ASSEMBLY TIP
Read all instructions before beginning work on your model. Make sure you have all parts and supplies. Test-fit all parts together before applying any glue. If any parts don't fit properly, sand as required for precision assembly.

PARTS AND SUPPLIES
Locate the parts shown below and lay them out on the table in front of you. In addition to the parts included in the kit you will also need:

SCISSORS  PENCIL  RULER  SANDPAPER  WHITE GLUE  PAINT BRUSH  MODELING KNIFE  ENAMEL SPRAY PAINT (Yellow and Red)  PLASTIC CEMENT  MASKING TAPE  SANDING SEALER

KIT PARTS

BOOSTER BODY TUBE  ENGINE SPACER TUBE (Yellow)  ENGINE TUBES (2)  MAIN BODY TUBE  NOSE CONE INSERT  NOSE CONE  DIE-CUT FIN SHEET

CENTERING RINGS (LONG 2)  LAUNCH LUG  ENGINE BLOCK  STAGE COUPLER (Gray)  INSTRUCTION  DECAL
ROCKET ASSEMBLY

1. Mark the yellow engine spacer tube 1/4 inch from one end.
   B. Apply white glue inside the end of one of the 2 3/4 inch engine tubes 2 inches from one end.
   C. Using the engine spacer tube, push the engine block up into the end of the engine tube until the mark on the engine spacer tube is even with the end of the engine tube. Remove the engine spacer tube immediately.

2. A. Locate the two engine tubes and the two long paper centering rings.
   B. Slide one centering ring over one engine tube and locate it at the middle of the tube. Run glue around both ends of the centering ring assembly, then put excess glue away.
   C. Repeat the operation with other centering ring and engine tube.

3. A. Using a piece of scrap balsa, run a ring of white glue 1 1/2 inches up into long (upper stage) body tube and slide the engine tube assembly with engine block into end with glue.
   B. Engine tube and body tube ends should be even.

4. A. Run a ring of white glue around inside of one end of short (booster) body tube. Slide stage coupler (gray) into this end so 1/2 inch of coupler extends out of tube.
   B. Place mark 1 1/4 inch from one end of remaining engine tube assembly (no engine block).
   C. Run another ring of white glue in other end of booster body tube. Slide engine tube assembly (the way with no engine block) into end of tube opposite stage coupler. Be sure 1/4 inch of engine tube assembly extends out of tube...

5. A. Cut out body tube marking guide from front page.
   B. Wrap guide around engine tube end of long (upper stage) body tube and mark tube at all arrows. Indicate launch lug line with LL. Draw 3 inch lines up the tube for the fins and a 5 inch line up the tube for the launch lugs. Remove guide.
   C. Wrap guide around “booster” body tube and mark at arrows for fin lines only. You will not need a launch lug line on booster, as launch lugs will only go on upper stage. Draw fin lines entire length of booster body.
   D. Remove body tube marking guide.

   B. Stack fins together. Sand all edges smooth.
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A. Lay fins on patterns to find gluing (root) and front (leading) edges.
B. Position and glue fins on alignment lines one at a time. Let each dry several minutes before applying the next one.
C. Adjust fins to project straight out from tube.
D. Do not set stages on their fins while glue is wet. Use a dowel or pencil to hold up booster as fins dry.

**FINS MUST BE ATTACHED CORRECTLY FOR STABLE FLIGHT!**

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A. Cut two (2) 1/2 inch pieces from the launch lug.
B. Glue one 1/2 inch lug to the rear edge of the upper stage body tube on the launch lug line. Glue the back edge of the forward lug to the launch lug line 3 1/2 inches from the rear edge of the body tube.

9
A. Apply a white glue reinforcement to both sides of all fin/body tube joints on both stages, and to both sides of the launch lugs on the upper stage.
B. Support stages as shown until glue dries.

10
A. Cut shock cord mount from front page of instructions.
B. Crease on dotted lines by folding. Spread glue on section 1 and lay end of shock cord into glue. Fold over and apply glue to back of first section and exposed part of section 2. Lay shock cord as shown and fold mount over again.
C. Clamp unit together with fingers until glue sets.
11
A. Apply glue to inside front of upper stage body tube to cover an area no less than 1 inch to 2 inches from end. The glued area should be same size as shock cord mount.
B. Press mount firmly into glue as shown.
C. Hold until glue sets.

12
A. Assemble nose cone and nose cone insert with plastic cement.
B. When dry, tie free end of shock cord to eyelet with double knot.

13
A. Cut a 1 inch long piece of 3/4 inch wide masking tape.
B. Lay center of shock cord over end of streamer material as shown. Tape shock cord and streamer together.
C. Press tape down firmly to assure a strong bond.

FINISHING YOUR ROCKET
Apply sanding sealer to wood parts with small brush. When sealer is dry, lightly sand all sealed surfaces. Repeat sealing and sanding until balsa grain is filled and smooth. When sanding sealer and glue are completely dry, paint booster red and upper stage yellow. Follow instructions on spray can for best results. Let paint dry overnight before masking off bottom 11/4 inches of upper stage and painting upper portion red. To apply decals, cut each out, dip in lukewarm water for 20 seconds and hold until it uncurls. Refer to photograph on front page and/or on front of panel for decal placement. Slip decal off backing sheet and onto model. Blot away excess water. For best results, let decals dry overnight and apply a coat of clear spray paint to protect decals.

ROCKET PREFLIGHT
Crumple and insert 6 squares of recovery wadding in upper stage.
Roll streamer tightly.
Fold streamer in half 6 times.
Insert shock cord, streamer, and nose cone into rocket.

NOTE: If nose cone fits too loosely, wrap tape around the shoulder until a snug but not tight fit is achieved.