



SCOUT2

Height: 24.0"
Weight: 10 oz.
Diameter: 2.63"

Recommended Motors:
D 12-3, to 400 Feet
E 9-4, to 600 Feet
F 21-6 to 1800+ Feet

Kit Features Include:
Pre-slotted Airframe Tubing
Plywood Fins & Rings
Plastic Nose Cone
Parachute Recovery

THANK YOU FOR CHOOSING



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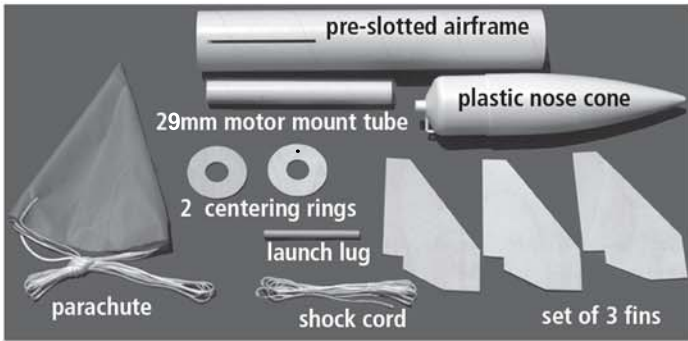
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SCOUT2 ASSEMBLY INSTRUCTIONS AND PARTS LIST



◇ Before beginning construction, read over assembly instructions to get familiar with the proper construction sequence.

◇ **TEST FIT PARTS BEFORE BONDING TOGETHER.**
It may be necessary to lightly sand some parts to obtain a proper fit.

◇ The following will be needed for the construction and finishing of this kit:

12" ruler, Masking tape, Sandpaper, Pen or pencil, Primer and paint, Epoxy or Yellow Carpenter's Glue ("Glue" will be used from now on indicating your choice of Epoxy or Yellow Carpenter's Glue. We suggest using Yellow Carpenter's Glue for most groups).

1. Glue a centering ring 1/4" from the top-end of the 8" length of the 24mm motor mount tube, this will be the "Top" or "Forward" end of the assembly. Attach the other centering ring 3/4" from the other end of the motor mount tube, this is the "Bottom" or "Aft" end where the motor will be installed later. Make sure both rings are perpendicular (at right angles to) the motor tube. Set aside to dry completely.

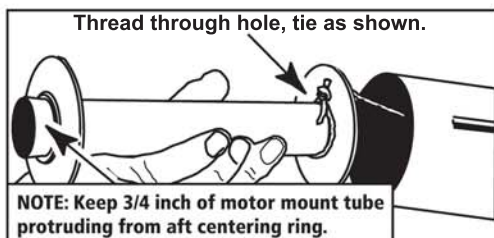
2. While this assembly is drying, check the fit between the fins and pre-slotted airframe, make sure they fit nicely into the slots. Sand each fin's leading edge (the long angle edge) of the fins to smooth off the square edge, this reduces drag.

3. Using a guide such as a door-frame, mark a light pencil line exactly between any two fin slots from 5" up the airframe to 10" up the airframe from the bottom. This will be your guide for gluing on the launch lug.

4. Lightly sand the plastic nose cone with fine sandpaper to remove molding seam line. At this time, remove any plastic flash that may be left molded into the nose cone eyelet. This is necessary for shock cord attachment.

5. By now the Motor Mount Assembly should be dry. If not, take a break and wait until it is solid.

6. Once fully dry, tie the long shock cord around the motor mount tube just below the "Top" or "Forward" centering ring as shown below. Thread the rest of the shock cord down through the Pre-Slotted Airframe from the Aft end (the end with the slots) and insert the "Top" centering ring into the Pre-Slotted Airframe. Slide the assembly up into the airframe until the "Aft" centering ring is aligned flush with the bottom of the slots. Make sure that the top edge of the "Aft" ring does not interfere with the fin slots or they will not fit.



7. Apply a continuous bead of glue around the joint between the bottom of the aft ring and the airframe tube and set aside to harden. Wipe off excess glue with a finger to form a fillet. The Shock cord interference fit should hold the assembly in place so that it does not slide down into the slots while drying.

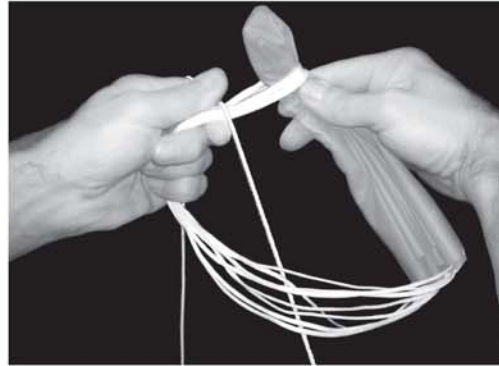
8. Place a nice bead of glue on one of the fin's root edges and slide it directly into one of the three pre-cut fin slots on the main airframe so that it seats on the motor mount tube. Wipe off any excess glue that is left on the Airframe after inserting the fin with your finger to form a smooth joint fillet. Keep the airframe

in a horizontal position while drying making sure that the fin is straight up from the airframe tube. When dry, repeat this procedure with the remaining fins. Glue the launch lug directly on the previously marked launch lug guideline on the main airframe. Set aside to dry in a horizontal position Allow this assembly to dry completely before applying primer and paint.

9. Give all fin and launch lug joints **ADDED** glue fillets for **MAXIMUM** strength. When dry, lightly sand all surfaces of your model.

10. When you are satisfied with the smooth sanded finish of your model, it is ready to prime and then paint in the color or colors of your choice.

11. When the paint is completely dry, take the end of the shock cord and pass it through the eyelet of the plastic nose cone and secure it with a double knot.



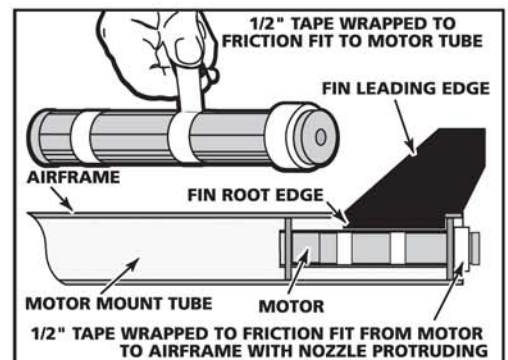
12. Attach the parachute to the shock cord at a point about 1/3 of the length of the shock cord from the nose cone. To do this, take the chute shroud line loop ends in one hand and, with the other hand, take the chute and go around the shock cord, passing the chute through the shroud

line loops. When the chute is pulled through tightly it will form a knot.

13. This kit uses no motor blocks because of all the different motor combinations available (with varying motor lengths). Instead, tightly wrap 1/2" wide masking tape around the nozzle end of the motor to a diameter equal to that of the motor mount tube (4 or 5 wraps). This will keep the motor from pushing forward upon ignition. This is known as a "Thrust Ring".

14. Friction fit the motor in place by wrapping masking tape around the motor in two places for a snug fit in the motor mount tube. This will prevent the motor from ejecting rearward upon activation of the ejection charge. Over wrap the thrust ring and the protruding motor mount tube with a wrap or 2 of tape to insure the motor stays in the rocket and the ejection gas pops the chute correctly.

Once the motor is in place, overwrap the thrust ring and the exposed motor mount tube with a wrap of masking tape to ensure the motor stays put.



16. Remember to use enough recovery wadding to protect the chute from the hot ejection charge gasses (about 2" of loose LOC WADD wadding is plenty). Pack your chute and shock cord on top of the loose wadding and push on the nose cone.

17. Always follow motor manufacturer's instructions for motor use and ignition, and launch this vehicle on calm, windless days to ensure safe recovery.

