

S.I.L. NO. 04-560-04

SERVICE INFORMATION LETTER

FROM: JetProp LLC

23 September 2004

SUBJECT: Large Oil Cooler Plenum and NACA Duct Modification

TO: JetProp Owners

As part of our product improvement program, we have recently made some improvements to the oil cooler system to improve oil cooling for aircraft with engines that are experiencing high oil temperatures. Because of variations in the effectiveness of engine air seals, some engines have higher oil temperatures than others while operating at the same atmospheric conditions. The improvements will help those currently experiencing high oil temperatures but are not necessary for aircraft that do not experience oil temperatures at or near the maximum. The improvements include a new oil cooler plenum with a larger inlet opening and a modification to the NACA duct in the cowling enlarging the opening going into the oil cooler plenum. These can be retrofitted to existing JetProp aircraft which have the small oil cooler plenum by doing the following:

1. Remove the top cowling.
2. Remove the bottom cowling.
3. Replace the existing oil cooler plenum with the new larger inlet oil cooler plenum. Use the old oil cooler plenum to help locate the mounting holes in the new plenum.
4. Remove the metal ring from the end of the NACA Duct installed on the lower cowling.
5. Slip the trim template in place. The aft portion of the flange that mounts to the cowling should be flush. Use the trim template to mark the portion of the existing NACA duct to trim off.
6. Trim off the portion of the old NACA duct determined using the trim template (Figure 1).
7. Slide the new replacement NACA duct outlet onto the original NACA duct (Figure 2). The portion of the old NACA duct closest to the cowling may have to be trimmed more. With the replacement NACA duct outlet in place, the distance from the forward portion of the replacement duct to the forward end of the old NACA duct should be 15.75 inches (Figure 2).

8. When satisfied with the fit of the replacement NACA duct outlet, seal the mating surfaces with silicone sealant and use pop rivets as shown to hold it in place (Figure 3).
9. Now install the bottom cowling, install the new 6 inch skeet, and operate the oil cooler door through the full range to ensure proper operation without rubbing or binding.
10. Replace the top cowling.
11. Make a logbook entry reflecting that the installation of the Large Oil Cooler Plenum and NACA duct modification was accomplished in accordance with JetProp Service Letter 04-560-04.



Figure 1. NACA Duct Trimmed for Large Outlet

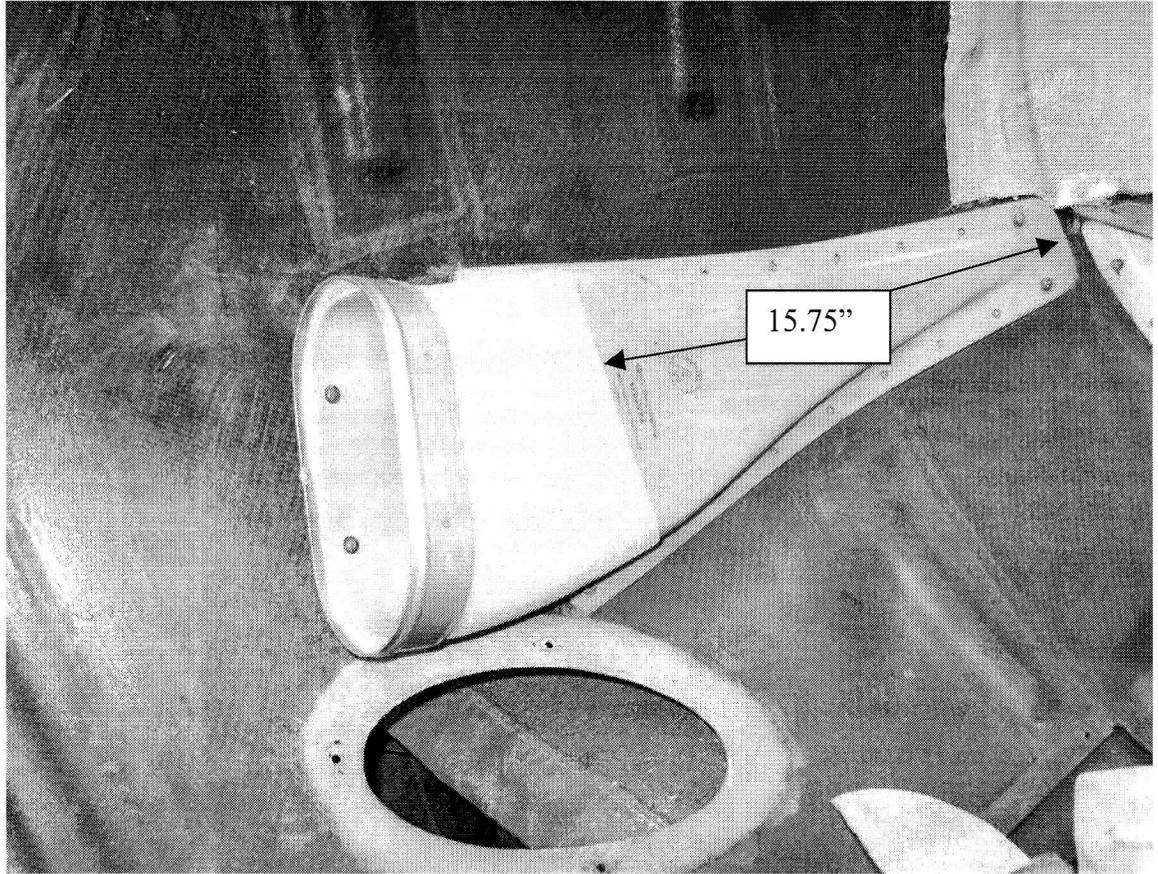


Figure 2. Large NACA Duct in Place

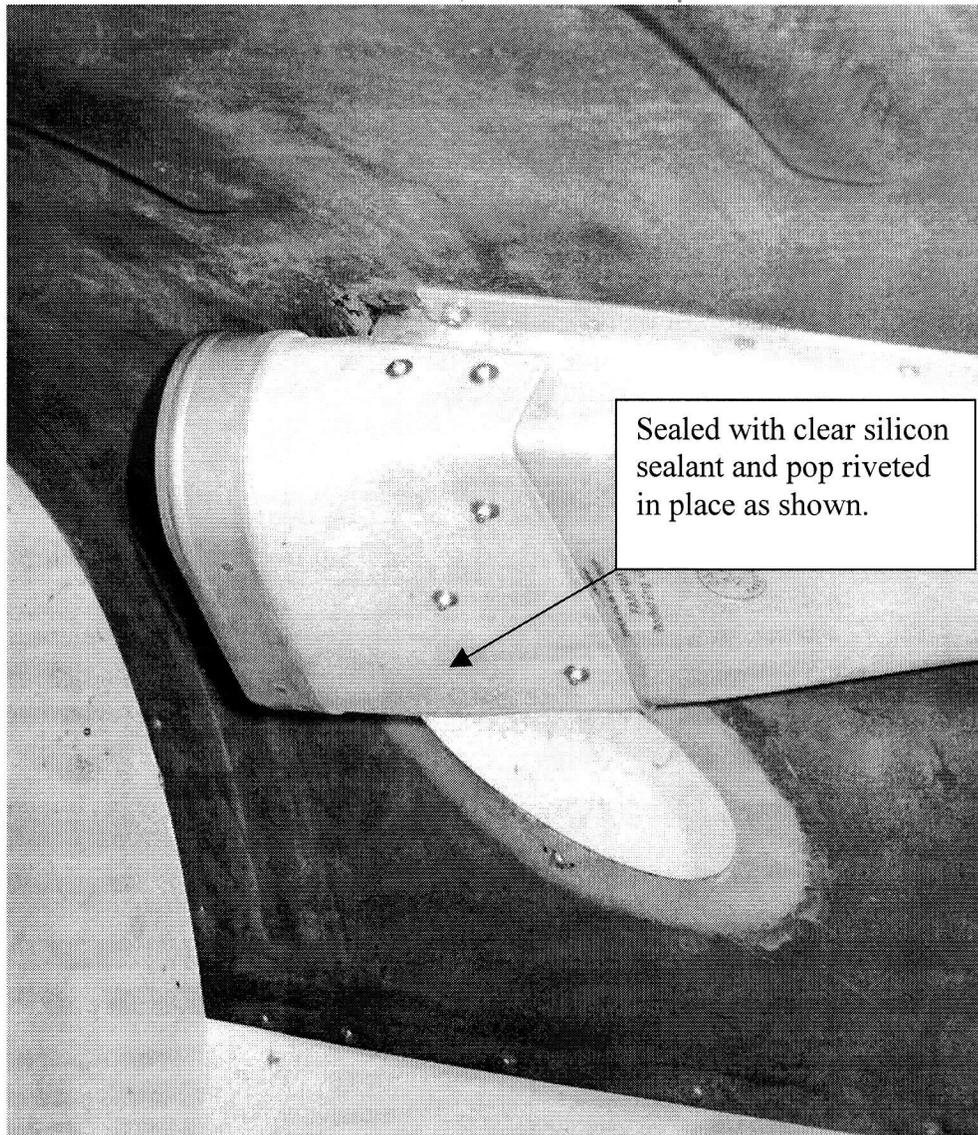


Figure 3. Large NACA Duct Installed in Place

If there are any questions, please contact Rich Runyon in Engineering or Rob Head in the Fiberglass shop at (509) 535-4401.

Rocket Engineering is dedicated to continuing to improve the JetProp DLX Conversion and to supporting our customers.

Sincerely,



Darwin C. Conrad
President
JetPROP, LLC