

Estes Industries Rocket Plan No. 32

Semi-Scale Model
of the
U.S.A.F.'s AF6

Aerobee-4fi

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Fig. 1

FAIRING PATTERN
(make 6)

PARTS LIST

1	8.4" Body Tube	BT-40
1	2010 Engine Mount	EM-2040
1	Plastic Nose Cone	PMC-40G
1	Balsa Fin Stock	BFS-20
1	Launching Lug	LL-1A
1	Shock Cord	SC-1
1	12" Parachute Kit	PK-12

FIN PATTERN
(make 3)

Close up of tie-ons to nose cone plug

Shock cord & Shroud-lines go here

Parachute area

Wadding area

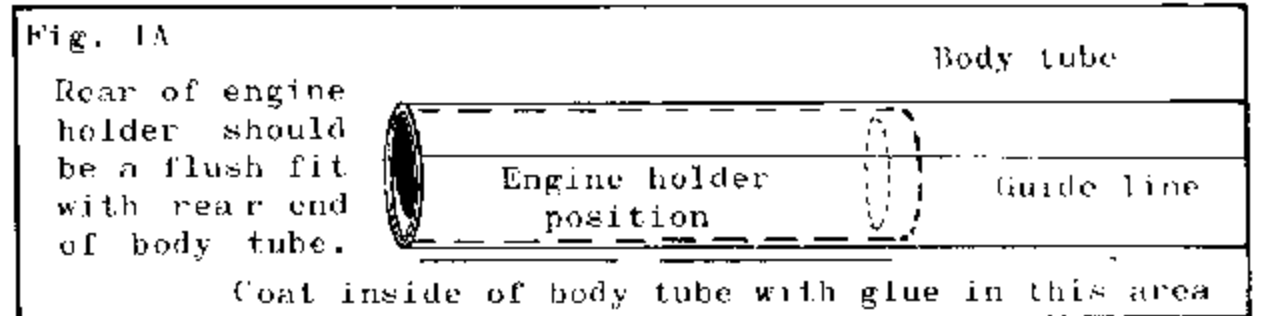
Engine Mount

2010 Engine Mount Assembly
Spread glue 1/4" inside tube end

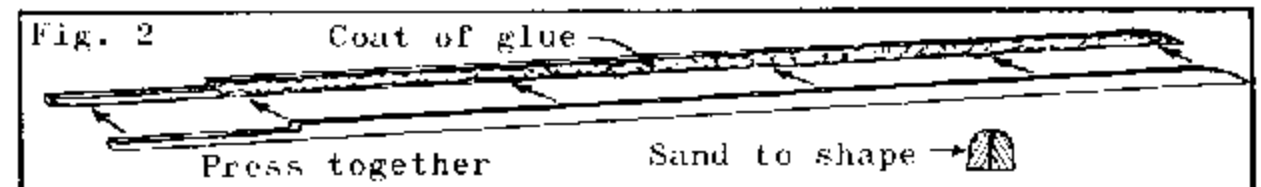
Push EM-20A flush with tube end

CONSTRUCTION

- Assemble the 2010 engine mount and set it aside to dry.
- Cut an 8.4" piece of BT-40. Mark it for 5 fin positions and draw 3 guide lines from front to rear of the tube for later use in placing the fuel tube and cable fairings.
- Install the engine mount so the rear of the mount is flush with the rear of the body tube. Allow to dry.

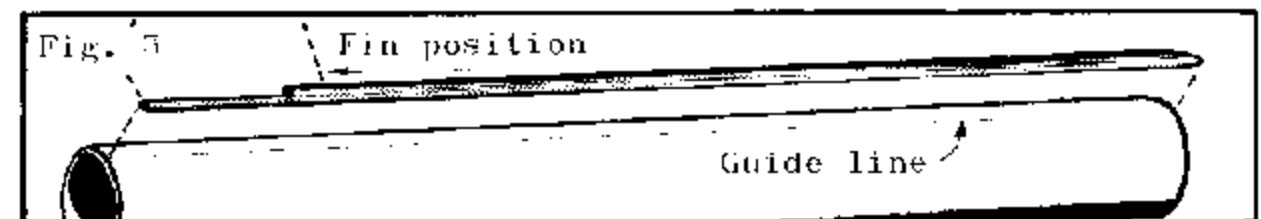


- Cut out the fin pattern and fairing pattern and lay them on the balsa fin stock according to the grain direction shown on each. Make 6 fairing pieces and 5 fins. Glue a pair of

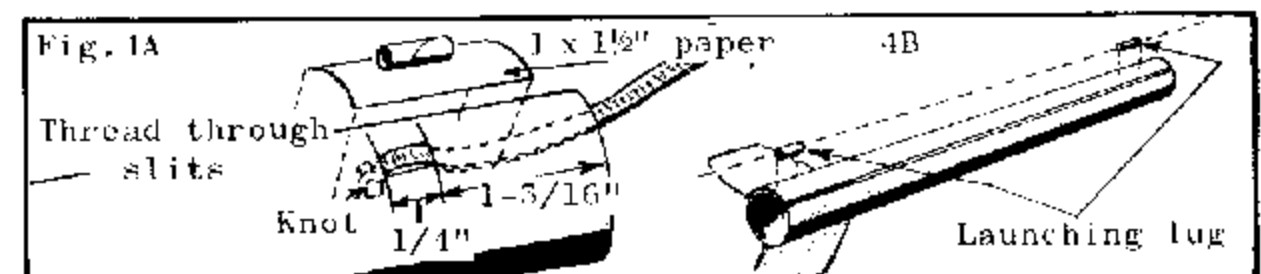


- fairing pieces together as shown. Do the same with the two other pairs and set aside to dry. Sand all but the root of the fins to a rounded shape.

- Glue the fairings to the body tube along the guide lines made in step 2. Glue the fins in place on the rear of the fairings.



- Install the shock cord as shown in Fig. 4A. Cut two 3/8" pieces of launching lug. Glue one of them directly over the shock cord installation. Glue the other one 1/8" from the rear of the body tube in a straight line with the first one. See fig. 4B.



- Assemble the parachute and tie the shroud lines to the red plastic loop in the bottom of the nose cone. The free end of the shock cord is to be tied to this loop also.

FINISHING

The color scheme of this bird is white, silver and black as shown in fig. 5. Enamel paint is recommended for a good



finish. Special care must be taken in painting the vinyl nose cone. Sand the surface completely with fine or extra-fine paper, to obtain a clean surface. Apply a light coat of quick drying spray enamel and allow this to dry thoroughly. Brush or spray on the regular enamel finish. Set the nose cone aside to dry at least overnight.