

**WITH 4
SPECIAL OFFER
KITS**

**INCLUDING THE ALL NEW
SUPER-PERFORMANCE
MINI-BRUTE HORNET**

HERE'S
YOUR
OFFICIAL
PASSPORT
TO
OUTERSPACE



FREE WITH ORDER
Model Rocket Booster Sticker

ONLY 25¢
with \$10.00 order:

NEW MINI-BRUTE HORNET

Not available in catalog.

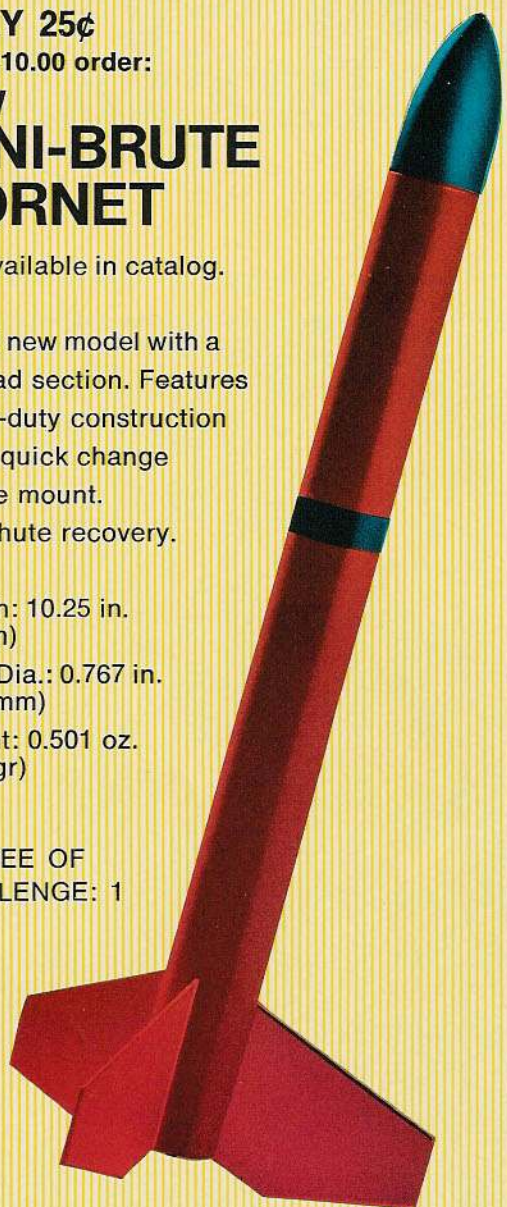
Brand new model with a payload section. Features heavy-duty construction and a quick change engine mount. Parachute recovery.

Length: 10.25 in.
(26 cm)

Body Dia.: 0.767 in.
(19.5 mm)

Weight: 0.501 oz.
(14.2 gr)

DEGREE OF
CHALLENGE: 1



Recommended Engines:

½ A3-2T, A3-2T, A3-4T

Shipping Wt.: 4 oz.

Order TK-4

**THE HORNET
FANTASTIC PERFORMANCE!**

ONLY 25¢
with \$7.50 order:

ASTRON GOBLIN

Not available in catalog.

Powerful. Fast. This spooky kit gets up and moves. It's the rocket you'll need a good recovery team for. Adapters permit a wide range of engine possibilities.

Length: 14.32 in.
(36.3 cm)

Body Dia.: 1.325 in.
(33.6 mm)

Weight: 2.0 oz.
(56.6 gr)

DEGREE OF
CHALLENGE: 1

Recommended for
Experienced
Rocketeers



Recommended Engines:

D-13-7 (Or others, like C6-5, B6-4 and A8-3,
with adapter EM-2050)

Shipping Wt.: 7 oz.

Order 702-K-55

ONLY 25¢
with \$5.00 order:

ASTRON STINGER

Not available in the catalog.

This easy-to-build streamer recovery model really travels. Especially designed for aerodynamic efficiency. Reaches extremely high altitudes — flight after flight.

Length: 12.5 in.
(31.7 cm)

Body Dia.: 0.736 in.
(18.7 mm)

Weight: 0.75 oz.
(21.2 gr)

DEGREE OF
CHALLENGE: 1

Recommended Engines:

½ A6-2, A5-4, A8-3, B6-6, B4-6, C6-7

Shipping Wt.: 5 oz.

Order 702-K-53



ONLY 25¢
with \$5.00 order:

ASTRON MARK

High-flying streamer recovery bird is ideal for contest, sport and demonstration flying. Clean design and simple construction make the Mark a favorite of many rocketeers.

Length: 9.1 in.
(23.1 cm)

Body Dia.: 0.765 in.
(19.4 mm)

Weight: 0.7 oz.
(20 gr)

DEGREE OF
CHALLENGE: 1

Recommended Engines:

½ A6-2, A8-3, B6-4, C6-5

Shipping Wt.: 5 oz.

Order 651-K-2



FOLLOW THEIR FLIGHTS

**with your own
"scratch design"
Mini-Brute
model rocket**

**with the all new Estes
ROCKETRONICS**

Here's all the parts you'll need to design and build your own Mini-Brute Kit.

Nose Cones:

BNC 5V (Listed in regular catalog)25
BNC 5E (Listed in regular catalog)25
BNC 5S (Listed in regular catalog)25
BNC 5W (Listed in regular catalog)40
BNC 5AW (Used on the Screamer)35

Body Tubes:

BT-5 18" long30
BT-5P 5.1" long15

Engine Block:

EB-5B20
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Engine Holder:

EH-320
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Balsa Tube Adapter:

TA52030
TA55035

Stage Coupler:

JT5C10
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Parachute:

PK825
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Small Parts:

Screw-Eye SE-3	3/.10
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Nose Cone Weights:

NCW-2	10/.20
NCW-4	10/.20

Now Estes brings a whole new concept and dimension to Model Rocketry.

The TRANSROC Transmitter is your basic unit. Launched in its basic module it sends back an intermittent beacon to serve as a rocket finder or demonstration unit. After taking this first step you'll soon want to add other (not included) low-cost components to make your TRANSROC flights even more valuable. By adding the microphone package to the basic unit you will be able to hear, even record and analyze, all the sounds from on board your rocket, including the countdown, lift-off, stage separation, wind noises and parachute ejection. With the Roll Rate Sensor you can study the effects of the fin alignment, or conduct experiments on the effects of other aerodynamic surfaces. You can also add the TM (Telemetry Module) and transmit and record direct from your rocket important data such as temperature.



The TRANSROC system is available now, and is so versatile you'll be able to adapt it to all your future telemetry needs; yet the basic unit and all add-on components are engineered to fit the rocketeer's budget.

TRANSROC TRANSMITTER

When the rocket is launched, this tiny transmitter which requires no FCC license sends back an interrupted beep every second which can be received on standard walkie-talkie receivers or other Citizen's Band receivers set to any Channel in the 27 mg. Citizen's Band. This beacon signal is perfect for a basic demonstration of radio broadcast techniques and for recovering models difficult to locate.

The closer you approach the rocket, the stronger the signal becomes. A small 15-volt battery sends loud and clear signals with an effective range of 5 miles in flight and several hundred yards on the ground. The kit, when

assembled, weighs only 0.6 oz. (without battery) and comes complete with crystal and trailing wire antenna. The battery, which operates the transmitter up to 24 hours, is not included. The device assembles in an evening, fits perfectly in a BT-50 body tube, or can be easily adapted to larger rockets.

Shipping wt. 5 oz. Order Number TX-1 Price \$14.95

For those with no electronic kit building experience, we suggest the completely assembled and tested Transroc.

Order Number TX-1A Price \$21.95

ROCKETRONICS CATALOG

Return this coupon today for your free Rocketronics Catalog. The Catalog lists all the Rocketronics Kits, the Science Fair Kits and has a complete Technical Section.

Please send the Rocketronics Catalog to:

NAME _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____

**Mail to:
 ESTES INDUSTRIES, INC.
 P.O. Box 227
 Penrose, Colorado 81240**

LAUNCH

AN ESTES ROCKET!

DEMON

Degree of Challenge: Two

Use "D" power (or other engines with an EM-2050 Adapter) on this new NASA research-type vehicle. Comes with easy-to-see bright silver press-on foil trim. When applied to the payload section, the trim actually acts as a flashing beacon to help you in in-flight tracking and recovery of the Demon. Makes it a perfect bird for high altitude experimentation. Kit includes two-color decals and parachute recovery.

Specifications:

Length: 26.5 in. (67.3 cm)
 Body Dia.: 1.325 in. (33.6 mm)
 Weight: 2.75 oz. (78 gr)
 Shipping wt. 12.5 oz.
 Price: **\$3.95**
 Order Number K-58

Recommended Engines:

D13-7;
 Also, B6-4, B14-5, C6-5
 (Using EM-2050 Adapter)

BANDIT

Degree of Challenge: Two

Features a new Ejection Ducting System so there's no need for recovery wadding, and no need to spend a lot of time prepping the Bandit for flight. The Bandit has a military rocket styling when the two-color decals are applied. The advanced recovery system will further your knowledge of model rocketry techniques.

Specifications:

Length: 25.75 in. (65.4 cm)
 Body Dia.: 1.325 in. (33.6 mm)
 Weight: 2.6 oz. (37.9 gr)
 Shipping wt. 12.5 oz.
 Price: **\$3.75**
 Order Number K-48

Recommended Engines:

A8-3, B4-4, B6-4,
 B14-5, C6-5
 Use B6-4 for first flights.

SKYDART

Degree of Challenge: Three

This totally new rocket boosted glider design features an internal rear ejection power pod. Streamlined "Business SST" body styling results in a high performance glide along with good reliability. Parachute recovery brings power pod back safely for flight after flight. Other features include a movable elevator for positive stability change using an elevator trim screw for accurate and repeatable adjustments.

Specifications:

Wing Span: 12.6 in. (31.8 cm)
 Length: 15.8 in. (40 cm)
 Body Dia.: .976 in. (24.8 mm)
 Weight: 1.25 oz. (35.4 gr)
 Weight of Glider with Pod: 2.5 oz. (70.8 gr)
 Shipping wt. 12 oz.
 Price: **\$3.25**
 Order Number K-57

Recommended Engines:

A5-2, B4-2, C6-3

MARK II

Degree of Challenge: One

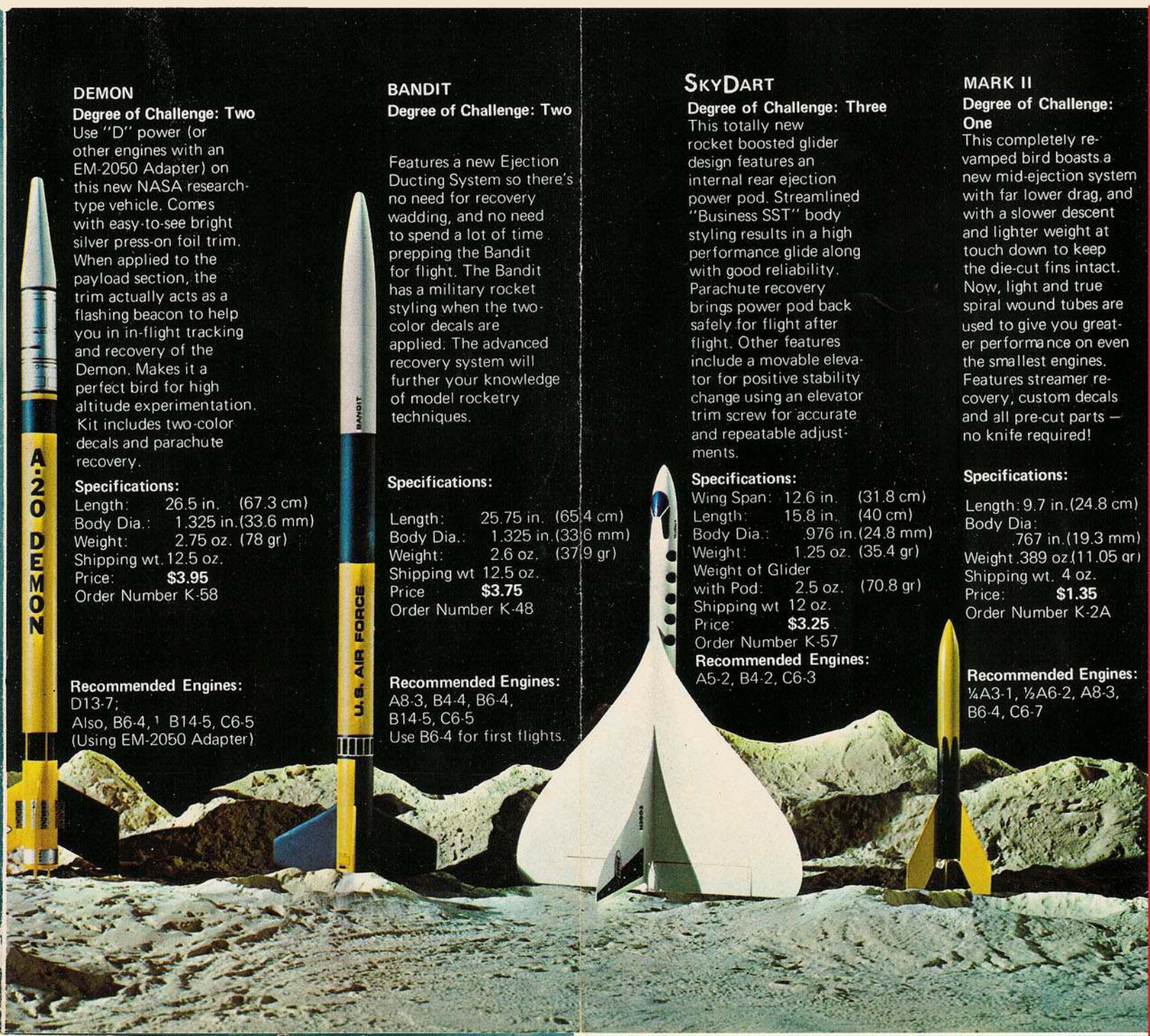
This completely re-vamped bird boasts a new mid-ejection system with far lower drag, and with a slower descent and lighter weight at touch down to keep the die-cut fins intact. Now, light and true spiral wound tubes are used to give you greater performance on even the smallest engines. Features streamer recovery, custom decals and all pre-cut parts — no knife required!

Specifications:

Length: 9.7 in. (24.8 cm)
 Body Dia.: .767 in. (19.3 mm)
 Weight: .389 oz. (11.05 gr)
 Shipping wt. 4 oz.
 Price: **\$1.35**
 Order Number K-2A

Recommended Engines:

¼A3-1, ½A6-2, A8-3,
 B6-4, C6-7



IN A SOARING SALUTE TO APOLLO 15



Launch your Estes model rocket within two weeks of the July 26th Apollo 15 liftoff—and share, in a symbolic way, in the courageous activities of America's astronauts!

By producing your own miniature space shot, you will show your support of our nation's space program and you will receive a free certificate like the one shown above—



signifying your successful "Follow Apollo 15" launch from Vern Estes, president of Estes Industries. Just write Vern after your launch.

An ideal way to salute Apollo 15 would be to include research on the Apollo program, careful checking out of your launch complex, safety inspection of your model rocket, recovery crew position, suitable arrangements for spectators and duplication of the pre-launch countdown procedure.

To simulate actual conditions, set your launch's time slot in advance. You might select a launch window of 20 minutes centering on one hour after the main launch so that you can watch Apollo 15 on T.V. This means you could launch your Estes model rocket any time between 50 and 70 minutes after the July 26 Apollo launch. If this will be after dark in your area, you may elect to launch before the actual Apollo lift-off.



Your launch facilities should be readied in advance and placed in a standby condition. Suitable protection should be provided for your model rocket and your launch complex so they can safely withstand possible temporary poor weather. It is important that you re-ready your rocket recovery system just before launching.

Order your Estes model rocket now—and start building it as soon as possible. When your countdown reaches the instant of ignition, track your rocket's ascent as it follows Apollo 15 toward space.

SPECIAL OFFERS!

WHEN YOUR ORDER IS FOR \$5.00 OR MORE YOU CAN RECEIVE ONE OF THE SPECIAL OFFER KITS SHOWN IN THE COUPONS. TO RECEIVE YOUR KIT, CHECK THE APPROPRIATE SQUARE BELOW.

- MY ORDER IS OVER \$5.00. SEND THE MARK FOR ONLY 25¢.
- MY ORDER IS OVER \$5.00. SEND THE STINGER FOR ONLY 25¢.
- MY ORDER IS OVER \$7.50. SEND THE GOBLIN FOR ONLY 25¢.
- MY ORDER IS OVER \$10.00. SEND THE HORNET FOR ONLY 25¢.

WITH ANY LARGER TOTAL ORDER PLACED AT FULL PRICE YOU ARE ENTITLED TO RECEIVE KITS JUST AS THOUGH YOU HAD PLACED A NUMBER OF INDIVIDUAL ORDERS OF \$5 OR \$10.

ORDER FORM

TYPE OR PRINT PLAINLY IN INK
(If additional space is needed use a separate sheet of paper.)

ENCLOSED IS \$ _____

DATE: _____

PLEASE RUSH THESE ITEMS TO:

Quan.	Cat. No.	Product Description	Unit Price	Total
PLEASE TYPE OR PRINT PLAINLY IN INK				
1				
2				
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Your Name _____

Address _____

City _____ State _____

Age _____ ZIP CODE _____

Is this your first order? Yes No

Was your last order more than one year ago? Yes No

For Office Use Only

Amt. Recd. _____

Checked By _____

No. Labels _____

No. Pkgs. _____

P _____

N/F _____

MOVED RECENTLY?

If you have moved since your last order, please write your old address below.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

CATALOG REQUEST

Do you have a friend who is interested in becoming a model rocketeer? Fill out his name and address below and we will send him a catalog free of charge.

Friend's Name _____

Address _____

City _____ State _____ Zip Code _____

ADD 25¢ FOR SPECIAL OFFER KIT.

Please do not write in this space.

YOUR ORDER WILL REACH YOU FASTER IF YOU INCLUDE YOUR CORRECT ZIP CODE ON ORDER.



A SUBSIDIARY OF DAMON
ESTES INDUSTRIES, INC.
Box 227
Penrose, Colorado 81240

AMOUNT THIS ORDER

State Sales Tax (Colo. Orders Only)

For Orders under \$2.00, add 25¢ handling

Balance Due Estes Industries from Previous Order

Priority Postage (If desired)

TOTAL ENCLOSED