



Oestes rockets

NO CHARGE



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HOW DO I START MY OWN ESTES ROCKET FLEET?

The best way to begin model rocketry is with an Estes flying model rocket starter set. You can either start with a Ready To Fly Starter Set that has a fully constructed model rocket or an E2X® Starter Set that requires assembly prior to launching. Both types of sets come complete with an electrical launch controller, adjustable launch pad, engines, flight supplies and an information booklet to get you out and flying in no time. You'll need four "AA" alkaline batteries and perhaps glue, depending on which set you select.

HOW EASY AND HOW MUCH TIME DOES IT TAKE TO BUILD MY ROCKETS?

Estes model rocket kits range from ready to fly in just minutes to those that provide many enjoyable hours of building fun. Estes kits are classified into six categories.

READY TO FLY (RTF): No paint, glue or modeling skills required. Rocket comes assembled and is ready for lift-off in just

E2X® ROCKET KITS: No paint or special tools needed. E2X® kits contain parts that are colored and easy to assemble. Simply glue the parts together as per the instructions, apply the self-adhesive decals, attach the recovery system and you are ready to blast off! Assembly takes as little as 1 hour.

SKILL LEVEL 1 ROCKET KITS: Requires some painting, gluing and sanding. Features die cut balsa fins, slotted body tubes, plastic nose cones and rub-down decals. Step by step instructions make building very easy. Assembly takes at least an

SKILL LEYEL 2 ROCKET KITS: First tier of more advanced kits. Requires beginner skills in model rocket construction and finishing. Features die cut balsa or plastic fins, plastic nose cones and unfinished body tubes. Assembly time may take a

SKILL LEYEL 3 ROCKET KITS: Second tier of more advanced kits. Requires moderate skills in model rocket construction and finishing. Features multiple die cut balsa fins and parts, unfinished body tubes, complex designs and plastic nose cones. Assembly time may take a couple of days.

SKILL LEYEL 4 ROCKET KITS: The most advanced kit level. Requires high degree of model rocket construction and finishing skills. Features multiple die cut balsa parts, vacuum formed plastic detailing, unfinished body tubes and water soluble decals. Assembly can take several days depending on detail required.

HOW DO ESTES MODEL ROCKETS WORK?

Estes model rockets are activity kits designed of lightweight materials such as paper tubing, balsa wood and plastic. Balsa or plastic fins are glued to the body tube for guidance and stability. A model rocket engine holder is also part of the rocket to keep the engine in place during thrust.

Estes was the first to develop a mass produced model rocket engine and has produced the engines for over 45 years. The Estes model rocket is propelled into the air by an electrically ignited model rocket engine. After its acceleration, the rocket continues upward emitting tracking smoke as it coasts. At the rocket's peak altitude (also called apogee), a recovery device, such as a plastic parachute or streamer, is deployed to return the rocket gently to earth. The rocket can then be prepped for another flight.

FLIGHT SEQUENCE 4 **ALTITUDE &** EJECTION RECOVERY SYSTEM DEPLOYED 3 COAST & TRACKING 2 **ACCELERATION** ELECTRICAL TOUCHDOWN IGNITION & LIFT-OFF

WHERE DO I FLY ESTES MODEL ROCKETS?

The chart on the next page tells you what size field to use for each size engine. Each engine size is designated by a letter and is up to twice as powerful as the letter before it. See the engine section (pages 29-31) of this catalog for more information.

Hydrogen Fuel RocketTH.....35

HOW DID IT ALL GET STARTED?

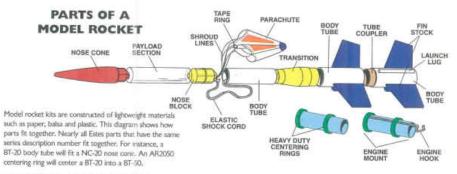
In the mid-1950's when the space age began, flying rockets became very popular. However, there were no safe propellants readily available to launch rockets. In 1958 Vernon Estes developed the first safe mass-produced model rocket engine. The Estes rocket engine was destined to make model rocketry one of the most popular outdoor activities enjoyed today. Estes products have changed with the times and you can see all the exciting rockets, planes and specialty items in this catalog or on the web @ www.estesrockets.com.

WHAT DO I NEED TO KNOW?

In this catalog, each description lists important INFORMATION:

- · Something fun about the rocket.
- · Specifications how tall, wide and heavy.
- · What engines we recommend.
- How high, on the largest engine recommended, the rocket flies (in feet and in meters).
 Maximum altitudes are projections only, your rocket's actual performance may vary.
- . The sort of recovery system that brings the rocket back parachute, streamer or other.
- . The type of fin material plastic, balsa or fiber.

Remember - Estes model rocket kits offer you a wide spectrum of building and flying. Best of all, they are all fun!



PLEASE READ: IMPORTANT STUFF!

Estes model rocketry is recommended for ages 10 years and up. Adult supervision is recommended for those under 12 years of age. Unless otherwise specified all models require assembly. Engines, launch system, glue and finishing supplies are not included with model rocket kits unless specified otherwise.

USE ONLY WITH ESTES PRODUCTS

Caution: Use of any Estes product with any other brand-name rocket product containing any defect or causing any damage may void the Estes warranty.



ESTES WARRANTY

Your Estes product is warranted against defects in materials or workmanship for a period from the date of original purchase. Any Estes product, which, because of a manufacturing mistake, malfunctions or proves to be defective within the period noted in the warranty provided with the product will be repaired or replaced, at Estes' option and at no charge to you, provided it is returned to Estes with proof of purchase.

This warranty does not cover incidental or consequential damage to persons or property caused by the use, abuse, misuse, failure to comply with operating instructions or improper storage of the warranted products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

For repair or replacement under this warranty, please return the defective part of your Estes product with proof of purchase to: Estes Industries, Customer Service Department, 1295 H Street, Penrose, Colorado 81240.

N.A.R.* MODEL ROCKET SAFETY CODE

Effective February 10, 2001

- MATERIALS. I will use only lightweight, non-metal parts for the nose, body, and fins of my rocket.
- MOTORS. I will use only certified, commercially-made model rocket motors, and will not tamper with these motors or use them for any purposes except those recommended by the manufacturer.
- 3. IGNITION SYSTEM. I will launch my rockets with an electrical launch system and electrical motor igniters. My launch system will have a safety interlock in series with the launch switch, and will use a launch switch that returns to the "off" position when released.
- 4. MISFIRES. If my rocket does not launch when I press the button of my electrical launch system, I will remove the launcher's safety interlock or disconnect its battery, and will wait 60 seconds after the last launch attempt before allowing anyone to approach the rocket.
- 5. LAUNCH SAFETY. I will use a countdown before launch, and will ensure that everyone is paying attention and is a safe distance of at least 15 feet (4.6 m) away when I launch rockets with D motors or smaller, and 30 feet (9 m) when I launch larger rockets. If I am uncertain about the safety or stability of an untested rocket, I will check the stability before flight and will fly it only after warning spectators and clearing them away to a safe distance.
- 6. LAUNCHER. I will launch my rocket from a launch rod, tower, or rail that is pointed to within 30 degrees of the vertical to ensure that the rocket flies nearly straight up, and I will use a blast deflector to prevent the motor's exhaust from hitting the ground. To prevent accidental eye injury, I will place launchers so that the end of the launch rod is above eye level or will cap the end of the rod when it is not in use.

- 7. SIZE. My model rocket will not weigh more than 53 ounces (1500 grams) at liftoff and will not contain more than 4.4 ounces (125 grams) of propellant or 71.9 pound-seconds (320 N-sec) of total impulse. If my model rocket weighs more than one pound (453 grams) at liftoff or has more than 4 ounces (113 grams) of propellant, I will check and comply with Federal Aviation Administration regulations before flying.
- 8. FLIGHT SAFETY. I will not launch my rocket at targets, into clouds, or near airplanes, and will not put any flammable or explosive payload in my rocket.
- 9. LAUNCH SITE. I will launch my rocket out-doors, in an open area at least as large as shown in the accompanying table, and in safe weather conditions with wind speeds no greater than 20 miles per hour (32 km/h). I will ensure that there is no dry grass close to the launch pad, and that the launch site does not present risk of grass fires.

LAUNCH SITE DIMENSIONS

Installed Total Impulse	Equivalent Motor Type		Minimum Site Dimensions		
		Feet	Meters		
.00 - 1.25	1/4A, 1/2A	50	15		
1.26 - 2.50	A	100	30		
2.51 - 5.00	8	200	60		
5.01 - 10.00	C	400	120		
10.01 - 20.00	D	500	150		
20.01 - 40.00	E	1,000	300		
40.01 - 80.00	F	1,000	300		
80.01 - 160.00	G	1,000	300		
160.01 - 320.00	Two G's	1,500	450		

- 10. RECOVERY SYSTEM. I will use a recovery system such as a streamer or parachute in my rocket so that it returns safely and undamaged and can be flown again, and I will use only flame-resistant or fireproof recovery system wadding in my rocket.
- RECOVERY SAFETY. I will not attempt to recover my rocket from power lines, tall trees, or other dangerous places.

As a member of the Estes Model Rocketry Program, I promise to faithfully follow all rules of safe conduct as established in the above code.

Signature____

Important Note: "G" engines must be sold to and used by adults (18 and up) only.

Www.nar.org
To launch large model rockets weighing more than one lb. (453 g) including propellant or rockets containing more than 4 oz. (113 g) but no more than 4.4 oz. (125 g) of propellant (net weight), you must notify and perhaps obtain authorization from the Federal Aviation Administration (FAA). Check your telephone directory for the office nearest you or contact Estes® Industries for further information.

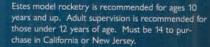
*National Association of Rocketry

ESTES. READY TO FLY STARTER SETS New! ALTITUDE TRACKING CAPSULE! New! UNITED STATES ARMY S **NSA STANSHIP** max Thax"

EVERY STARTER SET INCLUDES LAUNCH EQUIPMENT & FLIGHT SUPPLIES!



4 "AA" Alkaline Batteries required - not include



PRIMIDI

READS TO FLU [RTF] STARTER SETS • Fully constructed and decorated rocket

- · Complete launch system with flight supplies
- · Ready to fly in minutes

INCLUDES FREE KODAK 110 COLOR FILM!

New!

ATF STARTER SETS

MAX TRAX"

Track how high this rocket flies. The Max Trax™ features an electronic altitude-tracking capsule that automatically calculates and displays how high the rocket traveled in feet and meters. SPECS: Length: 17 in. (43.2 cm);

Dia.: 1,35 in. (34.3 mm); Wt.: 2.6 oz. (73.9 g); Recovery: Rocket - 12 in. (30 cm) Parachute; Capsule -Streamer; Fins: Plastic molded;

Max. Altitude: 600 ft. (183 m);

Recommended Engines: B4-2, B6-2, B6-4, C6-3, C6-5

(Includes two engines)



PATRIOT

The Patriot dominates the skies. This classic scale-like model rocket is built ready-to-fly and looks like the genuine surface-

air defense missile used by the U.S. Army, SPECS: Length: 18.0 in. (46 cm); Dia.: 1.35 in. (34.3 mm); Wt.: 2.7 oz. (75 g);

Recovery: 12 in. (30 cm) Parachute;

Fins: Plastic molded;

Max. Altitude: 600 ft. (183 m);

Recommended Engines: A8-3, B4-4, B6-4, C6-5 (Includes two engines)

NSA STARSHIP" "Penrose, we have lift-off!" Explore new worlds with the NSA Starship. Like those launched at the cape, this readyto-fly model rocket soars high into the sky then deploys a parachute to return to earth.

SPECS: Length: 18.0 in. (46 cm);

Dia.: 1.35 in. (34.3 mm); Wt.: 2.7 oz. (75 g);

Recovery: 12 in. (30 cm) Parachute; Fins: Plastic molded;

Max. Altitude: 600 ft. (183 m);

Recommended Engines: A8-3, B4-4, B6-4, C6-

(Includes two engines)

SNAPSHOT"

Take fantastic photos from 500 feet high! The Snapshot™ camera rocket is factory assembled and ready to launch. Includes a FREE roll of Kodak 110 color print film. Film

developing available locally. SPECS: Length: 18.0 In. (46 cm);

Dia.: 1.35 in. (34.3 mm); Wt.: 3 oz. (86.2 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Plastic molded;

Max. Altitude: 500 ft. (152 m);

Recommended Engine: C6-5 ONLY (Includes two engines)



Colors may vary.

ESTES. E2Xº STARTER SETS SPACE MINI SUPER SHOT" SPACE HRULER" FLAG WAVING RECOVERY STREAMER PHOG OLPHO III* Estes model rocketry is recommended for ages 10 years and up. Adult supervision is recommended to those under 12 years of age. Must be 14 to purchase in California or New Jersey. STARS 6

EZX# STARTER SETS • Almost ready to fly rocket

- · Assembled parachute
- · Self-adhesive decals
- · Complete launch system with engines
- · Colored parts

E2X" STARTER SETS

1406 ALPHA III=

Features a bright molded one piece fin unit and nose cone and engines for two fantastic parachute recovered flights.

SPECS: Length: 12.25 in. (31.1 cm);
Dia: 0.98 in. (24.9 mm); Wt.: 1.2 oz. (34 g);
Recovery: 12 in. (30 cm) Parachute;
Fins: One piece plastic molded;

Max, Altitude: 1100 ft. (335 m);

Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7 (Includes two engines)

STARS & STRIPES"

1407

Includes a Red, White and Blue model rocket and a choice between 2 self-adhesive patriotic decals. A special edition, 4 in. x 6 in. Freedom Flag decal is also included to proudly display. SPECS: Length: 17.5 in. (44.5 cm);

Dia.: 1.0 in. (25.4 mm); Wt.: 2.3 oz. (65 g); Recovery: American Flag Streamer;

Fins: Two piece plastic molded;

Max. Altitude: 600 ft. (183 m); Recommended Engines: A8-3, B4-4, B6-4, C6-5, C6-7

(Includes two engines)

MINI SUPER SHOT"

Features two mini-engine powered rockets that can be ready to fly in an hour. Also includes special mini-rocket launch

SPECS: Length: Space BusTM - 5.25 in. (13.3 cm);

Space Hauler™ - 5.38 in. (13.7 cm);

Dia.: Space BusTM - 1.0 in. (25.4 mm); Space HaulerTM - 0.75 in. (19.1 mm); Wt.: Space BusTM - 0.74 oz. (21.2 g); Space HaulerTM - 0.67 oz. (18.9 g)

Recovery: Streamer,

Fins: Plastic molded:

Max. Altitude: Space Bus - 700 ft. (213 m); Space Hauler -760 ft. (231 m);

Recommended Engines: 1/4A3-3T, 1/2A3-4T, A3-4T, A10-3T (Includes two engines)

MEGN MAXX***

The Mega MaxxTM combines the power of the over two-foot tall GoliathTM with the speed of the SpitfireTM. The easy to assemble Goliath™ flies to 500 feet while the simple to build Spitfire™ screams to 900 feet! (Includes two engines) **GOLIATH™**

Skill Level: E2X®

SPECS: Length: 28 in. (71.1 cm); Dia.: 1.34 in. (34 mm); Wt.: 3 oz. (85 g);

Recovery: 18 in. (46 cm) Parachute;

Fins: Plastic molded:

Max. Altitude: 500 ft. (152 m);

Recommended Engines: B4-2, B4-4, B6-2, B6-4, C6-3, C6-5

SPITFIRE SSITH

Skill Level: 1

SPECS: Length: 16.25 in. (41.3 cm); Dia.: 0.98 in. (24.9 mm); Wt.: 1.7 oz. (48 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 900 ft. (274 m); Recommended Engines: 1/2A6-2, A8-3, B4-4, B6-4, B6-6,

C6-5, C6-7 (Includes two engines)



Colors may vary.







READY TO FLY (RTF) ROCKETS

Travel out of this world with this hot, neon colored flying saucer. This RTF alien space ship comes fully assembled and decorated. SPECS: Dia.: 7.75 in. (19.7 cm); Wt.: 2.1 oz. (59 g);

Recovery: Spring Action; Max. Altitude: 120 ft. (37 m); Recommended Engines: B6-0, C6-0

CRUISE MISSILE"

158417

Imagine the thrill of launching this realistic model of America's most potent strategic weapon. Ready to fly in just minutes. SPECS: Length: 9.0 in: (22.9 cm);

Dia.: 1.0 in. (25.4 mm); Wt.: 1.4 oz. (40 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Plastic molded;

Max. Altitude: 200 ft. (61 m);

Recommended Engines: A3-4T, A10-3T

E2X* ROCKET KITS

BANDITO"

The high-flying Bandito™ sport rocket can be easily assembled in under an hour. Includes pre-colored slotted body tube and plastic parts and screams into the sky on mini-engines.

SPECS: Length: 11.2 in. (28.4 cm);

Dia.: 0.736 (18.7 mm); Wt.: 0.60 oz. (17 g);

Recovery: 12 in. (30 cm) Parachute; Fins: Plastic molded;

Max. Altitude: 600 ft. (183 m):

Recommended Engines: 1/4A3-3T, 1/2A3-2T, A3-4T, A10-3T

FIREHRUK"

The FirehawkTM is a high performance, quick-to-build rocket that streaks over 500 feet high on mini-engines. Includes pre-colored body tube and plastic parts. Builds in less than 30 minutes. SPECS: Length: 11.2 in. (28.4 cm):

Dia.: 0.736 (18.7 mm); Wt.: 0.65 oz. (18.4 g); Recovery: 12 in. (30 cm) Parachute; Fins: Plastic molded;

Max. Altitude: 550 ft. (168 m);

Recommended Engines: 1/4A3-3T, 1/2A3-2T, A3-4T, A10-3T

FIRESTREAK SST"

An Estes original! The first-ever snap together rocket. No fuss, no muss, simply snap the Firestreak SSTTH together and get out and launch this hot looking rocket in minutes.

SPECS: Length: 10.2 in. (26 cm); Dia.: 0.885 (22.5mm); Wt.: 1.14 oz. (32.3 g);

Recovery: Streamer; Fins: Plastic molded;

Max. Altitude: 350 ft. (107 m);

Recommended Engines: 1/2A3-2T, A3-4T, A10-3T

X-RINH"

Carry cargo through the air with the X-RayTM! The X-RayTM features a clear payload tube that allows you to launch cargo into the air and return it back to earth. Perfect for science experiments. Colored, one piece fin unit for a quick assembly. SPECS: Length: 14.8 in. (37.6 cm);

Dia.: 0.74 in. (18.8 mm); Wt.: 0.6 oz. (17 g);

Recovery: Streamer; Fins: One piece plastic molded; Max. Altitude: 500 ft. (152 m);

Recommended Engines: 1/2A3-2T, A3-4T, A10-3T

Eye-dazzling, chrome rocket soars to heights of 800 ft. (244 m). The Gnome™ comes with a colored one piece fin unit for quick assembly. Be ready to launch in less than an hour. SPECS: Length: 10.3 in. (26.0 cm);

Dia.: 0.54 (13.8 mm); Wt.: 0.4 oz. (12 g);

Recovery: Streamer;

Fins: One piece plastic molded:

Max. Altitude: 800 ft. (244 m); Recommended Engines: 1/2A3-2T, 1/2A3-4T, A3-4T,



SIESTES EZXº ROCKET KITS

CLASSIC DESIGN & EASY TO BUILD

FRERNS FLUER"

min mennie"

Sky Writer

CIENTS)

2 9

IIIL 2 ESTES SHU MIDITER

Colors may vary.

BLUE

nınja

EOSIMIE

COBRA"



E2X* ROCKET KITS

mini mennie"

Get out of the way...the Mini MeanieTM is tearing up the sky. It soars up to 700 ft. (213 m). The Mini MeanieTM comes with a colored nose cone and body halves, so no painting is required. SPECS: Length: 5.25 in. (13.3 cm);

Dia.: 1.0 in. (25.4 mm); Wt.: 0.74 oz. (21.2 g);

Recovery: Streamer; Fins: Plastic molded;

Max. Altitude: 700 ft. (213 m);

Recommended Engines: 1/4A3-3T, 1/2A3-4T, A3-4T,

FRERKY FLYER"

This "Freaky" mini-engine rocket has an eye-catching look to it. It blasts to 750 ft. (228 m). The Freaky FlyerTM comes with a colored nose cone and body halves, so it can be ready in under an hour.

SPECS: Length: 5.38 in. (13.7 cm); Dia.: 0.75 in. (19.1 mm); Wt.: 0.67 oz. (18.9 g)

Recovery: Streamer:

Fins: Plastic molded; Max. Altitude: 750 ft. (228 m);

Recommended Engines: 1/4A3-3T, 1/2A3-4T, A3-4T, A10-3T

ALPHA III*

The very first Estes E2X® rocket! One piece fin unit for easy construction. Millions have started with this classic design.

SPECS: Length: 12.3 in. (31.1 cm); Dia.: 0.98 in. (24.8 mm); Wt.: 1.2 oz. (34 g);

Recovery: 12 in. (30 cm) Parachute;

Fins: One piece plastic molded; Max. Altitude: 1100 ft. (335 m);

Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7

NO. 2 ESTES SKY WRITER"

This fun rocket looks like a wooden pencil. It "sky writes" up to 1100 ft. (335 m) in the air. The No. 2 Estes Sky WriterTH comes with colored body tubes, fins and nose

cone, so assembly is quick and easy.

SPECS: Length: 26 in. (66 cm);

Dia.: 0.98 in. (24.8 mm); Wt.: 1.5 oz. (41.3 g);

Recovery: 12 in. (30 cm) Parachute;

Fins: One piece plastic molded; Max. Altitude: 1100 ft. (335 m);

Recommended Engines: A8-3, B4-4, B6-4, C6-5

cosmic cobra ...

The Cosmic Cobra™ features a two-way recovery system. The booster returns to earth using a 12 in. (30 cm) parachute, while the nose cone helicopters down gently using rotor blades.

SPECS: Length: 19.5 in. (49.5 cm);

Dia.: 1.35 in. (34.3 mm); Wt.: 3.1 oz. (88 g); Recovery: Booster - 12 in. (30 cm) Parachute; Nose Cone -

Helicopter;

Hins: Two piece plastic molded; Max. Altitude: 530 ft. (162 m); Recommended Engines: B4-2, B6-2, B6-4, C6-3, C6-5

BLUE NINJA"

The Blue NinjaTH is the biggest rocket in the E2X® class! It is over 30 in. (76.2 cm) tall and is powered by a "C11" or "D" engine. The Blue NinjaTM comes with shiny blue prismatic body tubes and colored fins and nose cone. SPECS: Length: 31.3 in. (79.5 cm); Dia.: 1.64 in. (41.6 mm); Wt.: 5.1 oz. (145.4 g);

Recovery: 18 in. (46 cm) Parachute;

Fins: Plastic molded;

Max. Altitude: 780 ft. (238 m);

Recommended Engines: C11-3, D12-3 Requires 3/16" (5 mm) Maxi[™] launch rod (302244) -

sold separately.

ALPHA III*

Estes model rocketry is recommended for ages 10 years and up. After super-solution accommended for those under 12 years of age.



AIR FORCE

E2X® POCKET KITS



AGM-57X HERTSEEKER"



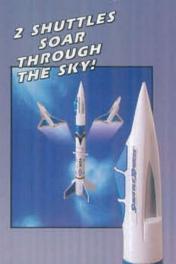
CHROME DOMES"

MACKE

MIGGLER-

CHROME DOMES SILVER SERIES

Estes model rocketry is recommended for ages 10 years and up. Adult supervision is recommended.







Colors may vary.



EZX" NOCKET KITS

AGM-57X HEATSEEKER"

Defend your neighborhood with this air-to-air missile. No painting required. The AGM-57X Heatseeker™ can be ready to fly in under an hour,

SPECS: Length: 18.6 in. (47.2 cm);
Dia.: 1.0 in. (25.4 mm); Wt.: 1.9 oz. (55 g);
Recovery: 12 in. (30 cm) Parachute;
Fins: Plastic molded;

Max. Altitude: 800 ft. (244 m); Recommended Engines: A8-3, B4-4, B6-4, B6-6, C6-5, C6-7

CHROME DOMES" SILVER SERIES

2180

Look at this rocket shine! Chrome Domes™ - Silver Series rockets feature silver chrome plated fins and nose cone. The body tube comes in a variety of prismatic colors (each color sold separately).

SPECS.: Length: 18 in. (45.7 cm); Dia.: 1.35 in. (34.3 mm); Wt.: 2.7 oz. (75 g); Recovery: 12 in. (30 cm) Parachute:

Fins: Two piece plastic molded; Max. Altitude: 600 ft. (183 m);

Recommended Engines: A8-3, B4-4, B6-4, C6-5

CHROME DOMES" GOLD SERIES

2181

Catch some attention! Chrome Domes™ - Gold Series rockets feature gold chrome plated fins and nose cone. The body tube comes in a variety of prismatic colors (each color sold separately).

SPECS.: Length: 18 In. (45.7 cm);

Dia.: 1.35 in. (34.3 mm); Wt.: 2.7 oz. (75 g); Recovery: 12 in. (30 cm) Parachute; Fins: Two piece plastic molded;

Max. Altitude: 600 ft. (183 m); Recommended Engines: A8-3, B4-4, B6-4, C6-5

WACKY WIGGLER"

Wacky Wiggler™ launches like a standard rocket, but comes down in a whole new way. The prismatic body sections separate and the entire rocket "wiggles" its way back to earth. This wacky recovery rocket can fly over 1000 ft. (305 m).

SPECS: Length: 17.75 in (45.1 cm); Dia.: 1.1 in. (27.9 mm); Wt.: 2.0 oz. (56.5 g);

Recovery: Break-apart; Fins: Plastic molded;

Max. Altitude: 1040 ft. (317 m);

Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4,

SHUTTLE XPRESS"

New wave of fighter technology. The Shuttle Xpress™ carries two fighter shuttles to battle. At apogee, it releases the two fighter shuttles that glide back to earth. The booster is recovered by a 12 in. (30 cm) Parachute. SPECS.: Length: 17.69 in. (44.9 cm);

Dia.: 1.35 in. (34.3 mm); Wt.: 3.2 oz. (89.7 g); Recovery: Booster - 12 in. (30 cm) Parachute; Shuttles -

Glider:

Fins: Plastic molded;

Max. Altitude: 586 ft. (179 m);

Recommended Engines: B4-2, B4-4, B6-2, B6-4, C6-3, C6-5



SKILL LEVEL I ROCKET KITS

Mini-engine powered mighty mite. With incredibly simple construction (only seven parts), a little spray paint and decals, and whoosh - out-a-sight flights to 700 ft. (213 m). Quick featherweight recovery for this micro rocket. SPECS: Length: 5.2 in. (13.2 cm); Dia.: 0.54 in. (13.7 mm); Wt.: 0.1 oz. (3 g):

Recovery: Featherweight:

Fins: Die cut balsa; Max. Altitude: 700 ft. (213 m);

Recommended Engines: 1/4A3-3T, 1/2A3-4T, A3-4T,

220 SWIFT"

DELLA

This fun and easy to build "itty-bitty" rocket really scoots through the sky. The 220 SwiftTM is sleek and launches on mini-engines then tumbles back to earth.

SPECS: Length: 4.5 in. (11.4 cm);

Dia.: 0.54 in. (13.7 mm); Wt.: 0.094 oz. (2.7 g); Recovery: Featherweight:

Fins: Die cut balsa;

Max. Altitude: 750 ft. (260 m):

Recommended Engines: 1/4A3-3T, 1/2A3-4T, A3-4T, A10-3T

nl.Phn=

For over 36 years, the Alpha® has been the first choice for millions of rocket modelers. Easy to build, rugged high performance, parachute recovery - the perfect rocket to get you

SPECS: Length: 12.3 in. (31.2 cm);

Dia.: 0.98 in. (24.9 mm); Wt.: 0.8 ez. (23 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa:

Max. Altitude: 1000 ft. (305 m);

Recommended Engines: 1/2A6-2, AB-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7

BABY BEATHA"

A miniature version of one of the most popular kits of all time, the Big Bertha®. The Baby Bertha™ soars to 575 ft.

SPECS: Length: 12.75 in. (32.4 cm);

Dia.: 1.64 in. (41.6 mm); Wt.: 1.6 oz. (45.3 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 575 ft. (175 m);

Recommended Engines: A8-3, B4-4, B6-4, C6-5

No tricks here - the Wizard™ is an easy to build high-performance kit. A great first or second kit that promises real excitement and fun!

SPECS: Length: 12 in. (30.5 cm);

Dia.: 0.74 in. (18.8 cm); Wt.: 0.4 oz. (12 g);

Recovery: Streamer;

Fins: Die cut balsa:

Max. Altitude: 1500 ft. (457 m);

Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7

STORMCASTER"

1301

Go big on a small budget! Powered by the "C11" engine. this big rocket can also be used with a "D" engine. The StormCaster™ is over 30 in. (76.2 cm) tall. It flies up to 930 ft. (283 m).

SPECS: Length: 30.25 in. (76.8 cm);

Dia.: 1.64 (41.6 mm); Wt.: 2.9 oz. (80.8 g); Recovery: 18 in. (46 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 930 ft. (283 m);

Recommended Engines: C11-3, C11-5, D12-5 Requires 3/16 in. (5 mm) MaxiTM launch rod (302244) -

sold separately.





Estes-Cox Corporation



ESTES 2004 RETAIL PRICE LIST



Prod. No.	Description		Price
	SPECIALTY	1121	
1854	Jet Stix™ Air Powered Glide	er :	10.99
1876	Hydrogen Fuel Rocket™	New	49.99
4014	Flight Master® Raven™ Pla	пе	7.99
4016	Flight Master® Condor™ Pla	ane	7.99
4110	Sky Rangers® R/C Jet	New	99.99
4115	Sky Rangers® Pee Wee Fly	er New	39.99
8300	Kick Dis™ Power Puck		49.99
9117	Spicy Wings™ Electric Plane	e Asst.	18.49
	ESTES AIR™ ROCKE	ET SETS	3
1877	HL-X150™		39.99
1880	GL-X200™		43.99
R	OCKET POWERED RA	ACE SE	TS
2040	Red Menace Dragster (*)	New	29.99
2041	Blue Storm Dragster (*)	New	29.99
2042	Green Mantis Dragster (*)	New	29.99
2046	Drag-On Tuner (**)	New	29.99
2047	Gearzilla Tuner (**)	New	29.99
2048	Slammurai Tuner (**)	New	29.99
M	ODEL ROCKET STAR	TER SE	TS
1406	1406 Alpha III™		19.99
1407	Stars & Stripes ^{1M}		31.49
1431	Mini Super Shot™		18.89
1434	MaxTrax™		41.99
1474	Mega Maxx [™]		39.44
1825	Patriot TM		29.99
1827	Starship™		29.99
1848	Snap Shot™	New	39,99
MIN	II-ENGINE MODEL RO	CKET	KITS
0802	Quark TM		4,79
0803	Bandito™	New	5.99
0804	Firehawk™	New	5.99
0806	Firestreak SST TM	New	5.99
0810	220 Swift™	New	3.49
0834	X-Ray™		7.69
0886	Gnome™		7.69
1202	Mini Meanie™		3.99

Prod. No.		Price	
MIN	II-ENGINE MODEL ROCKET K	(ITS (cont	inued)
1203	3.99		
1847	Cruise Missile TM		12.59
STANE	OARD AND D ENGINE MOD	EL ROC	KET KIT
1225	Alpha®		10.99
1256	Alpha III®		14.29
1260	No. 2 Estes Sky Writer™		7.69
1261	Baby Bertha™		6,59
1262	Cosmic Cobra™		8,99
1292	Wizard™		7.69
1295	Mean Machine™		24.99
1300	Blue Ninja™		14.29
1301	StormCaster™ -		12.59
1302	CC Express™		13.29
1380	Phoenix [™]		31.49
1381	Yankee™		7.69
1382	Comanche-3™		18.69
1807	Snitch TM		12.59
1942	SR-71 Blackbird™	New	17.99
1948	Big Bertha®		16.29
1949	Viking ^{tia}		7.29
1960	Nova Payloader™		16.79
2053	GBU-24 Paveway III™	New	10.99
2054	Python 4 ASRAAM™	New	10.99
2055	BLU-97B Cluster Bomb™	New	10.99
2056	U.S. Army Patriot M-104	New	10.99
2075	A.R.V. Condor™		18.89
2092	Mongoose TM		14.29
2109	Renegade™	New	14.99
2110	Outlander™	New	19.99
2136	Gemini DC™		16.79
2139	Fat Boy™		16.79
2157	Apollo 11 Saturn V		99.99
2158	AGM-57X Heatseeker™		13.69
2162	Big Daddy™		25,79
2167	Mercury Redstone		30.49
2170	Star Dart™		10.49

ESTES 2004 RETAIL PRICE LIST



Prod. No.	Description					
STAND	ARD AND D ENGINE MODEL	ROCKET KITS (co	intinued)			
2171	Sizzler®					
2172	Monarch TM		14.29			
2175	Nemesis™		15:29			
2178	Hi-Flier™		5,29			
2179	Guardian™		10.49			
2180	Chrome Domes™ Silver	Series	10.49			
2181	Chrome Domes™ Gold S	Series	10.49			
2182	Wacky Wiggler™		12.59			
2183	Shuttle Xpress™		13.69			
2184	Meteor Masher™		13.69			
2185	Screamin' Mimi™		13.69			
7000	Bull Pup 12D™		13.69			
DAN	DE ENGINE MODE	EL ROCKET	KITS			
1950	Eliminator™	- O H-	24.29			
1951	Executioner TM		43.99			
1952	V-2					
	ODEL ROCKET R	/C GLIDER	S			
2201	T-25 Centurian™		139.99			
N	ODEL ROCKET M	INI-ENGINE	S			
1502	1/4A3-3T	(4-each)	6.59			
1503	1/2A3-2T	(4-each)	6.59			
1504	1/2A3-4T	(4-each)	6.59			
1505	A10-PT Race Car Engine	New (4-each)	6,59			
1507	A3-4T	(4-each)	6.59			
1511	A10-3T (4-each)					
MODE	L ROCKET STANDAR	D AND D EN	GINES			
1593	1/2A6-2	(3-each)	6.59			
1598	A8-3	(3-each)	6.59			
1599	A8-5	6.59				
1601	B4-2	7.09				
1602	B4-4	7.09				
1605	B6-2	B6-2 (3-each)				
1606	B6-4	(3-each)	7.09			
1607	B6-6	(3-each)	7,09			
1608	B6-0	(3-each)	7.09			

Prod. No.	Description	Price	
MODE	EL ROCKET STANDARD AND D	ENGINES (con	tinued)
1613	C6-3	(3-each)	7,79
1614	C6-5	(3-each)	7.79
1615	C6-7	(3-each)	7.79
1616	C6-0	(3-each)	7.79
1621	C11-0	(3-each)	9.59
1622	C11-3	(3-each)	9.59
1623	C11-5	(3-each)	9.59
1624	C11-7	(3-each)	9.59
1665	D12-0	(3-each)	11.49
1666	D12-3	(3-each)	11.49
1667	D12-5	(3-each)	11,49
1668	D12-7	(3-each)	11,49
1669	D11-P	(3-each)	11.49
1672	Blast-Off® Flight Pack	(24 pk)	49.99
	MODEL ROCKET E	ENGINES	
1673	E9-4 #	(3-each)	16.49
1674	E9-6	(3-each)	16.49
1675	E9-8	(3-each)	16.49
1676	E9-P	(3-each)	16.49
MODE	EL ROCKET ACCES	SORIES/P	ARTS
1463	Designer's Special™		57,79
2230	E™ Launch Controller		29.99
2234	Command Control ²⁵⁸ Launch C	Controller	54.99
2238	Porta-Pad® E Launch Pad	1	29,99
302215	Porta-Pad® II Launch Pad		23.99
302220	Electron Beam® Launch C	Controller	26.99
302227	Tube Marking Guide		8.99
302232	AltiTrak™ Altitude Tracker		23.99
302233	Emergency Repair Kit		11.59
302241	Blast Defector Plate		5.29
302243	1/8" Two-Piece Launch Ro	10,79	
302244	3/16" Two-Piece Maxi™ Ro	od	12.99
302264	12" Parachute		5.29
302267	18" Parachute		5.99
302271	24" Parachute		6.29
302274	Recovery Wadding		4,49

ESTES 2004 RETAIL PRICE LIST



Prod. No.	Description	Price Each	
MODE	ROCKET ACCESSORIES/	PARTS (con	tinued)
302278	Shock Cords & Mount Pack		3.89
302301	Model Rocket Igniters	(6 pk)	4.49
302320	Launch Lug Pack	(14 Asst.)	5,59
303084	BT-5 Body Tube	(4 pk)	5,79
303085	BT-20 Body Tube	(4 pk)	6.59
303086	BT-50 Body Tube	(3 pk)	6.59
303087	BT-55 Body Tube	(3 pk)	7.39
303089	BT-60 Body Tube	(3 pk)	8.19
303090	BT-80 Body Tube	(2 pk)	8.19
303143	Engine Hook Accessory Pa	ck (6 Asst.)	4.79
303158	Regular Engine Mount Kit		7.39
303159	D & E Engine Mount Kit		9.29
303160	NC-5 Nose Cone	(5 pk)	8.19
303161	NC-20 Nose Cone	(4 pk)	8.19
303162	NC-50 Nose Cone	(5 pk)	8.19
303163	NC-55 Nose Cone	(4 pk)	9.99
303164	NC-56 Nose Cone	(4 pk)	8.19
303165	NC-60a Nose Cone	(4 pk)	8.19
303168	NC-80b Nose Cone	(1 pk)	5.79
303196	Large Tube Coupler Pack	(7 Asst.)	8.19

Prod. No.	Description	8	Price Each
	EDUCATOR BU	LK PACKS	
1750	Gnome™	(12 pk)	52,89
1751	Alpha III®	(12 pk)	98.29
1754	Wizard™	(12 pk)	58.79
1755	Viking™	(12 pk)	48.69
1756	Alpha ⊗	(12 pk)	82.29
1764	Generic E2X®	(12 pk)	88.19
1778	Estes Air™ Rocket	(30 pk)	185.99
1791	Polaris™	(12 pk)	89.99
1781	A8-3 Engines	(24 pk)	52.19
1783	B6-4 Engines	(24 pk)	53.29
1784	B6-0/B6-6 Engines	(12 ea. per pk)	59.99
1788	1/2A3-4T Engines	(24 pk)	42.99
1789	C6-5 Engines	(24 pk)	61.99

PRICES SUBJECT TO CHANGE WITHOUT NOTICE. QUANTITIES OF SOME PRODUCTS ARE LIMITED.

(*) Sold as the 9114 Assortment (**) Sold as the 9115 Assortment 30 Prefix = Product has English, French and German packaging and instructions.

Estes-Cox Corp. is an equal opportunity employer.

BLU-978 CLUSTER BOMB" VETERAN! U.S. ARMY U.S. ARITUS PHIMUT M-109

SKILL LEVEL I ROCKET KITS

A rocket with Alf-American performance - screams to 1400 ft. (427 m) altitude! Comes with cool self-adhesive decals, for that red, white and blue look.

SPECS: Length: 11 in. (27.9 cm); Dia.: 0.74 in. (18.8 mm); Wt.: 0.4 oz. (12 g);

Recovery: Streamer: Fins: Die cut balsa:

Max. Altitude: 1400 ft. (427 m); Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7

BIG BERTHR

Burly, big and beautiful! Over the decades this is the first big (two feet tall) rocket for many modelers. Slow, realistic lift-offs from this true classic. SPECS: Length: 24 in. (61 cm);

Dia.: 1.64 in. (41.6 mm); Wt.: 2.2 oz. (62 g);

Recovery: 18 in. (46 cm): Fins: Die cut balsa:

Max. Altitude: 500 ft. (152 m);

Recommended Engines: 84-2, 84-4, 86-2, 86-4, C6-5

Fantastic rocket with 48 possible fin configurations. Features die cut card fins, decals and streamer recovery. Super high

SPECS: Length: 12.1 in. (30.7 cm);

Dia.: 0.74 in. (18.8 mm); Wt.: 0.6 oz. (17 g); Recovery: Streamer;

Fins: Die cut card;

Max. Altitude: 1470 ft. (448 m):

Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7

nova Pauloadea"

Clear payload capsule, lightweight design with balsa fins and high altitude performance combine to make this a great

cargo carrying rocket! SPECS: Length: 21.1 in. (53.6 cm);

Dia.: 0.98 in. (24.9 mm); Wt.: 1.3 oz. (38 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa:

Max. Altitude: 1000 ft. (305 m);

Recommended Engines: A8-3, B4-4, B6-4, C6-5

BLU-978 CLUSTER BOMB"

Bombs away with the BLU-97B Cluster Bomb™! Drops four cluster bombs in flight. This is a 1:6.4 scale replica of the U.S. Air Force anti-armor/anti-personnel weapon.

SPECS: Length: 14.4in. (36.6 cm); Dia.: 2.217 in. (56.3 mm); Wt.: 3.1 oz. (86.9 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 390 ft. (119 m);

Recommended Engines: B4-2, B6-2, C6-3

U.S. ARMY PRIRIOT M-104 2056

A classic 1:10 scale model rocket of the desert hero and mother of all air defense missiles. Based on the U.S. Army's M-104 surface-air missile. Blasts 600 feet high!

SPECS: Length: 21.3in. (54.1 cm); Dia.: 1.637 in. (41.6 mm); Wt.: 1.95 oz. (55 g);

Recovery: 12 in. (30 cm) Parachute: Fins: Die cut balsa;

Max. Altitude: 600 ft. (183 m);

Recommended Engines: A8-3, B4-4, B6-4, C6-5



SKILL LEVEL I ROCKET KITS

mongoose **

Perfect first two-stage rocket! Super quick to build with high altitude performance - over 1600 ft. (488 m)!

altitude performance - over 1600 ft. (488 m)!
SPECS: Length: 26.5 in. (67.3 cm);
Dia.: 0.98 in. (24.9 mm); Wt.: 2.3 oz. (65 g);
Recovery: Booster-Tumble; Main Stage-Streamer;
Fins: One piece plastic moided;
Max. Altitude: 1600 ft. (488 m);
Recommended Engines: Single Stage - A8-3, B4-4, B6-4, C6-5; Two Stage: Booster - B6-0, C6-0; 2nd Stage - A8-5, B6-6, C6-7

FAT BOS"

Fat Boy™...and proud of it! Bullets its way to over 300 ft. (91 m) in altitude and recovers with a parachute. SPECS: Length: 12.9 in. (32.8 cm);

Dia.: 2.6 in. (66 mm); Wt.: 3.0 oz. (85 g); Recovery: 18 in. (46 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 325 ft. (99 m); Recommended Engines: B4-2, B6-2, C6-3

STAR DART"

2170

This rocket flies through the air with amazing speed! It can hit altitudes over 2000 ft. (607 m)! SPECS: Length: 12.75 in. (32.4 cm);

Dia.: 0.74 in. (18.8 mm); Wt.: 1.0 oz. (27.2 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa:

Max. Altitude: 2010 ft. (613 m);

Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7

SIZZLER*

Burn up the sky with the Sizzler®! This rocket scorches through the atmosphere with flights over 2000 ft. (607 m)! SPECS: Length: 11.75 in. (29.8 cm);

Dia.: 0.74 in, (18.8 mm); Wt.: 0.8 oz. (23.8 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 2040 ft. (622 m); Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4. B6-6, C6-5, C6-7

The MonarchTM has a unique fin configuration that gives extra stability during flight. This regal rocket flies over 1200 ft. (366 m).

SPECS: Length: 17.25 in. (43.8 cm);

Dia.: 0.98 in. (24.9 mm); Wt.: 1.8 oz. (49.6 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa:

Max. Altitude: 1225 ft. (373 m); Recommended Engines: A8-3, B4-4, B6-4, C6-5

HI-FLIER"

Keep an eye on this one! The Hi-Flier® rocket is a high altitude rocket. It soars over 1600 ft. (488 m), and is recovered by a bright orange streamer.

SPECS.: Length: 12 in. (30.5 cm); Dia.: 0.74 in. (18.8 mm); Wt.: 0.82 oz. (23.2 g);

Recovery: Streamer;

Fins: Die cut balsa;

Max. Altitude: 1690 ft. (515 m);

Recommended Engines: 1/2A6-2, A8-3, A8-5, 84-4, B6-4, C6-5, C6-7



SMILL LEVEL 2 ROCKET KITS

MEAN MACHINE"

Over six ft, (1.8 m) of rocket with kick-in-the-pants "D" power to boot. Its long, lean looks and great soaring flights make this one of our most popular rockets. SPECS: Length: 78.8 in. (200.2 cm);

Dia.: 1.64 in. (41.7 mm); Wt.: 5.8 oz. (164 g); Recovery: 24 in. (61 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 600 ft. (183 m); Recommended Engines: D12-5 ONLY

Requires 3/16 in. (5 mm) MaxiTM launch rod (302244) - sold separately.

CC EXPRESS"

The CC Express™ is a high-flying, two-stage rocket powered by "C11" engines. It can also be flown using "D" engines. It soars to 1790 ft. (546 m) in the air.

SPECS: Length: 28.38 in. (72.1 cm); Dia.: 1.33 in. (33.7 mm); Wt.: 2.7 oz. (75.3 g); Recovery: 18 in. (46 cm) Parachute;

Fins: Die cut balsa; Max. Altitude: 1790 ft. (546 m);

Recommended Engines: Single Stage - C11-5, D12-5; Two-Stage: Booster - C11-0, D12-0; 2nd Stage - C11-5, C11-7, D12-7

Requires 3/16 in. (5 mm) MaxiTM launch rod (302244) - sold separately.

GBU-24 PAVELING III"

The GBU-24 Paveway IIITM is a 1:8 scale rocket modeled after the laser-guided smart bomb used by the U.S. Air Force and Navy. Includes authentic decals and flies over 600 feet high! SPECS: Length: 21.3 in. (54.1 cm); Dia.: 1.325 in. (33.7 mm); Wt.: 2.3 oz. (65.5 g);

Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 665 ft. (203 m); Recommended Engines: A8-3, B4-2, B4-4, B6-2, B6-4, C6-3, C6-5

The Python 4th is 1:5 scale version of the fourth generation Advanced Short Range Air-Air Missile. Includes realistic decals and flies 500 feet into the sky!

SPECS: Length: 24 in. (61 cm); Dia.: 1.325 in. (33.7 mm); Wt.: 2.8 oz. (79.3 g); Recovery: 12 in. (30 cm) Parachute;

Fins: Die cut balsa;

Max. Altitude: 500 ft. (152 m); Recommended Engines: B4-2, B4-4, B6-2, B6-4, C6-3, C6-5

A.R.V. CONDOR"

Atmospheric research vehicle of the next century! At apogee, two drones detach for a gliding return to Earth, Booster returns on a streamer. SPECS: Booster Length: 18.5 in. (47.0 cm);

Drone Length: 6.1 in. (15.5 cm); Booster Dia.: 0.98 in. (24.9 mm);

Drone Wingspan: 10.8 in. (27.4 cm); Booster Wt.: 1.1 oz. (32 g):

Drone Wt.: 0.5 oz. (14 g); Recovery: Drones-Glider; Booster-Streamer;

Fins: Die cut balsa;

Max. Altitude: 700 ft. (213 m); Recommended Engines: B4-2, B6-2, C6-3

GEMINI NC"

Twin parachutes are rear-ejected from the side pods on this stunning rocket. A great flier! A unique rocket!
SPECS: Length: 21.5 in. (54.6 cm);
Dia: 0.98 in. (24.9 mm); Wt.; 3.4 oz. (95 g);
Recovery: Dual 12 in. (30 cm) Parachutes;

Fins: Die cut balsa:

Max. Altitude: 800 ft. (244 m);

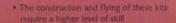
Recommended Engines: 84-2, 84-4, 86-2, 86-4, C6-3, C6-5





РНОЕПІХ"

SKILL LEVEL 3 ROCKET KITS



- . Assembly may take a couple of days
- * Engines and Launch equipment-sold separately

SCALE MODEL OF THE WORLD'S FASTEST JET!

SR-71 BLACKBIRD"

COMRACHE-3™



SKILL LEVEL 3 ROCKET KITS

PHOEDIX"

Huge 1/9th semi scale model of the AIM-54 air-to-air Phoenix missile, "D" engine powered. SPECS: Length: 30 in. (76.2 cm);

Dia.: 2.6 in. (66 mm); Wt.: 6.6 oz. (187 g); Recovery: 18 in. (46 cm) Parachute;

Fins: Die cut balsa:

Max. Altitude: 350 ft. (107 m);

Recommended Engines: D12-3 ONLY. Requires 3/16 in. (5 mm) Maxi[™] launch rad (302244) - sold separately.

COMPACHE-3"

A "D" engine powered booster stage rocket that roars to ultra high altitudes - over half a mile (805 m) high!

SPECS: Length: 41 in. (104.1 cm);

Dia.: 0.98 in. (24.9 mm); Wt.: 2.1 oz. (59 g);

Recovery: Booster-Tumble; Main Stage-Two Streamers;

Fins: Die cut balsa:

Max. Altitude: 2660 ft. (811 m):

Recommended Engines: Single Stage Flights - A8-3, B4-4, B6-4, C6-5; Three Stage Flights - Booster: C11-0, D12-0; Second Stage: B6-0, C6-0; Third Stage: B6-6, C6-7. Requires 3/16 in. (5 mm) Maxi™ launch rod (302244) - sold separately.

SQ-71 BLACKBIND"

Build and fly the world's fastest jet! This SR-71 Blackbird™ is a scale model and includes authentic looking "Blackbird Skin", plastic components and decals.

SPECS: Length: 19.0 in. (48.3 cm); Dia.: 0.976 in. (24.8 mm); Wt.: 3.2 oz. (90.7 g); Recovery: 18 in. (46 cm) Parachute

Fins: Die cut balsa:

Max. Altitude: 600 ft. (183 m); Recommended Engines: B4-2, B6-2, B6-4, C6-5

RENEGADE"

Going staged is awasome! Witness a magnificent lift-off with the Renegade¹⁴. It's over two feet tall and can be launched as a single stage or two-stage rocket.

SPECS: Length: 26.6 in. (67.6 cm);

Dia: 1.637 in. (41.6 mm); Wt.: 4.3 oz. (120.9 g);

Recovery: 12 in. (30 cm) Parachute

Fins: Die cut balsa;

Max. Altitude: 850 ft. (260 m); Recommended Engines: Single Stage - A8-3, B4-4, B6-4, C6-5; Two-Stage: Booster - B6-0, C6-0; 2nd Stage - A8-5,

B6-4, B6-6, C6-5, C6-7

OUTLANDER"

2110

Get ready to explore the outer rim of the galaxy with the Outlander™. It's stellar-looking design and decals compliment the unique 'Chute & Lander recovery system.

SPECS: Length: 12.5 in. (31.8 cm); Dia.: 4.375 in. (111.1 mm); Wt.: 4.2 oz. (120.2 g); Recovery: 18 in. (46 cm) Parachute

Fins: Die cut balsa; Max. Altitude: 200 ft. (61 m);

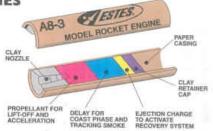
Recommended Engines: B4-2, B6-2, C6-3



ESTES MODEL ROCKET ENGINES

The famous model rocket engines that made model rocketry the great activity it is today. Estes model rocket engines have been proven consistent and reliable in more than 300,000,000 launches.

- The concept of a factory assembled model rocket engine is the foundation of this scientific and educational activity!
- . 3% of all Estes engines are static-tested at the factory for reliability and adherence to performance specifications.
- · All engines comply with the codes of the National Fire Protection Association and are certified by the National Association of Rocketry.



HOW DOES A MODEL ROCKET ENGINE WORK?

- I. When engine is ignited, it produces thrust and boosts rocket into sky.
- 2. After propellant is used up, delay is activated, producing tracking smoke and allowing rocket to coast.
- 3. After delay, ejection charge is activated, deploying recovery

1.75 in. (4.4 cm)

A A SHATE OF FEET A

MINI ENGINE

4—2.75 in. (7.0 cm)—▶

dong

B6-4 Testes

STANDARD ENGINE

D12-3 @Testes

0.5 in. (13 mm)

0.69 in. (18 mm)

diameter

0.95 in.

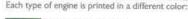
(24 mm)

WHAT SIZES ARE AVAILABLE?

Estes engines are available in a wide variety of sizes and power levels:

TYPE TOTAL	IMPULSE	ENGINE TYPES
1/4A	0.313 - 0.625	Mini
1/2A	0.626 - 1.25	Standard, Mini
A	1.26 - 2.50	Standard, Mini
В	2.51 - 5.00	Standard
C6	5.01 - 10.00	Standard
C11	5.01 - 10.00	"D" Size
D	10.01 - 20.00	"D" Size
E	20.01 - 30.00	"E" Size

WHAT DO THE DIFFERENT COLOR ENGINES MEAN?



Single Stage - Green

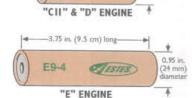
Upper Stage - Purple (Upper stage engines can be used as single stage engines in lightweight rockets.)

Booster - Red (Booster engines contain no delay or ejection charge.)

Plugged - Blue (Plugged engines are used for R/C gliders and contain no delay or ejection charge.)

Each engine has a letter-number-number code. (e.g., B6-4) Letter: B

Number: 6: Number: 4



B = TOTAL IMPULSE

This letter is the total power (in Newton-seconds) produced by the engine. Each succeeding letter has up to twice the total power as the previous letter. (Example: "B" engines have up to twice the power of "A" engines, which results in approximately twice the altitude the rocket will reach.)

6 = AVERAGE THRUST

This number shows the engine's average push or how fast the engine powers the rocket to go. The higher the number, the faster the speed. It is measured in Newtons (4.45 Newtons = 1 lb.).

B6-4 FISTES

4 = TIME DELAY

This number gives you the time delay in seconds between the end of the thrust phase and ignition of the ejection charge. Engine types ending in "O" have no time delay or ejection and are used for booster stages and special purposes only.

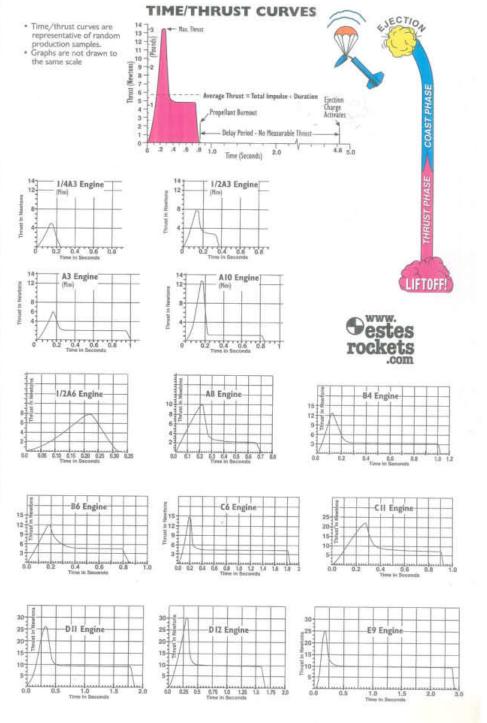


ESTES ENGINE CHART

- . Delays have a tolerance of plus or minus 10% or 1 second, whichever is greater.
- All Estes engines come complete with igniters and patented igniter plugs (Pat. No. 5,410,966 and 5,509,354). The Estes Igniter Plug makes engine ignition extremely reliable.
- . Do not fly a rocket/engine combination whose lift-off weight exceeds the recommended maximum lift-off weight.

Prod. No.	Engine Type	Total Impulse	Time Delay	M: Lift		Max Thru		Thrust Duration	Initi		Prope	
		N-sec	Sec.	Oz.	g	Newtons	Lbs.	Sec.	Oz.	g	Oz.	g
SINGLE	STAGE ENG	INES (GR	EEN LA	BEL)							_	
1502	1/4A3-3T	0.625	3	1.0	28	4.9	1.1	0.25	0.20	5.6	0.03	0.85
1503	1/2A3-2T	1.25	2	2.0	57	8.3	1.9	0.3	0.20	5.6	0.06	1.75
1507	A3-4T	2.50	4	2.0	57	6.8	1.5	0.6	0.27	7.6	0.12	3,50
1511	A10-3T	2.50	3	3.0	85	13.0	2.9	0.8	0.28	7.9	0.13	3.78
1593	1/2A6-2	1.25	2	2.0	57	8.9	2.0	0.3	0.53	15.0	0.06	1.56
1598	A8-3	2.50	3	3.0	85	10.7	2.4	0.5	0.57	16.2	0.11	3,12
1601	B4-2	5.00	2	4.0	113	13.2	3.0	1.1	0.70	19.8	0.29	8.33
1602	B4-4	5.00	4	3.5	99	13.2	3.0	1.1	0.74	21.0	0.29	8.33
1605	B6-2	5.00	2	4.5	127	12.1	2.7	0.8	0.68	19.3	0.22	6.24
1606	B6-4	5.00	4	4.0	113	12.1	2.7	0.8	0.71	20.1	0.22	6.24
1613	C6-3	10.00	3	4.0	113	15.3	3.4	1.6	0.88	24.9	0.44	12.48
1614	C6-5	10.00	5	4.0	113	15.3	3.4	1.6	0.91	25.8	0.44	12.48
1622	C11-3	10.00	3	6.0	170	22.1	4.9	0.8	1.14	32.2	0.39	11.00
1623	C11-5	10.00	5	5.0	142	22.1	4.9	0.8	1.18	33.3	0.39	11.00
1666	D12-3	20.00	3	14.0	396	32.9	7.4	1.6	1,49	42.2	0.88	24.93
1667	D12-5	20.00	5	10.0	283	32.9	7.4	1.6	1.52	43.1	0.88	24.93
1673	E9-4	30.00	4	15.0	425	25.0	5.6	2.8	2.00	56.7	1.27	35.80
1674	E9-6	30.00	6	12.0	340	25.0	5.6	2.8	2.00	56.7	1.27	35.80
UPPER	STAGE ENG	IN S (PU	RPLEL	ABEL)								
1504	1/2A3-4T	1.25	4	1.0	28	8.3	1.9	0.3	0.21	6.0	0.06	1.75
1599	A8-5	2.50	5	2.0	57	13.3	3.0	0.5	0.62	17.6	0.11	3,12
1607	B6-6	5.00	6	2.5	71	12.1	2.7	0.8	0.78	22.1	0,22	6.24
1615	C6-7	10.00	7	2.5	71	15.3	3.4	1.6	0.95	26.9	0.44	12,48
1624	C11-7	10.00	7	4.0	113	22.1	4.9	0.8	1.22	34.5	0.39	11.00
1668	D12-7	20.00	7	8.0	226	32.9	7.4	1.6	1.55	44.0	0.88	24.93
1675	E9-8	30.00	8	10.0	283	25.0	5.6	2.8	2.00	56.7	1.2	35.80
BOOST	ER STAGE E	NGINES (RED LA	BEL)								
1608	B6-0	5.00	None	4.0	113	12.1	2.7	0.8	0.58	16.4	0.22	6.24
1616	C6-0	10.00	None	4.0	113	15.3	3.4	1.6	0.80	22.7	0.44	12.48
1621	C11-0	10.00	None	6.0	170	22.1	4.9	0.8	0.98	27.8	0.39	11.00
1665	D12-0	20.00	None	14.0	396	32.9	7.4	1.6	1.44	40.9	0.88	24.93
PLUGGE	ED ENGINES	FOR USE	WITHB			THEO BAC	ERS &	RIC ROCK	ET GLI	DERS (STATES.	ABEL
1505	A10-PT	2.50	None	3.0	85	13.0	2.9	0.8	0.26	7.4	0.13	3.78
1669	D11-P	20.00	None	16.0	453	27.6	6.2	1.8	1.55	44.0	0.88	24.93
1676	E9-P	30.00	None	15.0	425	25.0	5.6	2.8	2.0	56.0	1.27	35.80

The data listed above is from randomly chosen production samples. NOTE: The " $T^{\rm e}$ designates a mini-engine.



ESTES MODEL ROCKET ACCESSORIES

DESIGNER'S SPECIAL	RECOVERY WADDING
BLAST-OFF® FLIGHT PACK	enough for about 18-25 flights! SHOCK CORDS & MOUNT PACK
E TM LAUNCH CONTROLLER	Contains two 1/8 in. x 18 in. (3 mm x 450 mm), and one 1/4 in. x 36 in. (6 mm x 910 mm) elastic shock cords (enough for four shock cords). Includes mounts and instructions.
supervision is required for anyone under 18 when launching "E" engine powered rockets.	MODEL ROCKET IGNITERS
COMMAND CONTROL™ LAUNCH CONTROLLER	pack. It is always a good idea to have a few spares.
with 30 ft. (9 m) of heavy duty cable, LED launch indicators and audible alerts. Power from one or two 7.2 volt NiCd battery packs (NiCds not included). Includes an igniter and igniter plug storage compartment.	Contains eight 1/8 in, (3 mm), four 3/16 in. (5 mm) and two 1/4 in. (6 mm) launch lugs.
PORTA-PAD® E LAUNCH PAD	BT-5 BODY TUBE
Quick assembly - no glue or tools required. Includes a 1/4 in. (6 mm) launch rod, but can accommodate a 3/16 in. (5 mm) Maxi TM launch rod - not included. Adult super-	BT-20 BODY TUBE
vision required for anyone under 18 when launching "E" engine powered rockets.	BT-50 BODY TUBE
PORTA-PAD® II LAUNCH PAD	BT-55 BODY TUBE
(3 mm) launch rod, safety cap and key. Porta-Pad® II can accommodate a 3/16 in. (5 mm) Maxi™ launch rod - not included.	BT-60 BODY TUBE
ELECTRON BEAM® LAUNCH CONTROLLER 302220 Launch controller comes complete with safety key and 17	BT-80 BODY TUBE
ft. (5.2 m) of cable. Requires four "AA" alkaline batteries - not included.	ENGINE HOOK ACCESSORY PACK
TUBE MARKING GUIDE	Hooks fit mini-engines (one), regular and "D" engines (three) and "E" engines (two). Includes spacer for "E" engine hooks.
ALTITRAK™ 302232 Measure altitude with this easy to use device. Follow the rocket in the sights to apogee, release the trigger to lock the reading.	REGULAR ENGINE MOUNT KIT
EMERGENCY REPAIR KIT	D AND E ENGINE MOUNT KIT
line, launch lugs, shock cords and launch rod safety cap.	NC-5 NOSE CONE ASSORTMENT (5 pack) 303160
BLAST DEFLECTOR PLATE	NC-20 NOSE CONE ASSORTMENT (4 pack) 303161 NC-50 NOSE CONE ASSORTMENT (5 pack) 303162
1/8 in, (3 mm) TWO-PIECE LAUNCH ROD 302243 Replacement rod; ideal for most rockets.	NC-55 NOSE CONE ASSORTMENT (4 pack) 303163 NC-56 NOSE CONE ASSORTMENT (4 pack) 303164
3/16 in. (5 mm) TWO-PIECE MAXI TM LAUNCH ROD 302244 Launch rod with extra strength and stiffness for larger rockets.	NC-60A NOSE CONE ASSORTMENT (4 pack) 303165 NC-80B NOSE CONE (1 pack)
12 in. (30 cm) PARACHUTE (Assembled)	LARGE TUBE COUPLER PACK

BODY TUBES

High quality spiral wound paper tubes. Use tube couplers to connect tubes of the same diameter. Four tubes per package with BT-5 & BT-20, three per package with BT-50, BT-55, and BT-60 & two per package in BT-80.

Product Number	Body Tube Size	Inside Dimension in./mm	Outside Dimension in./mm	Length in./cm
303084	BT-5	0.518/13.2	0.544/13.8	18.0/45.7
303085	BT-20	0.710/18.0	0.736/18.7	18.0/45.7
303086	BT-50	0.950/24.1	0.976/24.8	18.0/45.7
303087	BT-55	1.283/32.6	1.325/33.7	18.0/45.7
303089	BT-60	1.595/40.5	1.637/41.6	18.0/45.7
303090	BT-80	2.588/65.7	2.600/66.0	14.2/36.1

NOSE CONE ASSORTMENTS

Each package of nose cones contains a variety of shapes. Some are one piece, others two-piece. All have eyelets for shock cord and shroud line attachments.

ESTES ROCKETRY AND EDUCATION

FOR MORE DETAILS AND INFORMATION ON OUR MODEL ROCKET EDUCATIONAL SUPPLIES, SEE THE ESTES EDUCATOR™ CATALOG OR VISIT US AT: www.esteseducator.com

ESTES AIR® ROCKET CLASS PACK

1778

(Pictured at right)

- · Rockets COMPLETELY POWERED BY AIR!
- * Includes Teacher's Hands-on Activity Guide
- · Fulfills Many National Education Standards CLASS PACK INCLUDES:
- 1 Estes AirTH Pump & Launcher
- 1 "Awesome Estes Air® Rocket Activities" Teacher's Guide
- 1 Estes Air® Launch Mat
- 30 Estes Air® Rocket Kits
- 30 Colorful Decal Sheets

MODEL ROCKET BULK PACKS

12 rockets per pack, complete with 12 sets of instructions and extra

E2X® SERIES

Gnome™ Bulk Pack (See page 11 for rocket description)	1750
Alpha III® Bulk Pack (See page 13 for rocket description)	1751
Generic E2X® Bulk Pack (Pictured at right)	1764

SKILL LEVEL I

The state of the s	
Wizard™ Bulk Pack (See page 17 for rocket description)	175
Viking™ Bulk Pack (See page 19 for rocket description)	175
Alpha® Bulk Pack (See page 17 for rocket description)	175

SKILL LEVEL 2

PolarisTM Bulk Pack (Pictured at right) 1791

MODEL ROCKET ENGINE BULK PACKS

Includes 24 engines and igniter plugs, 30 igniters and a package of recovery wadding - 75 sheets. (Pictured below) See pages 29-31 for engine description

I/ZA3-4T Bulk Pack	1788
A8-3 Bulk Pack	1781
B6-4 Bulk Pack	1783
B6-0/B6-6 Bulk Pack (12 each)	1784
C6-5 Bulk Pack	1789
Blast-Off® Flight Pack	1672
(Includes 6 each: A8-3, B6-4, C6-3, C6-5)	1072

CURRICULA

Ignite the Imagination™ Curriculum Guide (Pictured below)

- . For grades 5-8.
- * Hands-on activities on model rockets and space.
- · National Education Standards incorporated.

Additional Curricula, Technical Publications and Software available at: www.esteseducator.com



IGNITE THE IMAGINATION™ **CURRICULUM GUIDE**





GENERIC E2X® BULK PACK 1764

POLARISTM BULK PACK 1791

SPECS: Length: 15 in. SPECS: Length: (38.1 cm); Dia.: 0.98 in 18.75 in. (47.6 cm); (24.8 mm); Wt.: 1.3 oz (36 g); Recovery: 12 in. (30 cm) Parachute: Fins: One piece plastic molded; Max. Altitude: 1100 ft. cut balsa Max. (335 m): Recommended Engines: 1/2A6-2. A8-3, A8-5, B4-4, B6-4. Engines: B6-6, C6-5, C6-7,

Dia.: 1.33 in (33.8 mm); Wt.: 3.0 oz. (85 g); Recovery: 12 in. (30 cm) Parachute: Fins: Die Altitude: 700 ft. (213 m); Recommended A8-3, B4-4, B6-4, C6-5



MODEL ROCKET ENGINE **BULK PACK**







KICK DIS" POWER PUCK

www. ▼estes

ESTES SPECIALTY PRODUCTS

JET STIX"

1854

Pump it up and watch it fly! This sporty little glider comes with a small hand pump for hours of fun. Ages 8+. SPECS: Wingspan: 7.5 in. (19 cm); Length: 6.25 in. (15.9 cm)

HYDROGEN FUEL ROCKET"

The scientists at Estes have created a revolutionary technology that generates hydrogen fuel to launch a rocket into orbit! Blast a sleek rocket 200 feet into the sky using this innovative hydrogen fuel system! Includes fuel generation and launch system, remote launch controller and two ready-to-fly rockets. Ages 10+ with adult supervision for those under 12. SPECS.: Launch Platform Length: 20.5 in. (52 cm) Rocket Length: 11 in. (28 cm); Recovery: Helicopter and Bounce; Max Altitude: 200 ft. (61 m)

Propellant: Hydrogen fuel from water Power Supply: 6-"D" alkaline batteries - sold separately.

ESTES AIR* HL-X150" HAND LAUNCH ROCKET SUSTEM

The Estes Air® HL-X150™ blasts miniature air rockets up to 150 ft. (46 m) using the power of air. It comes with a pistol grip pump/launcher and two RTF miniature rockets. SPECS: Rocket Length: 7 in. (17.8 cm); Max. Altitude: 150 ft. (46 m); Recovery: Bounce Ages 10+ with adult supervision for those under 10.

ESTES AIR* GL-X200" AIR ROCKET SUSTEM

The GL-X200™ sends a rocket to awesome heights with a few pumps of air. Quick to set up and easy to operate. The GL-X200™ comes with two RTF rockets, pump and launcher.

SPECS: Rocket Length: 10.5 in. (26.7 cm); Max. Altitude: 250 ft. (76 m); Recovery: Bounce

FLIGHT MASTER RAVEN" 4014 FLIGHT MASTER* CONDOR** UME

Wind 'em up...toss 'em into the wind...and let the flying adventures begin. The Flight Master® Raven™ and Condor™ are easy-to-build, scale-looking, rubber band powered airplanes that soar through the sky. SPECS: Wingspan: 15 in. (38.1 cm); Length: 13 in. (33 cm)

SKY RANGERS" R/C JET

The Sky Rangers® R/C Jet is tough, fast and simple enough to fly with one hand. Designed to be super smooth with wings made of virtually break-resistant foam. Includes a highspeed electric engine and 15-minute field charger. Perfect SPECS.: Wingspan: 33 in. (838 cm); Length: 13 in. (330 cm); Radio: Single Channel - Freq. 27.045 MHz;

Radio Range: 750 ft (305 m)
Requires 6 "AAA" alkaline batteries for the controller sold separately

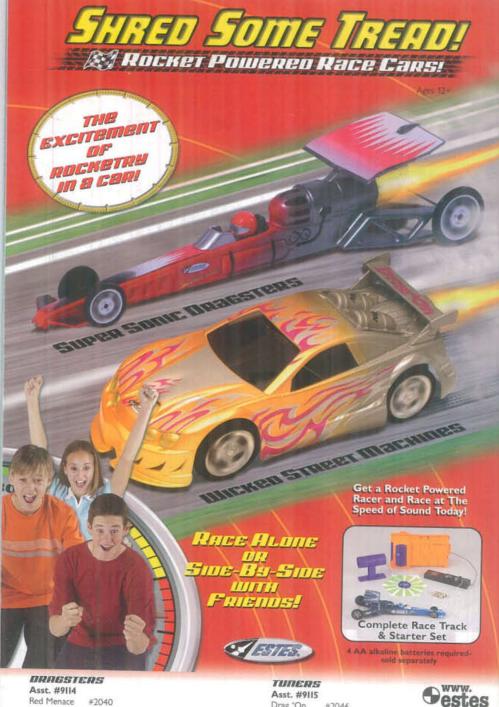
SKY RANGERS* PEE WEE FLUER

The Sky Rangers® Pee Wee Flyer is small enough to fly in your backyard! This flying miniature R/C plane has a small, 14-inch wingspan and simple, push-button controller. Recharges in 60 seconds with its pocket-sized charger. Great for flying in backyard, parks or playgrounds. Ages 10+. SPECS.: Wingspan: 14 in. (356 cm); Length: 12.5 in. (318 cm); Radio: Single Channel - Freq. 27 MHz; Radio Range: 200 ft (61 m)

Requires 1 - 9 Volt transistor alkaline battery for the transmitter and 6 "C" alkaline batteries for the charger - sold separately

KICK DIS" POWER PUCK

Play soccer, hockey, even bowling. The Kick DisTM Power Puck floats on a cushion of air and is surrounded by a tough bumper. Play Indoors or out, Includes rechargeable NiCd battery and a wall mount charger. SPECS: Dia.: 7.5 in. (19.1 cm)



Blue Storm #2040

Green Mantis #2042 SPECS: Length: 12.5 in. (31.8 cm); Wheelbase: 3.4 in. (8.6 cm)

Additional A10-PT Race Engines - sold separately © 2003 Estes-Cox Corp. All rights reserved.

Drag 'On #2046 Gear' zilla #2047 Slammurai #2048

SPECS: Length: 8.25 in. (21 cm); Wheelbase: 3.3 in. (8.4 cm) Pestes rockets

Estes Industries 1295 H Street, Penrose, CO 81240 U.S.A. Printed in USA (1-04) PN 2927-4