

NEW! from ESTES

ASTRON BETA

- ★ FLY IT SINGLE-STAGE
- ★ FLY IT MULTI-STAGE
- ★ EASY TO BUILD

RECOMMENDED ENGINES

SINGLE OR UPPER STAGE

½A6-2S, ½A6-4S
A5-4S

BOOSTER

½A6-OS
A5-OS

**ONLY
\$1.00**

SPECIFICATIONS

Body Diameter . . . 0.736 in.

SINGLE STAGE

Length 12-½ in.
Weight 0.55 oz.

TWO STAGE

Length 13-¾ in.
Weight 0.75 oz.

HIGH PERFORMANCE

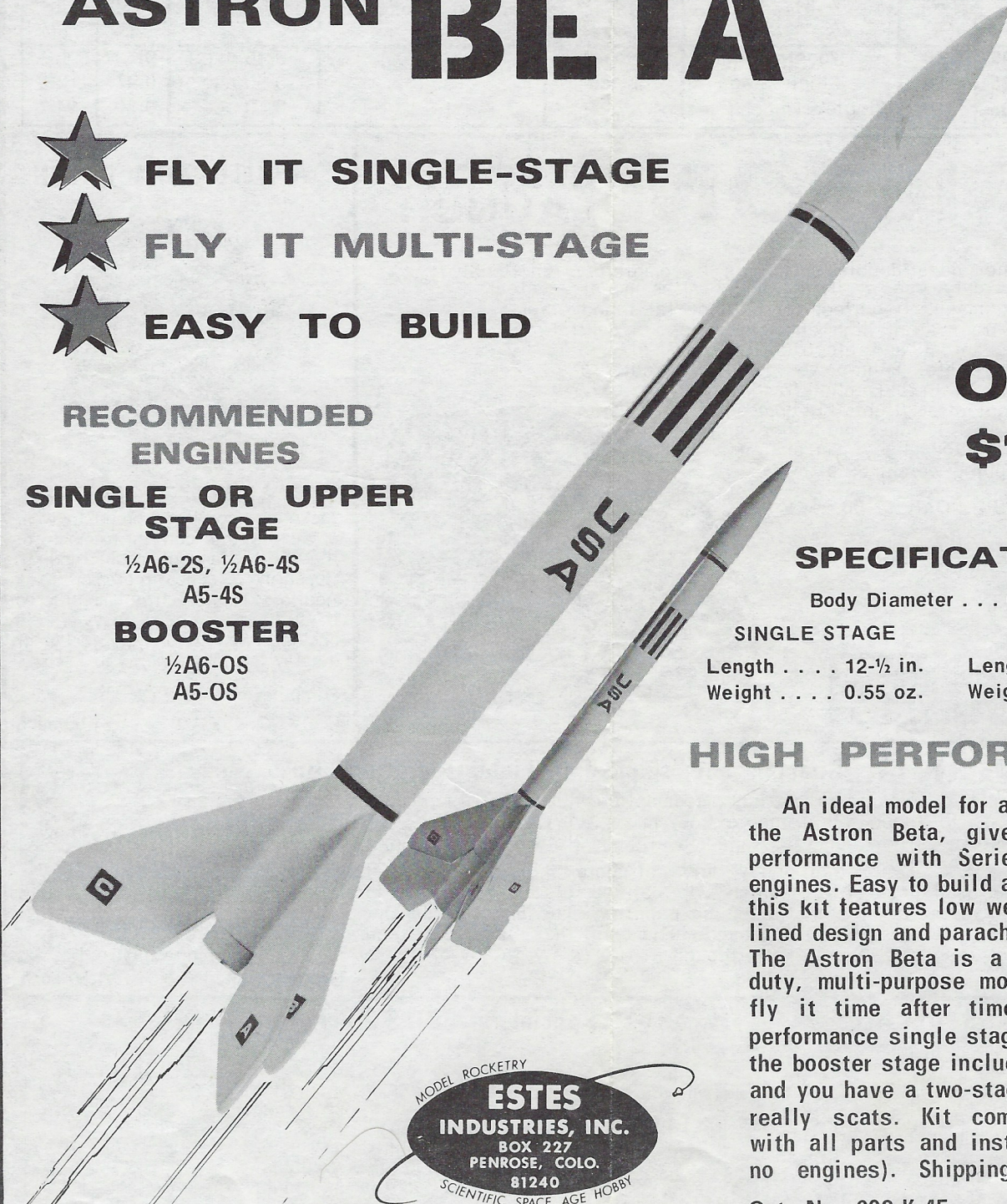
An ideal model for any rocketeer, the Astron Beta, gives king size performance with Series III (short) engines. Easy to build and fun to fly, this kit features low weight, streamlined design and parachute recovery. The Astron Beta is a real double-duty, multi-purpose model. You can fly it time after time as a high performance single stage model; add the booster stage included in the kit and you have a two-stage model that really scats. Kit comes complete with all parts and instructions (but no engines). Shipping wt. 5 oz.

Cat. No. 692-K-45

\$1.00 each

USES SERIES III (SHORT) ENGINES

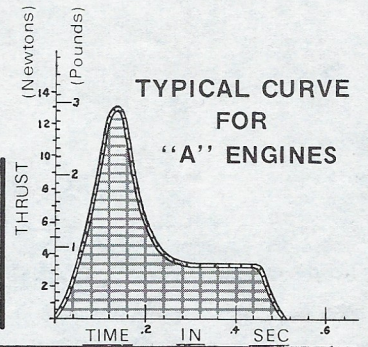
MODEL ROCKETRY
ESTES
INDUSTRIES, INC.
BOX 227
PENROSE, COLO.
81240
SCIENTIFIC SPACE AGE HOBBY



SHORT "A" HIGH ALTITUDE PERFORMANCE IN A "SHORT" ENGINE

TOTAL IMPULSE: 0.56 Pound Seconds
2.50 Newton Seconds
MAXIMUM THRUST: 46 oz.
PROPELLANT WEIGHT: 0.11 oz.
(3.12 grams)
LENGTH: 1.75 in. **DIAMETER:** 0.69 in.

Fly short engine models such as the Astron Sprite, Midget, Beta, etc. to amazing altitudes with these new engine types. The greater total impulse of 2.50 newton-seconds lets you fly efficient models to altitudes approaching 1,000 feet.



Cat. No. and Engine Type	Prices		Recommended Use	Time Delay 15%	Maximum Lift-Off Weights w/engines	Thrust Duration	Initial Weight	
	ea.	3 For					oz.	gr.
A5-OS	\$.35	\$.80	Booster Engine	None	3.0 oz.	0.48 sec.	0.42	11.9
A5-2S	.35	.80	Single Stage	2 sec.	3.0 oz.	0.50 sec.	0.47	13.3
A5-4S	.35	.80	Single or Upper Stage	4 sec.	1.5 oz.	0.50 sec.	0.52	14.7

PHANTOM ELECTRO-LAUNCH

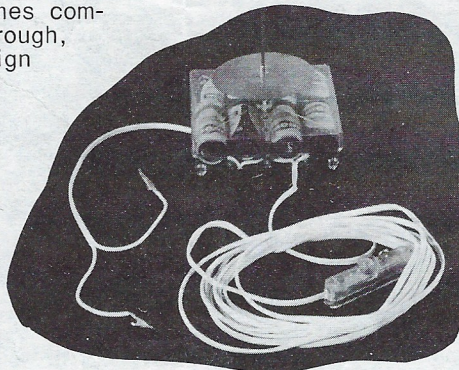
Now one launcher does double duty. It's a completely functional launcher for heavy duty use in flying model after model -- clear plastic construction makes it perfect for science fairs and other rocketry displays. Transparent high strength base and control unit make the mechanical and electrical features of the launcher instantly visible. High-power 12 volt circuit comes complete with 8 size D photoflash cells for instant ignition flight after flight. Kit comes complete with all parts, instructions, and a thorough, informative manual on launch system design and operation. Shipping weight: 62 oz.

CAT. NO. 692-FS-8B Only \$7.00

Also available without the 8 photoflash cells. Shipping wt: 30 oz.

CAT. NO. 692-FS-8 \$4.50

Note: Regular Electro-launch models (FS-4 and FS-4B) are still available.



APOLLO ARM PATCH



As an American and a model rocketeer, you'll be proud to wear or display this colorful memento of the first manned moon landing. Measuring 3 inches in diameter, the Apollo 11 arm patch is embroidered in full color on a heavy fabric backing. Wear it on your jacket or display it on your wall.

Shipping weight: 2 oz.

CAT. NO. 692-AD-1 . . . \$1.00 each

ANNOUNCING...Specials now shipped in Field Operations Box

Another bonus goes to rocketeers getting the complete Starter outfits (#DSK-70 and #DSK-85) as well as to those who receive custom assortments (ES-50A, #ES-100A and #ES-150A). These items now come packaged in a handy field operations box.

Measuring 3 1/2" x 8" x 20", this heavy duty corrugated box is designed to make carrying your gear to the launch site a "cinch". It features lots of space for engines, igniters, wadding, and all sorts of other launching supplies. The Estes Field Operations Kit is designed with a convenient carrying handle and a lid that "latches" securely to keep your equipment in order. Best of all, though -- it's free with any of the outfits listed above.



Available separately, too.

Shipping weight: 17 1/2 oz.

CAT. NO. 692-RB-3 . . . \$1.50 each

MODEL MARKINGS DECAL

Dress up your models with this convenient collection of markings, numbers, patterns, etc. to dress up your models. Black decal is printed on clear backing -- cut out the part you want to use, dip in warm water for 30 seconds and slide off backing paper onto your model. Measures a big 4" x 9".

Shipping weight: 1 oz.

CAT. NO. 692-D-12 . . . \$.25 each



Special for ESTES Rocketeers

As a special "Thank-you" we're including a sheet of shock-cord mounts with every order for \$2.00 or more shipped during the rest of 1969. Printed on high-strength paper, this sheet contains 16 shock cord mounts for attaching shock cords to your models plus complete instructions for use. We appreciate your orders.

