NOTE: Do not remove material beyond the scribe lines or sand the cowl exterior.

Step 1: Trim the top cowl and bottom cowl edges to within 1/8 inch of the scribe lines. Sand to remove the remaining material up to the scribe line as shown in Figure 1. A block with 80 grit paper works well for this.

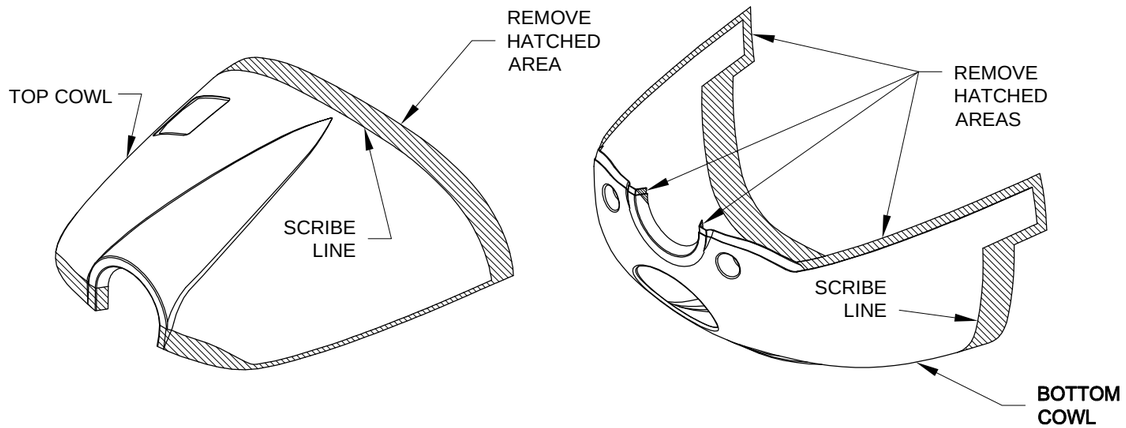

FIGURE 1: TRIMMING THE TOP AND BOTTOM COWL

Step 2: Clean any excess resin that may have cured along the flange joggle on the bottom cowl. Remove abnormal glass and resin buildup from the inside surface of the top cowl. Sand down the corners of the flange on the bottom cowl. This will allow the top cowl and bottom cowl to fit together with little or no mismatch in their outer surfaces. See Figure 2.

Step 3: Trim or sand the flange on the bottom cowl to the dimension shown in Figure 2.

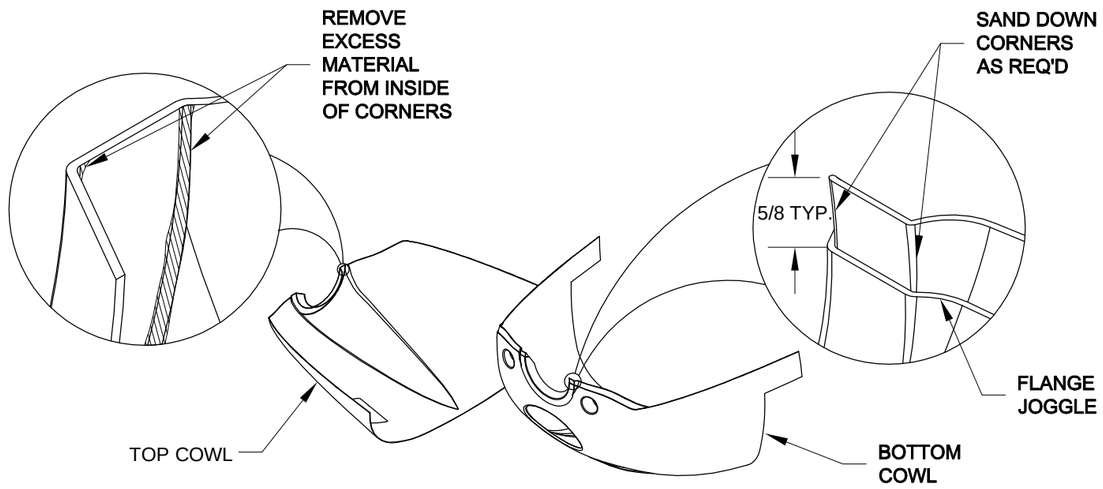

FIGURE 2: REMOVING EXCESS MATERIAL

NOTE: Plexi drill bits work best for drilling fiberglass. Regular bits may be modified as described in Section 12.

Step 4: Clamp the top and bottom cowls together as shown in Figure 3. Mark the three hole pattern shown in Figure 3 on both sides of the top cowling. Drill #40 the most inboard hole on each side then cleco these two holes. Remove the clecos and separate the top cowl and bottom cowl.

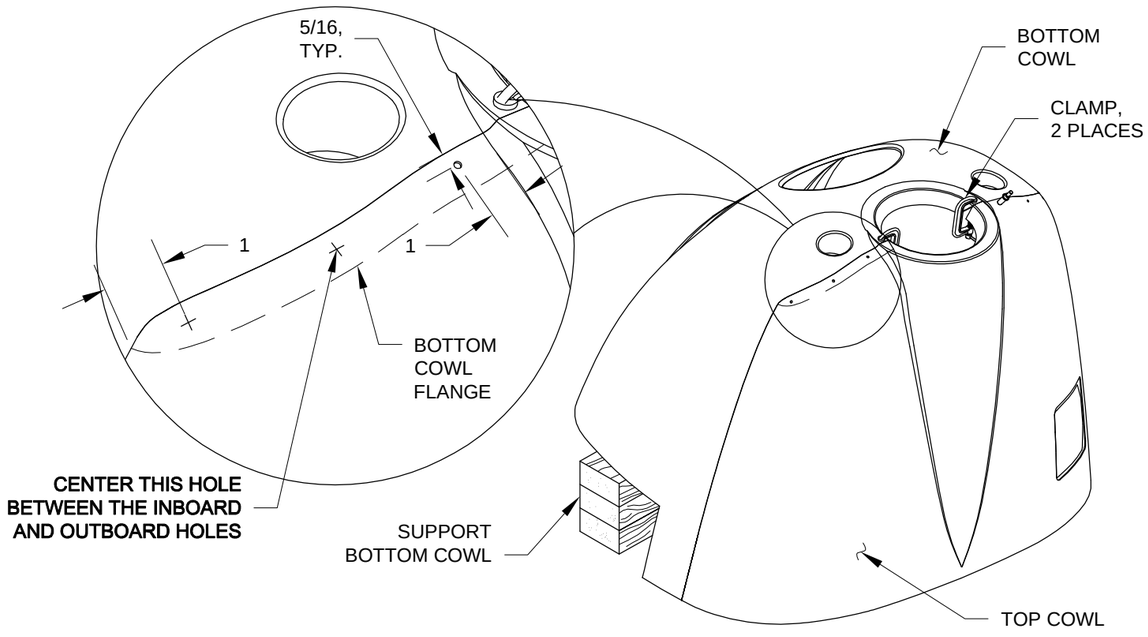

FIGURE 3: FASTENER LOCATIONS

Step 5: Cut a slot centered on the scoop of the bottom cowl and remove the material up to the scribe lines as shown in Figure 4.

Step 6: Use a unibit to drill a "starter" hole large enough to get a file or sanding block inserted then remove the material up to the scribe lines for the holes shown in Figure 4.

Step 7: Trim the bottom cowl air inlet to within 1/8 inch of the scribe line. Sand to remove the remaining material up to the scribe line as shown in Figure 4.

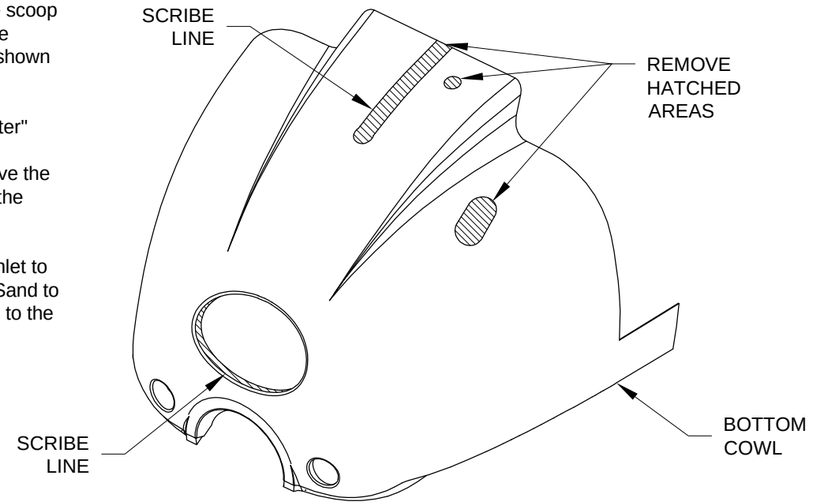

FIGURE 4: MODIFYING THE BOTTOM COWL