

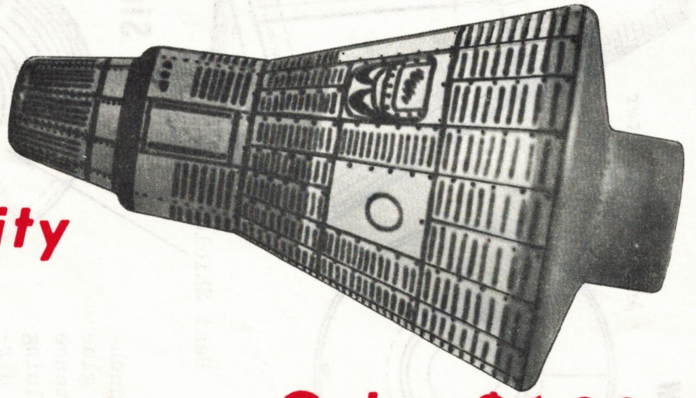
MERCURY CAPSULE

Large Payload Capacity

Fits all ESTES body tubes

ESTES INDUSTRIES INC.

Box 227 - Penrose, Colo. 81240



Only \$1.00

Mercury

Capsule

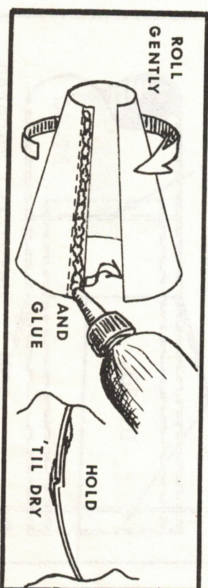
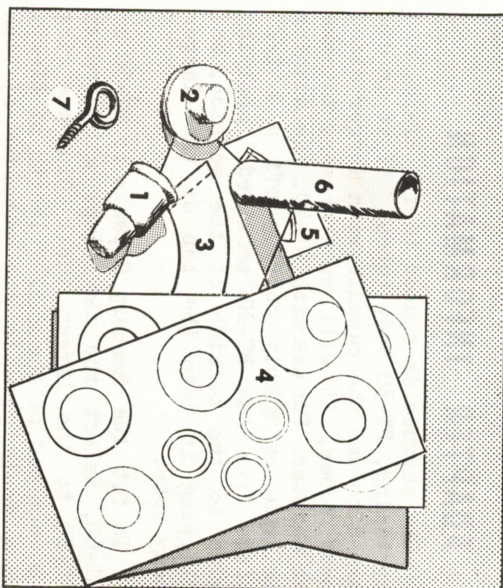
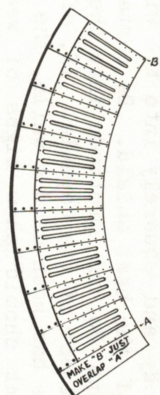
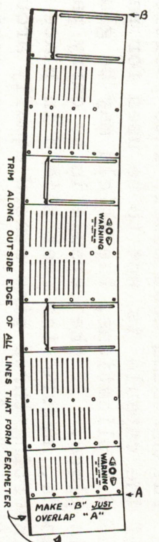
Your model Mercury payload capsule is designed to give a special touch to your model rockets. Your kit consists of the following parts:

- 1) Balsa antenna canister piece
- 2) Balsa heat shield piece
- 3) Paper conical afterbody
- 4) Two sheets of adapter rings
- 5) One universal tapered shroud
- 6) One 2 3/4" length of BT-20
- 7) One screw eye SE-1

Check to be sure your kit is complete. In addition to these parts you will need a pair of scissors, some quick drying model glue, paint or dope, sandpaper, a knife, and three common straight pins.

Assembly Instructions

Cut out the conical afterbody following the solid lines. Gently bend it to shape so the forward and aft ends are evenly matched. Do not crease or fold. Apply glue to the narrow strip along one side of the piece between the dotted line and the edge of the piece. Form the cone with the glued portion to the outside, then tuck this edge under the mating surface on the other end of the piece. The joint should be made so that the dotted line is exactly below the matching edge of the piece. Squeeze the joint flat and hold until the glue sets.



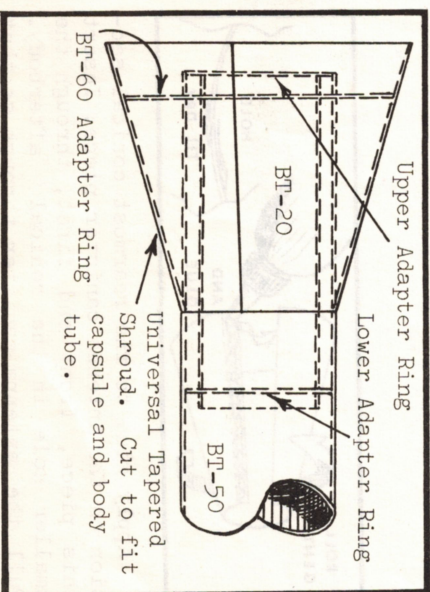
Apply glue to the rearmost conical section on the antenna canister piece. Insert this piece, front end first, through the smaller hole in the conical afterbody. Pull the antenna canister through so that the matching surfaces make a firm contact.

Put the balsa heat shield into position. If the capsule is not to be used for payload applications, the shield may be glued in place. If the capsule is to carry payloads, secure the heat shield in place by inserting three pins spaced equally around its circumference through the paper conical afterbody and squarely into the wide portion of the heat shield. Be certain that the pins do not protrude into the inside compartment of the capsule. If, after the capsule has been used a while, the pin attachment should show signs of wear, the pins may be repositioned.

ADAPTER INFORMATION

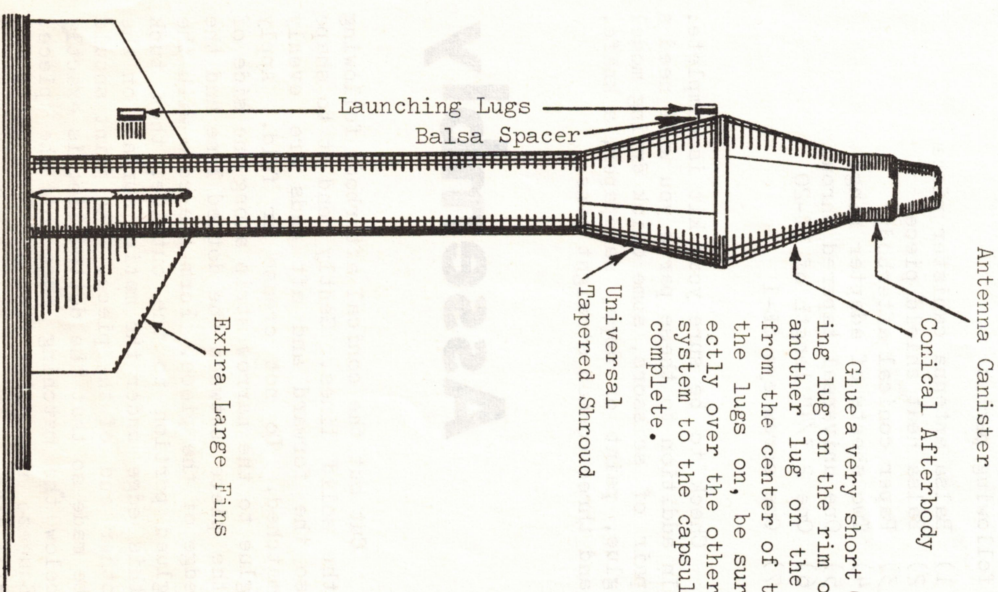
The capsule is shaped to fit BT-20, and by taping, BT-30 body tubes. If it is desired to use the capsule with larger sized body tubes, it will be necessary to make an adapter. For use with BT-40, the adapter is made by simply cutting off a $1\frac{1}{2}$ " piece from the BT-20 provided, applying glue to the outside of the section, and slipping it into the top of the larger body tube.

To fit the Mercury Capsule to BT-50 or BT-60, select the two rings which match BT-20 to the larger tube. Glue one ring to each end of the $2\frac{3}{4}$ " length of BT-20. Then apply glue to the outsides of the rings, and slip the assembly down into the larger tube so the upper ring is flush with the top of the body tube.

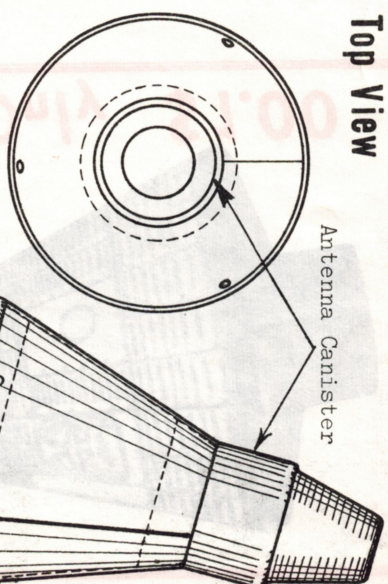


After the necessary adapters have been fitted, cut the universal tapered shroud to size, with the top cut on the line marked MC and the bottom cut on the line marked with the body tube size. Form the shroud and glue together in the same manner as the conical afterbody of the capsule.

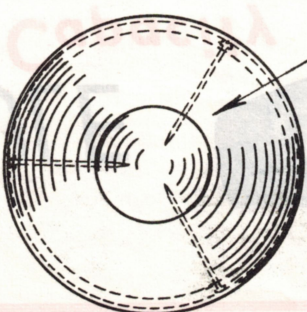
When the glue has dried on the shroud, slip it over the body tube, small end first. Then put the capsule in place, slide the shroud into position, flush against the capsule, and apply glue to the lower end.



Top View

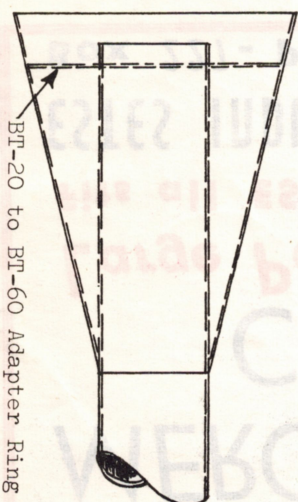


Side



Glue a very short ($1/8$ " piece of launching lug on the rim of the shroud, and glue another lug on the fin an equal distance from the center of the rocket. When gluing the lugs on, be sure that the one is directly over the other. Attach the recovery system to the capsule, and the assembly is complete.

Bottom



If the rocket body is a BT-50 or smaller, remove the capsule, select the adapter ring which fits from the body tube of the rocket to a BT-60, and slide it down into the inside of the cone to provide a centering spacer. Glue this part to both the body tube and the shroud.