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Approved Maintenance Organisation AMO1264 Manufacturing Organisation - M677

SERVICE BULLETIN

#0011

Page 1 of 1

(The Airplane Factory (Pty) Ltd. considers compliance with all Service Bulletins mandatory)

RELEASE DATE: 26 July 2017

EFFECTIVE DATE: 26 July 2017

SUBJECT: Repositioning and cooling of B regulator on Rotax 912 iS engines

MODELS AFFECTED: All Rotax 912 iS engines

COMPLIANCE TIME: Next 200 hours or 6 (Six) months whichever comes first

LABOUR TIME: 1.5 hours

MATERIAL COST AND RESPONSIBILITY: The Airplane Factory

DESCRIPTION AND PURPOSE:

The Service Bulletin requires the B regulator of the Rotax 912iS engines to be relocated and fitted with a heatsink.

In most installations of the fuse box where insufficient airflow is present, there is a possibility that the B regulator and the associated wires will get too hot and may exceed the manufacturers temperature specifications.

This could cause the failure of the B regulator and its wiring harness thereby rendering regulator B inoperative, which will cause the battery voltage to reduce and may cause the panel instruments to switch off.

Note: Please note that the attached pictures are for information purposes only and may not reflect your exact installation. If there is any confusion or questions that you may have regarding this installation, please contact The Airplane Factory technical department

PARTS AND CONSUMABLES LIST:

- a) Heat transfer paste;
- b) 2 x 18mm P clamps;
- c) 2 x 6mm i/d x 30mm Aluminum bushes required for attachment to P clamps;
- d) 2 x M6 x 50 plated bolts;
- e) 2 x M6 nylock nuts;
- f) 1 x 100mm x 98mm heat sink;
- g) 8 x Cable ties;
- h) 12-gauge earth strap;
- i) 2 x M6 washers;

TOOLS REQUIRED:

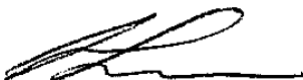
- a) ¼" Ratchet;
- b) 8mm Socket;
- c) 10mm Socket;

INSTRUCTIONS:

For repositioning of the regulator, the following should be done:

1. Remove regulator B from the fuse box using the appropriate tools;
2. Unplug the Deutsch plug from the regulator;
3. Fit the regulator and the supplied 12-gauge earth lead to the heatsink with the supplied M6 bolts, aluminium spacers, P clamps, washers and M6 nuts. Refer to the exploded view on figure 7 drawing for reference.
4. Fit the assembled heatsink regulator to the engine frame as per the attached drawing marked figure 7;
5. Attach the supplied 12-gauge lead to the 6mm mounting stud on the fuse box and ensure that a zero-resistance connection is made;
6. Re-attach the Deutsch plug connector;
7. Ground run the engine and verify that the charging voltage on the battery is correct.

Signed on this the 26th day of July 2017



**ACCOUNTABLE MANAGER
MR MARK FERREIRA**



Figure 1

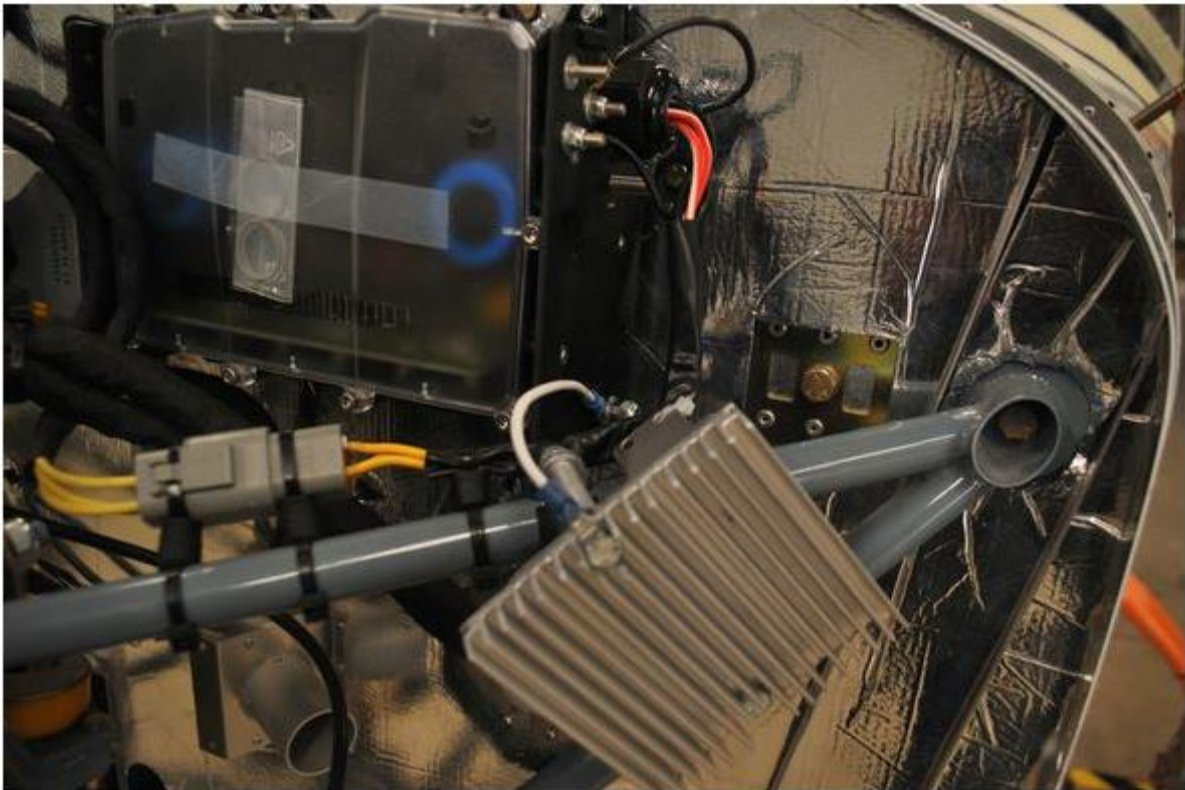


Figure 2

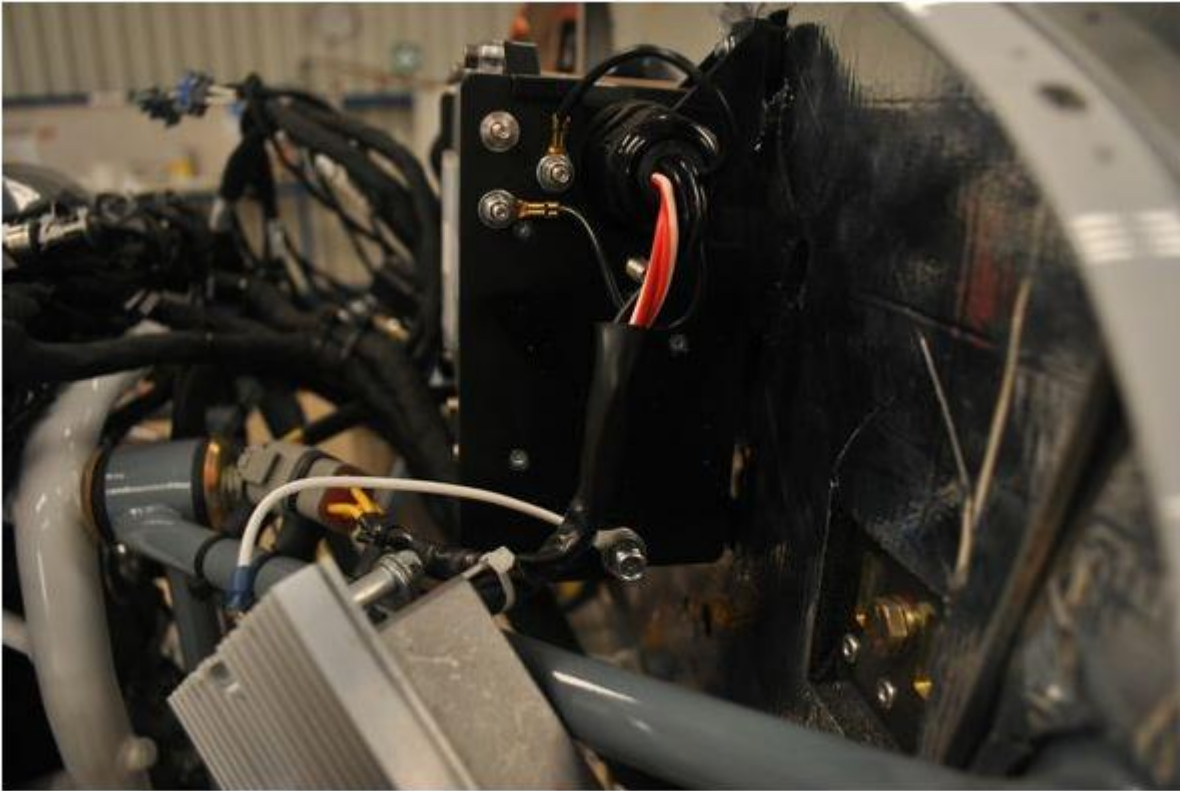


Figure 3

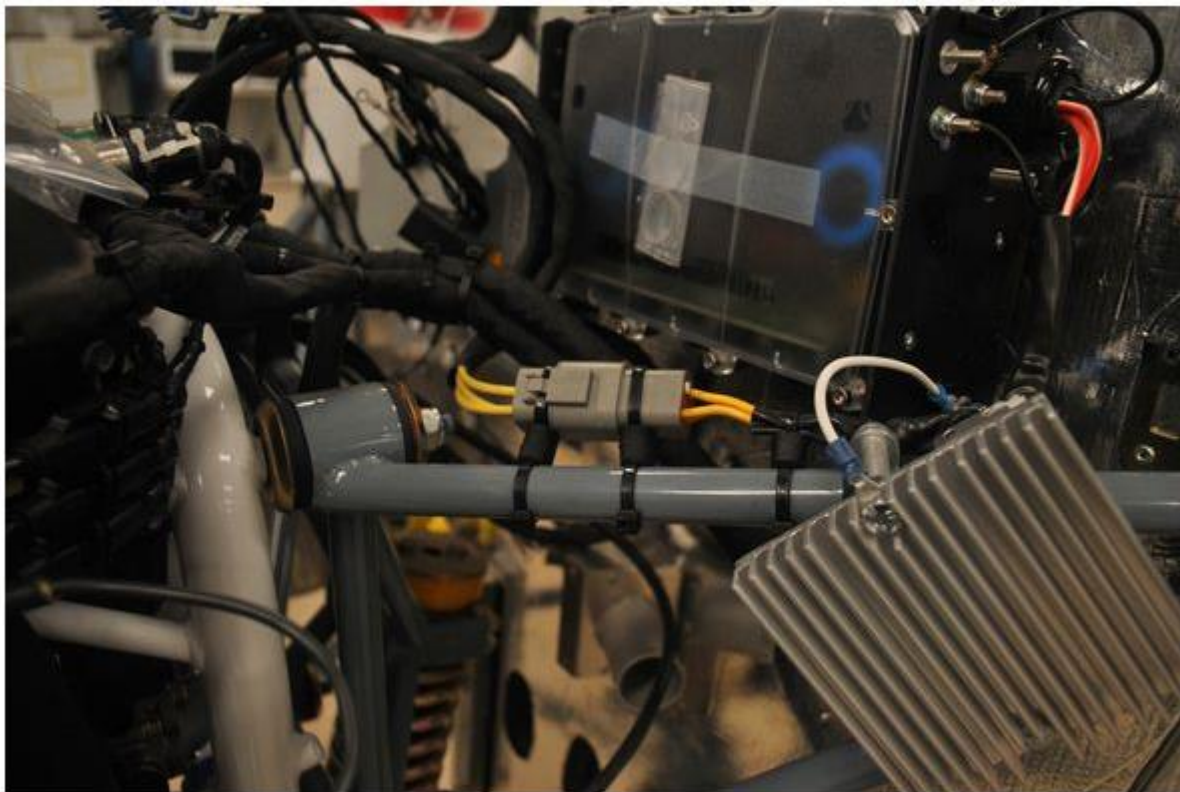


Figure 4

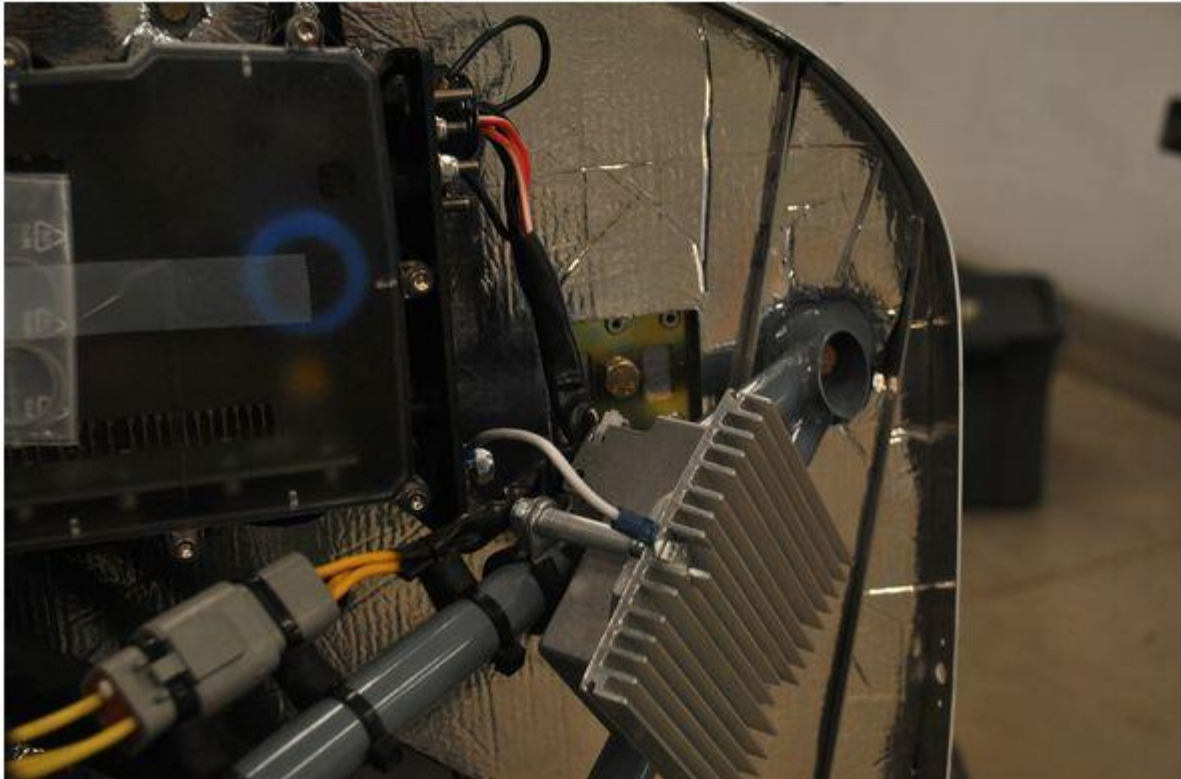


Figure 5

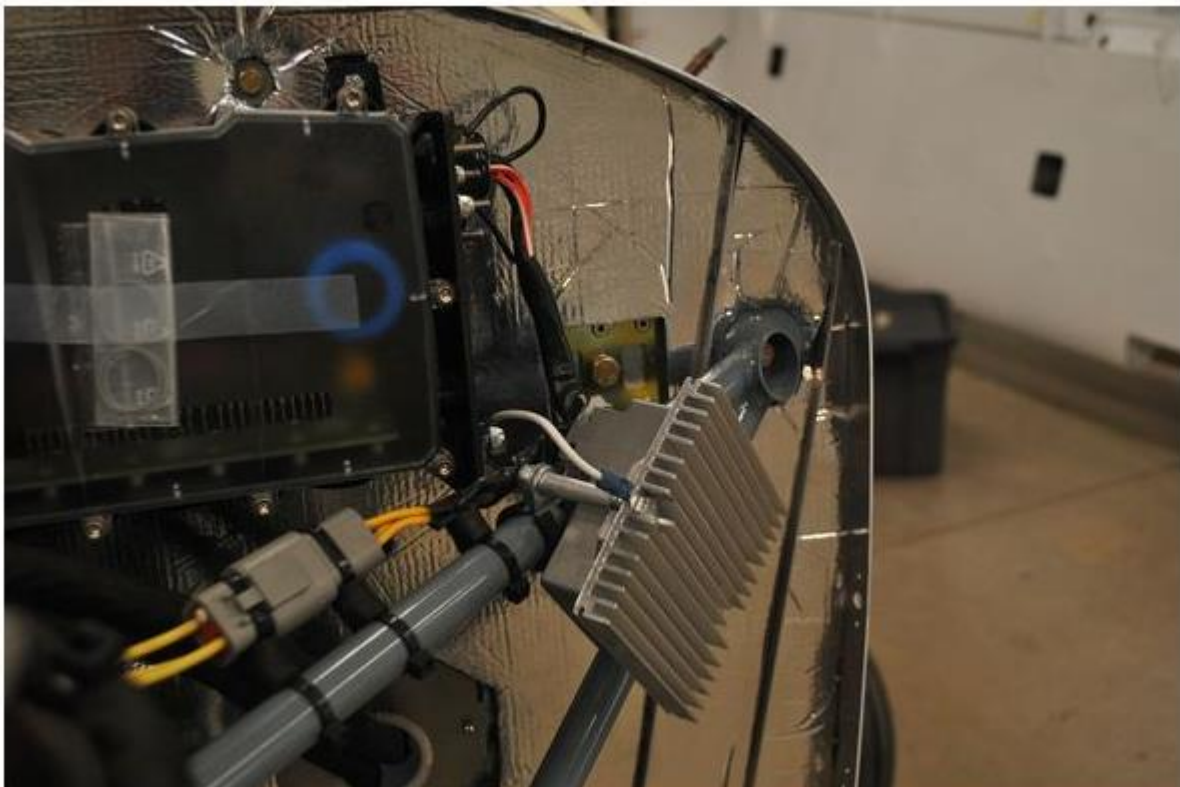
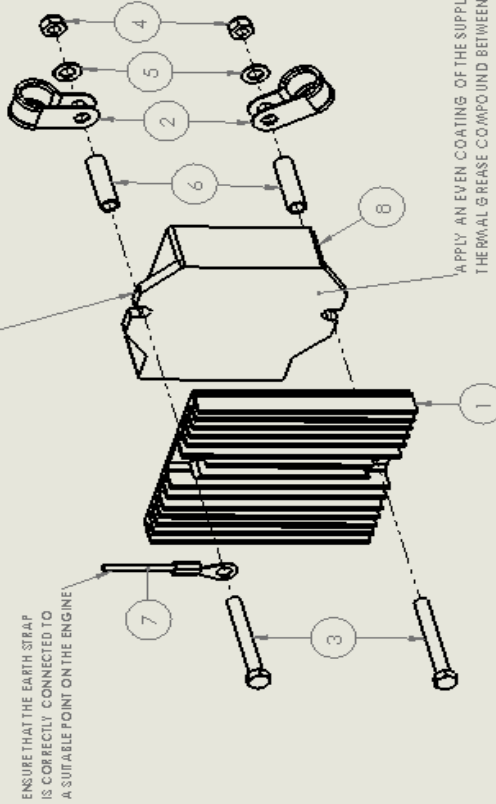


Figure 6

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EN-PHS-001-X-X-0	98 x 94mm Aluminium Finned Heatsink	1
2	HW-C-UM203-X-X-0	P-Clamp 18mm	2
3	HW-WTB-650-X-X-0	M6 x 50mm Bolt	2
4	HW-WTL-060-R-X-0	M6 Nylock Nut	2
5	HW-WTM-060-X-X-0	6mm Washer	2
6	HW-SPC-650-X-X-0	30 x 6mm Aluminium Spacer	2
7	EC-EST-400-X-X-0	400mm x 120mg Earth Strap	1
8	864095	Regulator 89125 - Grey Connector	1

ROTAX REGULATOR RECTIFIER:

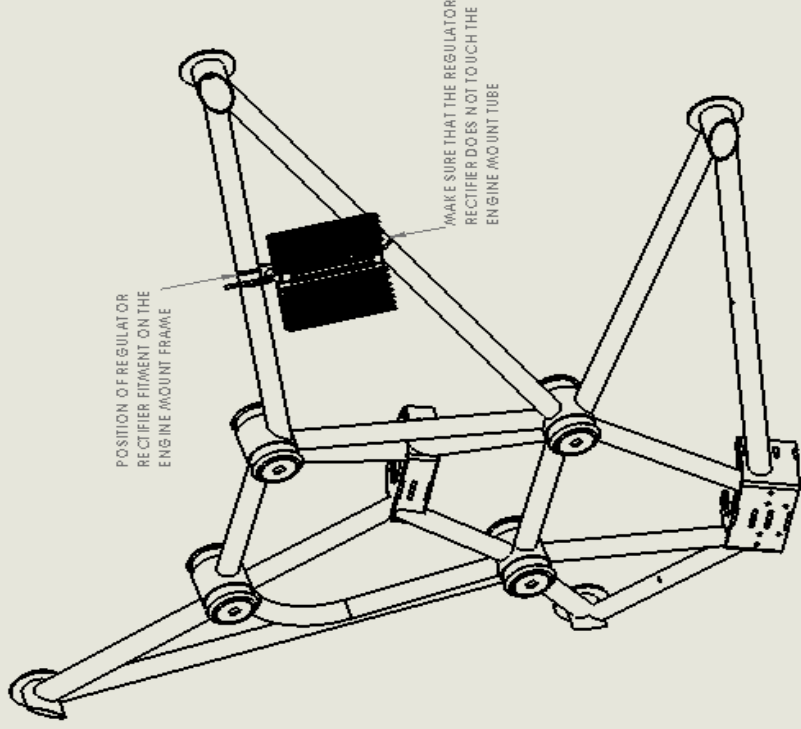
THIS PART IS NOT SUPPLIED WITH THE UPGRADE KIT
AS IT IS ALREADY SUPPLIED WITH THE ROTAX ENGINE



ENSURE THAT THE EARTH STRAP IS CORRECTLY CONNECTED TO A SUITABLE POINT ON THE ENGINE

APPLY AN EVEN COATING OF THE SUPPLIED THERMAL GREASE COMPOUND BETWEEN THE REGULATOR AND HEAT SINK BEFORE ASSEMBLY

EXPLODED ISOMETRIC ILLUSTRATION



ISOMETRIC ILLUSTRATION



THIS DRAWING IS THE PROPERTY OF THE AIRPLANE FACTORY (PT) LTD.			
PART NUMBER: ROTAX 912 IS REGULATOR RECTIFIER FITMENT			
REV	REV	DATE	REV
2	1	2017/07/12	0
SCALE	1:10	REVISED BY	A3

Figure 7