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Operation Alert #: 197

ISSUE DATE: October 5, 2026

Compliance: Mandatory

MODEL AFFECTED: S-20 & S-21 equipped w/ ROTAX 916iS

Subject:

RANS has received a few field reports indicating instances where turbocharger hoses have detached under high engine load. Specifically, hoses have separated from the ROTAX pop-off valve and, in one case, from the aluminum Intercooler Connecting Tube (KPPW0397).

A detached turbo hose results in an immediate loss of boost pressure, causing the engine to revert to normally aspirated operation.

Compliance:

1. Replace Pop-Off Valve Clamp

The currently installed T-Bolt Clamp (KSHW0128) has been determined to be too wide for the recessed groove on the ROTAX pop-off valve. To ensure proper seating and retention, replace this clamp with:

- **KSHW0129 — 50–70 mm Hose Clamp, 9 mm band width**

T-Bolt clamps remain approved for all other locations as specified in the *S-21 ROTAX 916iS Parts Manual*.

2. Add Beads to Intercooler Connecting Tube (KPPW0397)

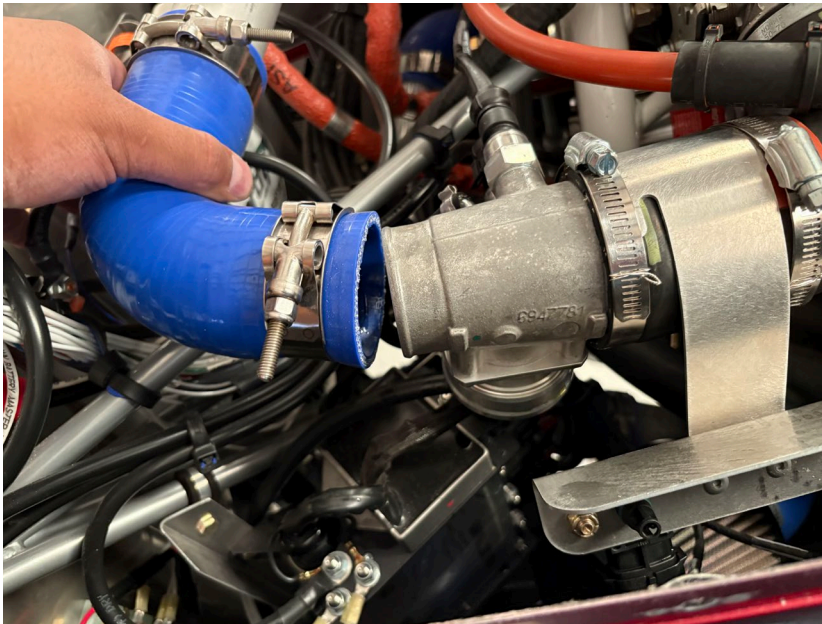
The Intercooler Connecting Tube is supplied without beads on either end. Adding a bead to both ends significantly improves hose retention and reduces the likelihood of hose separation under boost pressure.

3. Clean All Mating Surfaces Prior to Installation

During installation or reinstallation of silicone hoses:

- Thoroughly clean all silicone and aluminum surfaces using isopropyl alcohol or a similar solvent.
- Ensure all components are dry before final assembly. (Proper cleaning increases friction between the hose and tube, improving clamp effectiveness and reducing the chance of blow-off events.)
- Check torque at oil change and/or condition inspections on all hose clamps.

The images below show the RANS supplied hose/clamp coming loose from the ROTAX pop off valve.



Thank you for your attention to this matter.
As always, Fly safe!!