

AG-MI-2013-12-B-EN – Replacement of Oil Sump Hose

Category B

EFFECTIVE DATE

19.09.2013

SUPERSEDES/REPLACES

N/A (initial issue)

APPLICABILITY

Calidus serial numbers up to and including C00283 (excluding C00282) and Cavalon serial numbers up to and including V00018 equipped with rubber 'oil hose engine sump'

COMPLIANCE

To be performed within next maintenance, at latest within the next 10 flight hours.

BACKGROUND

Deregulation of lifetime limitation for the respective component

RISK OF NEGLECT

Failure to comply with this instruction/information will result in

- possible damage to the aircraft (e.g. major engine failure)
- loss of related warranty

SCOPE OF WORK

Inspect the configuration state of 'oil hose engine sump' and replace with steel braided hose if necessary

AFFECTED AREAS

N/A

SPECIAL TOOLS & CONSUMABLE MATERIALS

N/A

PARTS

Type	Engine	Part	
Calidus	Rotax 912 ULS	Oil hose engine sump 912	C.OL201
	Rotax 914 UL	Oil hose engine sump 914	C.OL301
Cavalon	Rotax 912 ULS and 914 UL	Feeding Pipe Oil Sump	V.OL10.02

LABOR AND REQUIREMENTS

To inspect 0,1 h

To accomplish 0,5 h

Task may only be performed by an organization or individual trained and entitled to do 'Line Maintenance' or the aircraft holder.

SUPPORT POLICY

N/A

Contact & Info:
 airworthiness@auto-gyro.com
 www.auto-gyro.com

AutoGyro GmbH
 Dornierstr. 14
 31137 Hildesheim

REFERENCES

Manufacturer Maintenance Manual – 52-00-00 4-1 Removal-Installation: Cowlings
Pilots Operating Handbook in latest revision

DOCUMENTATION

The accomplishment of this Manufacturer Information, or the decision of its rejection, must be properly documented, if such procedure is required by the relevant authority.

Warnings Caution and Notes

This instruction uses **WARNINGS**, **CAUTIONS** and **NOTES** in bold italic letters to indicate especially critical and important instructions. The call-outs appear at the top of the Maintenance Job Card if of general nature or applicable for the complete task, or will directly precede the individual Work Step.

The meaning of each call-out is defined below:

WARNING: A warning means that the neglect of the appropriate procedure or condition could result in personal injury or fatal accidents.

CAUTION: A caution means that the neglect of the appropriate procedure or condition could result in damage to or destruction of equipment.

NOTE: A note stresses the attention for a special circumstance, which is essential to emphasize.

Category Codes

- A** Safety critical - failure to comply may result in a significant reduction of flight safety, injury or death
- B** Important - failure to comply may result in reduced safety margin, injury and/or equipment damage
- C** Beneficial - improves operating behaviour, reliability and/or maintainability

COMPLIANCE PROCEDURE

GENERAL, REFERENCES AND REQUIREMENTS

Task may only be performed by an organization or individual trained and entitled to do 'Line Maintenance' or the aircraft holder.

Secure gyroplane against unauthorized or unintended operation!

Manufacturer Maintenance Manual – 52-00-00 4-1 Removal-Installation: Cowlings

SPECIAL TOOLS, CONSUMABLE MATERIALS AND PARTS

N/A

PRECAUTIONS AND SAFETY MEASURES

N/A

PROCEDURES

- 1 Demount cowlings according to 52-00-00 4-1. Inspection of configuration state. If rubber oil sump hose (Fig. 2) is mounted, perform steps 2-8.
- 2 Remove oil tank cover. Turn propeller by hand in direction of engine rotation (i.f.d. to the left) until a "gurgling"-sound is hearable in the oil tank. Close oil tank cover.
- 3 Snap off and remove cable ties on oil sump hose.
- 4 Remove wire lock of hollow screw/oil sump hose (Fig. 1-1). Unscrew hollow screw. Dispose of copper seal rings. Catch leaking oil residuals.
- 5 Unscrew oil sump hose from oil tank (in-side). Remove oil sump hose.
- 6 Mount steel braided oil sump hose in reverse order 5-2. Use new copper seal rings! Use standard torques for tightening.
- 7 Perform test run. Inspect for tightness of the lubrication system!
- 8 Mount cowlings according to 52-00-00 4-1.

NOTE: If attachment hardware with limited reusability (wire lock, self-locking nuts, torque bolts, ...) has been removed or altered during removal or disassembly, affected attachment hardware must be replaced.

PARTS LIST

Fig. Pos.	Description	PC PIT	Remark
3	Oil hose engine sump 912	L1 C.OL201	Calidus Rotax 912
3	Oil hose engine sump 914	L1 C.OL301	Calidus Rotax 914
3	Feeding Pipe Oil Sump	L1 V.OL10.02	Cavalon Rotax 912 and 914

ILLUSTRATIONS

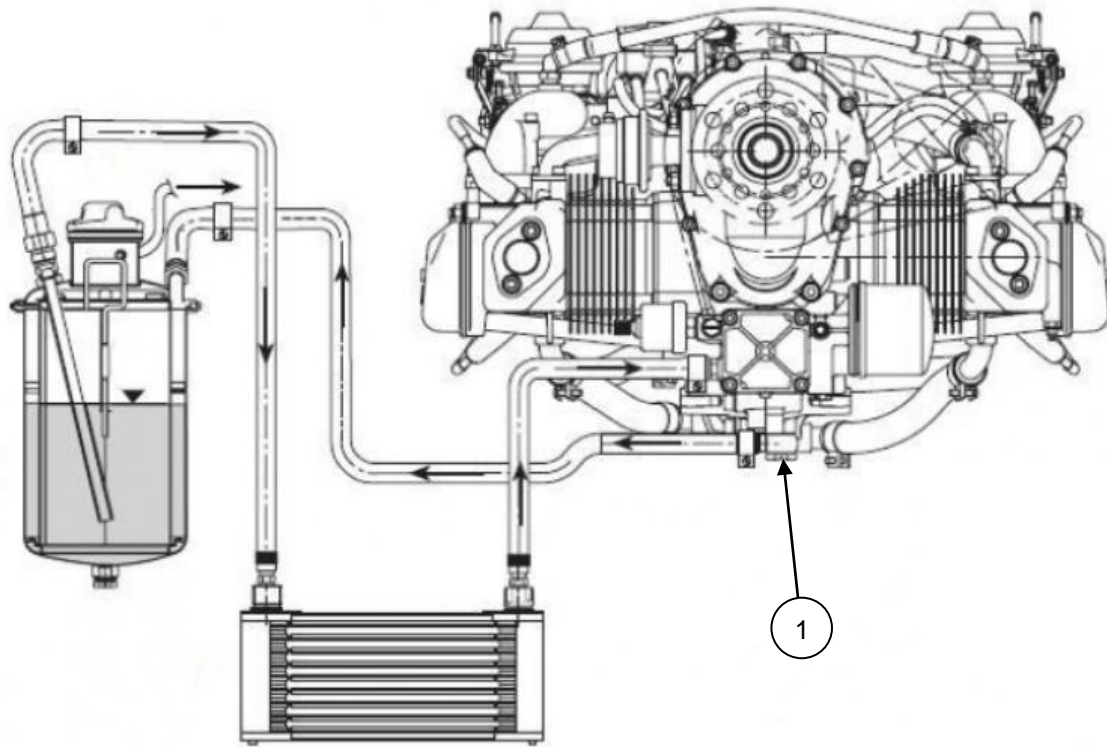


Fig. 1 – Lubrication system



Fig. 2 – Rubber ,oil hose engine sump' (to be replaced/old)



Fig. 3 – Steel braided oil hose (new)