

*Issues***SERVICE BULLETIN No.****SportStar-042b
Harmony LSA-020b**

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| 1. CONCERNING: | All airplanes: SportStar
Harmony LSA |
| 2. REASON: | Increasing the safety of the oil system of THE ROTAX 912 ULS2 / S2 series engines by installing the PYROJACKET PJA 14 protective sleeves on the oil system hoses. |
| 3. REQUIRED ACTIONS: | 1. Install the PYROJACKET PJA 14 protective sleeves on the route of the oil system of the ROTAX 912 ULS2 / S engine series or the ROTAX 912 iS engine series.
2. Record the bulletin implementation in the Logbook. |
| 4. LATEST DAY OF ACTION: | During the regular inspection after 100 hours or during the annual inspection whichever occurs first. |
| 5. CARRIED OUT BY: | Organizations authorized for maintenance / repairs of this type of airplane or the relevant authorized person. |
| 6. COSTS COVERED BY: | Airplane owner/operator. |
| 7. NECESSARY MATERIAL: | In accordance with the bulletin text. |
| 8. WORK PROCEDURE: | In accordance with the bulletin text. |
| 9. APPENDICES: | None. |

Valid from: June 9th 2023

**1. Work procedure****1.1 Necessary tools**

Name	Designation	Quantity
Wrench	No. 7	1 pc
Wrench	No. 22	1 pc
Flat screwdriver		1 pc
Snap-off utility knife		1 pc
Pliers		1 pc
Oil container	5 l	1 pc
Lint-free cloth		

1.2 Necessary material (in accordance with LSA 020b)

Name	Designation	Nomencl.	Quantity
PYROJACKET protective sleeve	PJA 14	055606	2,5 m
Lockwire	ø 0.81 mm (0.032")	118898	0,002 kg (5m)
Cable tie	3,6x142 mm	060333	10 pcs
Cable tie	4,8x368 mm	060371	10 pcs

The material shall be supplied by the airplane manufacturer.

1.3 Work procedure

- 1.3.1 Switch the electrical network off. Turn the fuel cock to the OFF position. Remove the upper engine cowl in accordance with the procedure specified in the Airplane. Disconnect the battery.
- 1.3.2 Unscrew and remove the bolts with the washers which attach the cooler to the lower engine cowl. Remove the hose clamp and disconnect the hose of the cold air inlet of the heating exchanger. Remove the lower part of the engine cowl.

CAUTION

DO NOT SPILL THE ENGINE OIL INTO THE ENGINE COMPARTMENT WHEN REMOVING THE INDIVIDUAL OIL SYSTEM HOSES.

- 1.3.3 Drain the oil from the oil system in accordance with the procedure specified in the in accordance with Aircraft Maintenance and Inspection Procedures for Harmony LSA (Section 4.5.1) or Aircraft Maintenance and Inspection Procedures for SportStar (Section 4.5.1).
- 1.3.4 Cut the cable ties securing the oil system hoses to the other components. Remove the original rubber protective covers against abrasion. Remove the ends of the oil system hoses (1, Fig. 1) from the more accessible sides or remove the hoses completely - all determined by the accessibility of the dismantling point itself. Take extra care when working with the oil system hoses due to residual oil inside the hoses.
- 1.3.5 Secure the ends of the removed hoses (1) with suitable plugs against the ingress of dirt and glass fibres contained in the PYROJACKET protective sleeve (2).
- 1.3.6 Determine the length of the PYROJACKET protective sleeve (2) in accordance with the length of each individual oil system hose. Add the necessary allowance to the length of the PYROJACKET protective sleeve (2) to allow the fittings to be attached

to both ends of the oil system hose (Fig. 1). The version of the oil system with a thermostat requires 5 pieces of PYROJACKET protective sleeves (2), the version of the oil system without a thermostat requires a total of 3 pieces of PYROJACKET protective sleeves (2).

- 1.3.7 Slide the PYROJACKET protective sleeves (2) onto the oil system hoses (1).
- 1.3.8 Remove the plugs from the oil system hoses and insert the hoses into the respective screw fittings and secure them with hose clamps.
- 1.3.9 Unfold the ends of the PYROJACKET protective sleeves (2) so that they cover the oil system hoses (1) including the fittings from one end to the other. Secure the ends of the PYROJACKET protective sleeves (2) with the lockwire (3). Fasten the oil system hoses (1) with attached PYROJACKET protective sleeves (2) to the other components using cable ties and spacer rings.
- 1.3.10 Refill the oil system in accordance with the procedure specified in the Aircraft Maintenance and Inspection Procedures for Harmony LSA (Section 3.6) or Aircraft Maintenance and Inspection Procedures for SportStar (Section 3.6).
- 1.3.11 Attach the cooler to the lower engine cowling and connect the cold air inlet hose to the heat exchanger. Install the lower engine cowling. Connect the battery. Install the upper engine cowling. Switch the electrical network on.
- 1.3.12 Carry out the engine test, check oil pressure and oil system leaks in accordance with Pilot's Operating Handbook (Section 4).

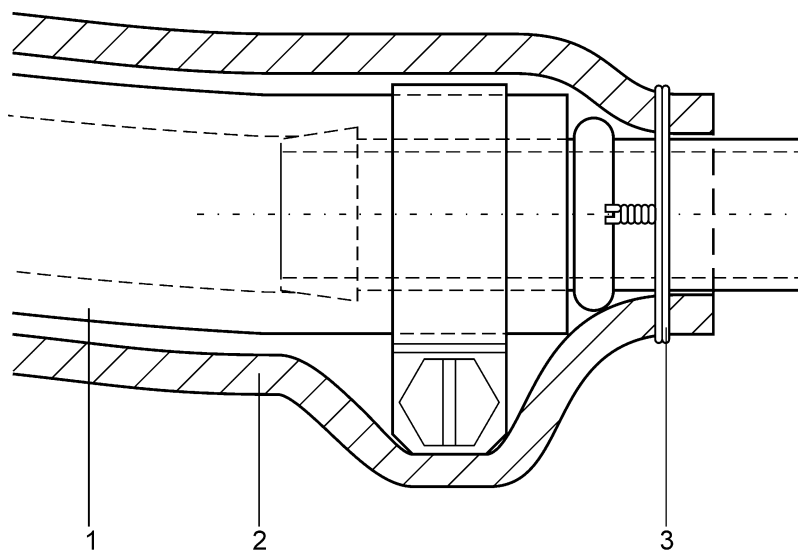


Fig. 1 – Installation of the PYROJACKET PJA 14 protective sleeve

Legend to Fig. 1

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|---|-------------------------------------|---|-----------------|
| 1 | Oil hose | 3 | Lockwire 0,81mm |
| 2 | PYROJACKET PJA 14 protective sleeve | | |

2. Influence on airplane documentation

2.1 Accompanying technical documentation

Not affected.

2.2 Operation technical documents

After the bulletin implementation, the authorized person will carry out the record in the Aircraft Logbook: „**Installation of the PYROJACKET PJA 14 protective sleeves on the oil system hoses was carried out in accordance with the Service Bulletin No. SPORTSTAR-042b, Harmony LSA-020b** “.

3. Influence on weight and balancing

Determine the weight of the empty airplane on the center of gravity of the airplane in accordance with Aircraft Maintenance and Inspection Procedures for Harmony LSA (Section 3.6) or Aircraft Maintenance and Inspection Procedures for SportStar (Section 3.6).