

STEP 10 Adding the Protrusions

Cut 4 pieces of dowel, each about 1/8 of an inch long to represent the S-IV ullage motors. Angle the end that will be glued to the rocket so each motor points down exactly 30 degrees. Any angle other than that and your rocket will never achieve orbit.

Cut 3 pieces of dowel 1 and 1/4 inches long. Semi-round the forward end and angle the aft end to match the slope of the fairing. Glue in place above and slightly left of each of the lower LH2 ducts. These pieces represent the continuation of the LH2 ducting.

Using the standoff template cut a lug standoff from your balsa stock. Sand the leading edge (front edge, for you squirming hatch-blowers) to a wedge. Glue the forward lug to the standoff and allow to dry. Once dry, glue the standoff to the fairing with the lug aligned with the aft lug.

For greater detail see the insert drawing below.

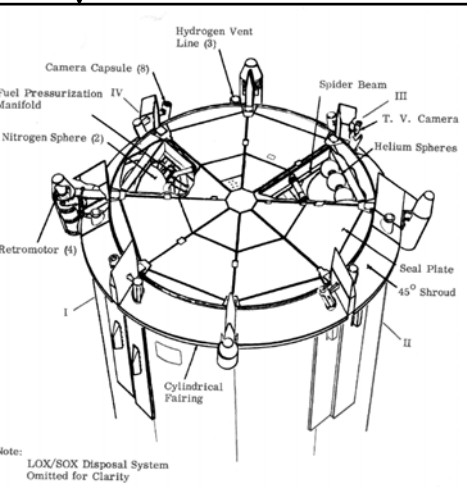
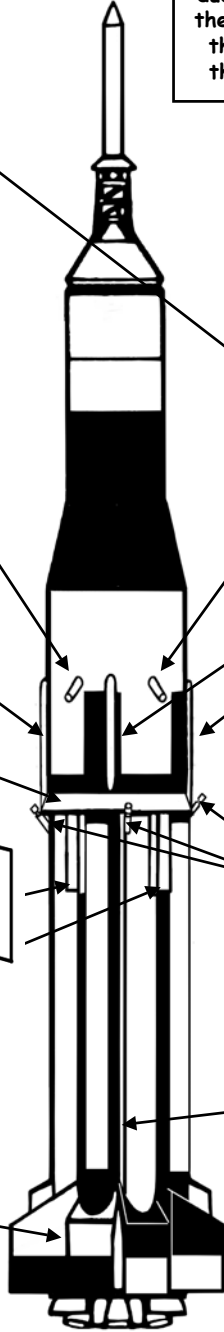
Cut the launch lug in half. Glue the aft half, vertically to the thrust structure.

Cut the antenna panels from the wrap sheet and apply as shown.

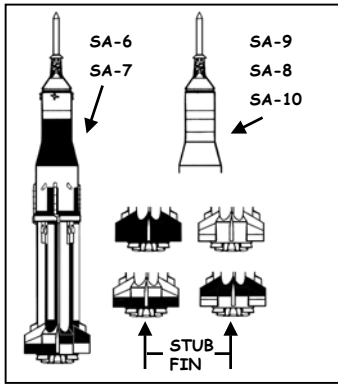
Cut 3 lengths of dowel 4 and 3/8 inches long and install in 3 places to represent the LH2 ducts. They go to the right of the black tank and fit between the top of the stub fins and the forward centering ring..

LH2 ducts

From the kit bag, take the 4 retro rockets and glue them to the forward centering ring as shown. Use a large dab of white glue to secure each.



The real S-I stage actually had eight of these standoffs. Four supported the retro rockets for staging and four supported camera pods. This kit contains enough balsa stock to easily allow you to make all eight standoffs and apply them to your model as shown in this drawing.



Seen here are the two paint schemes that the Apollo-topped Saturn I, Block II flew in. Note that the only major difference is the black color of the adapter section.