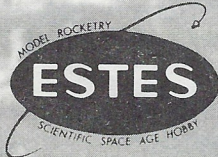


# YESTERDAY and TOMORROW

## Mercury- Redstone

by



### RECOMMENDED ENGINES

A8-3 B6-4 C6-5

### SPECIFICATIONS

Length 23-1/2 in.  
Body Dia. 1.637 in.  
Weight 2-1/8 oz.

### DUAL PARACHUTE RECOVERY

A beautiful rocket to thrill even the most advanced rocketeer, the Mercury Redstone is an exact scale model of the vehicle that boosted Commander Alan Shepard on America's first manned ballistic space flight. Scaled at 1 to 42, the model is accurately detailed and includes a complete decal sheet. Although it requires care and precision in construction, the completed model will become one of your favorite rockets. Shipping weight 16 oz.

CAT. NO. 683-K-41

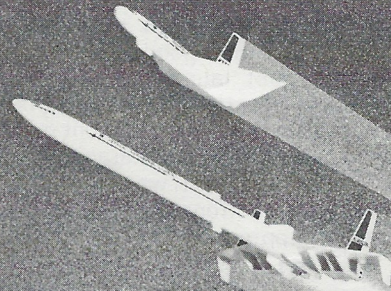
# NEW

## Historic Scale Model

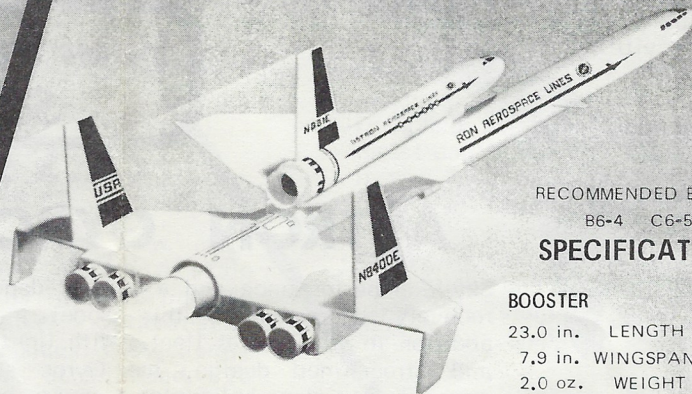
Only  
**\$2.<sup>75</sup>**

Based on the latest proposals for a reusable, air breathing (scramjet) booster stage for orbital vehicles, the Orbital Transport gives you a look at the launch vehicle of 1985. Realistic in appearance and operation too, the Transport lifts off under rocket power just like the big one would. At ejection the model's "reentry vehicle" separates and glides back; the booster returns by parachute. Kit comes complete with colorful decal and an explanation of the principles and proposals for air breathing boosters. Shipping weight 16 oz.

CAT. NO. 683-K-42 ONLY \$2.50



## ORBITAL TRANSPORT



### RECOMMENDED ENGINES

B6-4 C6-5

### SPECIFICATIONS

BOOSTER	REENTRY VEHICLE
23.0 in. LENGTH	8.6 in.
7.9 in. WINGSPAN	5.0 in.
2.0 oz. WEIGHT	0.5 oz.
0.976 in. Body Dia.	0.736 in.

**Futuristic Design  
Releases Glider in Flight**





# FREE KITS!

Receive one of these bonus kits free with your \$5 or \$10 order as our "Thank-You." When you place a larger order at full retail price you are entitled to receive a combination of free kits just as though you had placed a number of \$5 or \$10 orders.

## SATURN V

SEMI-SCALE  
ROCKET



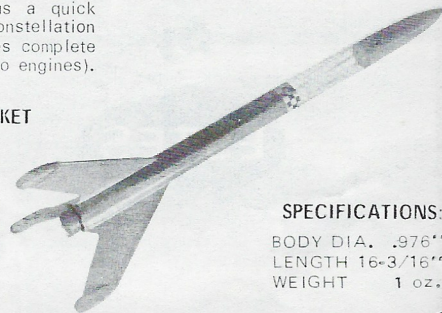
SPECIFICATIONS  
Length 18.1 in.  
Body Dia. 1.637 in.  
Weight 1.87 oz.

**\$2.50**  
Value

The perfect high performance bird for single stage payload work or just flying for fun. The long slender lines and the "landing shocks" at each fin tip lend the appearance of a space vehicle of the future. Parachute recovery, "see-through" payload section plus a quick change engine mount make the Constellation easy to fly and reliable. Kit comes complete with all parts and instructions (but no engines). Shipping weight is 6 oz.

SINGLE-STAGE PAYLOAD ROCKET

## ASTRON Constellation



SPECIFICATIONS:  
BODY DIA. .976"  
LENGTH 16-3/16"  
WEIGHT 1 oz.

RECOMMENDED ENGINES  
1/2A6-2, A8-3, A5-4,  
B6-4, C6-5

**Your choice with \$10 order**

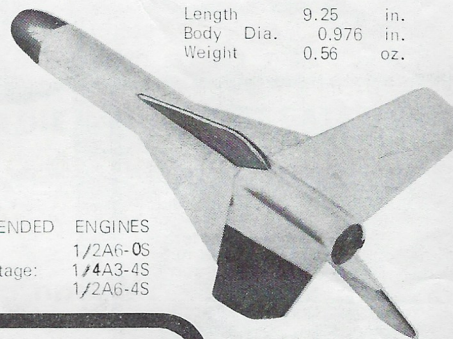
Though not fully detailed, this model of the Saturn V is an amazingly good representation of our nation's biggest launch vehicle. Scaled at 1 to 242 it is a practical size to build. With single engine reliability you can count on precise launchings and steady flights. Parachute recovery gives gentle landings. You'll want to fly the Saturn often this year. Instructions and all parts included, but no engines. Shipping weight 13 oz.

Cat. No. 681-K-39

RECOMMENDED ENGINES  
A 8-3 B 6-4  
C 6-5

Cat. No. 681-K-35  
\$2.00 Value

## Astron MIDGET Series III Engines



SPECIFICATIONS  
Length 9.25 in.  
Body Dia. 0.976 in.  
Weight 0.56 oz.

RECOMMENDED ENGINES  
Booster: 1/2A6-0S  
Upper Stage: 1/4A3-4S  
1/2A6-4S

HELICOPTER  
RECOVERY



HIGH  
PERFORMANCE

**Your choice with \$5 order**

Cat. No. 682-K-40  
\$1.25 Value

## ASTRON GYROC

Sky-high performance and a unique, dependable recovery system make this model a perfect addition to your rocket fleet. With light weight and streamlined design, the Gyroc soars to amazing altitudes; helicopter recovery brings it back gently, close to the launcher. Shipping weight 5 oz. (Engines not included with kit.)

To receive this kit, write in "FREE GYROC" on the last line of your order form.

CAT. NO. 671-K-24

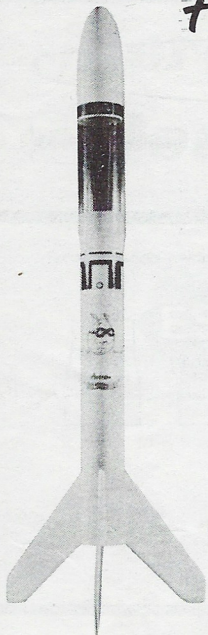
\$1.25 VALUE

After its first flight you'll decide this unique 2-stage rocket is no midget when performing. Graceful in design and fast at lift off, this high performance model gets the most out of the smaller engines. Upper stage returns by parachute, booster flutters in gently. Uses series III engines (not included). Kit contains all parts and instructions. Shipping weight 6 oz.

RECOMMENDED ENGINES  
1/2A6-2, A8-3, B6-4, C6-5

# TWO SPECIAL ROCKETS

## Astron scrambler



RECOMMENDED ENGINES  
A8-3, B6-4, C6-5, B14-5

Huge see-through payload compartment holds an egg or other large payload--cluster design gives the power to boost it. A great sport model that's perfect for contests, too. Has 2 'chutes for extra gentle recovery, can carry an egg to over 1000 feet and set it down safely. Comes with all parts, instructions, a complete technical report on clustering and a colorful decal sheet for easy decorating. Shipping weight 13 oz.

Cat. No. 682-K-37  
Only \$3.00

SPECIFICATIONS:  
LENGTH 23.5 in.  
WEIGHT 2.8 oz.  
BODY DIA. 1.637 in.  
PAYLOAD DIA. 1.796 in.

### SPECIFICATIONS:

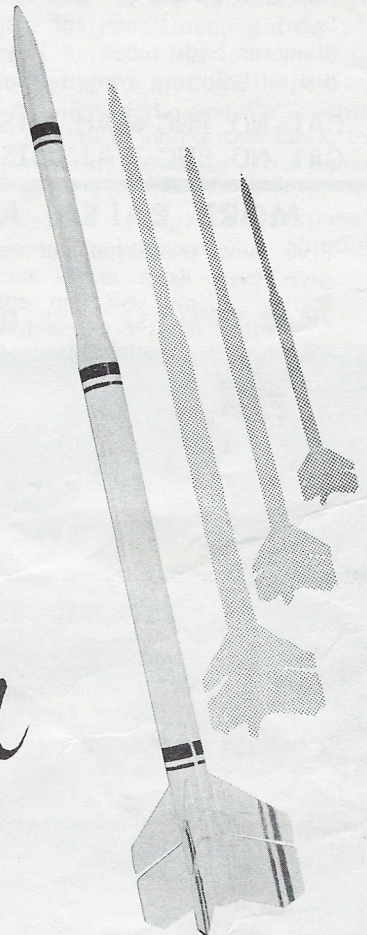
BODY DIA. 1.325 in.  
LENGTH 32 in.  
WEIGHT 2.7 oz.

## Astron Avenger

2-STAGE ROCKET

### RECOMMENDED ENGINES

BOOSTER: A8-0, B6-0,  
B14-0, C6-0  
UPPER STAGE: A5-4,  
B6-6, C6-7

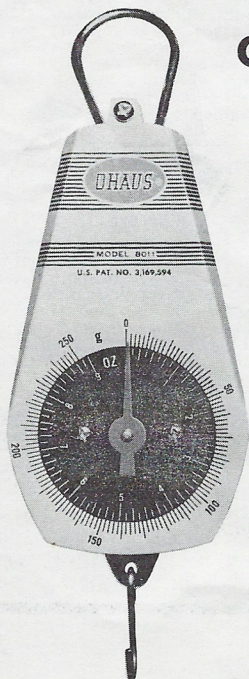


Long slender lines give this bird the appearance of a sounding rocket. With 2-stage capabilities, it is an exciting sport and demonstration rocket. . .with or without payload. Designed to take advantage of the thrust capabilities of the C engines, it will give great flights time after time. 18" parachute brings it back gently. First stage flutters in softly. Comes with all parts, instructions and a complete technical report on staging. (Engines not included.) Shipping weight 16 oz.

CAT. NO. 682-K-38

ONLY  
**\$2.75**

## A Scale to Weigh Your Birds



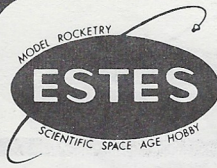
**No More  
Guesswork!**

**Weigh each part  
or a whole bird . . .  
up to 9 ounces!**

**Only \$2.75**

Tired of guessing how much your birds weigh? Here's a scale that's perfect for general purpose use by the rocketeer. Calibrated in both grams and ounces, it's accurate to within 2 grams at full load. To weigh a rocket, just slip the hook into the launch lug. For weighing parts that won't fit on the hook a pan can be improvised. Scale comes complete with instructions. Shipping weight 5 oz.

Cat. No. 683-WS-1 Only \$2.75 each

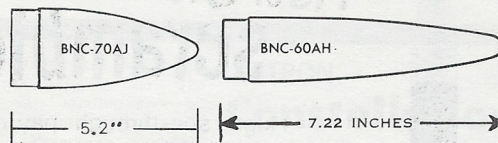


# Introduces some more little things... that give big results in model rocketry.

## BIG NOSE CONES

Two big nose cones for models designed with larger diameter body tubes. Precision turned for minimum drag. Shipping weight 6 oz.

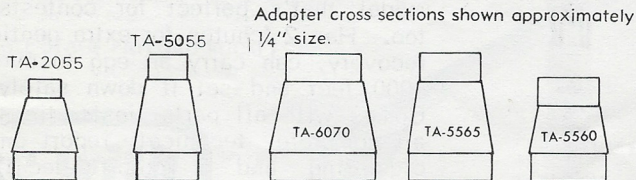
CAT. NO. BNC-60AH, FITS BODY TUBE BT-60 **ONLY \$1.50**  
 CAT. NO. BNC-70AJ, FITS BODY TUBE BT-70 **ONLY \$1.50**



## MORE BALSA ADAPTERS

Five new precision turned balsa adapters give even more model rocket design flexibility. Now you can adapt BT-55 to the four other most popular tube sizes--and you can put a "family size" BT-70 payload on your BT-60 bird.

CAT. NO. 681-TA-2055 Only \$ .45  
 CAT. NO. 681-TA-5055 Only \$ .45  
 CAT. NO. 681-TA-5560 Only \$ .55  
 CAT. NO. 681-TA-5565 Only \$ .60  
 CAT. NO. 681-TA-6070 Only \$ .80



Adapter cross sections shown approximately 1/4" size.



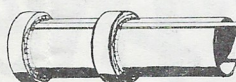
WEIGHT PER PAIR .285 OZ.

## AR-2050 ADAPTER RINGS

Easy to use for centering a BT-20 body tube within a BT-50. Offering good alignment and fit, the AR-2050 adapter rings' greater strength makes them a good choice for use in model rockets that are to be flown with high thrust engines. Shipping weight 3 oz.

CAT. NO. 681-AR-2050 10 FOR ONLY \$ .40

TYPICAL ENGINE MOUNT USING A PAIR OF AR-2050 RINGS



## SPECIAL PURPOSE SHOCK CORD

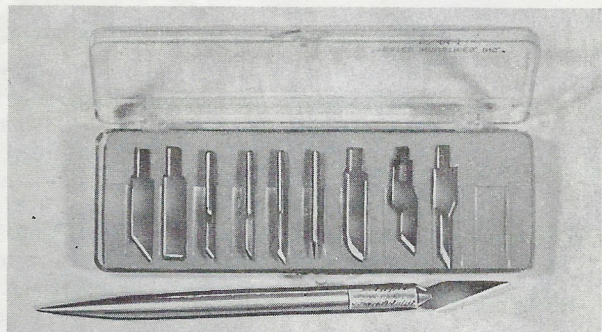


A 36" length of 1/8" contest rubber for greater stretch on those larger birds with 24" chutes and other heavy duty applications. Shipping weight 1 oz.

CAT. NO. 681-SC-3 ONLY \$ .20 EACH

## KNIFE SET

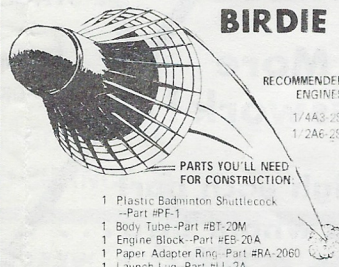
Conveniently packaged in clear plastic case, the set contains a scribe and 9 assorted blades to cover most cutting needs. The balanced streamlined light weight aluminum handle gives a comfortable grip. Shipping weight 10 oz.



CAT. NO. KNS-24

ONLY \$2.50

## BIRDIE



- RECOMMENDED ENGINES  
 1/4A3-2S  
 1/2A6-2S
- PARTS YOU'LL NEED FOR CONSTRUCTION
- 1 Plastic Badminton Shuttlecock --Part #PF-1
  - 1 Body Tube--Part #BT-20M
  - 1 Engine Block--Part #EB-20A
  - 1 Paper Adapter Ring--Part #RA-2060
  - 1 Launch Lug--Part #LL-2A

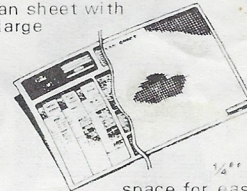
Complete set of the parts you'll need for building the Birdie, includes plastic shuttlecock, body tube, engine block, adapter ring and launch lug. Shipping weight 5 oz.

CAT. NO. 683-P-61 \$ .50

Shuttlecock only -- you supply tube, ring, etc. Shipping weight 5 oz. CAT. NO. 683-PF-1 \$ .40

## ROCKET DATA SHEET

New double size has pre-flight, countdown, launch, weather and flight summary data space sequentially located on one side. The other side is a rocket designers plan sheet with a large



1/2" grid space for ease in drawing your plans. As a special bonus one data sheet is included free with every order shipped from Estes Industries. Extra copies available. Shipping weight 4 oz.

CAT. NO. 681-DS-2 5 FOR \$ .20

PLEASE NOTE: The following books listed on page 90 of your Estes catalog are no longer available: HB-1, *Space Volunteers*; HB-2, *Rockets and your Future*; HB-3, *Guide to Rockets, Missiles and Satellites*.

WATCH FOR THE BIG **ESTES** SATURN V -AND MORE!