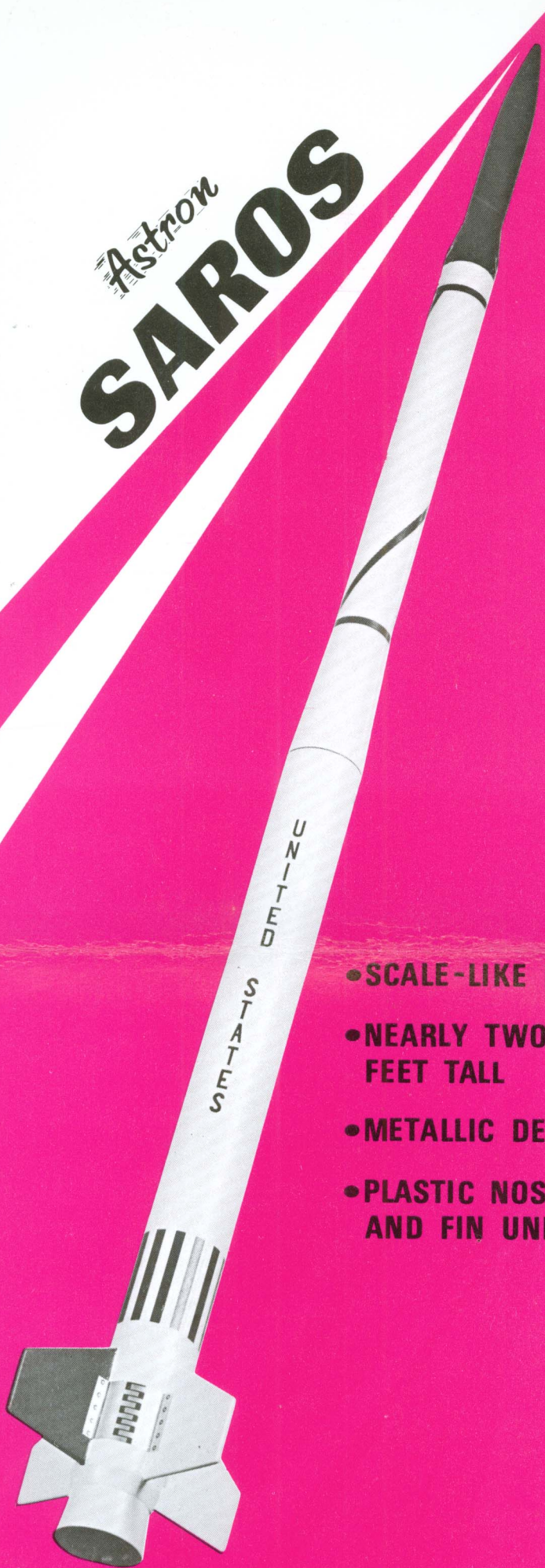


Astron SAROS



- SCALE-LIKE DESIGN
- NEARLY TWO FEET TALL
- METALLIC DECALS
- PLASTIC NOSE CONE AND FIN UNIT

SKILL LEVEL 2

1—Beginner 2—Intermediate 3—Craftsman 4—Advanced 5—Expert

SPECIFICATIONS

Length 22.5" (57.2 cm.)

Weight 1.5 oz. (43 g.)

Body Dia. 0.976" (24.8 mm.)

Parachute Recovery

RECOMMENDED ENGINES

A8-3 A8-5 B4-4 B6-4 C6-5

Use A8-3 for first flights.

Engines and launcher not included.

K-54
#1254

ESTES INDUSTRIES
PENROSE, COLO. 81240

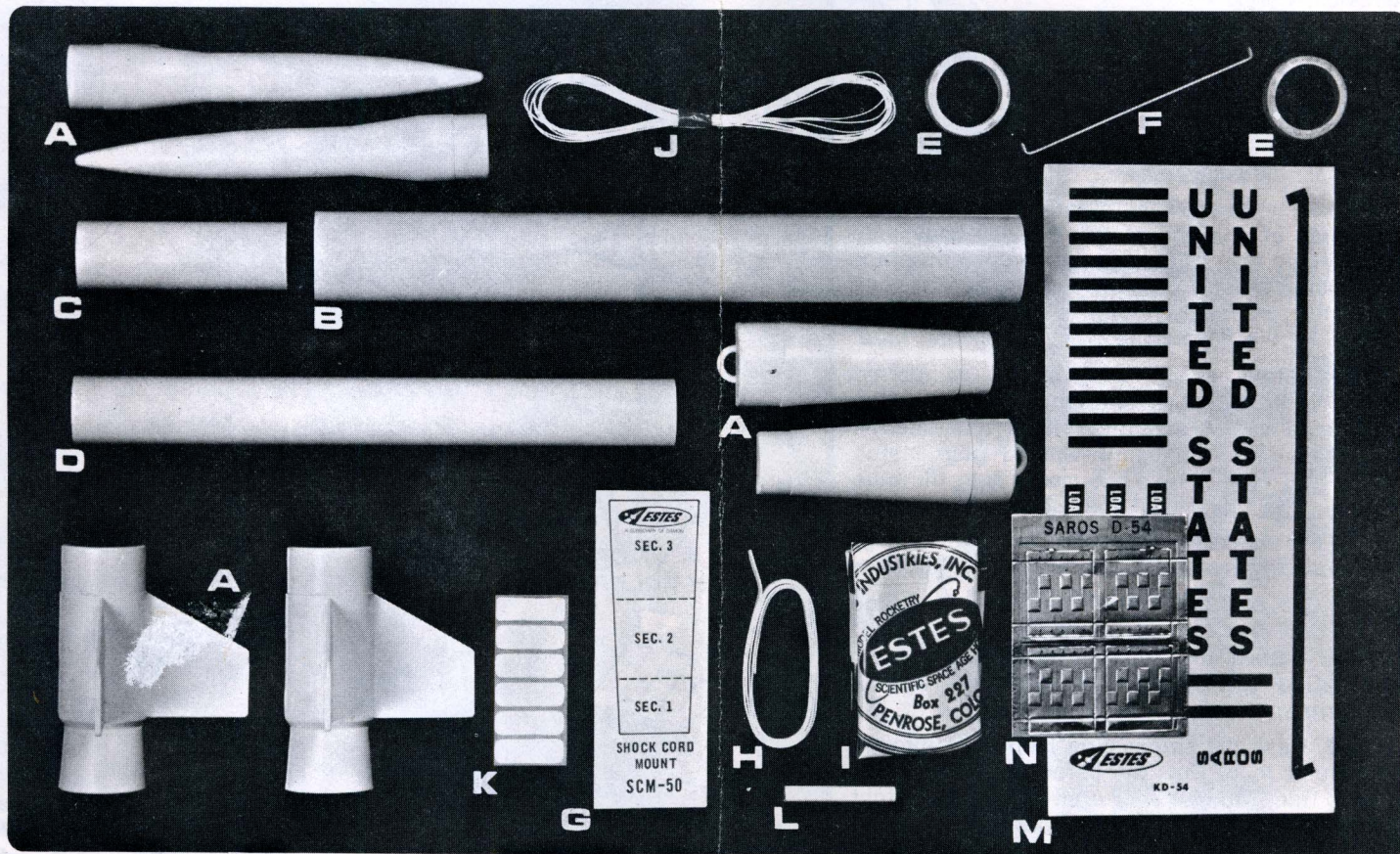
SAROS

PAYLOAD CARRIER

DESIGNED BY MIKE DORFFLER

Saros features a semi-scale resemblance to some of America's high performance sounding and research rockets. It is a quickly and easily assembled model through the engineered use of molded plastic components. The engine mount and fin unit are interlocked, then bonded to the body tube. This provides a strength and durability combination intended to help minimize fin damage upon recovery, and also insulates the plastic from excess heat. High quality decals and foil press-on add the final touch of realism to the model which performs as well as it looks.

PARTS LIST K-54



- | | | |
|---|---|---------------|
| A | { 2 Nose Cone Halves #PNC-20ED }
2 Adapter Halves #PTA-2050
2 Fin Unit Halves #PFU-50ED | SET - #PRP-54 |
| B | 1 Body Tube 7 3/4" #BT-50H | |
| C | 1 Engine Tube 2 1/4" #BT-20M | |
| D | 1 Body Tube 6 1/2" #BT-20D | |
| E | 2 Centering Rings #AR-2050 | |
| F | 1 Engine Hook #EH-2 | |

- | | |
|---|----------------------------|
| G | 1 Shock Cord Mount #SCM-50 |
| H | 1 Shock Cord #SC-1 |
| I | 1 Parachute #PK-12A |
| J | 1 Shroud Line SLT-72 |
| K | 6 Tape Strips #TD-2F |
| L | 1 Launch Lug #LL-2A |
| M | 1 Decal Sheet #KD-54 |
| N | 1 Foil Press-on #D-54 |

In addition to the materials included in your kit, you will also need white glue, tube plastic cement, (Estes Catalog #PC-2) Exacto knife, and a few rubber bands.

ASSEMBLY INSTRUCTIONS

1 Cement nose cone and tube adapter halves together using only plastic cement.

2 (a) Cut a 1/8" wide slot 3/8" from one end of the BT-20M engine holder tube and push in one end of the engine hook.

(b) Cut a notch 1/8" wide and 1/32" deep in one of the adapter rings.

(c) Slide the notched adapter ring onto the engine holder tube and over the engine hook. Align 1/4" from tube end as shown. Apply a white glue fillet to each side of the adapter ring-tube joint and allow to dry.

3 (a) Smear a coat of plastic cement around the outside of the notched adapter ring and allow to dry.

(b) Apply a small amount of plastic cement in the adapter ring groove of one of the fin unit halves. Lay the engine holder in place so that the engine hook fits in the molded slot. Glue the fin units together. Bind with rubber bands until dry.

4 Use white glue to glue the remaining adapter ring on the protruding portion of the engine holder tube of the fin unit.

5 Use white glue to glue the completed fin unit into the BT-50H body tube. Make sure it is in all the way.

6 Smear a coat of plastic cement around the inside of one end of the BT-20D body tube and allow to dry. Then glue the adapter in place again using plastic cement. Repeat for the nose cone, for standard flying. For payload use, friction fit the nose cone with cellophane tape.

7 Prefold shock cord mount on dotted lines. Apply glue to Section 1 and lay the shock cord end in the glue. Fold this section over. Glue and fold again. Spread glue inside the BT-50H tube. Press the mount into the glue back 1" from the end of the tube. Allow to dry.

8 Cut two 1/4" lengths of launch lug. Glue and align onto the body tube as shown.

9 Cut out the parachute along its edge lines. Cut the shroud line into three equal lengths. Attach the ends of each line to two consecutive corners of the parachute with a tape strip as shown.

10 Pass the shroud line loop ends through the adapter loop. Pull the parachute through the shroud line loops and draw the lines tight against the adapter loop. Then tie the shock cord to the adapter loop.

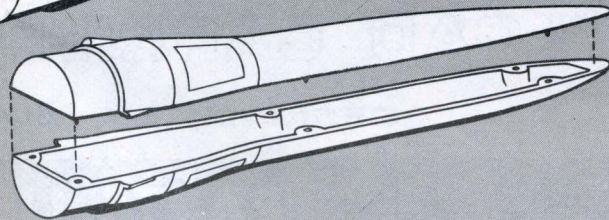
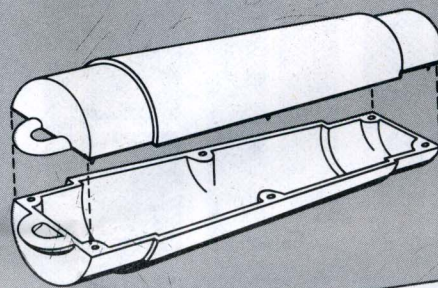
FINISHING

Be sure that all the glue on the model is completely dry. Paint the entire rocket semi-gloss white. DO NOT DOPE. Dope will craze the plastic components. Follow by painting the nose cone, one fin and the inside of the nozzle semi-gloss black.

APPLYING THE DECALS

Cut out each decal around its edges. Dip the decal in warm water for about 30 seconds or until it slides easily on the backing paper. Slide the decal off the paper to the desired surface and blot dry. Allow the decals to dry for about 24 hours.

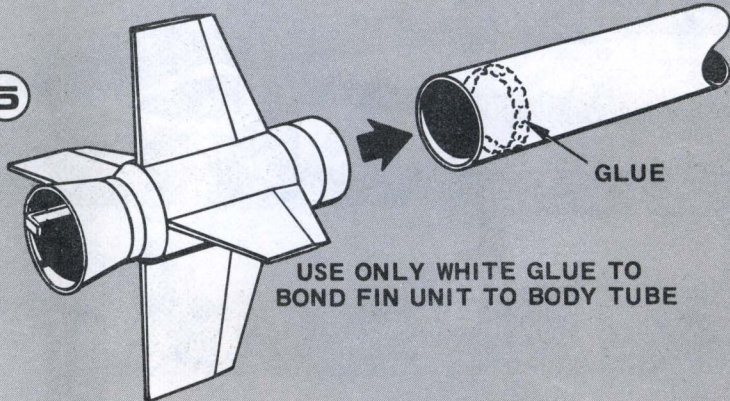
1 USE ONLY PLASTIC CEMENT



3b ADAPTER RING GROOVE. APPLY GLUE

ENGINE HOOK SLOT

5

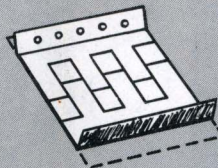


GLUE

USE ONLY WHITE GLUE TO BOND FIN UNIT TO BODY TUBE

1 CUT FOIL TRIM PIECE FROM CARD

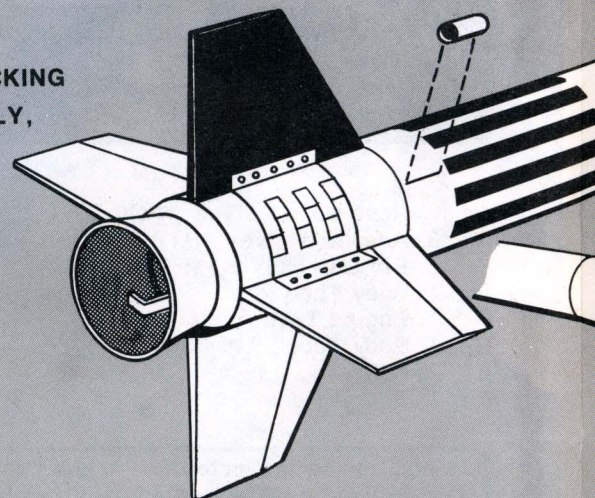
2 FOLD AT CREASE WITH RULER

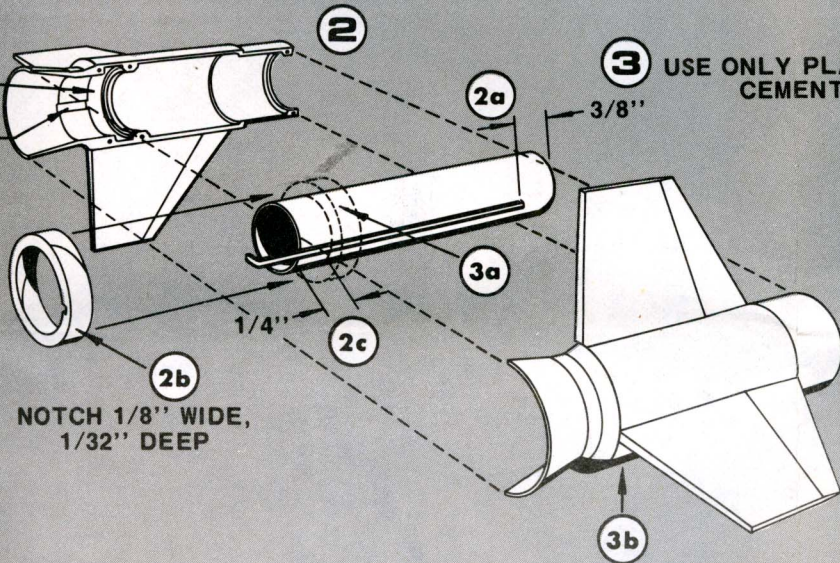


3 REMOVE PAPER BACKING

4 POSITION CAREFULLY, AND PRESS INTO PLACE

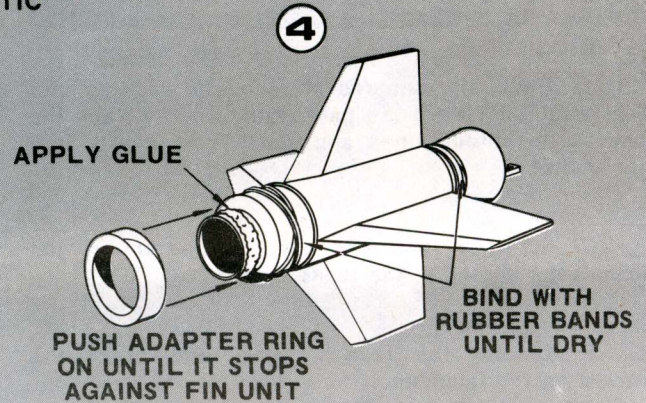
8 CUT TWO 1/4" LONG LUGS. GLUE TO BODY TUBE AS SHOWN.





2b NOTCH 1/8" WIDE, 1/32" DEEP

3 USE ONLY PLASTIC CEMENT

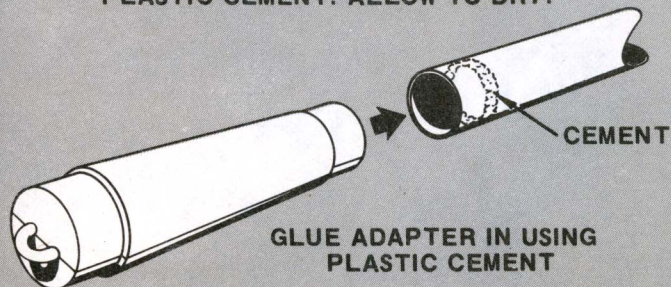


APPLY GLUE

PUSH ADAPTER RING ON UNTIL IT STOPS AGAINST FIN UNIT

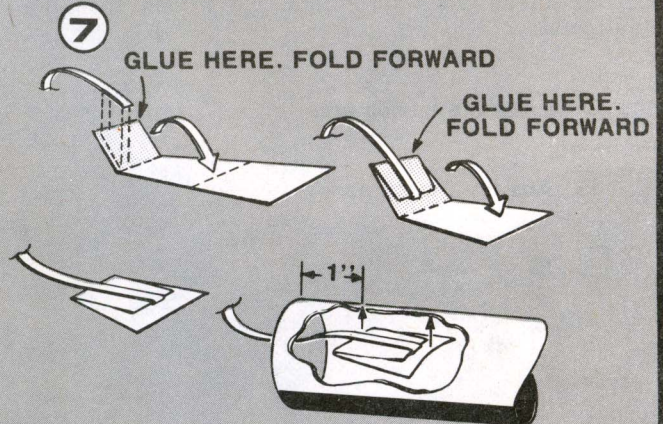
BIND WITH RUBBER BANDS UNTIL DRY

6 SMEAR INSIDE OF TUBE WITH PLASTIC CEMENT. ALLOW TO DRY.



CEMENT

GLUE ADAPTER IN USING PLASTIC CEMENT



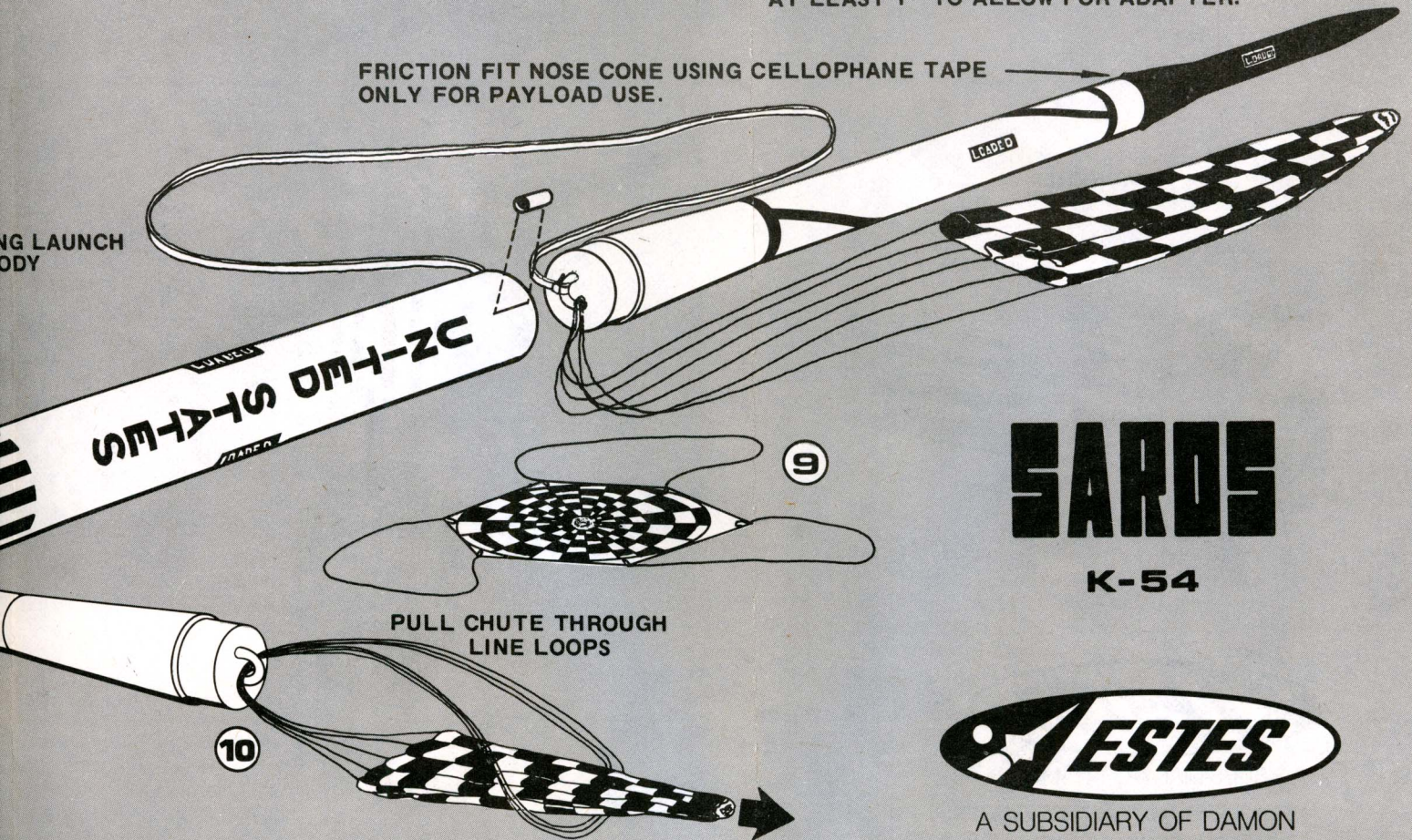
7 GLUE HERE. FOLD FORWARD

GLUE HERE. FOLD FORWARD

SPREAD GLUE INSIDE TUBE. SET BACK AT LEAST 1" TO ALLOW FOR ADAPTER.

FRICITION FIT NOSE CONE USING CELLOPHANE TAPE ONLY FOR PAYLOAD USE.

ING LAUNCH BODY



9 PULL CHUTE THROUGH LINE LOOPS

10

SARDS

K-54



A SUBSIDIARY OF DAMON

COUNTDOWN CHECKLIST

11 Pack four squares of recovery wadding into the body tube. Fold the parachute in half. Pack the parachute, shroud lines and shock cord neatly into the rocket.

10 Insert an igniter into the desired engine and install the engine in the rocket.

9 Disarm the launch panel and place the rocket on the launcher.

8 Clean the micro-clips and attach them to the igniter.

7 Clear the launch area.

6 Arm the launch panel.

5

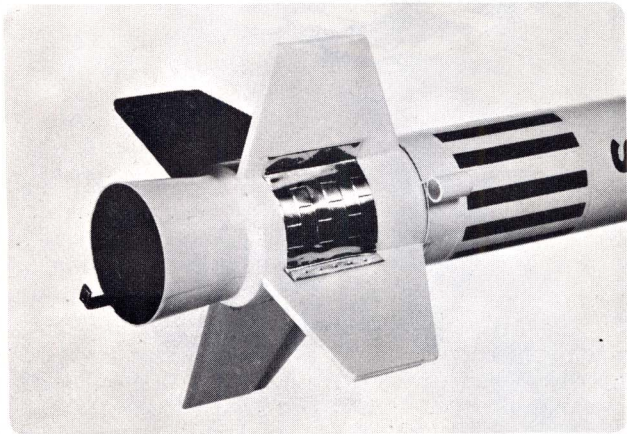
4

3

2

1

- LAUNCH!



A SUBSIDIARY OF DAMON

ESTES INDUSTRIES

BOX 227, PENROSE, COLO. 81240



SAROS D 54

