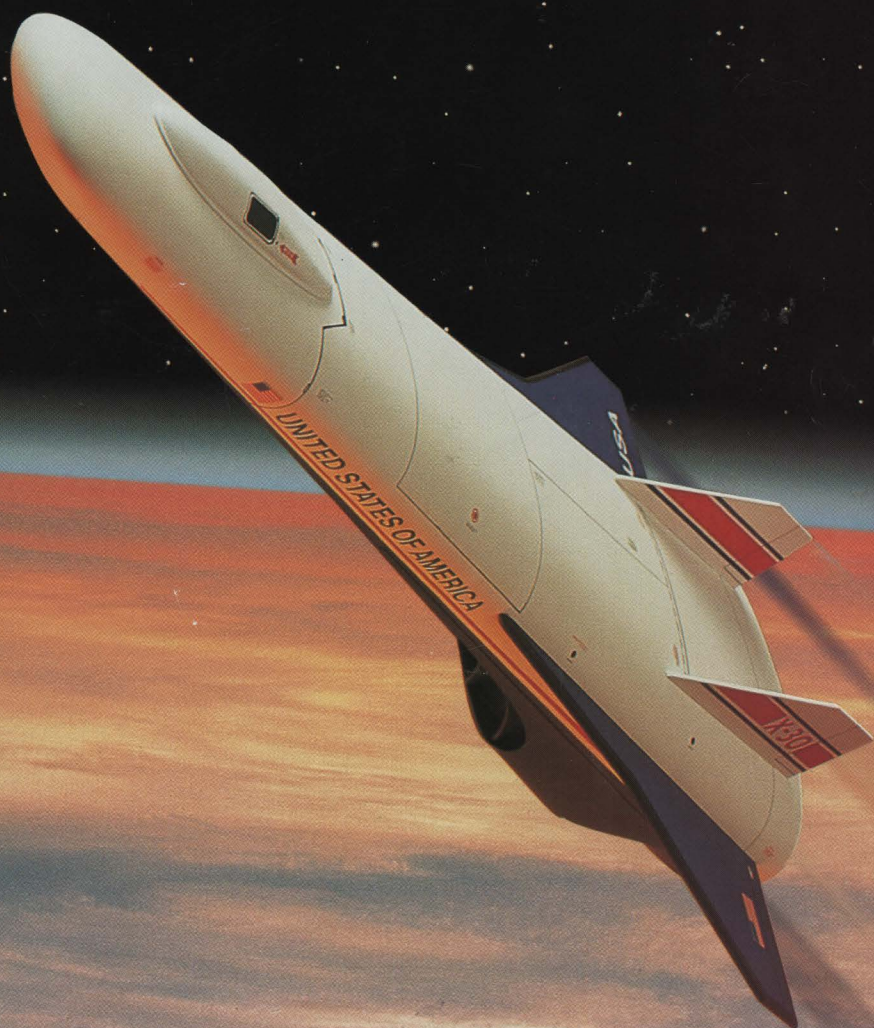


QUEST™

Flying Model Rocket Catalog



1994 EDITION

\$1.00

Quest Mission Control Welcomes You

A new era in space flight has begun. On August 18, 1993, McDonnell Douglas made the first test flight of its Delta Clipper-Experimental (DC-X)...a 42-foot tall, one-third scale prototype of the revolutionary Delta Clipper commercial spacecraft.

By removing two of the biggest obstacles to "everyday" space travel—cost and risk—the Delta Clipper marks the most significant advance in space flight since the first lunar landing (an accomplishment Quest honors with our own 1:122 scale flying model version, the DC-Y Space Clipper—see page 4).

Like the Delta Clipper, Quest's flying model rockets take advantage of the best modern technology to achieve high levels of performance.

Anyone experienced in model rocketry but new to Quest will notice many surprising and exciting developments in our rocket designs—changes that result in consistently successful launches, parachutes that open every time and stay attached to the rocket, igniters that are easy to use and that work reliably every time. In short, Quest makes flying model rockets more fun than ever.

And if you're familiar with our products, you're still in for some surprises: the Quest lineup has been expanding rapidly to include exciting payload rockets and scale kits for advanced modelers, such as



the Space Clipper and X-30 Aerospace Plane (see page 21).

With their state-of-the-art performance, you might expect to pay a little more for a Quest rocket. Surprise, again...Quest flying model rockets, rocket sets, and rocketry equipment cost less than similar products from other manufacturers. And you can use our improved rocketry supplies with any comparable rockets for better value and performance.

Quest is proud to be a part of model rocketry. And we're very pleased to be leading the hobby forward in an era when "everyday" space travel is no longer a dream...but a rapidly approaching reality.



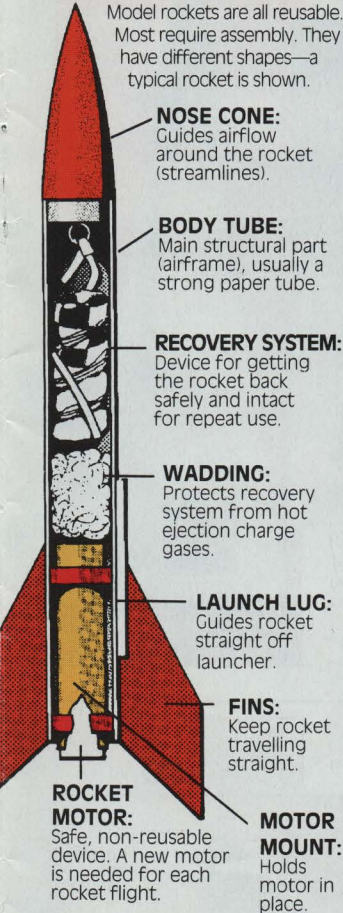
"Get started right . . . with Quest."

If you've never launched a model rocket before, choose one of Quest's Skill Level 1 starter sets from pages 6 and 7. These include your rocket, parachute, reusable launch pad and electric launch controller, three rocket motors with TigerTail II™ igniters, and recovery wadding. The only additional purchases you'll need for your first rocket flights are glue and batteries.

How to Get Started in Model Rocketry

How Model Rockets Work

Model rockets are all reusable. Most require assembly. They have different shapes—a typical rocket is shown.



How Model Rocket Motors Work



1. IGNITION: Electric launch controller heats igniter placed into motor nozzle. Motor starts thrusting.



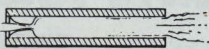
2. LIFT-OFF: Motor develops thrust. Rocket takes off by action/reaction principle and rapidly accelerates.



3. COASTING: Propellant has been consumed. The tracking delay smoke allows rocket to coast to peak altitude.

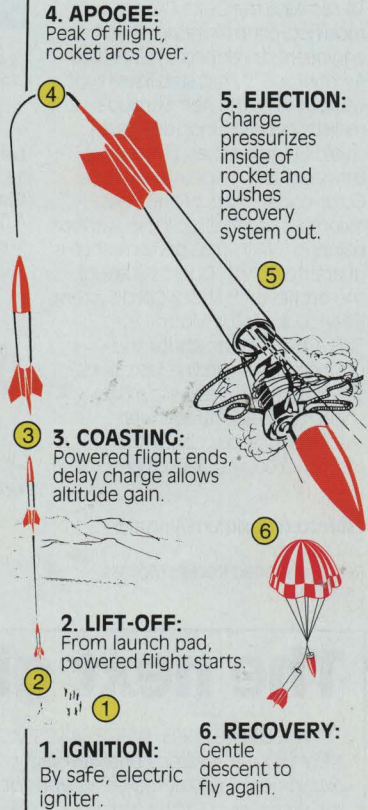


4. APOGEE: The rocket reaches peak altitude, loses momentum, and arcs over, pointing down as tracking delay smoke ends.



5. EJECTION: The final charge activates, causing expanding gases to deploy the recovery system.

How Model Rockets Fly



Motors and wadding can be used only once, but each rocket can be flown over and over. Each rocket kit includes a list of recommended motors to guide you when buying additional motors.

Read this catalog carefully...it's designed to give you all of the information you'll need to get started flying rockets and to join this exciting and rewarding hobby.

SKILL LEVEL

How to Choose the Right Model for You

| | | | |
|----------|-------------|----------|----------|
| 1 | 2 | 3 | 4 |
| BEGINNER | EXPERIENCED | ADVANCED | EXPERT |

Listed with each kit in this catalog you'll find a Skill Level number. This number indicates the amount of previous modeling experience required for any hobbyist wanting to build and fly the kit successfully. Beginners should choose Skill Level 1 rockets. Skill Level 2 kits are for experienced modelers. Advanced rocket fliers will find Skill Level 3 kits an exciting test of their abilities, while Skill Level 4 kits are recommended only for expert rocketeers. Once you've mastered a particular skill level, you're ready to move on to the next one.

DC-Y SPACE

FLYING MODEL ROCKET KIT

Product No. 3004

Quest's Space Clipper is the only flying scale model available of the McDonnell Douglas Delta Clipper. To recreate the Delta Clipper's modified-cone airframe, Quest engineers developed a reinforced AeroShroud™ that stabilizes flight without fins. The AeroShroud's realistic detailing includes heat-shield tiling, hatches, directional thrusters and maneuvering flaps. Color-coded parts provide easy assembly and realistic looks without painting. Clutch-free performance is guaranteed with Quest's state-of-the-art Kevlar™ Shock Cord System, Easy-Lock Motor Mount, Tuff-Chute™ parachute and Grippers™ shroud line fasteners. Quest also includes a scale data sheet/tech report filled with fascinating details about the McDonnell Douglas Delta Clipper project!

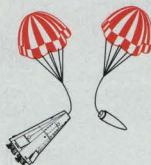
SKILL LEVEL

3

ADVANCED

Recommended for Advanced Modelers

Length: 13.5 in (34.3 cm)
Diameter: 4.0 in (10.1 cm)
Weight: 4.0 oz (113 g)



- 12" Dual Recovery Parachutes

NEW!



A sturdy, computer-designed aerospace framework accurately positions the Quest Space Clipper's detailed AeroShroud™.



Estimated Maximum Altitude:
300 ft (92 m)

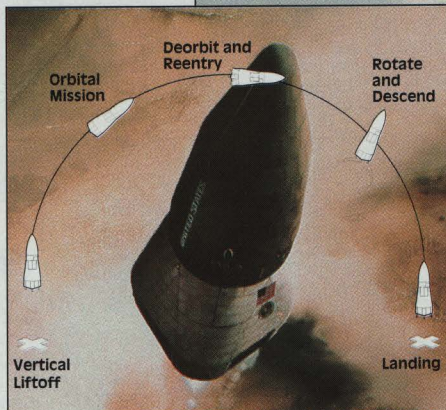
Recommended Rocket Motors:
C6-3 only

The next giant leap...

AUGUST 18, 1993. WHITE SANDS MISSILE RANGE, NEW MEXICO. — After a brief test flight, an experimental rocket makes an *upright* touchdown—the first ever in Earth's history!

This unusual manner of descent is only one of the many remarkable aspects of the Delta Clipper "SSTO" (Single Stage to Orbit) spaceship, currently in development at McDonnell Douglas. Unlike traditional rockets and space shuttles, the Delta Clipper will need no expensive boosters or lower stages to reach orbit. Fuel will be the ship's only non-reusable component—making space travel "everyday" safe and economical.

As early as 1999, a vehicle like the Delta Clipper may well be ushering in a new age of commercial space travel. Within one hour of launch, the ship will be able to reach any spot on the face of the Earth. No wonder so many industries are eagerly exploring possible uses!



McDonnell Douglas
Delta Clipper Flight Profile

Artwork courtesy of McDonnell Douglas Corporation

CLIPPER™

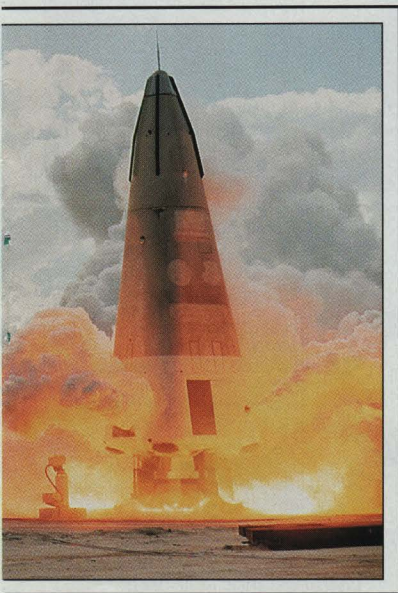
DELUXE OUTFIT

Product No. 5600

**Deluxe Outfit
Includes Space
Clipper Kit and
everything needed
for your first three
launches!**

NEW!

Requires: White glue,
plastic cement and 4 "AA"
size alkaline batteries
(not included)



Complete with:

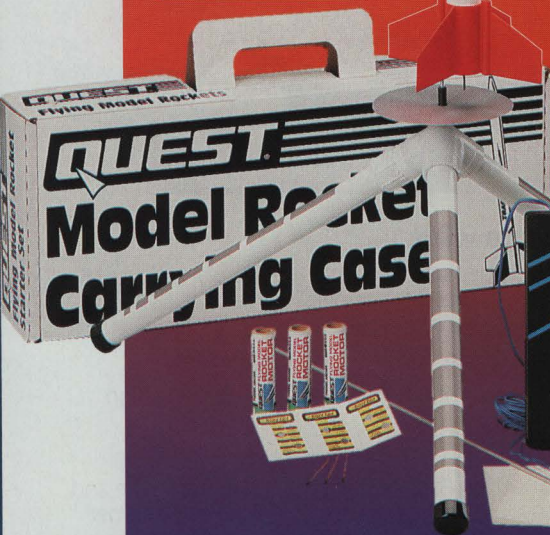
- Space Clipper model rocket kit, featuring Kevlar™ shock cord system, Grippers™ and dual 12" Tuff-Chute™ parachutes
- 3 high-performance C6-3 rocket motors
- 3 TigerTail II™ Igniters – newly improved design
- Preassembled Launch Controller with 17 feet of cable
- Sturdy Launch Pad, including blast deflector plate and 36" long, two-piece launch rod with safety streamer
- Model Rocket Carrying Case

TRACER™

STARTER SET



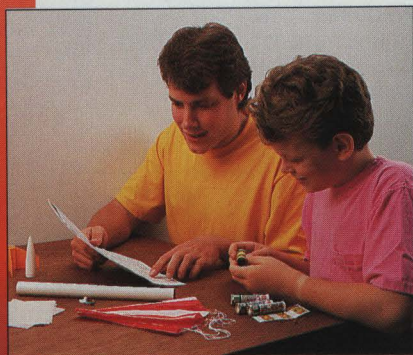
Kit includes everything you need for your first three launches.



Product No. 5300

SKILL LEVEL 1 – Recommended for the beginning modeler.

Launch into adventure with your very first rocket from Quest. Excellent for the beginning rocket modeler, the realistic Quest Tracer actually flies to altitudes over 1000 ft. It features molded, pre-colored parts—no painting is required. Also includes an Easy-Lock Motor Mount, one-piece plastic fin unit and 12" recovery parachute with a strong Kevlar™ shock cord system. Get the best value for your dollar with the equipment needed for your first three flights: 3 high-performance A6-4 rocket motors, 3 TigerTail II™ igniters, Quest launch controller, Quest launch pad, parachute recovery wadding and model rocket carrying case.



The Tracer requires minimal assembly and can be easily built by the model rocket novice.

Rocket Specifications:
 Length: 15.0" (38.1 cm.)
 Diameter: .984" (25 mm.)
 Weight: 1.38 oz. (39 g.)
Recommended Rocket Motors:
 A6-4 (first flight), A8-3, B6-4, C6-5, C6-7

Requires: White glue, plastic cement and 4 "AA" size alkaline batteries. (not included)

FALCON™

DELUXE OUTFIT



The Deluxe Outfit includes all the materials needed for three launches.



Product No. 5400

SKILL LEVEL 1 – Recommended for the beginning modeler.

Lift off for the unknown with the impressive, 2-foot-tall Quest Falcon. The Falcon features a simple design that's easy to build and fly for the novice rocket modeler and includes molded, pre-colored parts—no painting required. It features an Easy-Lock Motor Mount, plastic fins and a 12" recovery parachute with strong Kevlar™ shock cord system. The Falcon deluxe outfit comes with a Quest Launch controller, Quest launch pad, 3 high-performance B6-4 rocket motors, 3 TigerTail II igniters, parachute recovery wadding and a convenient model rocket carrying case.



Innovative, easy-to-use Quest TigerTail II™ Igniters make every launch an instant success!

Rocket Specifications:

Length: 23.88" (60.6 cm.)
Diameter: 1.378" (35 mm.)
Weight: 2.26 oz. (64 g.)

Recommended Rocket Motors:
B6-4 (first flight), C6-5

Requires: White glue, plastic cement and 4 "AA" size alkaline batteries. (not included)

Q E-Z™ Payloader

Product No. 1009

Length: 21.5" (53.4 cm)
Diameter: 1.18" (30 mm)
Weight: 2.3 oz. (65.2 g)

SKILL LEVEL

1

BEGINNER

Recommended
for the Beginning
Modeler



Unique pre-colored plastic fin unit provides some assembly challenge and gives accurate alignment with no painting or finishing required.

NEW!



- Dual 12" Tuff Chute parachutes with Grippers™ Fasteners

This large single stage, sport payload rocket makes assembly as E-Z as its name. A special interlocking Q E-Z Fin Unit™ design makes assembly go fast and easy. Large and small payload sections provide plenty of room for cargo. Kit includes Quest's Easy-Lock Motor Mount, reliable Kevlar™ Shock Cord System, plastic nose cone, airfoiled plastic fins and self-adhesive decals.

Recommended Rocket Motors:

B6-2 (with payload) or B6-4 (without payload)—
first flight; C6-3 (with payload),
C6-5 (without payload)

Estimated Maximum Altitude:

1,200 feet (365.9 m)



- 12" Recovery Parachute

QUASAR™

Product No. 1008

SKILL LEVEL

1

BEGINNER

Recommended
for the Beginning
Modeler



NEW!

Length: 19.25" (49.1 cm)
Diameter: .984" (25 mm)
Weight: 1.6 oz. (45.4 g)

Easy, high-altitude flights have never looked better—and the Quasar's brilliant silver foil decals add just the right touch of "high-tech" excitement. The black plastic nose cone and one-piece molded fin unit eliminate time-consuming assembly chores. Quest's Kevlar™ Shock Cord System, Easy-Lock Motor Mount and dependable Tuff-Chute™ with rugged Grippers™ shroud line fasteners combine for absolutely glitch-free performance.

Recommended Rocket Motors: A6-4 (first flight), A8-3, B6-4, C6-5

Estimated Maximum Altitude: 1,000 feet (304.9 m)

BIG RAGE™

Product No. 1010

Over 3 feet tall!

The Big Rage single-stage payloader towers at over three feet high—so it's nearly as impressive just standing on the launch pad as it is streaking into the sky. At the ejection stage, **two** Tuff-Chute™ parachutes deploy to return your payload and rocket with a slow, gentle, realistic descent. A detailed plastic nose cone and one-piece, molded fin unit simplify assembly for new modelers. Gripper™ shroud line fasteners and Kevlar™ shock cord provide successful recoveries flight after flight. Also included are Quest's Easy-Lock Motor Mount and dramatic, self-adhesive decals.

Estimated Maximum Altitude: 500 ft (152.4 m)
Recommended Rocket Motors: B6-2 (first flight, w/o payload), C6-3 (w/payload) & C6-5 (w/payload)

SKILL LEVEL

1

BEGINNER

Recommended for the Beginning Modeler



Its huge size and "radical" decor make the Big Rage a showstopper.

NEW!

Length: 37 in (94 cm)
 Diameter: 1.378 in (35 mm)
 Weight: 3.5 oz (99.2 g)



• Dual 12" chutes



COMMANDER™

Product No. 1007

Captain your own interplanetary star fighter—the exotic, economical Commander! It's easy to build, but also lets you demonstrate your kit assembly skill with its die-cut balsa fins. The Easy-Lock Motor Mount makes motor installation and removal a snap—and the Kevlar™ Shock Cord System provides flawless recoveries. Included are a plastic nose cone, 2-foot recovery streamer and colorful decals.



• 2-foot Recovery Streamer

NEW!

Length: 12.75 in (32.4 cm)
 Diameter: .787 in (20 mm)
 Weight: 1.0 oz (28.35 g)



Even first-timers can enjoy futuristic styling with the easy-to-build Commander.

SKILL LEVEL

1

BEGINNER

Recommended for the Beginning Modeler

Estimated Maximum Altitude: 1,200 feet (365.8 m)
Recommended Rocket Motors: A6-4 (first flight), A8-3, B6-4, C6-5, C6-7

Antari™

Product No. 1003

With its brilliant fluorescent decals, the Antari creates a dazzling streak of color across the sky. This easy-to-assemble, competition-style, high altitude kit includes the Easy-Lock Motor Mount, Kevlar™ Shock Cord System, plastic nose cone, one-piece molded fin unit, and a 2-foot long recovery streamer.



Glue-on balsa fins provide a rewarding assembly challenge.



- 12" Recovery Parachute

Length: 13.0" (33 cm)
Diameter: .984" (25 mm)
Weight: .81 oz. (23 g)

SKILL LEVEL

1

BEGINNER
Recommended
for the Beginning
Modeler

SKILL LEVEL

1

BEGINNER
Recommended
for the Beginning
Modeler



- 2-Foot Recovery Streamer

Length: 13.0" (33 cm)
Diameter: .787" (20 mm)
Weight: .81 oz. (23 g)

ASTRA I™

Product No. 1004

If you're still a beginning modeler, but one looking for a rocket with the challenge of glue-on balsa fins, choose the Quest Astra 1. Included with the kit are a 12" parachute, Kevlar™ Shock Cord System, Easy-Lock Motor Mount, plastic nose cone, and die-cut balsa fins. Adding to its realism, the Astra 1's sleek profile is accented by bright decals.

Recommended Rocket Motors: A6-4 (first flight), A8-3, B6-4, C6-5, C6-7
Estimated Maximum Altitude: 1,000 ft.



With its one-piece molded fin unit, assembling the Antari is fast and easy.

Sprint™

Product No.1002

Length: 14.5" (36.8 cm)
Diameter: .787" (20 mm)
Weight: .67 oz. (19 g)

SKILL LEVEL

1

BEGINNER

Recommended
for the Beginning
Modeler



The crowd-pleasing Sprint is easy to fly to great altitudes.

- 2 foot Recovery Streamer

Fly to incredible heights with this high-performance sport flier. Kit includes Quest's Easy-Lock Motor Mount and Kevlar™ Shock Cord System for fast launches and flawless recoveries. Also featured: a 2 foot long recovery streamer, plastic nose cone, die-cut balsa fins and attractive decals.



Recommended Rocket Motors:
A6-4 (first flight), A8-3, B6-4, C6-5, C6-7
Estimated Maximum Altitude: 1,600 feet

SKILL LEVEL



FALCON™

Product No. 1006



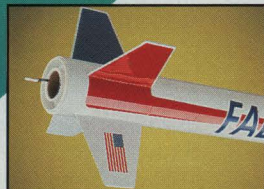
- 12" Recovery Parachute

SKILL LEVEL

1

BEGINNER

Recommended
for the Beginning
Modeler

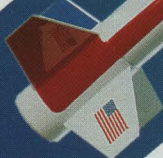


The Falcon molded one-piece fin unit decreases assembly time.

Length: 23.88" (60.6 cm)
Diameter: 1.378" (35 mm)
Weight: 2.26 oz. (64 g)

Not since Apollo 11's crew raised an American flag on the moon in 1969 have these patriotic colors flown so spectacularly. The two-foot tall Falcon delivers dramatic lift-offs and impressive altitudes. Using the included Easy-Lock Motor Mount and Kevlar™ Shock Cord System with 12" recovery parachute, you'll enjoy repeated success with every launch. A plastic nose cone, molded one-piece fin unit and decals are also featured.

Recommended Rocket Motors: B6-4 (first flight), C6-5
Estimated Maximum Altitude: 700 feet



APOLLO™

Product No. 2003

The Apollo is a tall, NASA Research design with scale-like detail based on the Saturn 5 rocket that took man to the moon. Standing over 2 feet tall, the model includes Quest's Easy-Lock Motor Mount, Kevlar™ Shock Cord System, two 12" recovery parachutes, and plastic nose cone and transition sections. Also featured: a unique, modular fin system that's pre-molded, yet still offers the challenge of assembly.

Length: 26.88" (68.2 cm)
 Diameter: 1.18" (30 mm)
 Weight: 2.0 oz. (58 g)



Apollo's modular fin system combines pre-molded construction with some assembly challenge.

SKILL LEVEL

2

EXPERIENCED
 Recommended
 for Experienced
 Modelers

Recommended Rocket Motors:
 A6-4 (first flight), A8-3, B6-4, C6-5
Estimated Maximum Altitude: 600 feet



• Dual 12" chutes

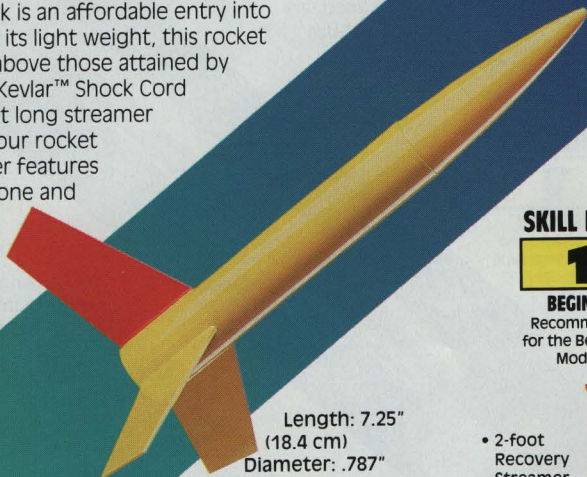
Pip SQUEAK™

Product No. 1001

The compact Pip Squeak is an affordable entry into model rocketry. Due to its light weight, this rocket conquers altitudes far above those attained by larger models. Quest's Kevlar™ Shock Cord System deploys a 2-foot long streamer that helps in tracking your rocket through recovery. Other features include a plastic nose cone and die-cut balsa fins.



Its small size makes the Pip Squeak easy to carry to your favorite flying site.



Length: 7.25" (18.4 cm)
 Diameter: .787" (20 mm)
 Weight: .08 oz. (13 g)

SKILL LEVEL

1

BEGINNER
 Recommended
 for the Beginning
 Modeler

Recommended Rocket Motors: A6-4 (first flight), A8-3, B6-4, C6-5, C6-7
Estimated Maximum Altitude: 1,800 feet

• 2-foot Recovery Streamer



Tracer™

Product No. 1005

Easy enough for first-time rocketeers to build and fly, the Tracer soars to altitudes over 1,000 feet—and features the best of Quest: an Easy-Lock Motor Mount for fast motor installation, Kevlar™ Shock Cord System for dependable recoveries, 12" parachute, decals, plastic nose cone, and fin unit. Every launch will be a thrilling adventure...whether it's your first, or your fiftieth.

SKILL LEVEL

1

BEGINNER

Recommended
for the Beginning
Modeler

Recommended Rocket Motors: A6-4 (first flight), A8-3, B6-4, C6-5, C6-7
Estimated Maximum Altitude: 1,000 ft.



• 12" Recovery Parachute



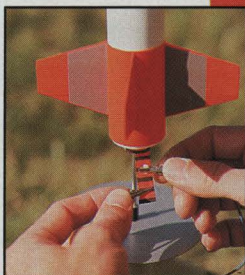
All Quest rockets use advanced components for reliable launch and recovery.

Length: 15.0" (38.1 cm)
Diameter: .984" (25 mm)
Weight: 1.38 oz. (39 g)



NIKE-K™

Product No. 2002



Quest's Easy-Lock Motor Mount allows quick motor installation and removal.



• 12" Recovery Parachute

Length: 24.25" (61.6 cm)
Diameter: 1.378" (35 mm)
Weight: 2.44 oz. (69 g)

SKILL LEVEL

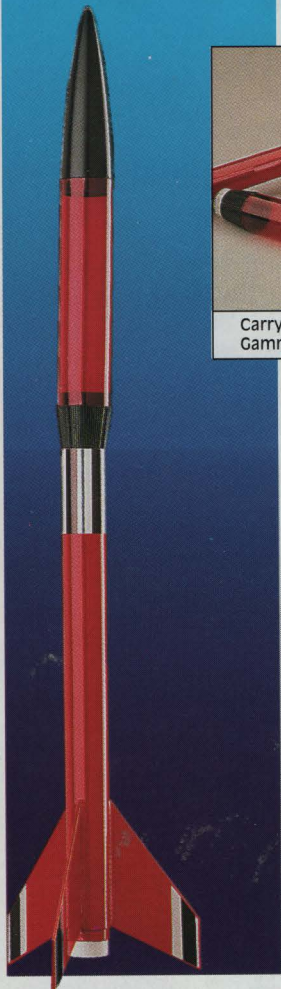
2

EXPERIENCED
Recommended
for Experienced
Modelers



Surface-to-air missiles brought the Gulf War to a quick, decisive conclusion. Standing over two feet tall, the scale-like Nike-K interceptor displays exciting realism that's all the more impressive in flight. Quest innovations such as the Easy-Lock Motor Mount and Kevlar™ Shock Cord System provide great performance. The kit also features a 12" recovery parachute, decals, and plastic nose cone, transition section and molded one-piece fin unit.

Recommended Rocket Motors: B6-4 (first flight), C6-5
Estimated Maximum Altitude: 700 feet



Carry payloads to high altitudes in the Gamma-Ray's transparent cargo bay.

NEW!



- 12" Recovery Parachute

SKILL LEVEL

2

EXPERIENCED
Recommended
for Experienced
Modelers

Length: 17.38 in (44.15 cm)
Diameter: .787 in (20 mm)
Weight: 1.1 oz (31.2 g)

Gamma-Ray™

Product No. 2004

The unique, transparent red cargo bay of the single-stage Gamma-Ray can carry electronics or small science experiments—adding extra excitement to your launches. Quest's Easy-Lock Motor Mount and Kevlar™ Shock Cord System provide easy, successful launches and recoveries. The Gamma-Ray also includes die-cut balsa fins, plastic nose cone and 12" Tuff-Chute™ parachute with rugged Grippers™ shroud line fasteners. Foil roll pattern decals give the rocket a sleek, high-tech appearance.

Estimated Maximum Altitude: 1,000 feet (304.8 m)
Recommended Rocket Motors: A6-4 (first flight), A8-3, B6-4, C6-5, C6-7

Icarus™

Product No. 2006

This kit's skyscraping height—over two-and-a-half feet—makes your launches amazingly realistic. You'll also enjoy conducting cargo experiments with the Icarus rocket's large payload bay. In addition to Quest's Easy-Lock Motor Mount and Kevlar™ Shock Cord System, the Icarus includes a plastic nose cone, die-cut balsa fins and impressive kit decals. Recoveries are especially dramatic, as dual 12" Tuff-Chute™ parachutes bring your Icarus safely back to Earth!

Estimated Maximum Altitude:
700 feet (213.4 m)
Recommended Rocket Motors: B6-2 or B6-4 (first flight), C6-5

SKILL LEVEL

2

EXPERIENCED
Recommended
for Experienced
Modelers



- Dual 12" chutes



NEW!

Length: 30.75 in (78.1 cm)
Diameter: 1.378 in (35 mm)
Weight: 2.75 oz (78 g)



The large Icarus cargo bay is perfect for science projects.



HL-20™ LIFTING BODY

Product No. 2008

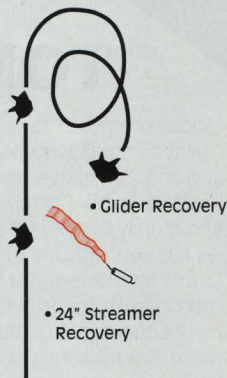


NEW!



NASA first began developing lifting bodies, like the Space Shuttle, in the 1960s. These blunt-shaped crafts feature contoured underbodies for enhanced gliding capabilities when returning unpowered from orbit.

Just like the lifting bodies designed by NASA, the HL-20 blasts off vertically and returns to Earth as a glider. After initial thrust, the motor ejects with a 24" Streamer for recovery while the cone-shaped body glides down. The colorful and highly detailed AeroShroud™ comes preprinted. Also included are Quest's Easy-Lock Motor Mount and a plastic nose cone.



Length: 8.5 in (21.6 cm)
Wingspan: 7.25 in (18.42 cm)
Weight: 1.3 oz (37 g)

Recommended Rocket Motors: B6-2 (first flight), C6-3
Estimated Maximum Altitude: 600 ft (182.9 m)

SKILL LEVEL

2

EXPERIENCED
Recommended for Experienced Modelers

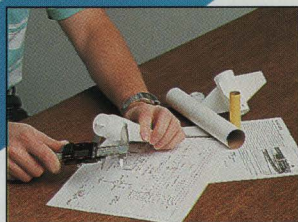


The HL-20's incredibly detailed, preprinted AeroShroud lends authenticity to this NASA-style lifting body.

Nike Smoke™

Product No. 2007

Scaled after a famous full-size sounding rocket, the Nike Smoke adds the excitement of authentic looks to your launches. The kit comes with a plastic nose cone, one-piece molded fin unit and self-adhesive decals for fast, easy assembly. Quest's proven Kevlar™ Shock Cord System, Tuff-Chute™ parachute and Grippers™ shroud line fasteners deliver successful recoveries time after time. Also included is an Easy-Lock Motor Mount and informative scale data sheet.



Mission details and technical diagrams enable scale builders to recreate the full-size rocket with 1:12 accuracy.

NEW!

SKILL LEVEL

2

EXPERIENCED
Recommended
for Experienced
Modelers



• 12" Recovery Parachute

Length: 19.5 in (49.5 cm)
Diameter: 1.378 in (35 mm)
Weight: 2.2 oz (62 g)

Estimated Maximum Altitude: 1,200 ft (365.9 m)

Recommended Rocket Motors: A6-4 (first flight),
A8-3, B6-4, C6-5

TOMAHAWK™

Product No. 2005

Modeled after a famous atmospheric research rocket, Quest's Tomahawk sport scale kit includes authentic decals and an informative scale data sheet. With its dependable Kevlar™ Shock Cord System, 12" Tuff-Chute™ parachute and sturdy Grippers™ shroud line fasteners, recoveries happen without a hitch. Quest's Easy-Lock Motor Mount lets you install or remove motors with the touch of a finger. A plastic nose cone and molded plastic fin unit make assembly fast and easy.



Included scale data sheet provides information such as technical drawings and specifications for the serious scale modeler.

NEW!

SKILL LEVEL

2

EXPERIENCED
Recommended
for Experienced
Modelers

• 12" Recovery Parachute

Length: 18.75 in (47.6 cm)
Diameter: .787 in (20 mm)
Weight: 1.1 oz (31.2 g)

Estimated Maximum Altitude: 800 feet (243.8 m)

Recommended Rocket Motors: A6-4 (first flight)
or A8-3 ONLY. DO NOT USE HIGHER POWER MOTORS.



EVADER™ CRUISE MISSILE

Product No. 2001



The Evader succeeds the Tomahawk at the leading edge of cruise missile design. Quest's Evader displays the scale-like authenticity of the smart missile, while holding its own at the forefront of model rocket technology. The dependable Kevlar™ Shock Cord System and 12" parachute return the Evader for repeated launches. Also included are Quest's Easy-Lock Motor Mount, plastic nose cone, die-cut fins, and decals.

Recommended Rocket Motors:

A6-4 (first flight), A8-3, B6-4, C6-5

Estimated Maximum Altitude:

1,000 feet



- 12" Recovery Parachute



SKILL LEVEL

2

EXPERIENCED
Recommended
for Experienced
Modelers

A scale-like design gives the Evader impressive realism.

Length: 16.38" (41.6 cm)

Diameter: .984" (25 mm)

Weight: 1.0 oz. (29 g)

Navaho AGM™

Product No. 3003

The two-stage Navaho scale-like air-to-ground missile flies to approximately 2,100 feet! Before exhausting its fuel, the booster motor automatically ejects the Navaho's first stage during ascent—and ignites the upper stage motor, carrying the ship even higher. The first stage completes a tumble recovery...the second hits apogee. Soon a 12" recovery parachute is deployed. Includes an Easy-Lock Motor Mount, Kevlar™ Shock Cord System, plastic nose cone, die-cut balsa fins, and realistic decals.



- 12" Recovery Parachute

- Booster Tumble Recovery



Recommended Rocket Motors: Upper Stage: A6-4 (first flight), A8-3, B6-4, C6-7; Booster Stage: B6-0 (first flight); Single Stage Only: C6-5
Estimated Maximum Altitude: 2,100 feet

Length: 20.25" (51.4 cm)

Diameter: .984" (25 cm)

Weight: 1.49 oz. (42 g)

SKILL LEVEL

3

ADVANCED
Recommended
for Advanced
Modelers



The two-stage Navaho with two motors achieves incredible altitudes.

FLAT CAT™

BOOST GLIDER

NEW!

Product No. 3006
 Length: 20 in (50.8 cm)
 Wingspan: 13.5 in (34.3 cm)
 Weight: 1.5 oz (42.5 g)

Competition style boost glider designed by G. Harry Stine

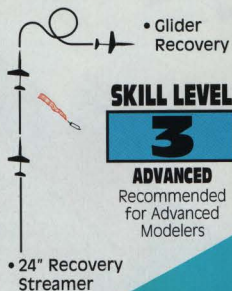
This high-performance, pop pod boost glider features an award-winning design by G. Harry Stine, the "father of model rocketry". A separate rocket pod boosts the Flat Cat Glider into the stratosphere, then releases it, allowing it to glide back down in flights lasting **up to three minutes**. Included mylar decals add glittering color and make the Flat Cat easy to spot on its descent. Instructions show you how to

"trim" the glider so it descends in a spiral. The glider comes with die-cut balsa wings and delivers flight times of up to three minutes. Quest's new B6-2 motor (sold separately) features a special short delay which is perfect for this application.

Recommended Rocket Motors: B6-2 (first flight), C6-3
Estimated Maximum Altitude: 800 ft (244 m)



After boosting the glider into the air, the rocket pod releases the glider and returns to Earth separately.



SKILL LEVEL

3

ADVANCED
 Recommended for Advanced Modelers

ZENITH II™ PAYLOADER

Product No. 3005
 Length: 22.75 in (57.8 cm)
 Diameter: .984 in (25 mm)
 Weight: 1.4 oz (40 g)

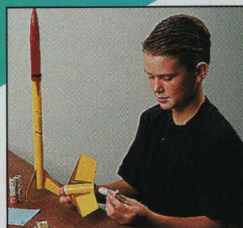
- 12" Recovery Parachute
- Booster Tumble Recovery



Towering nearly two feet in height, the Zenith II Payloader is packed with impressive

features—including a transparent red cargo bay for payload experiments, and two stages for high altitude flight. The die-cut balsa fins provide a rewarding assembly challenge for any experienced rocketeer. Quest's Kevlar™ Shock Cord System, Tuff-Chute™ parachute and Grippers™ shroud line fasteners guarantee gentle, successful payload recoveries. Colorful, self-adhesive decals are also included.

Estimated Maximum Altitude: 1,500 ft (457.3 m)
Recommended Rocket Motors: Upper Stage: A6-4 (first flight), A8-3, B6-4, C6-5, C6-7; Booster Stage: B6-0 (first flight), C6-0



Die-cut balsa fins make assembly fun and challenging.

NEW!

SKILL LEVEL

3

ADVANCED
 Recommended for Advanced Modelers

AURORA™

Product No. 3002



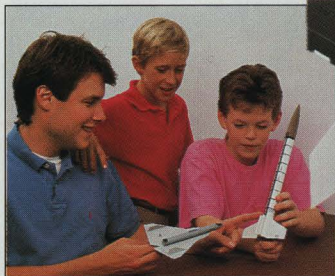
The Top-Secret "Stealth" Spy Aircraft—Revealed!

If you believe certain high government officials, the Aurora project is a myth. But reports of a frequent, pulsing roar—and numerous flying saucer sightings—around Nevada's secret "Site 51" lend convincing support to Aurora's existence. A sophisticated "black" aircraft replacing the fabled SR-71, Aurora is rocket-boosted and propelled at eight times the speed of sound by supersonic ramjets.

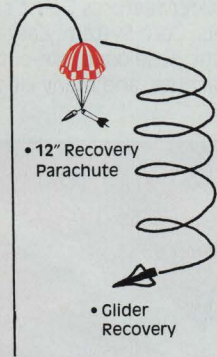
Quest's Aurora is the very first model of this experimental reconnaissance spy aircraft, and was designed following the latest unclassified reports. A booster rocket lifts the Aurora to an apogee of nearly 500 feet. Then it is jettisoned, and glides majestically back to the ground. The booster deploys a 12" recovery parachute for its descent.

The Aurora also features Quest's Easy-Lock Motor Mount, Kevlar™ Shock Cord System, plastic nose cone and fin unit, die-cut balsa wings and realistic decals.

Recommended Rocket Motors:
B6-4 (first flight), C6-5
Estimated Maximum Altitude:
500 feet



The Aurora's exciting design is based on a secret "black" spy aircraft.



Length: 15.0" (38.1 cm)
Diameter: .984" (25 mm)
Weight: 1.7 oz. (48 g)

SKILL LEVEL
3
ADVANCED
Recommended
for Advanced
Modelers

INTRUDER™

Product No. 3001

With its futuristic look, the tall Intruder rocket seems destined for interplanetary voyages. Its technology, too, is highly advanced. The Intruder features Quest's innovative Kevlar™ Shock Cord System, Easy-Lock Motor Mount, plastic nose cone, die-cut balsa fins, 12" recovery parachute, and many kit decals.

Length: 19.25" (48.9 cm)
Diameter: .984" (25 mm)
Weight: 1.3 oz. (37 g)



The Intruder's sleek, futuristic appearance adds excitement to every launch.



• 12" Recovery Parachute



Recommended Rocket Motors:
A6-4 (first flight), A8-3, B6-4, C6-5, C6-7
Estimated Maximum Altitude: 800 feet

SKILL LEVEL

3

ADVANCED
Recommended
for Advanced
Modelers

SKILL LEVEL



Die-cut balsa fins let you demonstrate your assembly skills.

X-30™ NATIONAL AEROSPACE PLANE

Product No. 4001

What if a rocket wasn't needed to reach outer space? What if a plane could be used to fly into orbit instead? These are the questions NASA and Air Force engineers asked prior to the development of the X-30. Although this project is still in the development stages (and still partially classified), the first National Aerospace Plane could lead to a future generation of hypersonic planes built to launch and retrieve satellites or carry crews to orbiting space stations.

Quest's model of the X-30 Aerospace Plane captures the prototype design of the full-size craft in intricate detail. The preprinted AeroShroud™ surrounds a sturdy internal framework. A vacuum-formed upper canopy, die-cut laminated wings and carefully crafted duct work on the body's under side add authentic touches. Also included are an Easy-Lock Motor Mount, reliable Kevlar™ Shock Cord System, dual 12" Tuff-Chute™ Parachutes with Grippers™ Recovery System and a scale data sheet with mission information.



• Dual 12" Recovery Parachutes



NEW!

Length: 16.75 in (42.5 cm)
Wingspan: 8.5 in (22 mm)
Weight: 2.75 oz (78 g)

Recommended Rocket Motors: C6-3 only
Estimated Maximum Altitude: 700 ft (213.4 m)



Detailed duct work on the bottom of the AeroShroud adds realism and stability.

SKILL LEVEL

4

EXPERT

Recommended
for Expert
Modelers

Attention teachers and youth group leaders!

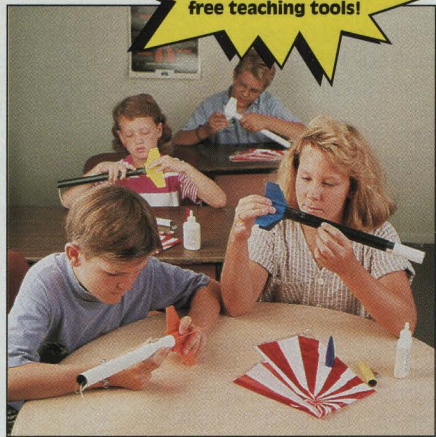
Model rocketry is more than a hobby—it's a fun, exciting learning activity for all ages. Now Quest makes it affordable for your group...and surprisingly easy to use.

For years, model rocketry has been a popular activity for classrooms, camps, scouts, and other youth organizations. Quest's Bulk Educational Packs make it especially easy for you to bring your group alive with model rocketry.

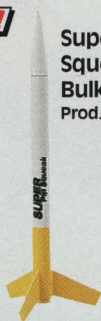
Each pack includes 12 individually bagged, easy to assemble, Skill Level 1 rocket kits, and an assembly/display cradle for each. Also featured are 12 Astra Mini Manuals of Model Rocketry, written and illustrated to explain the basic principles of model rocketry to your students.

To assist you in planning and leading your rocketry sessions, Quest includes a free Quest Science Guide with each bulk pack. Written especially for educators, this manual explains how to use rocketry to build leadership and Critical Thinking skills within **any** curriculum. The manual is also available separately (Prod. No. 9500).

Low-cost bulk packs include 12 rocket kits and \$13.00 worth of free teaching tools!

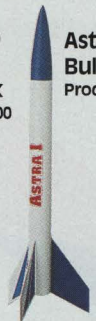


NEW!



Super Pip Squeak™ Bulk Pack
Prod. No. 5900

- Very affordable package features the 11.5" tall Super Pip Squeak rocket with 24" streamer recovery.



Astra 1™ Bulk Pack
Prod. No. 5905

- Includes Quest's most popular first rocket, with 12" parachute recovery and die-cut balsa fins.



Tracer™ Bulk Pack
Prod. No. 5910

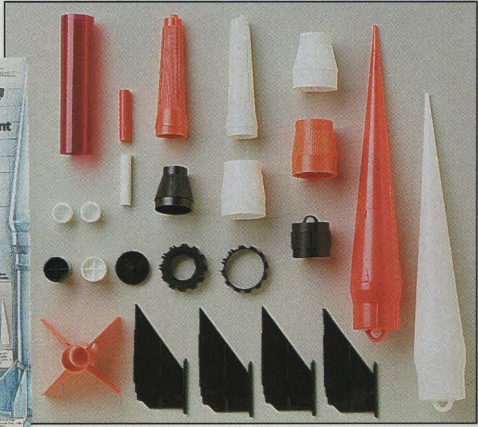
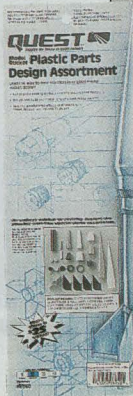
- Features the easy-to-assemble Tracer rocket, with 12" parachute recovery and one-piece plastic fin unit.

Plastic Parts Design Assortment

Create your own exciting, original rocket designs!

• Fun and challenging **NEW!** for any skill level.

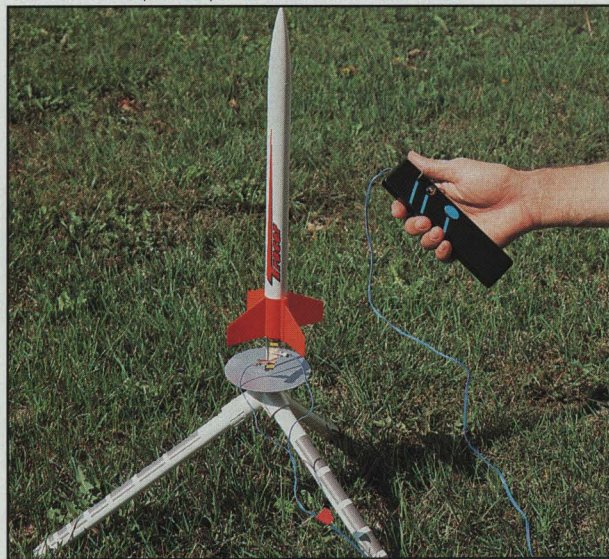
This inexpensive, 26-piece package makes it easy to design your own unique and exotic model rockets...and you can also test the aerodynamic effects of different nose cones, reducer sections and fin shapes. It includes 8 nose cones, 2 nose tips, 5 reducer sections, 2 tube couplers, 4 fins, 1 fin unit, 2 fin rings, 2 launch lugs and a transparent red, 4" long payload tube.



Prod. No. 8950

Quest Launching and Recovery Supplies

Quest rocketry equipment uses the best available materials and technology to make your hobby enjoyable and exciting. You can use Quest equipment with comparable rocket systems from other manufacturers for improved performance at a lower cost.



MODEL ROCKET LAUNCH CONTROLLER

Delivers Dependable Lift-Off Control

Prod. No. 7500

Sleek, high-tech launch controller is completely pre-assembled and delivers dependable lift-off control, launch after launch. System features 17" of launch cable, arming light, launch button, and safety key with bright yellow safety streamer. Compact for easy storage. Requires 4 "AA" size alkaline batteries for operation (not included).

CONTROLLER PARTS

Safety Key with Bright Yellow Safety Streamer

Streamer features an "Insert Before Launch" message. Prod. No. 7265.

Micro Clips



Pair of "sure contact" micro clips for reliable hook-up to TigerTail™ Igniter. Prod. No. 7260.

Launch Rod Safety Cap With Bright Yellow Wind Streamer

Plastic launch rod cap protects against potential eye injury. Bright streamer with "Remove Before Launch" message connects to cap and indicates wind direction. Prod. No. 7270.

MODEL ROCKET LAUNCH PAD

Designed to Launch All Quest Model Rockets

Prod. No. 7600

Durable, futuristic design provides a sturdy platform to launch your Quest model rockets. Adapts easily to rough terrain and features decorated legs, large blast deflector plate, 36" launch rod and DoubleSafe launch rod safety system—bright, flexible rubber launch rod safety tip and safety cap with bright yellow wind streamer. Easy and quick to assemble.

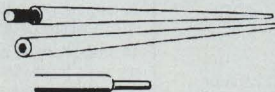
LAUNCH PAD PARTS

Launch Pad Blast Deflector Plate



Heavy-duty, 4" round metal plate with roll pin for sturdy launch rod position. Prod. No. 7255.

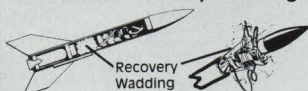
Launch Rod



Two-piece, 36" long, 1/8" dia. metal launch rod features bright, protective, flexible rubber safety tip. Prod. No. 7250.

RECOVERY SUPPLIES

Parachute Recovery Wadding



Reliable and easy-to-use material protects your plastic parachute or streamer from your rocket motor's ejection gasses. Light blue, 4"x4" sheets are completely flame retardant and biodegradable. 100 sheet value pack. Prod. No. 7020.

12" Recovery Tuff-Chute™ Kit

The strongest and most reliable parachute recovery system available. Two-color, 12" dia. plastic parachute with six tough, plastic Gripper™ shroud line fasteners and high-strength shroud line. Quest parachutes are rugged—unlike other brands that are fastened to shroud line with fragile paper tape discs. Prod. No. 8450.



Recovery Streamer Material

High-visibility, fluorescent orange streamer material makes tracking your rocket's recovery easy. 1-1/8" wide plastic material comes in 10' lengths that you cut to size. Prod. No. 8475.



Gripper™ Shroud Line Fasteners

Absolutely the best shroud line attachment tab available anywhere. Features a tough plastic design, strong adhesive, pre-punched hole and non-adhesive area for easy placement. Grippers also work great for attaching streamers to shock cords or nose cones. Prod. No. 8455.

Parachute Shroud Line

High-strength shroud line for parachutes. 10' of cotton/nylon-blend cord. Prod. No. 8460.

Kevlar™ Shock Cord

Rugged, heat-resistant Kevlar™ cord makes the toughest shock cord system available. Designed to be used together with Quest elastic shock cord material. Includes 6' of this space-age material. Prod. No. 8470. *Trademark of DuPont

Elastic Shock Cord

High-quality, strong elastic shock cord is designed to be used with Quest Kevlar™ shock cord material. Includes 6' of heavy-duty fabric cord. Prod. No. 8465.

How You Can Join the National Association of Rocketry (NAR)



Founded in 1957, the NAR is a non-profit organization whose members participate in local, regional, national and international competitions; help establish rules and standards for contests; and benefit from the many books, slide shows, technical reports, and scale rocket data available through the association.

Your initial NAR membership package includes a copy of the U.S. Model Rocket Sporting Code, containing the rules to over two dozen contests. Use this book to attend model rocket meets throughout the country, to hold your own local competitions, or to try to set official national records. You also receive a free 1-year subscription (6 issues) to American Spacemodeling magazine, which includes model rocketry news, plans, photos, tech articles, and contest reports.

You can also purchase, for a low annual fee, model rocket liability insurance—with \$1,000,000 coverage. The insurance covers bodily injuries and property damage while flying model rockets in accordance with the NAR Model Rocket Safety Code.

For membership information, write to: National Association of Rocketry
P.O. Box 177, Dept. QH Altoona, WI 54720.

Join or Start Your Own Rocketry Club

Your local hobby dealer can tell you about rocketry clubs already established in your area, whose members share your interest in the hobby.

Whether you fly rockets in a club with friends or by yourself, joining the NAR can make your hobby more fun and rewarding.



NAR Model Rocket Safety Code

1. Materials. My model rocket will be made of lightweight materials such as paper, wood, rubber, and plastic suitable for the power used and the performance of my model rocket. I will not use any metal for the nose cone, body, or fins of a rocket.

2. Motors. I will use only commercially-made, NAR-certified model rocket motors in the manner recommended by the manufacturer. I will not alter the model rocket motor (engine), its parts, or its ingredients in any way.

3. Recovery. I will always use a recovery system in my model rocket that will return it safely to the ground so it may be flown again. I will use only flame-resistant recovery wadding if wadding is required by the design of my model rocket.

4. Weight and Power Limits. My model rocket will weigh no more than 1,500 grams (53 ounces) at liftoff and its rocket motor(s) will produce no more than 320 Newton-seconds (4.45 Newtons equals 1.0 pound) of total impulse. My model rocket will weigh no more than the motor manufacturer's recommended maximum liftoff weight for the motors used, or I will use motors recommended by the manufacturer for my model rocket.

5. Stability. I will check the stability of my model rocket before its first flight, except when launching a model rocket of already proven stability.

6. Payloads. Except insects, my model rocket will never carry live animals or a payload that is intended to be flammable, explosive, or harmful.

7. Launch Site. I will launch my model rocket outdoors in a cleared area, free of tall trees, power lines, buildings, and dry brush and grass. My launch site will be at least as large as that recommended in the following table.

LAUNCH SITE DIMENSIONS

| Installed Total Impulse (N-Sec) (feet) | Equivalent Motor Type | Minimum Site Dimension |
|--|-----------------------|------------------------|
| 1.26-2.50 | A | 100 |
| 2.51-5.00 | B | 200 |
| 5.01-10.00 | C | 400 |

8. Launcher. I will launch my model rocket from a stable launch device that provides rigid guidance until the model rocket has reached a speed adequate to ensure a safe flight path. To prevent accidental eye injury, I will always place the launcher so the end of the rod is above eye level or I will cap the end of the rod when approaching it. I will cap or

disassemble my launch rod when not in use and I will never store it in an upright position. My launcher will have a jet deflector device to prevent the motor exhaust from hitting ground directly. I will always clear the area around my launch device of brown grass, dry weeds, or other easy-to-burn materials.

9. Ignition System. The system I use to launch my model rocket will be remotely controlled and electrically operated. It will contain a launching switch that will return to "off" when released. This system will contain a removable safety interlock in series with the launch switch. All persons will remain at least 15 feet from the model rocket when I am igniting model rocket motors totalling 30 Newton-seconds or less of total impulse. I will use only electrical igniters recommended by the motor manufacturer that will ignite model rocket motor(s) within one second of actuation of the launching switch.

10. Launch Safety. I will ensure that people in the launch area are aware of the pending model rocket launch and can see the model rocket's liftoff before I begin my audible 5-second count down. I will not launch a model rocket so its flight path will carry it against a target. If my model rocket suffers a misfire, I will not allow anyone to approach it or the launcher until I have made certain that the safety interlock has been removed or that the battery has been disconnected from the ignition system. I will wait one minute after a misfire before allowing anyone to approach the launcher.

11. Flying Conditions. I will launch my model rocket only when the wind is no more than 20 miles per hour. I will not launch my model rocket so it flies into clouds, near aircraft in flight, or in a manner that is hazardous to people or property.

12. Pre-Launch Test. When conducting research activities with unproven model rocket designs or methods I will, when possible, determine the reliability of my model rocket by pre-launch tests. I will conduct the launching of an unproven design in complete isolation from persons not participating in the actual launching.

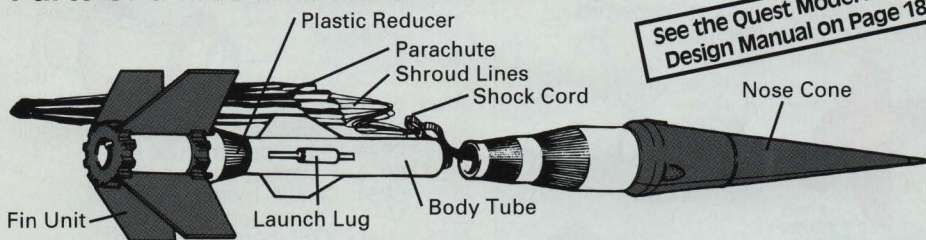
13. Launch Angle. My launch device will be pointed within 30 degrees of vertical. I will never use model rocket motors to propel any device horizontally.

14. Recovery Hazards. If a model rocket becomes entangled in a power line or other dangerous place, I will not attempt to retrieve it.



Use Quest Parts to Customize or Design Your Own Rocket

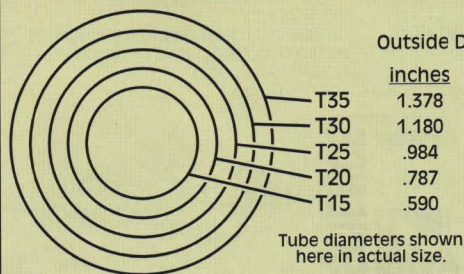
Parts of a Model Rocket:



See the Quest Model Rocket Design Manual on Page 18.

Quest's wide assortment of parts can be used by the beginner or experienced rocketeer who wants to explore new designs and ideas. This illustration shows how various Quest parts can be combined to make an endless number of different and exciting designs.

Selecting Parts:



Outside Diameter

| | inches | mm |
|-----|--------|----|
| T35 | 1.378 | 35 |
| T30 | 1.180 | 30 |
| T25 | .984 | 25 |
| T20 | .787 | 20 |
| T15 | .590 | 15 |

Tube diameters shown here in actual size.

All parts are based on body tube sizes. Tubes are designated by using "T" for tube combined with the outside diameter of the tube in millimeters and the length of the tube in inches. A 35mm diameter tube that is 18 inches long is a T3518 tube. A plastic reducer for a T35 to a T25 tube would be PR3525. All tubes have a wall thickness of .02 inches or .51 millimeters.

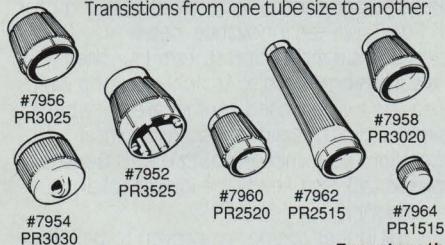
BODY TUBES

High quality, lightweight tubes with pre-colored white finish.

| Prod # | Tube | | Length | |
|--------|------|-------------|--------|------|
| | Size | Description | inches | cm |
| 8060 | T35 | T3518 | 18 | 45.7 |
| 8062 | T35 | T3524 | 24 | 61 |
| 8064 | T30 | T3018 | 18 | 45.7 |
| 8066 | T30 | T3024 | 24 | 61 |
| 8068 | T25 | T2518 | 18 | 45.7 |
| 8070 | T25 | T2524 | 24 | 61 |
| 8072 | T20 | T2018 | 18 | 45.7 |
| 8074 | T20 | T2024 | 24 | 61 |
| 8076 | T15 | T1518 | 18 | 45.7 |
| 8078 | T15 | T1524 | 24 | 61 |

PLASTIC REDUCERS

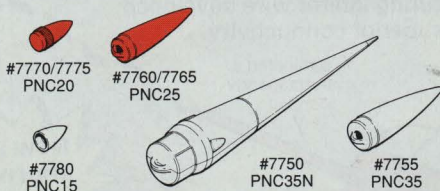
Transitions from one tube size to another.



| Prod # | Desc. | Mate Sizes | Taper Length | |
|--------|--------|------------|--------------|------|
| | | | inches | mm |
| 7950 | PR3530 | T35 to T30 | .78 | 19.8 |
| 7952 | PR3525 | T35 to T25 | .78 | 19.8 |
| 7954 | PR3030 | T30 to T30 | .50 | 12.7 |
| 7956 | PR3025 | T30 to T25 | .75 | 19 |
| 7958 | PR3020 | T30 to T20 | .75 | 19 |
| 7960 | PR2520 | T25 to T20 | .75 | 19 |
| 7962 | PR2515 | T25 to T15 | 3.00 | 76.2 |
| 7964 | PR1515 | T15 to T15 | .125 | 3.18 |

PLASTIC NOSE CONES

Most popular sizes, shapes and color choices.



| Prod# | Description | Fits Tube Size | Color | Length | |
|-------|-------------|----------------|--------|--------|-------|
| | | | | inches | mm |
| 7750 | PNC35N | T35 | White | 8.31 | 211 |
| 7755 | PNC35 | T35 | White | 4.125 | 105 |
| 7760 | PNC25 | T25 | White | 3.15 | 80 |
| 7765 | PNC25 | T25 | D-glo* | 3.15 | 80 |
| 7770 | PNC20 | T20 | White | 2.53 | 64.27 |
| 7775 | PNC20 | T20 | D-glo* | 2.53 | 64.27 |
| 7780 | PNC15 | T15 | White | 1.0 | 25.4 |

* D-glo is fluorescent red/orange.

HOLLOW TUBE COUPLERS

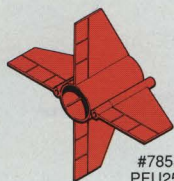
Internally joins body tubes of the same size.

| Prod# | Description | Fits Tube | Length | |
|-------|-------------|-----------|--------|----|
| | | | inches | mm |
| 8250 | HTC35 | T35 | 2.0 | 51 |
| 8253 | HTC30 | T30 | 2.0 | 51 |
| 8256 | HTC25 | T25 | 1.25 | 32 |
| 8259 | HTC20 | T20 | 1.25 | 32 |

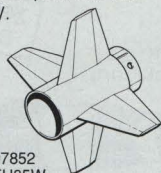
Use Quest Parts to Customize or Design Your Own Rocket

PLASTIC FIN UNITS

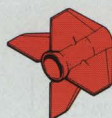
Durable, light-weight designs for perfect fin alignment and faster assembly.



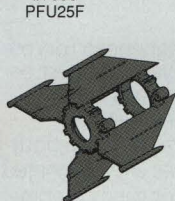
#7858
PFU25F



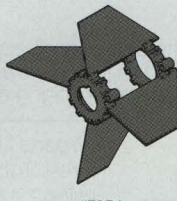
#7852
PFU35W



#7860
PFU20F



#7856
PFS31



#7854
PFS30

| Prod# | Description | Fits Tube Color | Size |
|-------|----------------------------|-----------------|--------|
| 7852 | PFU35W 1 pc. Nike fin unit | T35 | White |
| 7854 | PFS30 Apollo flat fin set | T30 | Black |
| 7856 | PFS31 Custom flat fin set | T30 | Black |
| 7858 | PFU25F 1 piece fin unit | T25 | D-glo* |
| 7860 | PFU20F 1 piece fin unit | T20 | D-glo* |

* D-glo is fluorescent red/orange.

MOTOR MOUNT PARTS

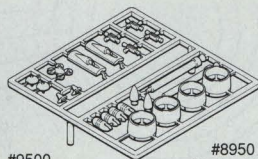
Rings and tubes to make a variety of mounts.



| Prod # | Description |
|--------|--|
| 8350 | TR19 Thrust Ring (forward motor stop) |
| 8355 | CR24 Centers motor tube in T25 |
| 8360 | CR29 Centers motor tube in T30 |
| 8365 | CR34 Centers motor tube in T35 |
| 8370 | MH1 Easy-Lock motor hook |
| 8375 | MM1 2.75" motor mount tube (fits inside T20) |

MISCELLANEOUS ITEMS

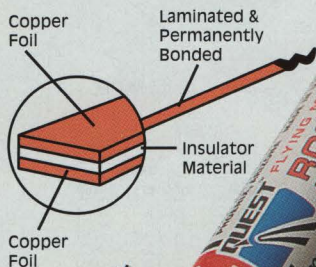
| Prod # | Description |
|--------|---|
| 8550 | LL1 Launch lugs 1" |
| 8555 | LL2 Launch lugs 2" |
| 8560 | T2504CLR 4" red tint payload section (fits T-25 tube) |
| 8950 | CP1 Customizing detail parts set (includes 24 assorted molded plastic, fintip rockets, nozzles, flares, etc.) |
| 9500 | Science Guide |



#8950
Customizing
Parts Set

#9500
Science
Guide

Featuring igniter wire developed for superior conductivity.



Copper Foil

- Reliable
- Durable

TigerTail II™

The revolutionary igniter that gives you complete launch control.

New and Improved Design



Quest continues to perfect the reliability of rocket motor igniters with the TigerTail II—an innovative, nearly indestructible design that's a must for fast, easy launches.

Yet the TigerTail II is surprisingly simple. An adhesive strip wraps onto the igniter wire, leaving two exposed contact areas—where your launch controller's micro clips make good, solid electrical contact. The igniter wire locks into your motor's nozzle with Quest's unique "TigerTac" ...a small, plastic tack that keeps the igniter solidly in place to provide exceptional reliability.

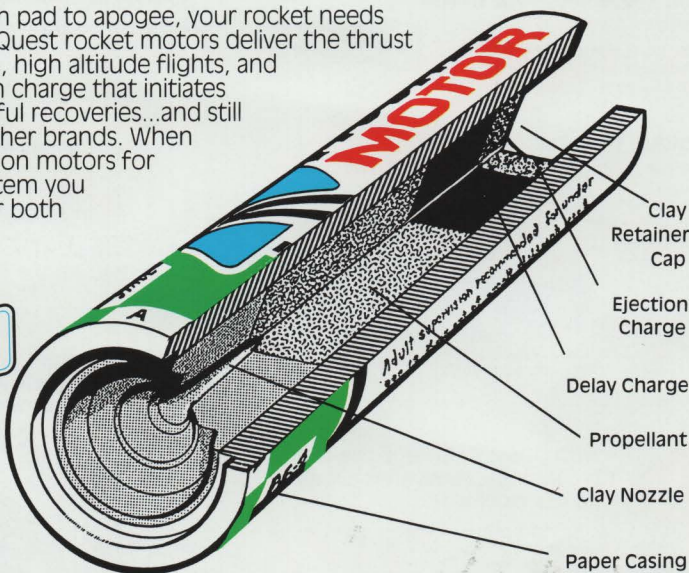
Quest's laminated copper foil igniter design has proven to be far more durable than fragile, dual-lead wire igniters. The TigerTail II is so dependable, in fact, that you'll want to use it with all compatible rocket systems for high-tech reliability! TigerTail II igniters are included with all Quest Model Rocket Motors and are also available separately. **Product No. 7010**, package of 6.

Quest introduces the most reliable rocket power system ever developed.

To go from its launch pad to apogee, your rocket needs dependable power. Quest rocket motors deliver the thrust required for exciting, high altitude flights, and produce the ejection charge that initiates consistently successful recoveries...and still cost less than any other brands. When it's time to stock up on motors for whatever rocket system you fly, choose Quest for both power and value.



Each package of Quest Rocket Motors includes 3 motors and 3 TigerTail igniters.



| | A6-4 | B6-0 | B6-2 | B6-4 | C6-0 | C6-3 | C6-5 | C6-7 |
|-----------------------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|-------------|
| Product No. | 6164 | 6260 | 6262 | 6264 | 6360 | 6363 | 6365 | 6367 |
| Type | Single Stage | Booster Stage | Single Stage | Single Stage | Booster Stage | Single Stage | Single Stage | Upper Stage |
| Total Impulse lb. - sec. | .56 | 1.12 | 1.12 | 1.12 | 2.25 | 2.25 | 2.25 | 2.25 |
| Total Impulse Newton - sec. | 2.50 | 5.00 | 5.00 | 5.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| Time Delay | 4 sec. | none | 2 sec. | 4 sec. | none | 3 sec. | 5 sec. | 7 sec. |
| Max Lift Weight (oz./g.) | 2.5/74 | 4.0/113 | 4.0/113 | 4.0/113 | 4.0/113 | 4.0/113 | 4.0/113 | 4.0/113 |
| Propellant Weight (oz./g.) | .12/3.5 | .23/6.5 | .23/6.5 | .23/6.5 | .44/12.5 | .44/12.5 | .44/12.5 | .44/12.5 |

Motor Code Explanation:

A Letter is Total Impulse or total power produced by the motor. Each succeeding "letter" has double the power of the previous; for example, a "B" type motor is double the power of an "A" type motor.

6 The first numeral indicates how fast the motor enables your rocket to travel. The higher the number, the greater the speed. The number itself stands for the average thrust in Newton-seconds, or the average force exerted.

4 The last number is the delay code in seconds. This is the time duration from the end of thrust to the activation of the ejection charge.

A6-4

Technical Notes

- All figures shown are optimum performance.
- Actual Thrust-Time curves are included with each motor.
- A Newton(N) is the measurement of force required to move one kilogram of mass one meter per second per second. [4.45N = 1.0 lbs.]

Quest rocket motors have met the standards set by:

- The National Association of Rocketry
- The National Fire Protection Association
- California State Fire Marshal



Safety

Quest rocket motors are manufactured under very strict quality-control standards. The very finest propellant materials are carefully processed into a safety-proven rocket motor design.

How Quest gives you more rocketry excitement for your money.

- You spend less—for better quality.

Quest rockets are easier to build and fly than comparable models from other manufacturers (who often charge you *more*).



- Unique TigerTail™ II Igniters make every launch an instant success.



Easy to use and extremely dependable, TigerTail II igniters feature a highly durable copper/ foil laminate wire—held securely in your rocket motor's nozzle with revolutionary plastic TigerTacs (see page 26).

- With Quest's state-of-the-art technology, recoveries always go like clockwork.



Our shock cord is made of durable, cloth-covered elastic and heat-proof Kevlar™—a material also used in bullet-proof vests. Sturdy Gripper™ plastic shroud line fasteners, attached to rugged Tuff-Chute™ parachutes, add even more strength. Flight after flight, the system works like a charm!



Kevlar™ is a registered trademark of DuPont.

- Color-coded parts help you speed through assembly.

Anyone who can follow directions like "Slip the blue ring into the yellow tube" can build a Quest rocket perfectly.



- Brilliantly precolored parts offer stunning good looks.

No painting is necessary! Most plastic parts in Quest kits are molded in bright colors. The precolored white body tubes also have a high-tech sheen.



- All Quest rockets are designed for easy motor installation and removal.

The finger tab at the bottom of Quest's Easy-Lock Motor Mount (included with all kits) makes motor installation and removal fast and easy—even in kits with small body tubes.



- Every Quest flying model rocket is backed with an Iron-Clad Guarantee...



If for any reason you are not satisfied with our product, Quest will provide whatever you think is fair, from refund to replacement.

You can also use Quest rocket equipment with many flying model rockets made by other manufacturers for improved performance and reliability!