Subject:

Inspection of wire loom clearance

Date:	Approved by:
15/12/2025	Ing. Vladimír Pekár, Head of Design Organisation

Compliance Information:

Mandatory ~~Recommended~~ ~~Optional~~ ~~Informational~~

Affected Models/ Serial Numbers:

All SHARK types and models equipped with Rotax 912 series engine.

Reason/Purpose:

On some SHARK aircraft, damage to the outer insulation of the engine electronic module wires (Rotax 912) has been reported. The damage was caused by contact between the wire loom and the fuel hose, combined with vibration during engine operation.

The purpose of this Service Bulletin is to inspect the condition and clearance of the wires, and to implement corrective routing in order to avoid further chafing or potential electrical malfunction.

Description of Issue/Modification:

In some aircraft, the wire loom of the engine electronic module is routed close to, or in contact with, the fuel hose. If the clearance is too small or contact occurs, vibration can cause abrasion of the wire insulation.

Even if no damage is found but clearance is insufficient, the fuel hose must be repositioned and secured to achieve safe separation.

Instructions:

1. Inspection (Before Next Flight)

   Open the engine compartment and locate the wire loom of the electronic module and the adjacent fuel hose. Check if:

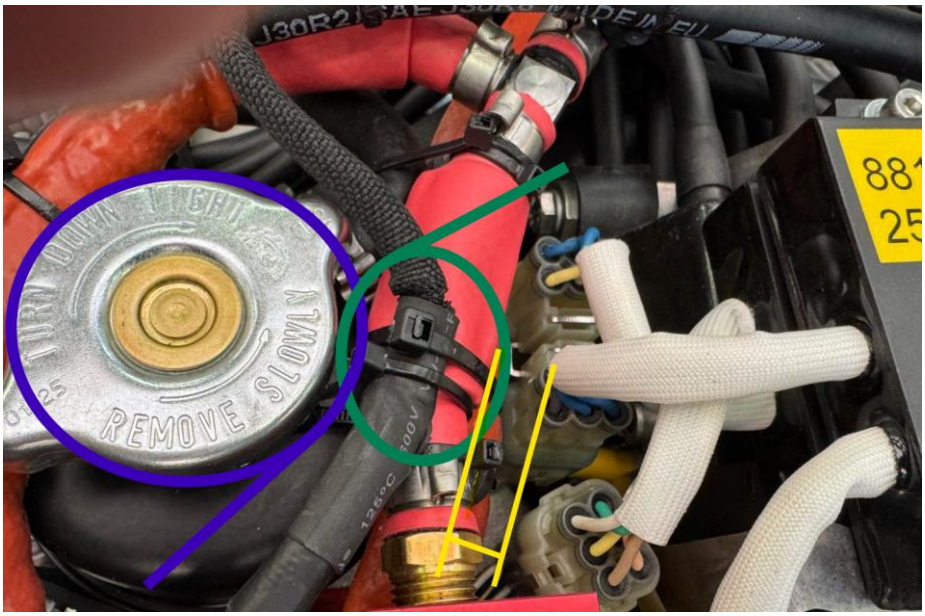
   - The wires are in direct contact with the fuel hose, or the clearance is less than 5 mm.

- The wire insulation shows any signs of chafing, abrasion, or wear.

2. Corrective Action – No Damage Found

If the wire insulation is not damaged, but contact exists or clearance is less than 5 mm, perform the following:

- Reposition the fuel hose as shown in the next figure.
- Secure the fuel hose using plastic zip ties so that the clearance between the fuel hose and the wire loom is greater than 5 mm:
  - Zip tie No. 1 around the coolant reservoir neck.
  - Zip tie No. 2 around the fuel hose.
- Ensure that the zip ties do not compress the fuel hose and do not restrict fuel flow.



3. Corrective Action – Damage Found

If any damage to the wire insulation is detected:

- In case of a damage affecting the wires themselves, contact SHARK.AERO or an authorised aviation electrician to consult the required steps and corrective action to repair wires.
- Perform corrective action according to point 2. above
- Do not operate the aircraft until the condition is evaluated and resolved.

Parts Required:

NIL

Material Information:

- Plastic zip ties

Weight and Balance Information:

NIL

Effectivity:

This bulletin is effective immediately.