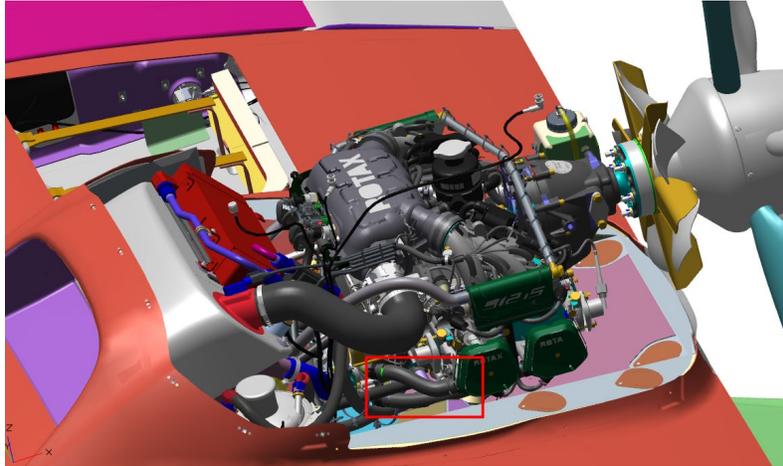
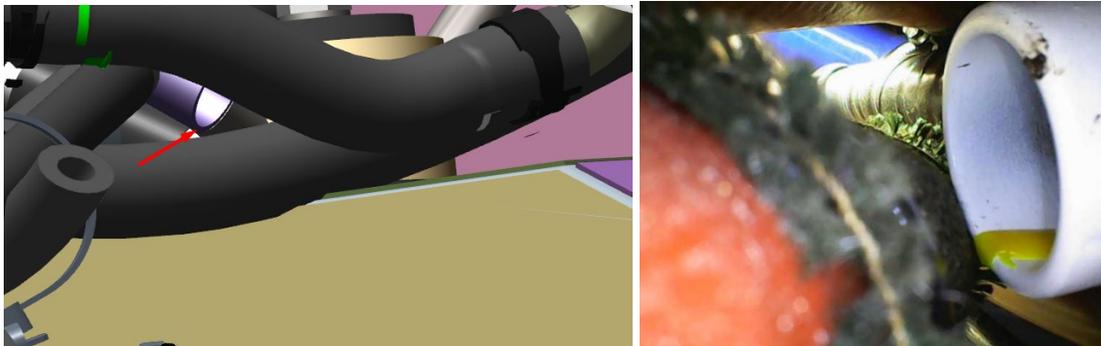


SERVICE BULLETIN**SB-093025-A****INSTRUCTIONS:***Figure 1. Location of Chafing**Figure 2. Interference Between Firewall and Coolant Hose**Figure 3. Interference Between Engine Mount Lug and Coolant Hose*



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Inspection

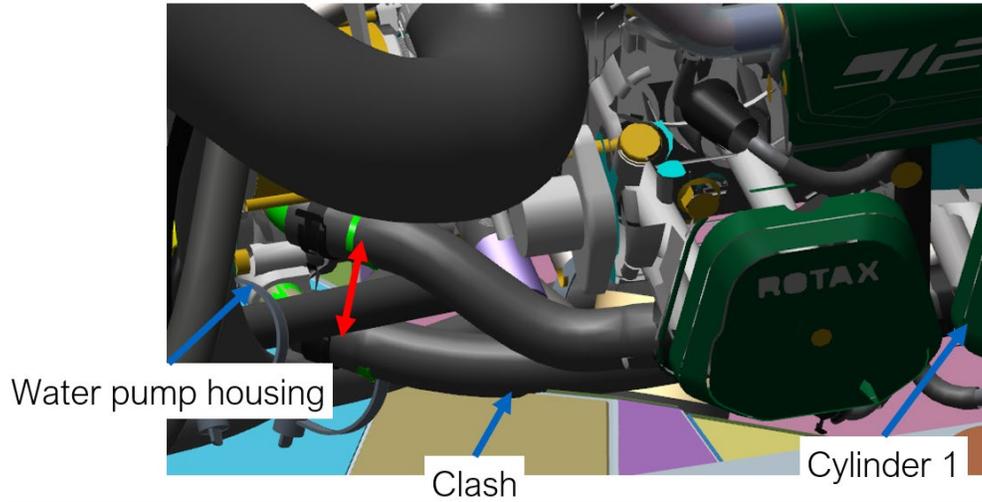
1. Remove the Engine Cowl and LH Muffler Fairing in accordance with the Aircraft Maintenance Manual, task 100497 (Remove Engine Cowlings).
2. Remove the LH Exhaust in accordance with the Aircraft Maintenance Manual, task 100501/100162 (Remove Exhaust System).
3. Inspect for contact between the Firewall and Coolant Hose (Figure 2) and/or between the Engine Mount Lug and Coolant Hose (Figure 3). If there is clearance, proceed to Reassembly; if contact/chafing is identified, proceed to Repair.
 - a. **NOTE:** *Coolant hoses may be orange silicone or black rubber hoses.*

Repair

4. Drain the coolant from the engine/radiator and ECS lines IAW the Aircraft MM, task 100147.
 - a. Recommended to disconnect ECS hose(s) near firewall attachment point for ease of access.
5. Visually inspect hoses for signs of chafing. If required, replace the hose in accordance with the ROTAX Maintenance Manual Heavy.
 - a. If hose is replaced or leak is found, complete Unscheduled Maintenance Check in accordance with ROTAX Maintenance Manual Line as required.
 - b. If previous repairs are present, including but not limited the presence of anti-chafe sleeving or cable ties, remove them. (Only applicable for hoses where chafing is present.)
6. Disconnect the coolant hoses from the water pump housing (not the cylinder ends), then reconnect them in opposite locations, so that the upper water pump outlet connects to Cyl 1 and the lower water pump outlet connects to Cyl 3. (Figure 4, Figure 6)
7. Verify that there is clearance between the hoses and firewall, and between the hoses and engine mount (Figure 2).
8. As needed, reapply Fire Barrier sealant to the firewall so there are no exposed edges/seams. (Figure 5)
 - a. Wipe clean with mineral spirits and wipe dry with a clean cloth.
 - b. **WARNING:** *When using mineral spirits, ensure work area is well ventilated and located near an emergency eye wash station. Wear the following PPE: Safety glasses with side shields or chemical goggles; Chemical resistant gloves (nitrile or equivalent).*
 - c. **CAUTION:** *Do not clean with isopropyl alcohol.*
 - d. Ensure the surface is dry before applying FIRE BARRIER 2000PLUS sealant.
 - e. Apply FIRE BARRIER 2000PLUS sealant in accordance with manufacturer's instructions, with a minimum 1/2 in. overlap with existing sealant.

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*Figure 4. Swap Hoses at Water Pump**Figure 5. Damaged Fire Barrier Sealant*



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Figure 6. Completed Repair

Reassembly

9. If applicable, service coolant in accordance with the Aircraft Maintenance Manual, task 100147.
10. Reinstall the LH Exhaust in accordance with the Aircraft Maintenance Manual, task 100336/100161.
11. Reinstall the LH Muffler Fairing and top Engine Cowl in accordance with the Aircraft Maintenance Manual, task 100335.

Make the following logbook entry:

“The inspection/repair of Service Bulletin SB-093025-A (Coolant Hose Chafing at Firewall) has been complied with (ref. FAA Exemption 10829D)”.

For aircraft registered outside the U.S., omit “(ref. FAA Exemption 10829D)” as applicable.

If you have questions, comments, or concerns about this Service Bulletin and/or if you are no longer owner/operator of this aircraft, please forward this information to the present owner/operator and notify ICON Aircraft at:

ICON Aircraft
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(707) 564-4000

support@iconaircraft.com

Please include the aircraft registration number, serial number, your name, and if known the contact information of the new owner/operator.