

## SECTION 7 COWLING



- Rotax radiator inside cowl (front)
- NACA scoop on right side for oil cooler



Tape the top and bottom halves together: The top overlaps on top of the bottom cowl in the groove.

Start at the front and tape towards the back.



The NACA scoops on the top and bottom help cool the cylinders.

Scoop on the left is the air intake for the carb.

Scoop on the right is connected to the oil cooler.

Radiator at the front below the prop.

Fiberglass cowl with the NACA scoops installed.



The cowl fits inside the overhang of the top and side skin.

Check that the prop extension is bolted to the engine before installing the cowl.

The muffler is not installed on the engine for the initial fit of the cowl.

Tape the cowl assembly to the fuselage.



Center cowl on prop hub

Photo of cowl fitted on the HD (in this photo the engine is not installed).



Check clearances with engine. Step to judge the profile of the cowl; the top is not sloped up.



Position the spinner; check the alignment of the spinner with the top and sides of the cowl. If necessary adjust the cowl to align with the spinner.

Temporarily install the prop.  
Check the clearance between the back of the prop and the cowl.



Test fit spinner on prop



Dzus fastener to attach the cowl to the airframe.

Photo of Dzus fastener to hold the top and bottom half of the cowls together.

Dzus fastener  
Spring  
A4 rivets



Along the top of the  
bottom cowl



Back side of rivet, no washers required.



Along the back edge of  
the bottom cowl

**IMPORTANT:** keep the spring across the center of the hole



2 RIVETS A4  
WITH FLAT NOSE PIECE  
ON THE RIVETER.

With a large drill bit, countersink the #30 holes in the fiberglass: the head of the rivet is flush with the surface.



To keep the top cowl up against the top skin.

The cowl slips between the crimped angle and the top skin.



The angle on the angle is longer than the skin to help align the cowl between the two.