Estes Industries Rocket Plan No. 36

BEAT THE AIR FORCE ... Build Your Own

260 SPACE BOOSTER

Among the potential applications for the 260" diameter solid motors under study is a family of solid boosted general purpose space vehicles. Since such a booster could be produced at a comparatively low cost (around \$2.00 per pound), it would lend

itself quite well to use with a wide range of upper stages. One proposed configuration would employ a single 260" solid as the first stage with a 156" solid second stage.

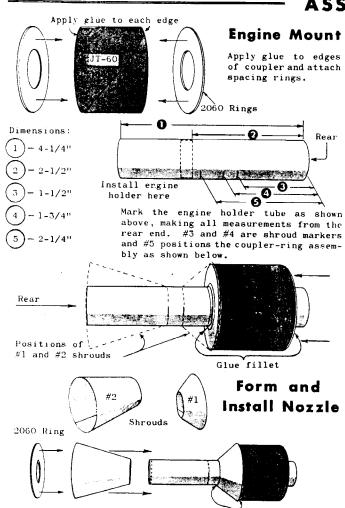
PARTS LIST

To build your own 260, you will need the following parts:

- 1 Body Tube--Part #BT-50H (7.75")
- Body Tube--Part #BT-60K (7")
- 1 Body Tube--Part #BT-20 (Cut to 4. 25")
- 1 Balsa Adapter -- Part #TA-5060
- 1 Balsa Adapter -- Part # TA-550
- 1 Stage Coupler -- Part #JT-60C
- 3 Adapter Rings--Part #RA-2060
- 1 Engine Block--Part #EB-20A
- 1 Screw Eye--Part #SE-1

- 1 Shock Cord--Part #SC-1
- 1 Parachute Kit--Part #PK-12
- 1 Sheet Clear Fin Stock--Part #CFS-20
- 1 Sheet Clear Fin Stock--Part #CFS-40
- 1 Launching Lug--Part #LL-2B

ASSEMBLY



Trace the shroud templates onto heavy paper, cut out and form the shrouds. Slide shroud #1 into place against the coupler and apply glue around both joints as shown. Slide =2 shroud ahead of its mark and put the last 2060 ring just on the rear of the engine holder tube and glue in place. #2 shroud is slid back and centered on the ring. Apply glue to ring-shroud and shroud-tube joints. Let dry.

Shape the Nose Cone



Trace the nose cone template onto cardboard and cut out. Carefully sand or carve away the shaded

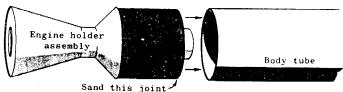
area of the TA-550 as is shown. Remove the excess length until the rounded shape is attained. Use the template frequently to check your work. Apply

a coat of Astro-Seal or sanding sealer and set aside to dry.

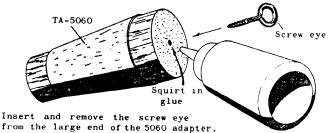
Remove this

area

Assemble the Remaining Airframe



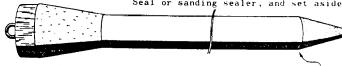
Sand the ring-coupler joint to get a smooth fit into the body tube. Spread glue inside one end of the BT-60K and slip the engine holder assembly into place. The edge of #1 shroud should be perfectly mated to the surface of the BT-60K.



from the large end of the 5060 adapter.

Squirt glue into the hole and re-insert the screw eye. Spread glue inside one end of the BT-50H and insert the other end of the 5060 adapter. Coat the tapered part of the adapter

(including where it joins the tube) with Astro-Seal or sanding sealer, and set aside



to dry. Check the fit of the nose cone at this time and sand it as necessary to obtain a smooth transition from the cone to the tube.

