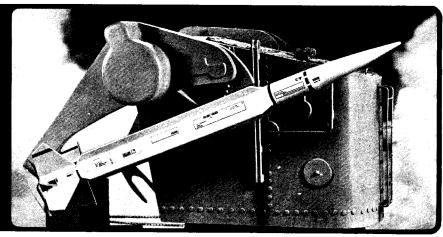
TARTAR

U.S. Navy Surface-to-Air Missile
SKILL LEVEL 2 SEMI-SCALE
HONORABLE MENTION
DESIGN OF THE MONTH

By TOM HULDERMAN Lakeside, California

ESTES INDUSTRIES ROCKET PLAN NO. 83



BUILD THE TARTAR WITH ESTES HIGH PERFORMANCE PARTS AND ACCESSORIES.

PARTS LIST

1	18" Body Tube BT-55	
1	Nose Cone BNC-55AC	
	Launch Lug LL-2A	
1	Screw Eye SE-2	
1	Shock Cord SC-1	
1	18" Parachute PK-18	
1	Balsa Fin Stock BFS-30	
1	Balsa Fin Stock BFS-30W	
	Engine Mount EH-2055	
	Engine Hook EH-2	

ADDITIONAL MATERIALS

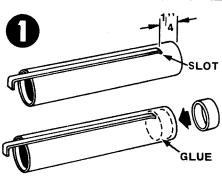
Hobby Knife White Glue Ruler Sanding Material Sanding Sealer Enamel Paint (Spray) Sharp Pencil

RECOMMENDED ENGINES

B4-2

B6-4

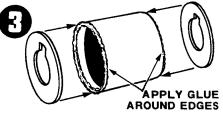
C6-5



Mark the BT-20 engine tube 1/4" from one end. Punch a 1/8" wide slot on this mark and insert EH-2 engine hook. Spread glue 1/4" inside the end of the engine holder tube nearest the slot and insert the engine block. Push it in place until it touches engine hook and is flush with the end of the engine holder tube.

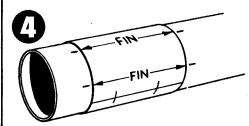


Cut a 1/32" deep by 3/32" wide slot on the inside surface of one 2055 spacing ring. Cut a 1/8" deep by 3/32" wide slot on the inside surface of the other 2055 spacing ring.



Apply a line of glue around each end of the stage coupler. Place a spacing ring on each end as shown and wipe off excess glue. Be sure that slots are in line with each other. Set this and the engine holder assembly aside to dry completely.

Mark the engine holder tube 1/4" from the end (end opposite engine block) as shown. Slide the engine holder assembly into the adapter assembly so the spacing ring with the larger 1/8" X 3/32" slot is on the 1/4" mark. Apply a fillet of glue around each ring-body tube joint, being careful not to get glue in the spacing ring slots. Allow unit to dry completely.



Cut out the body tube marking guide. Wrap it around the rear of the body tube and mark the tube at each arrow point. Remove the guide and draw a straight line the entire length of the tube connecting each matching front and rear mark.

