

This Service bulletin has been produced in accordance with approved Alternative Procedures to DOA EASA.AP356.  
Technical data has been approved by EASA under Approval No.:

 INFORMATION

 RECOMMENDED

 **MANDATORY**

**A. SUBJECT:**

Replacement of water thermostat.

**B. AFFECTED AIRPLANES:**

DY-487/2013 LSA;    DY-491/2013 LSA;    DY-493/2014 LSA;    DY-494/2014 LSA;  
 DY-496/2014 LSA;    DY-499/2014 LSA;    DY-500/2014 LSA;    DY-501/2014 LSA;  
 DY-508/2014 LSA;    DY-510/2014 LSA;    DY-514/2014 LSA;

**C. REASON:**

Uneven cylinder heads temperatures until the water thermostat opens have been observed at the airplanes equipped with engines (new cylinder heads) identified by Rotax Service Bulletins SB-912-066UL and SB-914-047UL.

**D. REQUIRED ACTION:**

Replacement of original water thermostats with the modified ones according to below procedures.

Refer also to airplane the Airplane Maintenance Manual (AMM) and Maintenance Manual for Rotax Engine Types 912/914 Series.

Warning: Allow the engine to cool sufficiently before proceed any intervention in the engine water cooling system!

**D1 - Procedure for Fixed Landing Gear and Engine Rotax 912:**

1. Remove the engine cowlings.
2. Drain the coolant (Figure 1).
  - 2.1. Open the expansion tank cap (1),
  - 2.2. Release the clamp (2), pull out the hose (3) from the water radiator (4) and drain the coolant to a suitable tank.
  - 2.3. Put the hose (3) on water radiator (4) and finalize the clamp (2).

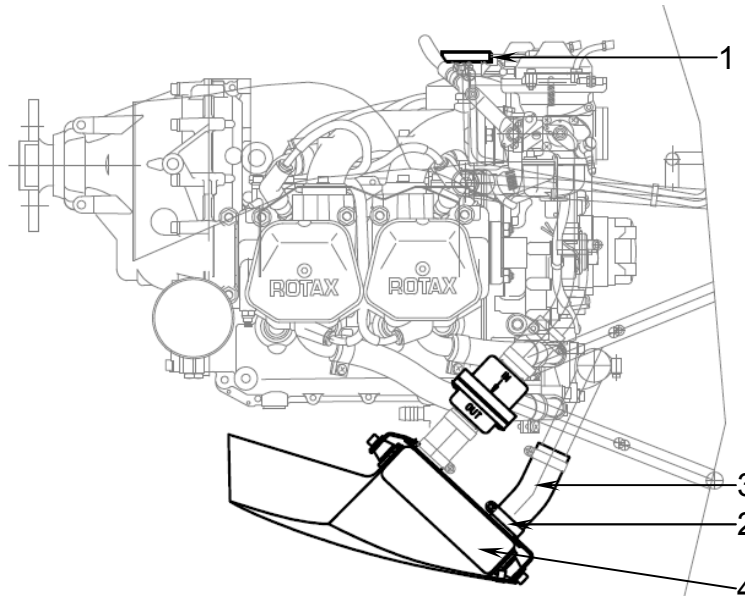


Figure 1

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### 3. Water thermostat replacement (Figure 2).

3.1. Release the clamps (5) and remove the original water thermostat type F1102 (6).

3.2. Install new water thermostat DYN-170-141 (7) marked by "M" at the same position.  
 Check the correct IN/OUT direction of installed thermostat.

3.3. Finalize the clamps (5).

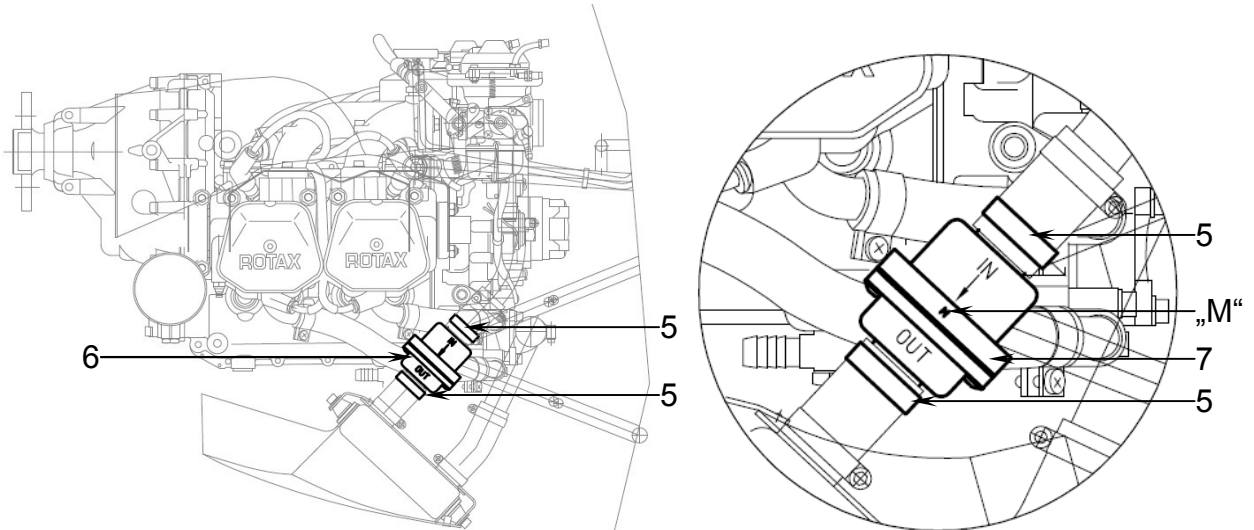


Figure 2

### 4. Refill the coolant and vent the cooling system.

4.1. Refill the coolant into the expansion tank and overflow bottle.

4.2. Perform visual check of cooling system leakage.

4.3. Install the engine cowlings and perform engine ground test.

4.4. Let the engine to cool down.

4.5. Perform visual check of cooling system leakage. Check the coolant level and refill as necessary.

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### D2 - Procedure for Retractable Landing Gear and Engine Rotax 914:

1. Remove the engine cowlings.
2. Drain the coolant (Figure 3).
  - 2.1. Open the expansion tank cap (1),
  - 2.2. Release the clamp (2), pull out the hose (3) from the water radiator (4) and drain the coolant to a suitable tank.
  - 2.3. Put the hose (3) on water radiator (4) and finalize the clamp (2).

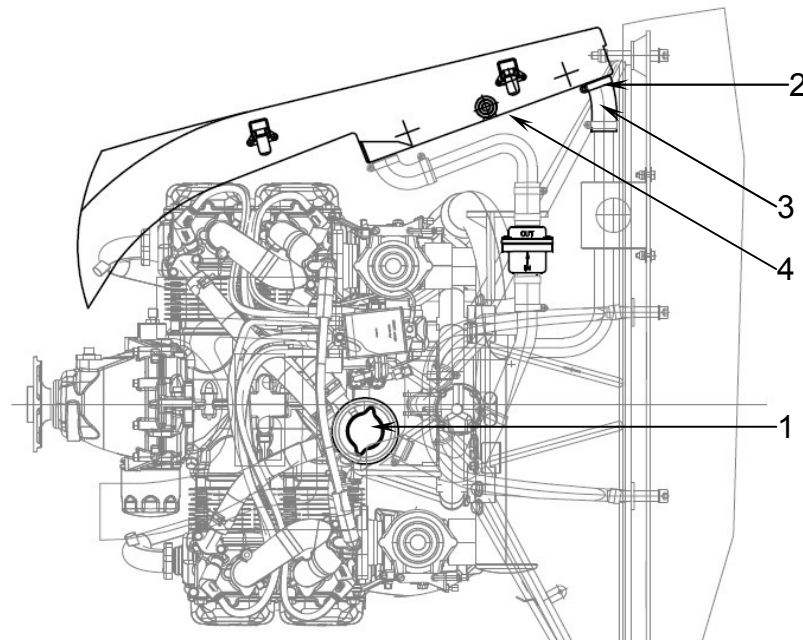


Figure 3

3. Water thermostat replacement (Figure 4).
  - 3.1. Release the clamps (5) and remove the original water thermostat type F1102 (6).
  - 3.2. Install new water thermostat DYN-170-141 (7) marked by "M" at the same position.  
 Check the correct IN/OUT direction of installed thermostat.
  - 3.3. Finalize the clamps (5).

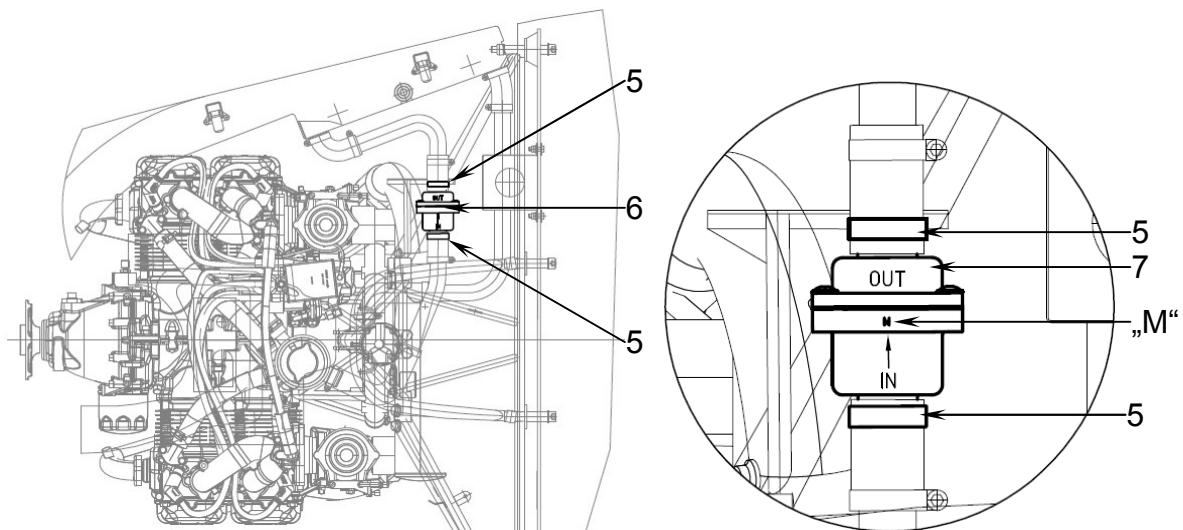


Figure 4

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4. Refill the coolant and vent the cooling system.
  - 4.1. Refill the coolant into the expansion tank and overflow bottle.
  - 4.2. Perform visual check of cooling system leakage.
  - 4.3. Install the engine cowlings and perform engine ground test.
  - 4.4. Let the engine to cool down.
  - 4.5. Perform visual check of cooling system leakage. Check the coolant level and refill as necessary.

**E. COMPLIANCE:**

At next periodic inspection or end of April 2015, whichever comes first.

**F. WEIGHT AND BALANCE:**

Weight change:           None  
 Moment change:        Unaffected

**G. ACTION CARRIED OUT BY:**

- Airplane manufacturer Aerospool spol. s r. o. or its local representative
- Maintenance personnel of a Part-M, Section A Subpart F maintenance organization
- Independent staff qualified in accordance with Part-66

**H. COSTS COVERED BY:**

Aerospool spol. s r. o.  
 Manpower: max. 1 hour

**I. NECESSARY MATERIAL:**

For material purchase contact the airplane manufacturer's local representative or contact airplane manufacturer directly at [spareparts@aerospool.sk](mailto:spareparts@aerospool.sk).


Part Name	Part Number	Quantity
Modified water thermostat	DYN-170-141	1 pc

**J. DOCUMENTATION:**

Record the compliance with this Service Bulletin in the airplane documentation and inform the airplane manufacturer or its local representative.

**K. ENCLOSURES:**

None.

<p><b>Issued by:</b></p>  <p>Prievidza, 02.04.2015</p>	<p><b>Approved by:</b></p>   <p>EASA</p>
Place, date, signature	EASA