



2141 ICON Way, Vacaville, CA 95688 - Tel: 707.564.4000 – www.iconaircraft.com

SERVICE BULLETIN

SB-070716 REV D

DATE ISSUED: 8/1/2017
DATE EFFECTIVE: 8/1/2017
SUPERSEDES NOTICE: SB-070716 rev C
SUBJECT: ENGINE REGULATOR B OVERHEATING
AIRCRAFT AFFECTED: **MODEL:** A5
S/N: 00001, 00003 - 00020
REQUIRED ACTION: INSTALLING HEAT SINK (P/N 8822T13) TO ENGINE REGULATOR B IS NOT REQUIRED IF THE CURRENT CONFIGURATION HAS THE FAN (ICA011495) INSTALLED.
NOTE: UNTIL THIS SERVICE BULLETIN IS COMPLIED WITH, OPERATE UNDER THE FOLLOWING TEMPORARY OPERATING LIMITATIONS:
TURN ON ALL INTERIOR AND EXTERIOR LIGHTING TO FULL BRIGHTNESS PRIOR TO AND DURING ENGINE OPERATION. INSPECT WIRES OF REGULATOR B FOR DISCOLORATION AFTER EACH ENGINE OPERATION. NOTIFY MANUFACTURER IF SIGNS OF DISCOLORATION ARE VISIBLE.
TIME OF COMPLIANCE: INSPECT WIRES OF REGULATOR B FOR DISCOLORATION AFTER COMPLIANCE WITH THIS SERVICE BULLETIN AND INSPECT EVERY 50 AFH OR INSPECT PRIOR NEXT FLIGHT IF THE FLIGHT WAS OVER 3 HOURS CONTINUOUS. NOTIFY MANUFACTURER IF SIGNS OF DISCOLORATION BECOMES VISIBLE.

PURPOSE:

It was discovered during ICON flight operations that the engine regulator wiring harness had features of discoloration (browning).





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It was determined through testing that this discoloration was a result of the wire overheating beyond its rated temperature. Although there have been no customer safety or performance notifications from an overheated wire, to date, ICON Aircraft is implementing a solution to prevent overheating of this wire. This Service Bulletin is to provide instructions on how to install high efficiency heat sinks that lower the wire temperature below the temperature rating and a new regulator as necessary.

WARRANTY:

N/A

PARTS LIST:

PART	DESCRIPTION	A5
8822T13	Flat-surface heat sink	1
7661A11	Silver-filled conductive adhesive	AR
Loctite 243	Thread locker, blue	AR
664679	Rotax Regulator B	AR

INSTRUCTIONS:

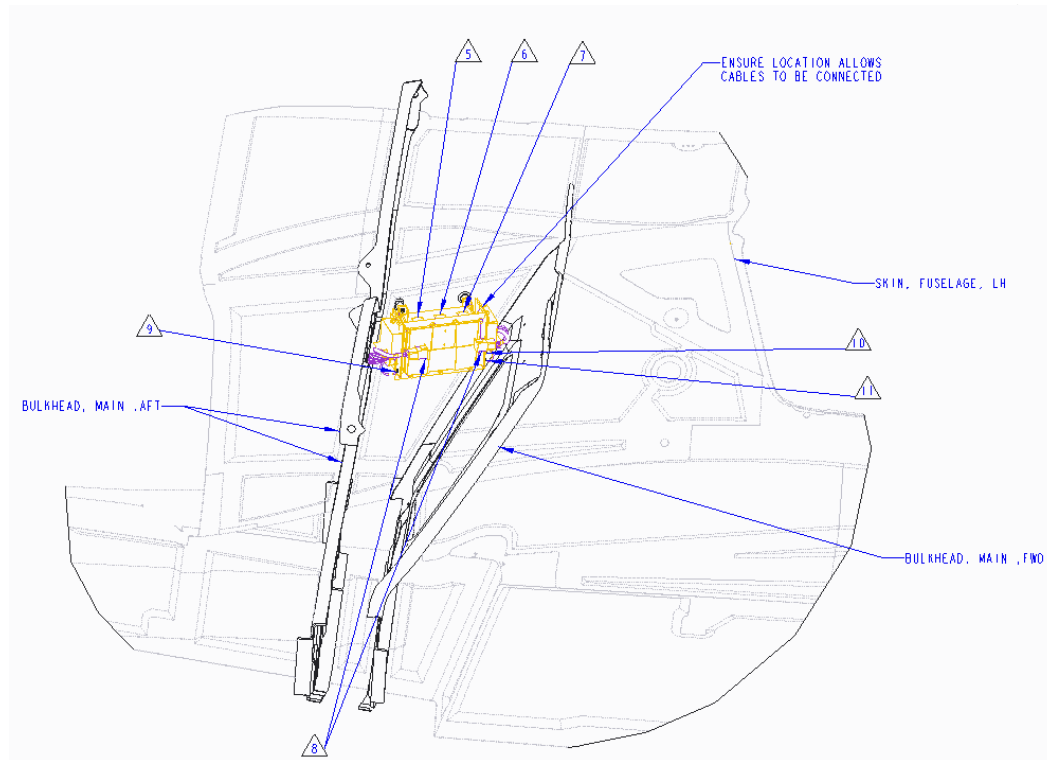
PREPARATION

- 1) Remove the baggage panel from the aircraft per the Maintenance Manual Chapter 3.4.1.
- 2) Disconnect electrical connections per figure below:

- 5 CONNECTS TO CONNECTOR D9069P ON FUSELAGE WIRE HARNESS.
- 6 CONNECTS TO CONNECTOR D9106P ON ENGINE EXTENSION WIRE HARNESS (FN: 005).
CONNECTOR D9107J CONNECTS TO ROTAX ENGINE WIRE HARNESS.
- 7 CONNECTS TO CONNECTOR D9104P ON ENGINE EXTENSION WIRE HARNESS (FN: 005).
CONNECTOR D9105J CONNECTS TO ROTAX ENGINE WIRE HARNESS.
- 8 CONNECTS TO MATCHING COLOR CONNECTOR ON ROTAX ENGINE WIRE HARNESS.
- 9 CONNECT TERMINAL T9077 FROM FUSELAGE WIRE HARNESS HERE.
- 10 CONNECT TERMINALS T9079 AND T9081 FROM FUSELAGE WIRE HARNESS HERE.
- 11 CONNECT ALL RING TERMINALS FROM ROTAX WIRE HARNESS HERE.
NOTE: DO NOT CONNECT MORE THAN 4 RING TERMINALS PER STUD.

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- 3) Remove fuse box by removing 4 hex nuts and washers. Retain hardware for re-installation.

INSTALLATION

- 4) Inspect wires on Regulator B. If any signs of discoloration (browning) are apparent, remove Regulator by removing two lock nuts (retain for re-installation) and disconnecting electrical connections. Replace with new regulator (PN: 664679) and re-connect electrical connections.
- 5) Cut heat sink 8822T13 in half and install each half on LH and RH sides of Regulator B of new fuse box using thermal adhesive 7661A11 as shown below:



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- 6) Note: Allow adhesive to cure for 24 hours before re-installing in aircraft.
- 7) Re-install fuse box using retained hardware. Lock and seal nuts onto stud using Loctite 243 per specification.
- 8) Re-connect electrical connections per figure on step 2.
- 9) Re-install removed baggage panel from the aircraft per the Maintenance Manual Chapter 3.4.1.
- 10) If regulator B was replaced, ensure that engine is running with no faults to verify that regulator was installed correctly.

MAKE THE FOLLOWING LOGBOOK ENTRY:

“Service Bulletin SB-070716 Rev D has been complied with and reported to ICON Aircraft Owner Support”.

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify ICON Aircraft, Owners Center at:

ICON Aircraft
2141 ICON Way
Vacaville, CA 95688
(855) FLY-ICON or (707) 564-4000
ownersupport@iconaircraft.com

Please include the aircraft registration number, serial number, your name, and if known the contact information of the new owner/operator.