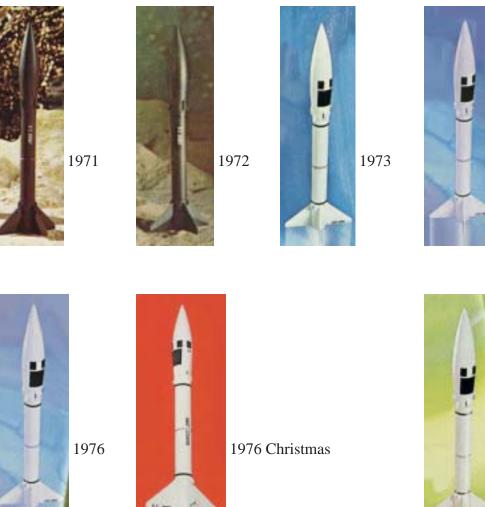
Introduced: 1966 Final Year: 1979 Designer:

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)













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





1985



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:

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)







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









Also of interest: Centuri Hornet Family



Icarus (K-77 or #1277)

MODEL NAME: Icarus Also known as:

NUMBER: K-77 or #1277

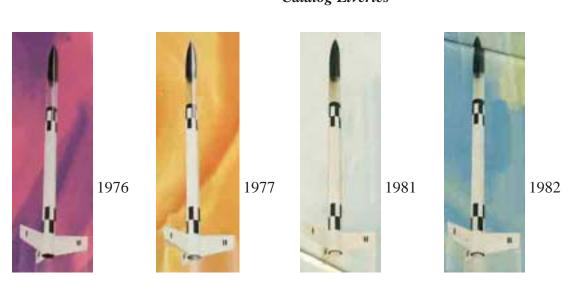
Introduced: 1976 Final Year: 1983 Designer: Bill Simon

Type: Sport, Payload Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 20.8" Diameter: 0.976" Span: Weight: 1.3 oz



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:





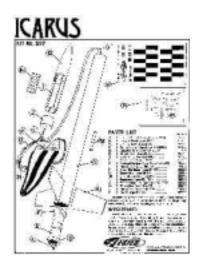


1983

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

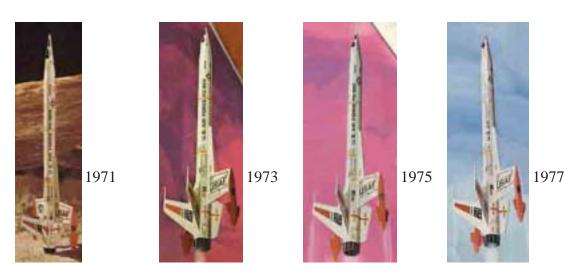
Mfg. Description: This is the spectacular model featured on the catalog cover. The most colorful and exciting Estes rocket ever! Carefully detailed plastic wing pods, nose cone and tail cone. Two huge decal sheets. (Estes 1971 Catalog)

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:













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)

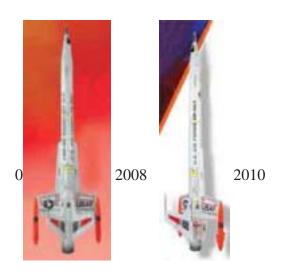
Mfg. Description: Super-sized at its best! Estes super-sized an already great rocket with the release of the Interceptor E. This new design retains the intergalactic cruiser look of the original, but has added many new features that make this a new classic in our line. We took the basic Interceptor from 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:















Instruction Header



Also of interest: Estes Interceptor Family



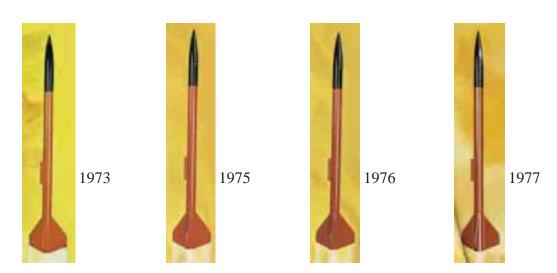
Weight: 0.34 oz

(Mini Brute) Javelin (#0815)

MODEL NAME:	Javelin	Also known as: Mini Brute Javelin
NUMBER: #0815		
Introduced: 1973		
Final Year: 1984		
Designer:		Out
Type: Sport		Of Production
Motor Mount: 1x13mm		onduce
Recovery: Streamer		Pro
Stages: 1		
Length: 12.4"		
Diameter: 0.541"		
Span:		

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















Face Card(s)

Instruction Header



Also of interest: **5 6 2**



MODEL NAME:

NUMBER: #2085

Jayhawk

(Pro Series) Jayhawk (#2085)

Also known as: Pro Series Jayhawk

Introduced: 1993 Final Year: 1996 Designer: Type: Scale		Out Of Production
Motor Mount: 1x24mm		L
Recovery: Parachute		
Stages: 1		
Length:		
Diameter:		
Span:		
Weight:		
Mfg. Description:		
Editorial Note:		
	Catalog Liveries	
1993		
	Weh I iveries	



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



Web Liveries

Face Card(s)

Also of interest: Little Joe II Launch Vehicle 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:

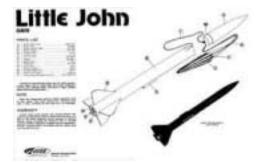






Face Card(s)

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:







Also of interest: Centuri Long Tom Family



Lucky Seven (#0807)

MODEL NAME: Lucky Seven Also known as: NUMBER: #0807 Introduced: 2005 Out Of Production Final Year: 2007 Designer: *Type: Scale Motor Mount: 1x13mm* Recovery: Parachute Stages: 1 Length: 7.9"

The Lucky Seven is a stellar looking version of the Acceleration Engineering *Mfg. Description*: 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:

Diameter: 1.37"

Weight: 1.5 oz

Span:





Catalog Liveries



2007



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

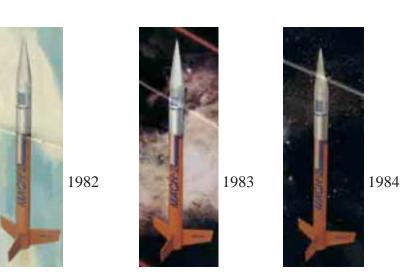
Introduced: 1982 Final Year: 1984 Designer:

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:





Face Card(s)

Instruction Header



Also of interest:



Magician (#2440)

MODEL NAME: M

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)

2010









Instruction Header



Also of interest:

Magnum (#2032)



MODEL NAME: Mag

Magnum

Also known as:

NUMBER: #2032

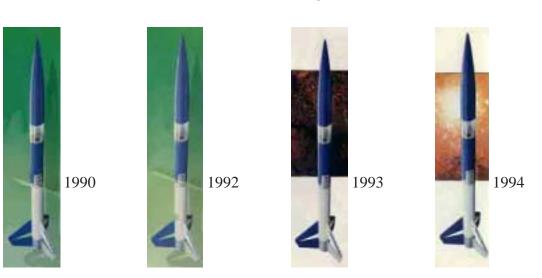
Introduced: 1990 Final Year: 1994 Designer:

Type: 2 Stage, Payload Motor Mount: 1x24mm/1x18mm Recovery: Tumble/Parachute Stages: 2 Length: 34.625" Diameter: 1.637" Span: Weight: 4.17 oz



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:





Web Liveries

Face Card(s)

Instruction Header



Also of interest:





MODEL NAME:

Astron Mark

Also known as: Mark

NUMBER: K-2 or #1202

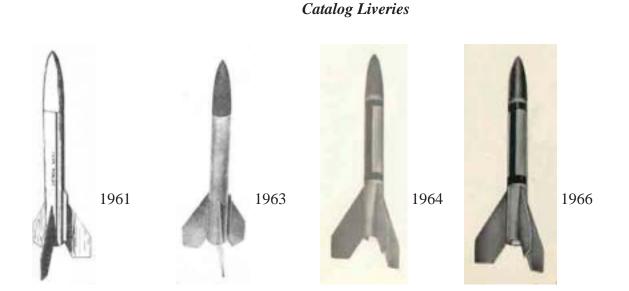
Introduced: 1961 Final Year: 1971 Designer: G. Harry Stine

Type: Sport *Motor Mount: 1x18mm* Recovery: Streamer Stages: 1 Length: 9.12" *Diameter: 0.765"* Span: *Weight: 0.65 oz*

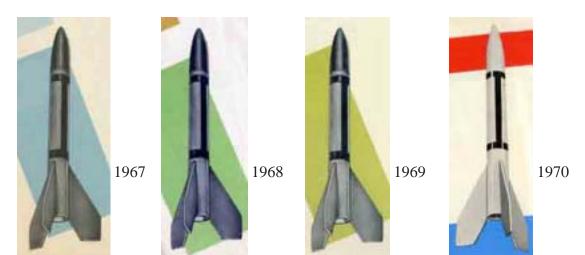


The Astron Mark is excellent for the beginner in model rocketry. This kit is *Mfg. Description*: easy to build, and acquaints the rocketeer with the methods of streamer recovery. Ideal for demonstrations and sport flying. (Estes 1961 Catalog)

Editorial Note:









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

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







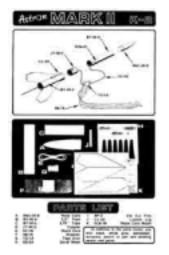


1983

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



0



















1978



1981



1982



1983

Web Liveries

Face Card(s)

Instruction Header



Also of interest:





MODEL NAME:

Mars Snooper

Also known as:

NUMBER: K-20 or #1220

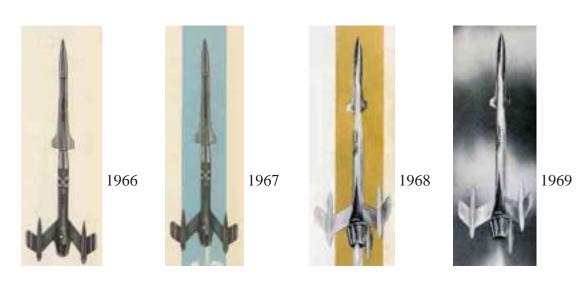
Introduced: 1965 Final Year: 1974 Designer: Gene Street

Type: Exotic Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 21.7" Diameter: 0.95" Span: Weight: 2.2 oz



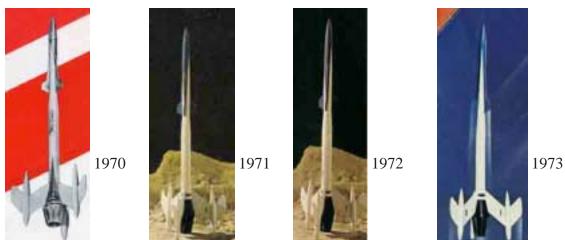
Mfg. Description: A truly different model rocket, the Mars Snooper combines interesting appearance with reliable performance - makes and excellent model for demonstration flying and display. Features payload section and 18" parachute, pre-cut fins for easier assembly. Recommended for the careful modeler, the Mars Snooper kit comes with all parts and detailed instructions (but no engines). (Estes 1966 Catalog)

Editorial Note:



Catalog Liveries





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

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



Span:

Weight: 2.3 oz

Mars Snooper II (K-20 or #1220)

MODEL NAME:Mars Snooper IIAlso known as: Astron Mars Snooper IINUMBER: K-20 or #1220Introduced: 1975Final Year: 1980Designer: Gene StreetType: ExoticMotor Mount: 1x18mmRecovery: ParachuteStages: 1Length: 22.3"Diameter: 0.976"

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



589



Web Liveries

Face Card(s)



Instruction Header



Also of interest: Estes Mars Snooper Family



Diameter: 2.6"

Weight: 6.17 oz

Span:

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"		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)





1979

Catalog Liveries

Web Liveries



Face Card(s)



Also of interest: Estes Alpha Family



Maxi Alpha 3 (#1321)

MODEL NAME: Ma

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



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 precolored. 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)



1981

Catalog Liveries



Web Liveries

Face Card(s)

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





Web Liveries



Face Card(s)



Also of interest:

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 surfaceto-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)



Catalog Liveries







597



Web Liveries

Face Card(s)





Also of interest: MGR-1 Honest John Ordnance Family, Estes Maxi Brute Family



Maxi Streak (#1387)

MODEL NAME: Maxi

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



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

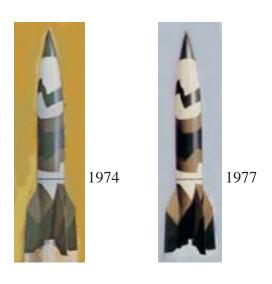
NUMBER: K-67 or #1267

Introduced: 1974 Motor Mount: 1x24mm Final Year: 1981 Designer: Wayne Kellner

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

Web Liveries

Face Card(s)

Also of interest: Estes Maxi Brute Family, All V2 Families

Mean Machine (#1295)



MODEL NAME: Mean N

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



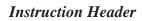


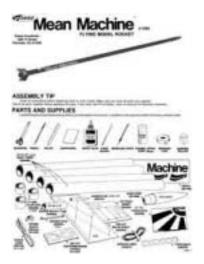
Web Liveries



Face Card(s)







Also of interest: Estes Mean Machine Family



Mega Mosquito (#1335)

MODEL NAME:	Mega Mosqui
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ito

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





Web Liveries



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



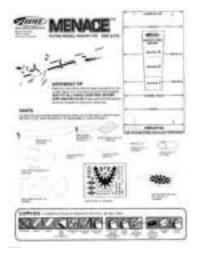




Web Liveries

Face Card(s)

Instruction Header



Also of interest:



Mercury Atlas (#2111)

MODEL NAME: Mercu

Mercury Atlas

Also known as:

NUMBER: #2111

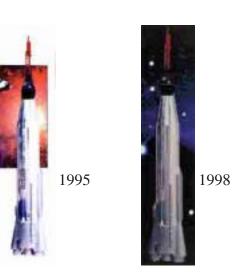
Introduced: 1995 Final Year: 1998 Designer:

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

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

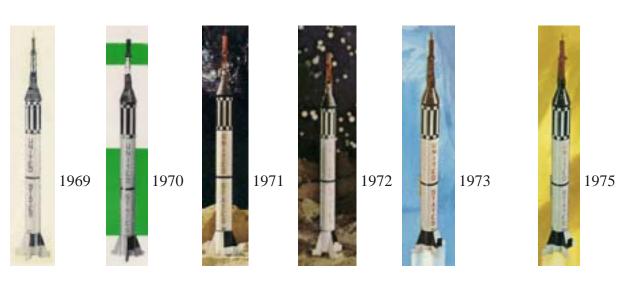
Introduced: 1969 Final Year: 1981 Designer: Gene Street

Type: Scale Motor Mount: Recovery: Parachute Stages: 1 Length: 23.5" Diameter: 1.637" Span: Weight: 2.1 oz



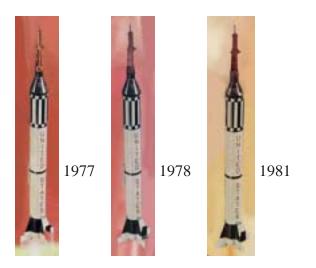
Mfg. Description: A beautiful rocket to thrill even the most advanced rocketeer. The Mercury Redstone is an exact scale model of the vehicle that boosted Commander Alan Shepard on America's first manned space flight. Scaled at 1 to 42, the model is accurately detailed and includes a complete decal sheet. 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





Web Liveries

Face Card(s)

Also of interest: Mercury Redstone Launch Vehicle Family



Mercury Redstone (#1921)

MODEL NAME:Mercury RedstoneAlso known as:NUMBER: #1921Introduced: 1984
Final Year: 1990
Designer:Image: Contemposition of the second second

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:

Diameter: 2.04"

Weight: 3.0 oz

Span:









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)

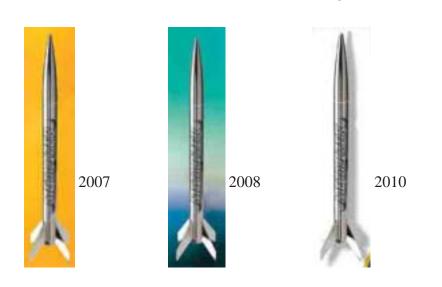
Mfg. Description: You'll need protection from UV rays when the Metalizer streaks upward! If you want a rocket that's easy to spot while streaking skyward, the Metalizer is the one for you.

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)

Catalog Liveries

Editorial Note:













Instruction Header



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



This little rocket has all the extras. Powered by Mini-Engines, Micron delivers *Mfg. Description*: great flights and returns to earth via streamer recovery. (Estes 1989 Catalog)

Editorial Note:



Catalog Liveries



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

Type: Sport, 2 Stage Motor Mount: 1x18mm/1x18mm Recovery: Tumble/Parachute Stages: 2 Length: 9.25" Diameter: 0.976" Span: Weight: 0.56 oz

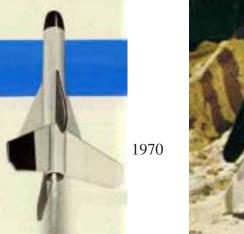


Mfg. Description: No midget in performance, this unique 2 stage rocket is designed to get the most out of smaller series III engines. Graceful in flight and fast at liftoff, the Astron Midget is an exciting design to fly. Upper stage features chute recovery while booster flutters gently back to earth. 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





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

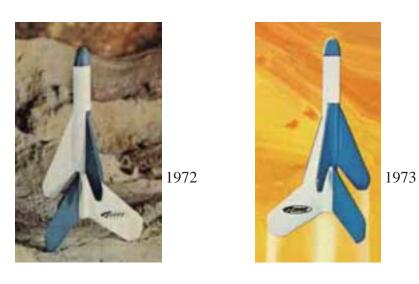
Introduced: 1972 Final Year: 1973 Designer: Bill Simon

Type: Sport, 2 Stage Motor Mount: 1x13mm/1x13mm Recovery: Tumble/Parachute Stages: 2 Length: 8.6" Diameter: 0.736" Span: Weight: 0.4 oz



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

Face Card(s)

Instruction Header

Also of interest: Estes Midget Family, Estes Mini Brute Family





MODEL NAME: N

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

Web Liveries

Face Card(s)



Mini Bomarc (TK-5 or #0805)

MODEL NAME: Mini Bomarc

Also known as:

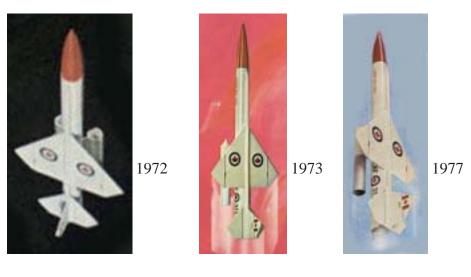
NUMBER: TK-5 or #0805

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



Web Liveries

Face Card(s)

Also of interest: CIM-10 Bomarc Ordnance Family, Estes Mini Brute Family

Mini Cobra (#0898)



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



Mfg. Description: Super high performance two-stage mini sport rocket. (Estes 1992 Catalog)

Editorial Note:





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)











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)







Face Card(s)



Also of interest: Estes Der Red Max Family





MODEL NAME:

Mini Mean Machine

Also known as:

NUMBER: #0865

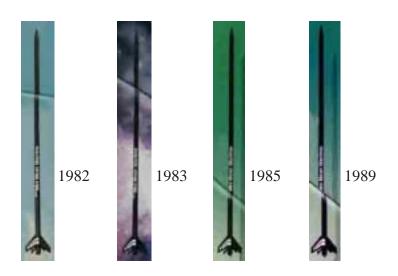
Introduced: 1982 Final Year: 1990 Designer:

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:





Face Card(s)



Instruction Header



Also of interest: Estes Mean Machine Family, Estes Mini Brute Family

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:

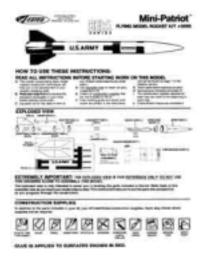




Face Card(s)



Instruction Header



Also of interest: MIM-104 Patriot Ordnance 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 StingrayAlso known as:NUMBER: #2131Introduced: 1997
Final Year: 2002
Designer:Type: Pseudo Scale
Motor Mount: 1x18mm
Recovery: Parachute
Stages: 1

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:

Length: 16" Diameter: 1"

Weight: 1.7 oz

Span:



Web Liveries





Face Card(s)



Instruction Header

Also of interest: Estes Mk-109 Stingray Family



Monarch (#2172)

MODEL NAME: Monarch

ch

Also known as:

NUMBER: #2172

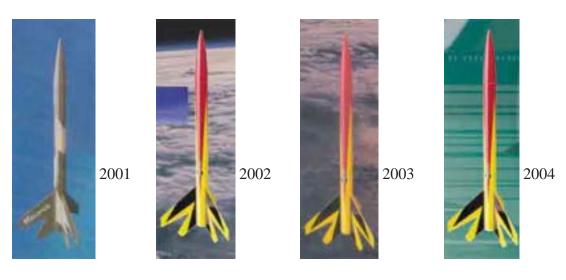
Introduced: 2001 Final Year: 2004 Designer:

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:

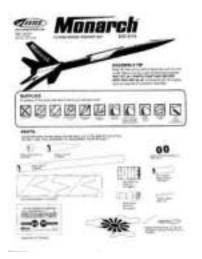


Web Liveries



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:







Face Card(s)



Instruction Header

Also of interest:



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.

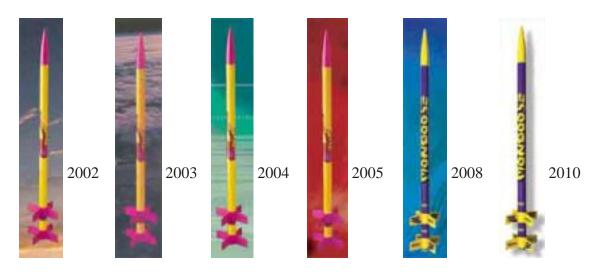
Recovery is usually by parachute or streamer. The action is always hot when flying a staged rocket! The Mongoose can be flown as a single stage rocket or add a booster engine and watch this beast soar to astonishing heights of over 1,800 feet.

Standing over 26 inches tall, this highflying rocket will descend back to earth on a colorful preassembled parachute. (Estes 2012 Web Ad)

Editorial Note:









Face Card(s)





Instruction Header



Also of interest:

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

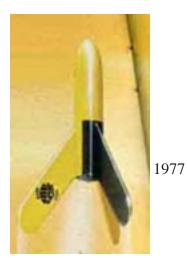






1975





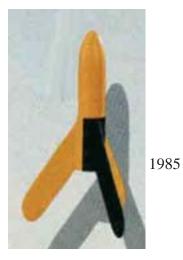


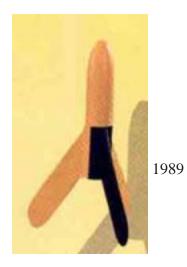






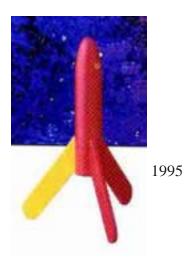




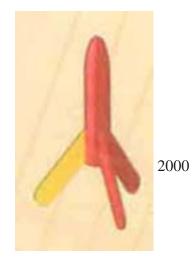


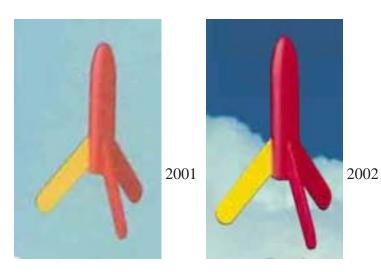












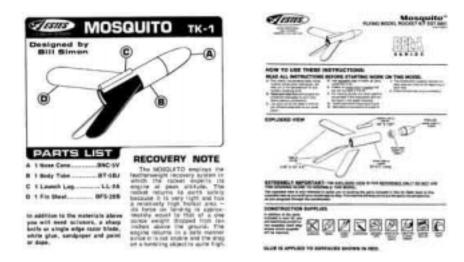
Face Card(s)







Instruction Header



Also of interest: Estes Mosquito Family, Estes Mini Brute Family

Mosquito (#1335)



MODEL NAME:	Mosquito
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Also known as: Bonus Mosquito

NUMBER: #1335

Introduced: 2011 Final Year: Designer: Bill Simon

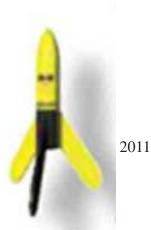
Type: Sport *Motor Mount: 1x13mm Recovery: Tumble* Stages: 1 Length: 3.8 in. (9.6 cm) *Diameter:* 0.54 *in.* (14 *mm*) Span: Weight:

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







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



Mfg. Description: Medium range research craft for NASA after the Space Shuttle. Flies over 850 feet. (Estes 1982 Catalog)

Editorial Note:









Face Card(s)

Instruction Header



Also of interest: Estes NASA Pegasus Family



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:









Face Card(s)



Instruction Header



Also of interest: Estes National Aerospace Plane Family

Nemesis (#2175)



MODEL NAME: Ne

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"



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





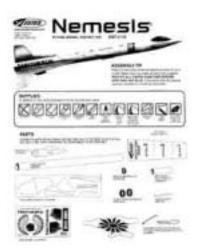
654





Face Card(s)

Instruction Header



Also of interest:

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



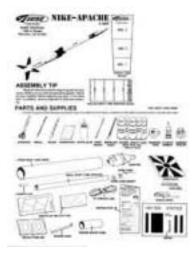
1986





Face Card(s)

Instruction Header



Also of interest: Nike Apache Sounding Rocket Family

Nike-X (K-70 or #1270)



MODEL NAME: Nike-X

Also known as:

NUMBER: K-70 or #1270

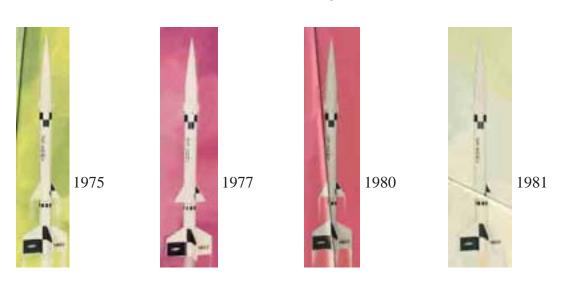
Introduced: 1975 Final Year: 1984 Designer: Wayne Kellner

Type: Pseudo Scale Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 23.4" Diameter: 1.325" Span: Weight: 2.3 oz

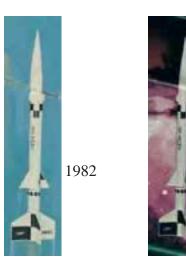


Mfg. Description: Scale-like single stage model of U.S. Army's 4th generation, two stage surface-to-air interceptor missile. Nike style design with US Army decor. Great performance for really impressive flights. Easy to assemble. Realistic roll pattern decals, quick release engine mount, die cut fins and big 18" parachute. (Estes 1975 Catalog)

Editorial Note:







1983

Web Liveries

Face Card(s)

Instruction Header



Also of interest: Estes Nike-X Family

Nova Payloader (#1960)



MODEL NAME:

Nova Payloader

Also known as:

NUMBER: #1960

Introduced: 1986 Final Year: Designer:

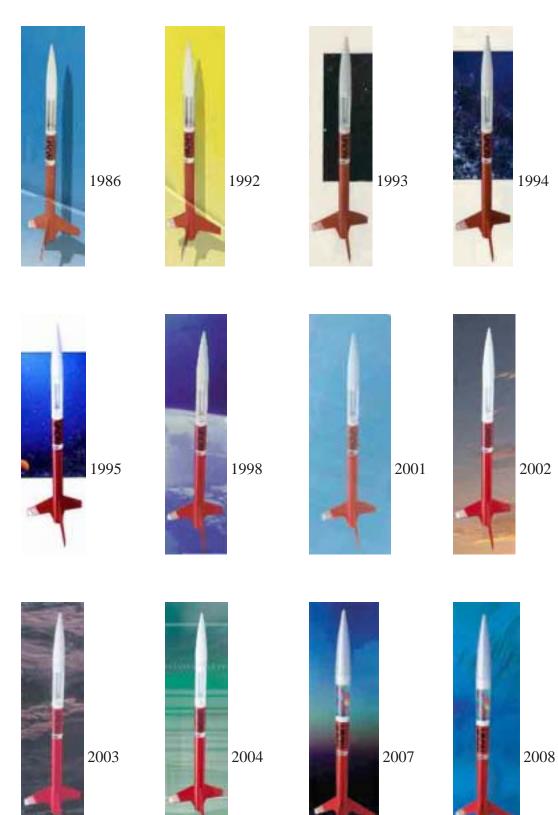
Type: Payload Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 21.1 in. (53.6 cm) Diameter: 0.98 in. (25 mm) Span: Weight: 1.3 oz. (38 g)

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.











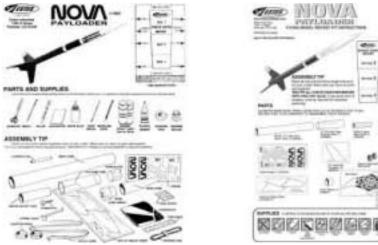
Face Card(s)







Instruction Header



C

Also of interest: Estes Nova Payloader Family

Odyssey (#1289)



MODEL NAME: Odg

Odyssey

Also known as:

NUMBER: #1289

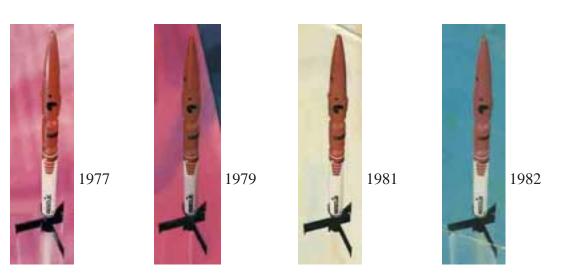
Introduced: 1977 Final Year: 1982 Designer: Wayne Kellner

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:





Face Card(s)

Instruction Header



Also of interest:

Optima (#2035)



MODEL NAME: Opt

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:





Face Card(s)



Instruction Header



Also of interest: Estes Optima Family



MODEL NAME:

Orbital Transport

Also known as:

NUMBER: K-42 or #1242

Introduced: 1969 Final Year: 1985 Designer: Wayne Kellner

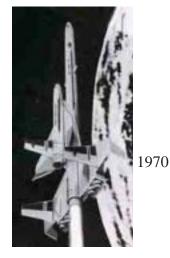
Type: Exotic, Boost Glider Motor Mount: 1x18mm Recovery: Glide/Parachute Stages: 1 Length: 23" Diameter: 0.976" Span: 7.9" Weight: 2.5 oz



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:





























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

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: Outla

Outlander

Also known as:

NUMBER: #2110

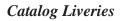
Introduced: 2003 Final Year: 2008 Designer:

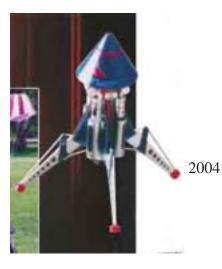
Type: Exotic Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 12.5" Diameter: 4.375" Span: Weight: 4.2 oz



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

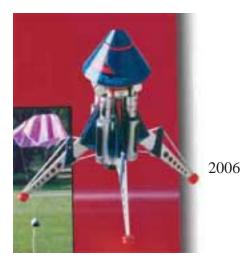






2005











Face Card(s)

Instruction Header





Pathfinder (#1997)

MODEL NAME: Path

Pathfinder

Also known as:

NUMBER: #1997

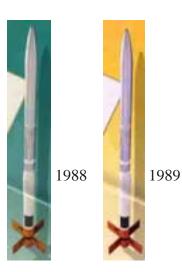
Introduced: 1988 Final Year: 1990 Designer:

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:

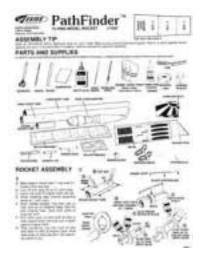




Face Card(s)



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

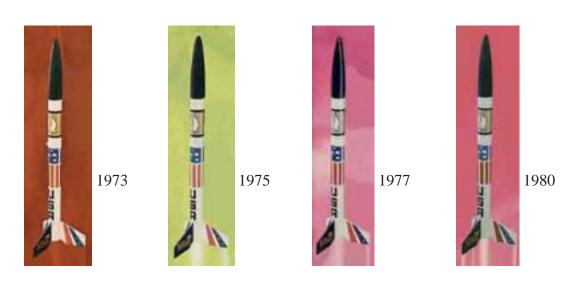
Introduced: 1972 Final Year: 1984 Designer: Wayne Kellner

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.









1983

Other Print Appearances



1971 Citation Catalog

Face Card(s)





Instruction Header



Also of interest: Estes Citation Marketing Family

Patriot (#1450)



MODEL NAME: P

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:



Mfg. Description:

Editorial Note:

Catalog Liveries





1993



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

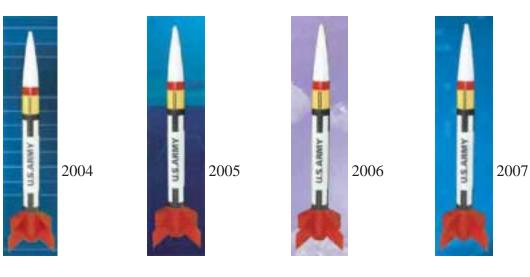
Introduced: 2004 Final Year: 2007 Designer:

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

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:		
Type: Scale Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 18" Diameter: 1.35" Span: Weight: 2.7 oz		Out Of Production

Mfg. Description: The Patriot dominates the skies. This classic scale-like model is built ready-tofly and looks like the genuine surface-air defense missile used by the U.S. Army. (Estes 2008 Catalog)

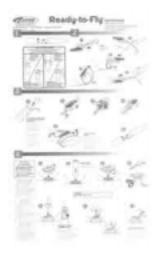
Editorial Note: This set seems to be identical to the #1825 Starter sets in all respects except for the product number.





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.



















Face Card(s)



Instruction Header



Also of interest: MIM-104 Patriot Ordnance Family



MODEL NAME:

Patriot Missile

Also known as: Pro Series Patriot Missile

NUMBER: #2066

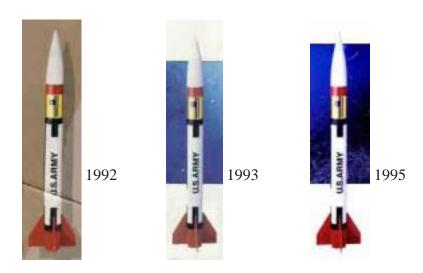
Introduced: 1992 Final Year: 1995 Designer:

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)

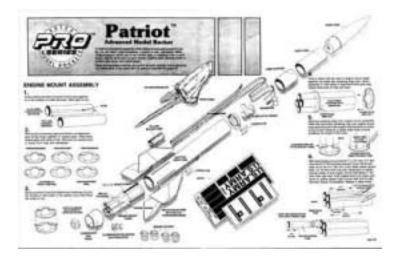
Editorial Note:





Face Card(s)

Instruction Header



Also of interest: MIM-104 Patriot Ordnance Family, Estes Pro Series Marketing Family



MODEL NAME:

Patrol Cruiser Excalibur

Also known as:

NUMBER: #1339

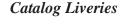
Introduced: 1980 Final Year: 1981 Designer: Keith Niskern

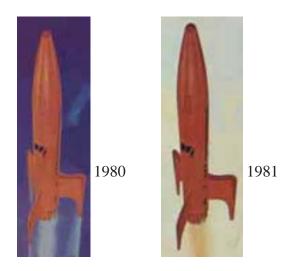
Type: Exotic, Retro Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 20.125" Diameter: 1.637" Span: Weight: 2.3 oz



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:







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:











Instruction Header



Also of interest: Centuri Payloader Family

Pheonix (#1380)



MODEL NAME: Ph

Phoenix

Also known as:

NUMBER: #1380

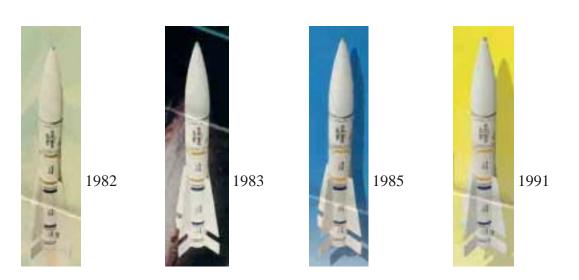
Introduced: 1982 Final Year: 2004 Designer:

Type: Scale Motor Mount: 1x24mm Recovery: Parachute Stages: 1 Length: 30" Diameter: 2.6" Span: Weight: 6.6 oz

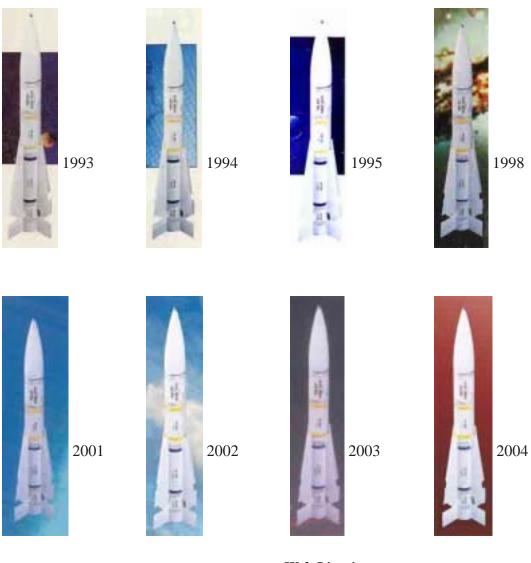


Mfg. Description: Big semi-scale model of the famous Phoenix air-to-air supersonic missile. Impressive in the air and on display. Single "D" powered engine provides a slow, realistic lift-off and flights over 600 feet. (Estes 1982 Catalog)

Editorial Note:







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

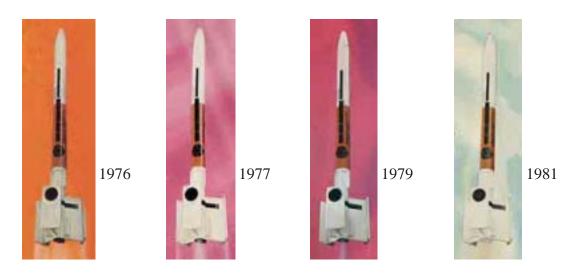
Introduced: 1976 Final Year: 1981 Designer: Wayne Kellner

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:





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:







Face Card(s)



Instruction Header



Also of interest: Estes Photon Disruptor Family **700**



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:





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:







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)

From the "Classic Series" line, the Photon Probe is based on an original Estes *Mfg. Description*: 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:





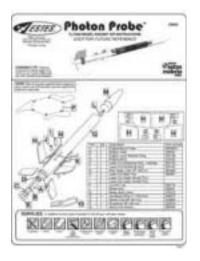


Face Card(s)





Instruction Header



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









Instruction Header

Also of interest: Centuri Laser-X Family

Polaris (#2174)



MODEL NAME: **P**

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







Face Card(s)



Instruction Header



Also of interest:



MODEL NAME:

Prime Number Explorer

Also known as:

NUMBER: #0891

Introduced: 1991 Final Year: 1992 Designer:

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)

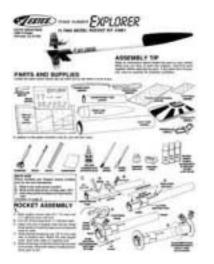
Editorial Note:



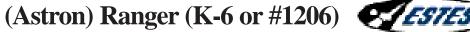


Face Card(s)

Instruction Header



Also of interest:





MODEL NAME:

Astron Ranger

Also known as: Ranger

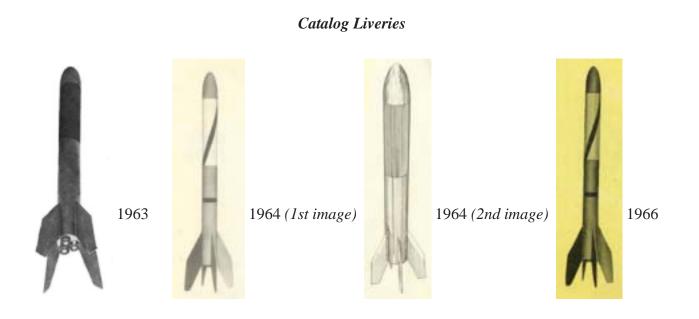
NUMBER: K-6 or #1206

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)















1971

Face Card(s)





2 23

Packs KING-SAIRD Payloads

CIT NO. K-I





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:

Out Of Production

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 Kell Type: Exotic Motor Mount: 1x18m Recovery: Parachute Stages: 1 Length: 22.75" Diameter: 0.976" Span: Weight: 1.38 oz	m	Out Of Production
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





1982



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)











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



1972

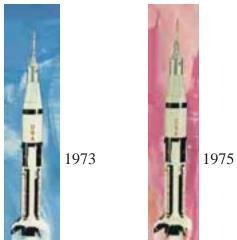
Mfg. Description: A thrilling scale model for even the most advanced rocketeer, this bird will be a real challenge to your building and flying skill. A four engine cluster lifts the Saturn 1-B model into the air. Two 24" parachutes on the main body and 12" parachute on the command-escape structure return 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





Face Card(s)





Instruction Header

Also of interest: Saturn I Launch Vehicle Family



Saturn 1B (#2048)

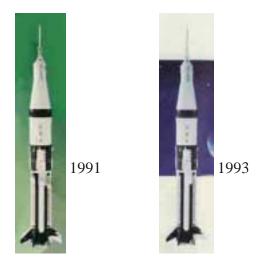
MODEL NAME: Saturn 1B Also known as: NUMBER: #2048 Introduced: 1991 Final Year: 1993 Designer: *Type: Scale* Out Of Production Motor Mount: Recovery: Parachute Stages: 1 Length: 26.5" *Diameter: 2.618"* Span: Weight: 5/33 oz.

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:







Face Card(s)

Instruction Header



Also of interest: Saturn I Launch Vehicle Family



Saturn V (K-36 or #1236)

MODEL NAME: Saturn V Also kno

Also known as: Maxi-Brute Saturn V, Saturn V Moon Rocket

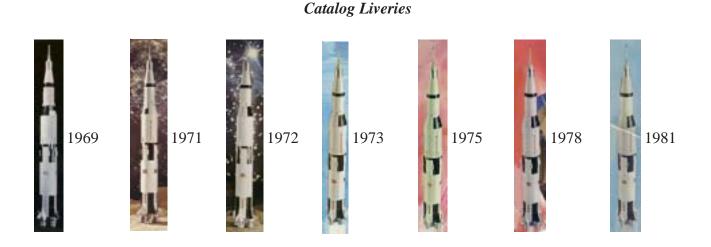
NUMBER: K-36 or #1236

Introduced: 1969 Final Year: 1985 Designer: Bill See

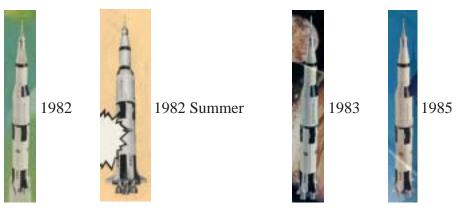
Type: Scale *Motor Mount*: 3x18mm or 1x24mm *Recovery*: Parachute *Stages*: 1 *Length*: 43.5" *Diameter*: 3.938" *Span*: *Weight*: 9.9 oz



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)







Face Card(s)

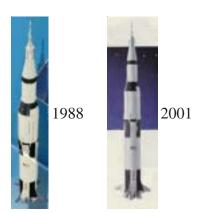


Saturn V (#2001)

MODEL NAME:	Saturn V	Also known as:
NUMBER: #2001		
<i>Introduced:</i> 1988 <i>Final Year:</i> 1994 <i>Designer:</i> Keith Nis	kern	
<i>Type</i> : Scale <i>Motor Mount</i> : 1x24 <i>Recovery</i> : Parachute		Out

Recovery: Parachute Stages: 1 Length: 43.25" Diameter: 3.938" Span: Weight: 10.2 oz

Mfg. Description: DESC





Catalog Liveries

Web Liveries

Face Card(s)

Saturn V (#2157)



MODEL NAME: Satu

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:

2011

Catalog Liveries

Web Liveries

Face Card(s)



(Astron) Scout (K-1 or #1201)

MODEL NAME: Scout

Also known as: Astron Scout

NUMBER: K-1 or #1201

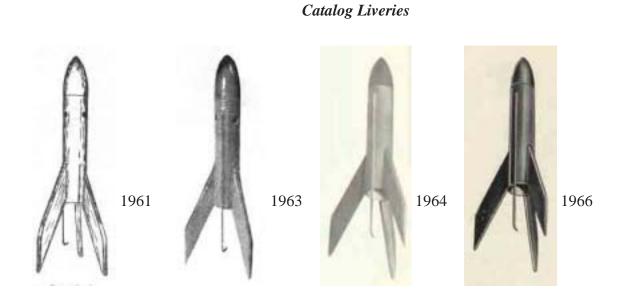
Introduced: 1961 Final Year: 1985 Designer: Vern Estes

Type: Sport Motor Mount: 1x18mm Recovery: Tumble Stages: 1 Length: 7" Diameter: 0.765" Span: Weight: 0.3 oz

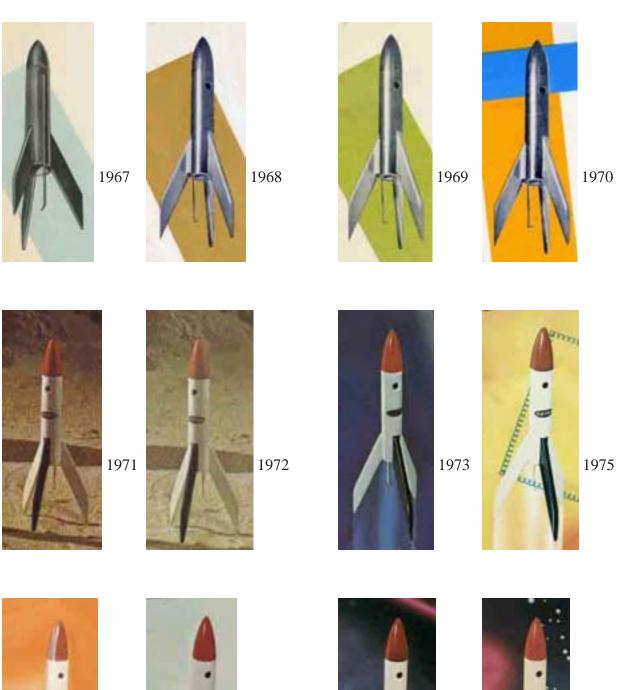


Mfg. Description: The Astron Scout is a light weight, high performance rocket. Absolutely out performs any other rocket we have ever seen. It is easy to assemble -- requires less than an hour. It is designed for many flights. Flies over 500 miles per hour, to altitudes of 1200' and over using a B-.8-4 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)

Editorial Note:

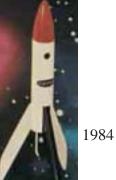
















Instruction Header







Also of interest: Estes Scout Family



MODEL NAME: Semi-Sc

Semi-Scale Saturn V

Also known as:

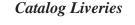
NUMBER: K-39 or #1239

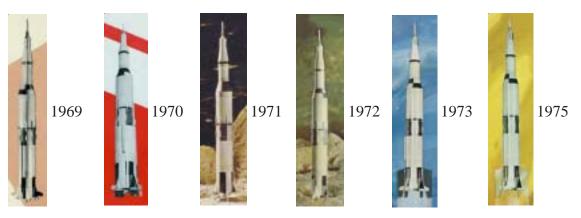
Introduced: 1969 *Final Year:* 1979 *Designer:* Bill Simon

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)









Face Card(s)

Shadow (#2094)



MODEL NAME: Sha

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, wuth a new decal scheme and a 24mm motor mount designed for the longer, Estes "E" motors.



Catalog Liveries

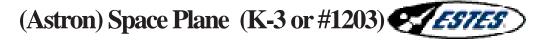


Face Card(s)

Instruction Header



Also of interest: Estes Optima Family



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

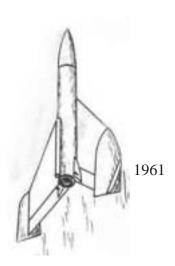
Type: Rocket Glider, Payload Motor Mount: 1x18mm Recovery: Glide Stages: 1 Length: 10" Diameter: 0.765" Span: 9" Weight: 0.5 oz



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)

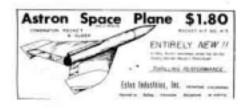
Editorial Note:

Catalog Liveries

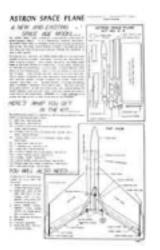




Face Card(s)



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





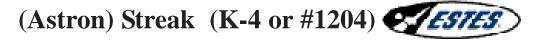


Face Card(s)



Instruction Header

Also of interest: Centuri Star Trooper Family



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



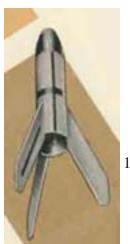
Mfg. Description: The ultimate Pee-Wee! Extremely light weight -- weighs only 1/8 ounce without engine. Uses special mylar body tube to give this light weight with high strength. Ideal kit for contests and records, will reach altitudes up to 2,000 feet. Recommended engine for normal flying is 1/4A.8-2. Kit comes complete with all parts and easy to follow instructions. (Estes 1963 Catalog)

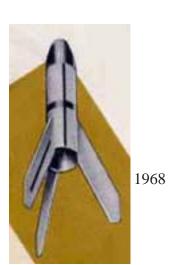
Catalog Liveries

Editorial Note:

1963 1964 1964 1964 1966

























Web Liveries

Face Card(s)











CTAN CONSCIONS



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





Face Card(s)



Also of interest: Estes Alpha Family

Super Big Bertha (#2018)



MODEL NAME: Su

Super Big Bertha

Also known as:

NUMBER: #2018

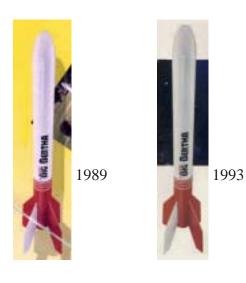
Introduced: 1989 Final Year: 1993 Designer:

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



Web Liveries

Face Card(s)



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:



Mfg. Description: DESC

Catalog Liveries

Web Liveries

Face Card(s)





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)

Mfg. Description:

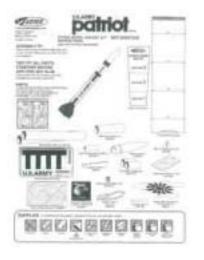
Editorial Note: Same as #2056 except for packaging

Catalog Liveries

Web Liveries

Face Card(s)

Instruction Header



Also of interest: MIM-104 Patriot Ordnance Family, Estes Launchables Marketing Family







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:

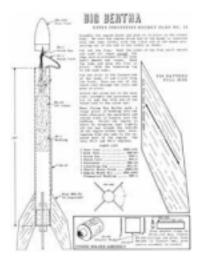
NUMBER: #13

Introduced: 1962 Final Year: Designer: Vern Estes

Type: Sport Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: Diameter: Span: Weight:

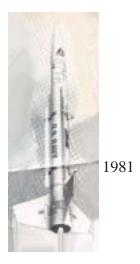
Mfg. Description: DESC

Face Card(s)



Also of interest: Estes Big Bertha





Face Card(s)





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 Grosser Vati Goony Max Honest Goon

Goony Goony



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



Face Card(s)

Also of interest: Estes Der Red Max Family, Estes Big Daddy Family

Goony Max



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)





Face Card(s)

Also of interest: Estes Der Red Max Family, Goony Family



Honest Goon

MODEL NAME: Ho

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



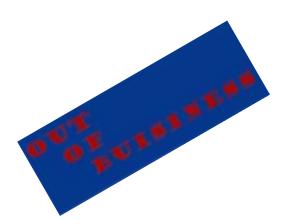
Face Card(s)

Also of interest: MGR-1 Honest John Ordnance Family, Goony Family



RAYTOWN, MISSOURI 64133

Flight Systems Inc. (FSI)





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 \mathbf{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





Web Liveries

Face Card(s)



Also of interest: Nike Smoke Sounding Rocket Family

Viking 1 (MRK-9 or #1009)



MODEL NAME: Vik

Viking 1

Also known as: Viking, Viking I

NUMBER: MRK-9 or #1009

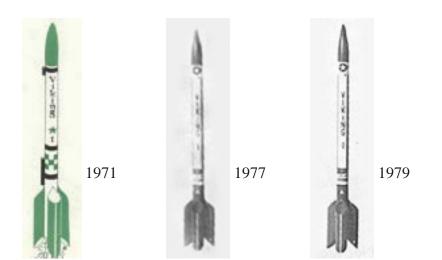
Introduced: 1968 Final Year: 1987 Designer:

Type: sport/tube fin Motor Mount: 1x18mm Recovery: parachute Stages: 1 Length: 20" Diameter: 0.903" Span: Weight: 1.6 oz



Mfg. Description:

Catalog Liveries





Web Liveries

Face Card(s)



Viking 2 (MRK-10 or #1010)



MODEL NAME:

Viking 2

Also known as: Viking II

NUMBER: MRK-10 or #1010

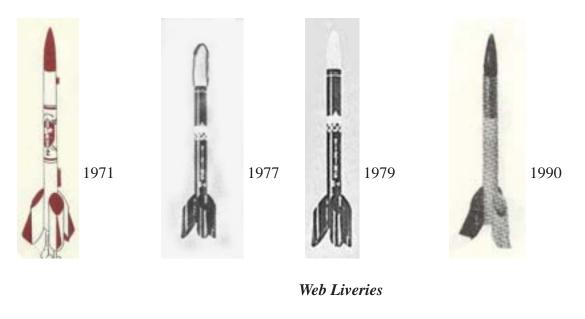
Introduced: 1968 Final Year: 1994 Designer:

Type: sport/tube fin Motor Mount: *Recovery: parachute* Stages: 1 Length: 16" *Diameter: 0.903"* Span: Weight: 1.5 oz



Mfg. Description:





Face Card(s)



Viking 3 (MRK-11 or #1011)

MODEL NAME: Viking 3

Also known as:

NUMBER: MRK-11 or #1011

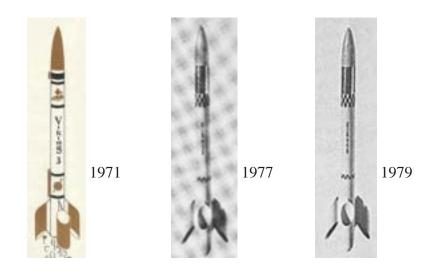
Introduced: 1968 Final Year: 1987 Designer:

Type: sport/tube fin Motor Mount: Recovery: parachute Stages: 1 Length: 15" Diameter: 0.903" Span: Weight: 1.5 oz

Mfg. Description:



Catalog Liveries





Web Liveries

Face Card(s)





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:

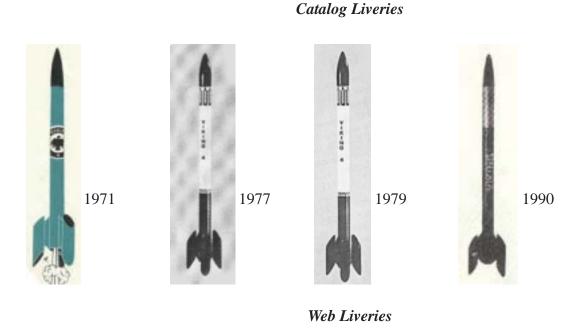
Type: sport/tube fin Motor Mount: Recovery: parachute Stages: 1 Length: 20.25" Diameter: 1.130" Span: Weight: 2.1 oz



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)





Viking 5 (#1029)



MODEL NAME: Vil

Viking 5

Also known as: Viking V

NUMBER: #1029

Introduced: 1987 Final Year: 1994 Designer:

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



Web Liveries

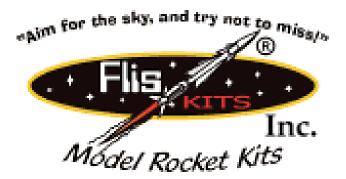
Face Card(s)



FlisKits

FlisKits, Inc., Model Rocket Kits & Supplies 6 Jennifer Drive Merrimack, NH 03054 (603) 494-1145

http://fliskits.com/



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

Honest John

MX008

Micro to the Maxx

Master List for FlisKits by Number

MX008

Honest John

Micro to the Maxx

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!

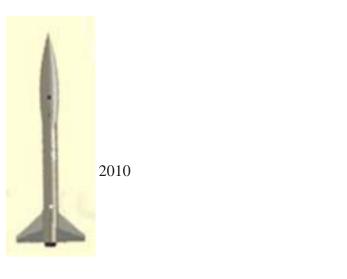
Further, the nose cone, tiny as it is, is as close to true scale as we can make it, with the tail end of the cone a true conic shape. Many version of the Honest John model have errored in this respect, making the entire cone a curved profile.

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











Face Card(s)





Also of interest: MGR-1 Honest John Ordnance Family, Fliskits Micro to the Maxx 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



Master List for **InFlight** by Name

Blue Bird Zero Nike Smoke IF-K207 IF-K114

Estes Clone



Master List for **InFlight** by Number

IF-K-114 IF-K207 Nike Smoke 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



Face Card(s)

Also of interest: Estes Blue Bird Zero



(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



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/



Master List for **TLP** by Name

Bullpup AGM-12BK005Bullpup AGM-12CK006Hawk MIM-23A (1.6")K039



Master List for **TLP** by Number

K005Bullpup AGM-12BK006Bullpup AGM-12CK039Hawk MIM-23A (1.6")



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



Also of interest:

Face Card(s)



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







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





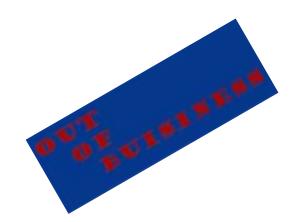


Instruction Header

Also of interest: MIM-23 Hawk 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 middleaged (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





MODEL NAME: M

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







Instruction Header:

Also of interest: Estes Goblin Family, Leading Edge Micro Classics Family





MODEL NAME:

Micro Max

Also known as:

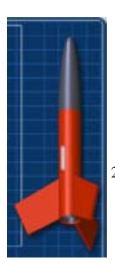
NUMBER: LE-07

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 wonâmt 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







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

V2 (3.9")	PK-57
V2 (7.5")	PK-100

Master List for LOC by Number

PK-57	V2 (3.9")
PK-100	V2 (7.5")

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





Web Liveries



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





Instruction Header

Also of interest: V2 Ordnance Family, V2 Launch Vehicle Family



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
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 Rocket (4")	K-157
Mozzie	K-112
Phoenix Rocket	K-136

Master List for Madcow by Number

Army Hawk MIM-23A K-106 K-109 Jay Hawk AQM-37A K-112 Mozzie Honest John (2.6") K-115 K-119 Bomarc Rocket Phoenix Rocket K-136 K-141 Cricket Black Brant II (2.6") K-156 Little John Rocket (4") K-157



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:

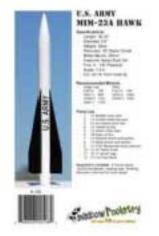
Web Liveries







Instruction Header



Also of interest: MIM-23 Hawk Ordnance Family



Black Brant II (K-156)

MODEL NAME: Bla

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: 330z

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





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







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

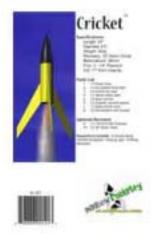
Web Liveries







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







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

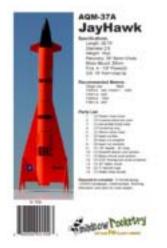


Web Liveries









Also of interest: AQM-37 Jayhawk Ordnance Family



(4") Little John Rocket (K-157)

MODEL NAME:

Little John Rocket

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



831



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







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



835



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

(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
(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
(Centuri) Orion	#348
(Estes) Patrol Cruiser Excalibur	#373
(Centuri) Payloader II	#354
(Estes) Ranger	#226
(Estes) Scout	#330
(DynaStar) Snarky	#380
(Centuri) Taurus	#317
(Centuri) The Point	#232
(Centuri) Vulcan	#296



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
#239	(Estes) Hercules
#243	(Estes) Explorer Aquarius
#246	(Estes) Deep Space Transport
#248	(Centuri) Laser-X
#267	(Estes) Interceptor
#273	(Centuri) ESS Raven
#276	Micro AGM-13B Bullpup A
#284	(Estes) Gyroc Tri-Fin
#291	(Estes) Alien Space Probe
#297	(Estes) Big Bertha
#300	(Edmonds) Ecee Rocket Glider
#304	(Estes) National Aerospace Plane
#305	(Estes) Blue Bird Zero
#313	(Estes) Falcon
#317	(Centuri) Taurus
#330	(Estes) Scout
#346	(Estes) Black Hole Space Probe
#348	(Centuri) Orion
#350	(Estes) Courier
#352	(Centuri) Javelin
#353	(Estes) NASA Pegasus
#354	(Centuri) Payloader II
#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



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	Sportzy	#380
Dynastai	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	Patrol Cruiser Excalibur	#373
Estes	Ranger	#226
Estes	Scout	#330

(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



McCov's Micro Wonder Works

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

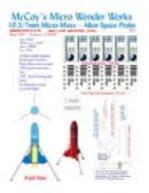
Introduced: 2002 Final Year: Designer: John McCoy

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)

(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

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



Face Card(s)



Also of interest: Estes Black Hole Space Probe **8 4 4**

(Estes) Blue Bird Zero (#305)

MODEL NAME:

Micro Blue Bird Zero

Also known as:

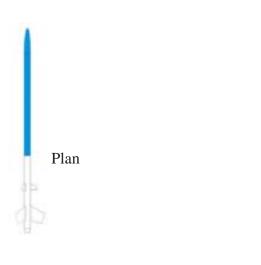
NUMBER: #305

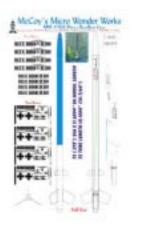
Introduced: 2005 Final Year: Designer: Mike Dorffler, John McCoy

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





Face Card(s)

(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)

M 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





MODEL NAME: Deep

Deep Space Transport

Also known as:

NUMBER:#246

Introduced: 2001 Final Year: Designer: John McCoy

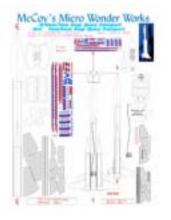
Type: Exotic, Downscale Motor Mount: 1x10.5mm or 1x6mm Recovery: Streamer Stages: 1 Length: Diameter: Span: Weight:

Mfg. Description:

Web Liveries







Also of interest: Estes Deep Space Transport Family **8 4 8**



(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)

Also known as:



MODEL NAME:	Dragon Ship-7
NUMBER: #374	
Introduced: 2011 Final Year: Designer: Keith Nisker	n, John McCoy
Type: Exotic, Downsca Motor Mount: 1x6mm Recovery: Streamer Stages: 1 Length: Diameter: 0.544" Span: Weight:	le, Retro
Mfg. Description:	3X Downscale (Plan)

Web Liveries



Plan



Face Card(s)

Also of interest: Estes Dragon Ship 7 Family

850



(Estes) EAC Viper (#375)

MODEL NAME:	T3 EAC Viper	Also known as:
NUMBER: #375		
Introduced: 2011 Final Year: Designer: John McCe	ру	
Type: Sport, Downsco Motor Mount: 1x6mn Recovery: Streamer Stages: 1 Length: 5.344" Diameter: 0.375" Span: Weight:		
Mfg. Description:	2.6x Downscale (Plan)	

Web Liveries







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

2.6 Downscale (Plan)

ŧ

Plan



Also of interest: Edmonds Ecee Family **8 5 2**

Web Liveries

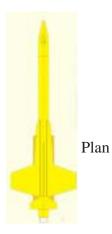
Face Card(s)



(Centuri) ESS Raven (#273)

MODEL NAME:	Micro ESS Raven	Also known as:
NUMBER: #273		
Introduced: 2003 Final Year: Designer: John McCo	ру	
Type: Exotic, Downsc Motor Mount: 1x6mm Recovery: Streamer Stages: 1 Length: Diameter: Span: Weight:		
Mfg. Description:		





Face Card(s)



Also of interest: Centuri ESS Raven Family





MODEL NAME: N

Micro Explorer Aquarius

Also known as:

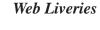
NUMBER: #243

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)





Plan

Face Card(s)



Also of interest: Estes Explorer Aquarius Family **8 5 4**

(Estes) Falcon (#313)



MODEL NAME: Micro Falcon BG

Also known as:

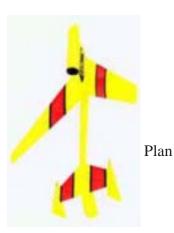
NUMBER: #313

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



Face Card(s)



Also of interest: Estes Falcon Family

(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



Face Card(s)



Also of interest: Estes Goblin Family 856



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





Face Card(s)

Gyroc Tri-Fin (#284)



MODEL NAME: Gyroc

Gyroc Tri-Fin

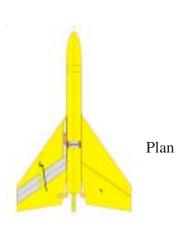
Also known as:

NUMBER: #284

Introduced: 2002 Final Year: Designer: John McCoy

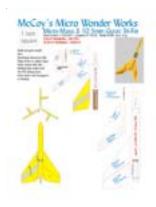
Type: Sport, Downscale *Motor Mount*: 1x6mm or 1x10.5mm *Recovery*: Helicopter *Stages*: 1 *Length*: *Diameter*: *Span*: *Weight*:

Mfg. Description: DESC



Web Liveries

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



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



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





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



Face Card(s)



Also of interest: Centuri Laser-X Family

(Estes) Mars Snooper (#235)



MODEL NAME: M

Micro_Maxx Mars Snooper

Also known as:

NUMBER: #235

Introduced: 2000 Final Year: Designer: Gene Street, John McCoy

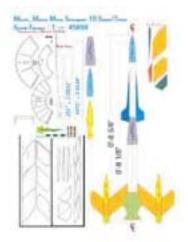
Type: Exotic, Downscale Motor Mount: 1x6mm or 1x10.5mm Recovery: Streamer Stages: 1 Length: 8.635" Diameter: 0.4475" Span: Weight:

Mfg. Description: DESC

Catalog Liveries

Web Liveries

Face Card(s)



Also of interest: Estes Mars Snooper Family



MODEL NAME: Ma

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:

(Estes) Midget (#362)



MODEL NAME: Micro T4/T3 Midget 2 Stage

Also known as:

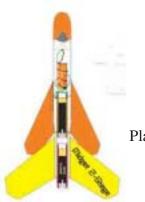
NUMBER: #362

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)



Micro National AeroSpace Plane MODEL NAME:

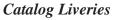
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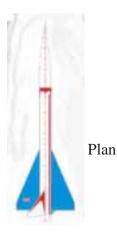
NUMBER: #304

Introduced: 2005 Final Year: Designer: John McCoy

Type: Exotic, Downscale Motor Mount: 1x6mm Recovery: Streamer Stages: Length: *Diameter:* Span: Weight:

Mfg. Description:





Face Card(s)



Also of interest: Estes National Aerospace Plane 868



88

MODEL NAME:

Nova Payloader

Also known as:

NUMBER: #236

Introduced: 2000 Final Year: Designer: John McCoy

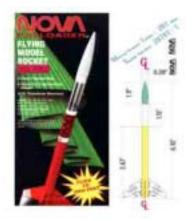
Type: Payload, Downscale Motor Mount: 1x 6mm Recovery: Streamer Stages: 1 Length: 6.1" Diameter: 0.28" Span: Weight:

Mfg. Description:



Web Liveries

Face Card(s)



Also of interest: Estes Nova Payloader 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:







Also of interest: Estes Patrol Cruiser Excalibur Family **8 70**

Face Card(s)





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)





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) Ranger (#226)

8

MODEL NAME: MMX Ranger

Also known as:

NUMBER: #226

Introduced: 2003 Final Year: Designer: Vern Estes, John McCoy

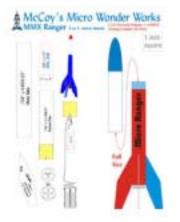
Type: Sport, Cluster, Downscale Motor Mount: 3x6mm or 4x6mm Recovery: Streamer Stages: 1 Length: Diameter: 0.736" Span: Weight:

Mfg. Description:

3 or 4 Motor Cluster (Plan) *Web Liveries*



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



Face Card(s)



Also of interest: Estes Scout Family **8 7 4**





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: 3.533x Downscale (Plan)

Mfg. Description:

Web Liveries



Face Card(s)

Also of interest: DynaStar Snarky Family

(Centuri) Taurus (#317)

Also known as:



MODEL NAME: Micro Centuri Taurus

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

McCov's Micro Worder Works

Also of interest: Centuri Taurus Fleet Ship Family **8 76**

Face Card(s)



8

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

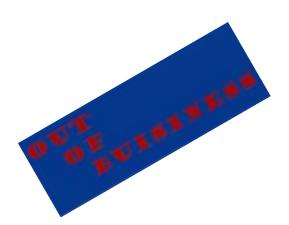
Face Card(s)



Also of interest: Centuri Point Family



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:

Out Of Production

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

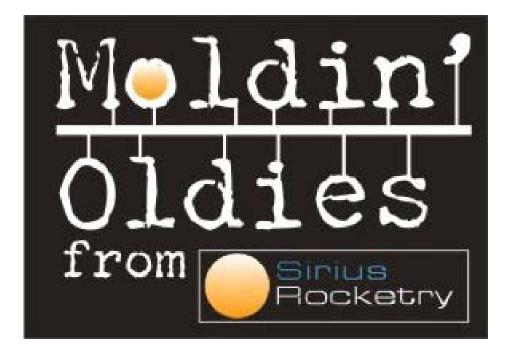
Web Liveries

Face Card(s)

Instruction Header

Also of interest: Aerobee Sounding Rocket Family, MMI Aerobee Hi Family





Moldin' Oldies

http://www.moldinoldies.com/

About Moldin' Oldies

Meldin' 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



Taurus Fleet Ship	Also known as:
(Catalog Liveries
	Web Liveries
	Face Card(s)
In	estruction Header
Also of interest: Centuri Taurus Fleet Ship Family	
	In



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:

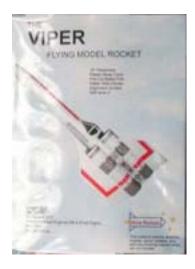
Type: Fantasy Scale, Clone Motor Mount: 1x18mm Recovery: Parachute Stages: 1 Length: 12.5" Diameter: 0.976" Span: Weight: 2.4 oz

Mfg. Description: DESC

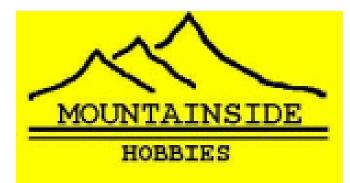
Catalog Liveries

Web Liveries

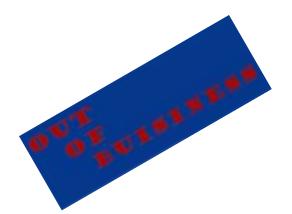
Face Card(s)



Also of interest: Estes Colonial Viper Family, Battlestar Galactica Colonial Viper Family



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#1034" 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

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





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

Orion II

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.

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



Face Card(s)

Instruction Header

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/

899



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



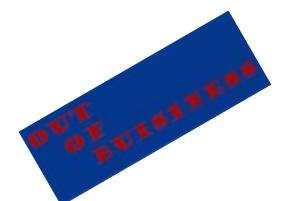
2011

Face Card(s)

Also of interest: V-2 Family



North Coast Rocketry (NCR)







Master List for NCR by Name

Aerobee Hi-Test

K-5

Master List for **NCR** by *Number*

K-5 Aerobee Hi-Test

Aerobee Hi-Test (K-5)



MODEL NAME:

Aerobee Hi-Test

Also known as:

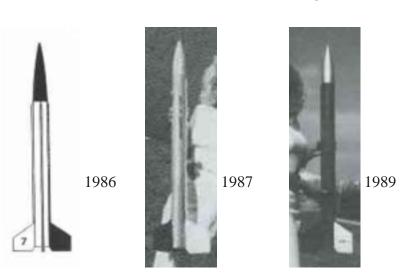
NUMBER: k-5

Introduced: Final Year: Designer:

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



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



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

1/4 Scale Nike Smoke1/3 Scale Nike Smoke1/4 Scale Patriot Missile1/2 Scale Patriot Missile

1/4 Scale Nike Smoke

ERFORMANCE ROCKETR

MODEL NAME:	1/4 Scale Nike Smo

loke

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 Hea	ader
Also of interest: MI	M-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



Polecat Aerospace (**Doing Buisiness As What's Up Hobbies**)

209-986-5829 9033 Rieti Lane Stockton, CA, 95212

http://stores.whatsuphobby.com/StoreFront.bok



Master List for **Polecat Aerospace** by Name

#21
#26
#4
#13
#23
#6
#1



Master List for Polecat Aerospace by Number

- #1 Patriot MIM-104 (7.5")
- #4 Bullpup (7.5")
- #6 Nike Smoke (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 prebeveled 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:

Unlike other Bullpup kits, the Polecat Aerospace Bullpups have the forward *Mfg. Description:* 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



Face Card(s)

Also of interest:

7.5" Bullpup (#4)



MODEL NAME: 7.

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

Face Card(s)

Also of interest:



5.5" Fat Man (#13)

MODEL NAME: 5.5" Fa

5.5" Fat Man

Also known as:

NUMBER: #13

Introduced: Final Year: Designer:

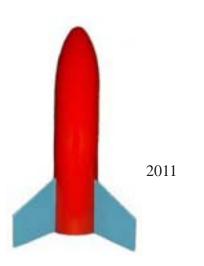
Type: Sport, Upscale Motor Mount: 1x54mm Recovery: Parachute Stages: 1 Length: 27" Diameter: 5.5" Span: Weight: 4.5 pounds

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



Face Card(s)

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 look-ing rocket. With a fiberglass nose cone, pre-fiberglassed and slotted body tubes, and machined BalticBirch 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



922



Face Card(s)

Instruction Header



Also of interest: MIM-104 Patriot Ordnance Family



Pratt Hobbies

Pratt Hobbies 2513 Iron Forge Road Herndon, VA 20171 571-221-5820

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

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(Company Web Statement 2011)
9 2 6
```



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)

Public Missiles, Ltd. 6030 Paver Lane Jeddo, Michigan 48032

810-327-1710 Office (9-5pm EST M-F) 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")

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:



QModeling

QModeling 207 Mill Valley Road Middleburgh, NY 12122

Telephone (518) 827-3107 FAX (518) 827-3007

Sales: tpquinn@qmodeling.com Customer Support: jbquinn@qmodeling.com Web and General: hpwhite@qmodeling.com

http://www.qmodeling.com



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





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 $Estes^{TM}$ 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 wadless 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

N

Quest Aerospace

PO Box 2409 Pagosa Springs, CO 81147-2409

Toll Free 1-800-858-7302 (US Only) Phone: 1-970-264-4050 Fax: 1-970-264-9330 Email: service@questaerospace.com

http://www.questaerospace.com

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

Little Joe (MMX) Striker AGM #5611 #2020



Master List for **Quest** by Number

#2020Striker AGM#5611Little Joe (MMX)



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



Face Card(s)

Also of interest: Little Joe II Launch Vehicle Family

Striker AGM (#2020)



MODEL NAME: Stu

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:

2010

Catalog Liveries

Web Liveries

2011

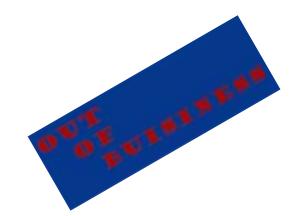
Also of interest: Enertek Astra 2000 Family

944



www.RetroRocketry.com

Retro Rocketry





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





MODEL NAME: Mini Re

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

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

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

Saturn 1B Vostok

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





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

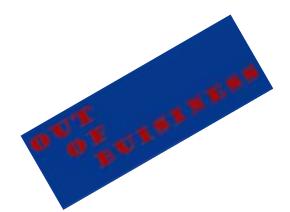
Face Card(s)

Instruction Header

Also of interest: Vostok Launch Vehicle Family



Schoolyard Rockets





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

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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	K V-2	или кено керто
Arcas	KS-8	
Arcon	KV-7	Centuri Retro Repro
Astro-1	KV-30	Centuri Retro Repro
Astron	IXV 50	Centuri Retro Repro
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 (all Variants)		
IQSY Tomahawk	KD-2	Deci Scale
Iris		
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
My Boid		
Nike X		
Orbital Transport	KV-66	Estes 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
Snipe Hunter	KV-51	Centuri Retro Repro
Spaceman		
Squire		
SST Shuttle-1 xKit	XCE-K17	Centuri Retro Repro, xKit
Starfire	KV-20	Centuri Retro Repro
Start	KA-25	
Swift Boost Glider	KV-27	Centuri Retro Repro
Tau Zero		
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
Vector-V	KV-44
VF 261	

xKit Centuri Retro Repro



Master List for **Semroc** by Number

KA-1	ThunderBee	
KA-7	ThunderChief	
KA-8	Texas Firefly	Centuri Upscale
KA-16	ThunderStrike	
KA-22	Mini Explorer	Ready to Build
KA-25	Start	Estes Clone
KA-31	Baby Orion	Centuri Downscale
KD-2	IQSY Tomahawk	Deci Scale
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-12	Centaur	Centuri Retro Repro
KV-14	Lil' Hercules	Centuri Retro Repro
KV-16	Javelin	Centuri Retro Repro
KV-20	Starfire	Centuri Retro Repro
KV-27	Swift Boost Glider	Centuri 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-60	Defender Space Probe	Centuri Retro Repro
KV-66	Orbital Transport	Estes Retro Repro
KV-69	Magnum Hornet	Centuri 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-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

962



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





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





Face Card(s)



Instruction Header



Also of interest: Arcon Sounding Rocket Family, Semroc Centuri Retro Repro Family



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





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



Face Card(s)



Also of interest: Centuri Orion Family

BatRoc (KV-53)



MODEL NAME: BatRoc

tRoc

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





Face Card(s)



Also of interest: Centuri Batroc Family, Semroc Centuri Retro Repro Family

Centaur (KV-12)



MODEL NAME: Cen

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





Also of interest: Centuri Centaur Family, Semroc Centuri Retro Repro Family

Centurion (KV-40)



MODEL NAME: Cent

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







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







Also of interest: Centuri Defender Space Probe Family, Semroc Centuri Retro Repro Family

Excalibur (KV-43)



MODEL NAME: **E**

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







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



Face Card(s)



Also of interest: Estes Goblin Family



Golden Scout (KV-4)

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







Instruction Header



Also of interest: Estes Scout Family, Semroc Estes Retro Repro Family



I.Q.S.Y. Tomahawk (KD-2)

MODEL NAME:

I.Q.S.Y. Tomahawk

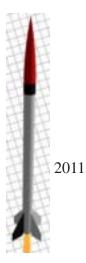
Also known as:

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:







Also of interest: D Region Tomahawk Sounding Rocket Family, Semroc Deci Scale 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)

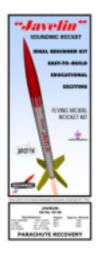
Mfg. Description: 1965 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries







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







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:

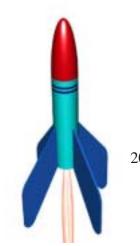
Type: Sport Motor Mount: 1x18mm Recovery: Tumble Stages: 1 Length: 6.5" (16.5 cm) Diameter: 0.759" (1.9 cm) Span: 3.4" (8.6 cm) Weight: 0.3 oz (8.5 g)

Mfg. Description: 1965 Retro Repro (Semroc 2011 Web Ad)

Editorial Note:

Catalog Liveries

Web Liveries







Also of interest: Centuri Lil' Hercules Family, Semroc Centuri Retro Repro Family



Little Joe II (KS-3)

MODEL NAME: Little Joe II

Also k

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







Also of interest: Little Joe II Launch Vehicle Family, Semroc Estes Retro Repro Family



Magnum Hornet (KV-69)

MODEL NAME: Magnum Hornet

lornet

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







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-ReproTM Centuri MarauderTM 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



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







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

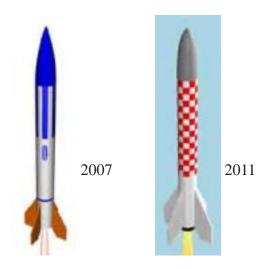
Introduced: Final Year: Designer: Lee Piester

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







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







Also of interest: Centuri Explorer Family, Semroc Ready to Build 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







Instruction Header



Also of interest: Estes Orbital Transport Family, Semroc Estes 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







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







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

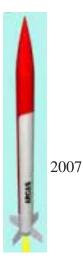
Introduced: 2007 Final Year: Designer:

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







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



10 1 1





Also of interest: Centuri Explorer Family, Semroc SLS Family, Semroc Centuri Retro Repro Family



Snipe Hunter (KV-51)

MODEL NAME: Snipe

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







Instruction Header



Also of interest: Centuri Snipe Hunter Family, Semroc Centuri Retro Repro 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





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





Instruction Header



Also of interest: Centuri Starfire Family, Semroc Centuri Retro Repro Family, Parachute Duration Family



Start (KA-25)

MODEL NAME: Start

Also known as:

NUMBER: KA-25

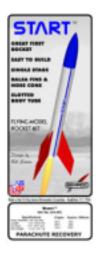
Introduced: 2010 Final Year: Designer:

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:







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

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





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

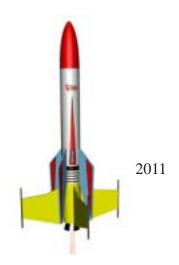
Introduced: 2005 Final Year: Designer:

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







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







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







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







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 xKitTM is updated by using laser-cut fins including both the scale and semiscale 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



1032

2011





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)

1972 Retro Repro (Semroc 2011 Web Ad) *Mfg. Description*:

Editorial Note:

Catalog Liveries







Instruction Header



Also of interest: Centuri Vector V Family, Semroc Centuri Retro Repro Family



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





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 FREE-DOM 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

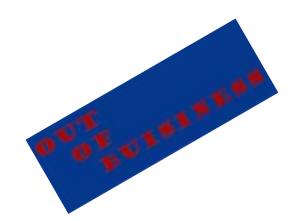


Face Card(s)

Also of interest: Mercury Redstone Launch Vehicle Family



Starlight Model Rockets





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: Hor

Honest John

Also known as:

NUMBER: MN 4353

Introduced: Final Year: Designer:

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



Thrustline Aerospace



Master List for Thrustline by Name

Arapaho E Black Shadow Der Big Red Max Electra Goblin Hank Pumpkin Head Spaceman

TACL-025a

Estes Clone

TACL - 005

Estes Clone

Master List for Thrustline by Number

TACL-025a TACL - 005 Der Big Red Max Goblin

Estes Clone Estes Clone



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

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*:

Mfg. Description:

Catalog Liveries

Web Liveries



Face Card(s)

Also of interest:



U.S. Rockets (USR)

U.S. Rockets Box 1242 Claremont, CA 91711 USA

http://www.usrockets.com/



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: Mo

Mosquito 2.2

Also known as:

NUMBER: #1174

Introduced: Final Year: Designer: Jerry Irvine

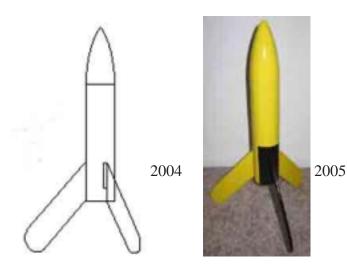
Type: Sport, Upscale Motor Mount: 1x29mm Recovery: Streamer Stages: 1 Length: 17.5" Diameter: 2.25" Span: Weight: 107g

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









Face Card(s)



Instruction Header

Also of interest: Estes Mosquito Family, USR Sport and School Family

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 above 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 information, 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.

Add Madcow Mozzie K-112 Add Estes Mega Mosquito #1335

Add Estes Mosquito #1335

Add Estes Mosquito TK-1

Add LOC 7.5" V2 PK-100

Divide Estes at P

Divide Estes at M

Family

Group

Establish Estes Mosquito Family

Add Leading Edge Micro Goblin LE-05

Establish Leading Edge Marketing Families

Add Madcow Army Hawk MIM-23A Rocket

Establish Leading Edge Micro Classics

<u>12.02</u>

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 Pavloader 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

<u>12.01</u>

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

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 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 statemen 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 Sovuz 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 Madcow Little John Rocket K-157

Establish MGR-3 Little John Ordnance

Add Estes Little John #0819

Add Estes Lucky Seven #0807

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

<u>11.12</u>

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 Jav 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 staten 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 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 Ouest 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

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



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

Manufacturer Web Sites



Cosmodrom Rocketry

31 Jan 2012

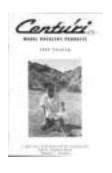
Non MFG Web Sites

Supplements and Other Printed Matter

Catalogs

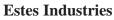


Centuri Engineering



1962







1961