

Estes Industries Rocket Plan No. 63

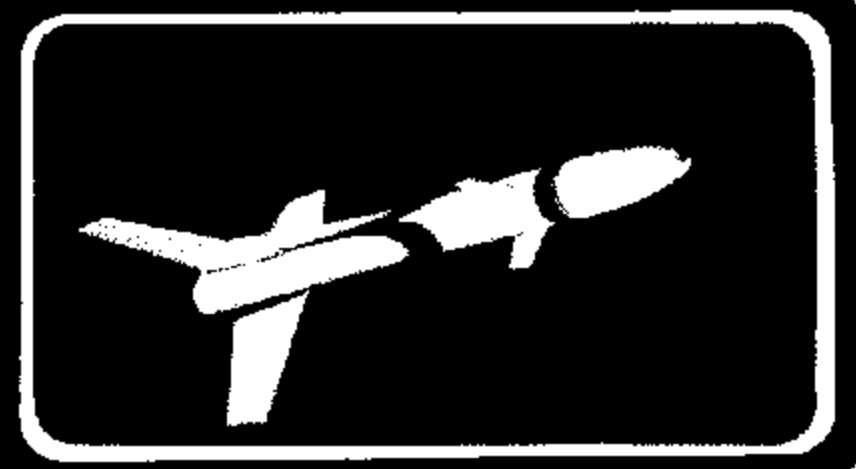
OMEGA

DESIGN OF THE MONTH WINNER

FEBRUARY 1969

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EH-2 Engine Retainer

1/8" Slot, 1/4" from end

line of glue

Apply glue and insert one end of engine retainer in slot.

AR-2050

Hold the piece in place with a full wrap of masking tape as shown.

Cut a slot in this ring...

1/8"

Glue

...apply glue around the end of the tube as shown and slide the ring into place. Both the tube and ring rear edges are even. (See the general assembly view.) Apply glue and slide the front ring on the tube until its edge is against the front end of the engine retainer.

Apply glue to the root edge of a fin and locate it on a guide line with the trailing edge 1/2" from the rear edge of the body tube.

Glue

1-3/4"

1/2"

Forward fins are located 1/2" from the front end of the body tube.

1/2"

Trace and cut out the fairing tube pattern. Place it on a BT-20B as shown and mark the tube. You may save a lot of fillet work if you can cut the tube so the cut edges will approximately match the curved surface to which it will mate.

Repeat this step with the other two tubes.

Trace, and cut out the tube plug pattern. Lay out three such plugs on the balsa fin stock and cut them out.

Tube Plug

Glue

Place in the fairing tube ends as shown.

Fairing tube assembly

Body tube

Thin Line of Glue

1/4"

Apply a THIN line of glue along the edge of a fairing tube. Select a fairing tube center guide line and place the fairing tube with the tube plug 1/4" from the rear end of the body tube. Hold the assembly lightly in place until the glue sets. Repeat this step with the other two tube assemblies.

Trace and cut out both sizes of fin patterns. Lay out and cut out 3 of each size fin and sand them all to an airfoil cross-section. Root and tip edges are sanded flat. Drawing is typical of all 6 fins.

Rear view shows the way each fin sticks straight away from the tube centerline.

Launching lug nests between the right side of a fin and the fairing tube.

COLOR SCHEME

BODY AND FINS -- YELLOW

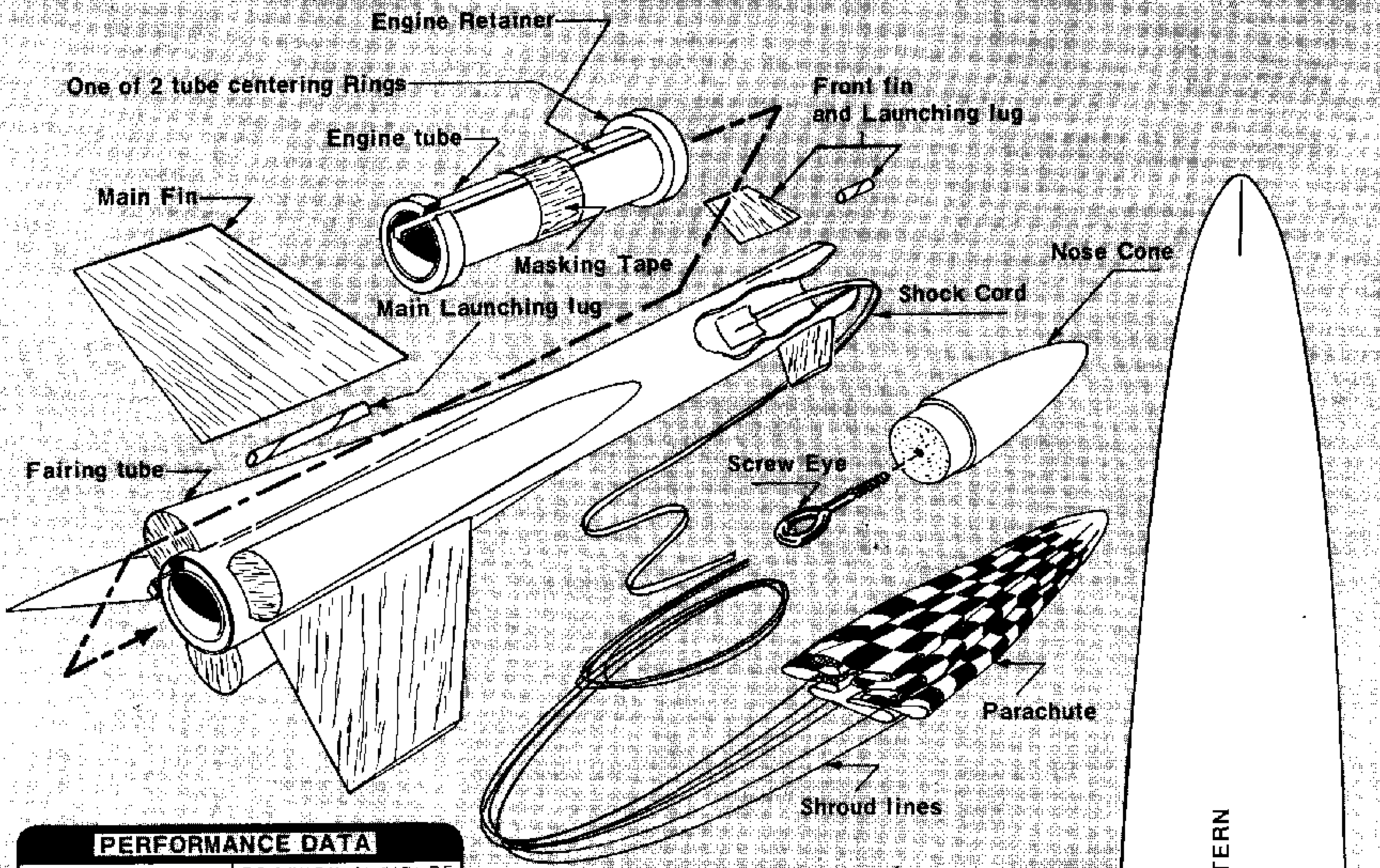
NOSE CONE AND TRIM -- BLACK

PARTS LIST

2 Sheet balsa fin stock	BFS-30
1 Nose cone	BNC-50X
1 Screw eye	SE-2
3 Body tube	BT-20B
1 Body tube	BT-50L
1 Engine holder tube	BT-20J
2 Centering rings	AR-2050
1 Engine Retainer	EH-2
1 Shock cord	SC-1
1 Launching lug	LL-2B
1 18" Parachute kit	PK-18

In addition to the parts above, you will need scissors, white glue, masking tape, a sharp model knife (or razorblade) and paint or dope.

GENERAL ASSEMBLY VIEW AND PATTERNS



PERFORMANCE DATA	
ENGINE	TRACKED ALTITUDE
A5-2	170'
A8-3	220'
B4-2	375'
B4-4	425'
B6-4	480'

See the technical section of your current catalogue for mounting details.

