Radial has been modified to permit cooling airflow an air-flow baffle for more efficient engine cooling. enhance scale appearance, but it also serves as opening of 6-1/2" to 7". Not only does the Radial fit the Top Flite F4U Corsair and AT-6 Texan, this craft from the Golden Age of aviation. Modeled to Whitney radial engines that powered numerous airreferred to as Radial) is patterned after the Pratt & 1/7th scale Radial will fit any cowls with a frontal The Top Flite<sup>®</sup> Dummy Radial Engine (hereafter Do not attempt to start your engine unless the to the engine! See text for more information. **ASSEMBLY AND FINISHING** DUMMY RADIAL productsupport@top-flite.com IT TOP 3002 N. Apollo, Suite 1 Champaign, IL 61822 INSTRUCTIONS ENGINE Top Flite Models (217) 398-8970 WARNING

## RADIALP

## FOOLS AND SUPPLIES NEEDED (Not Included) Paint (see painting instructions) Hand Drill or Dremel® Moto-Tool® Small Paint Brushes Round File or 1/2" Drum Sander CA - Medium (Great Planes<sup>®</sup> Pro<sup>™</sup> recommended) 1/8" x 8" x 8" Lite-ply 1/16" and 1/8" Drill Bits Hobby Knife with # 11 Blade

cations required for a flying model. Static display models The following procedure covers the assembly and modifi-ASSEMBLY

Rubber Cement or Spray Adhesive 100 & 240 Grit Sandpaper

Scroll or Coping Saw

require no modification.

concentric circles on the **Baffle Template**. *The correct size* for the Top Flite Corsair and AT-6 is the innermost circle. 1. Measure the inside diameter of your cowl about 1-1/2" from the frontal opening and match this size to the



 $\square$  2. Trace or photocopy the Baffle Template, then glue the copy to a sheet of 1/8" lite-ply (not included). Cut around the circumference and the engine opening with a scroll or coping saw.



□ 3. Score around the inside corner of the Radial with a hobby knife. Flex the plastic around the rim until it breaks off.



the Radial. Smooth the edges with a round file or drum sander. ☐ 4. Cut away the prop shaft opening from the center of

be flush with the outside forward edge of the cowl for a better fit. The forward edge of the Crankcase should assembly inside the cowl. If necessary, sand the ply baffle □ 5. Tape the Radial to the ply baffle, then test fit the



Crankcase 1/16" Holes 1/8" Holes Rocker Arm Cover

into the Ignition Harness Ring between the Push through the dimple near the top of each Cylinder and also the bottom of each Rocker Arm Cover. Drill a 1/16" hole around the perimeter of the Crankcase and also through 6. Drill a 1/8" hole through each of the indented marks Rod holes

□ 7. Use 240 grit sandpaper to lightly sand the full length of the **3 plastic tubes** for better glue and paint adhesion. Cut **18 pieces 1-1/4**" long to use for the Push Rod Tubes.

□ 8. Sand the **16**" wire, then cut **9 pieces 1-1/2**" long to use for the Ignition Leads. Make a 90 degree bend 3/8" simulate flexible wires. from one end. Randomly bend the *long* section to

**Note:** As you will probably be removing at least one Cylinder when you use the Radial as an air baffle, you one Cylinder. Complete all 9 cylinders if you will only be need not install Push Rod Tubes and an Ignition Lead in using the Radial for static display.

return to step 9 when you are ready to proceed. preference, skip down to the section on Painting then this type of structure before final assembly. If this is your Painting Hint: Most modelers find that it's easier to paint



end of each piece. Don't worry about gluing them yet. should protrude inside the Radial about 3/32" at each 9. Insert the Push Rod Tubes into the Rocker Arm Covers and the crankcase as shown in the photo. They



the Cylinders. ☐ 10. Insert the Ignition Leads into the Crankcase and



both ends of all Push Rod Tubes and Ignition Leads. 11. Turn the Radial over and apply a drop of CA to (From the inside)

the engine. □ 12. (Flight Modification) Trim away one of the Cylinders but leave excess backing material in place. This material will be trimmed off during final fitting to

coarse sandpaper for a better glue bond. baffle. Hint: Roughen the back surface of the Radial with to align the "removed Cylinder" with the opening in the ☐ 13. Glue the Radial to the ply baffle with CA. Be sure

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