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SERVICE LETTER 163
REVISION B
PAGE 1

SERVICE LETTER NUMBER 163 8750 TERMINAL STRIP CORROSION

By: BGLASS	Aircraft Makes/Model(s): Cessna 208, 208B	Float Model(s): 8750A	Note(s): Mandatory Compliance Service Letter P/N 1008656 ECO 24236
Approved: JSORTOR			
Date: 10/11/2016			
Rev: B			

FAA approval has been obtained for technical data in this publication that affects STC or TSO design compliance

EFFECTIVITY: This service letter applies to: Wipaire 8750 Amphibian floats on the Cessna Model 208/208B Caravan STC STCSA1311GL S/N: 87129 and prior

COMPLIANCE: Compliance with this service letter is mandatory.

BACKGROUND: Corrosion is being found behind the terminal strip that is located in the float which has been found to be associated with gear indication errors.

COMPLIANCE METHOD: Perform tasks in according to the Work Instruction of this service letter. If revision A of this service letter has already been conformed to, proceed to Section 2.

APPROXIMATE SHOP HOURS:

If revision A of this service letter has already been complied with, Section 2 modifications will take approximately 15 minutes per float.

If revision A or later of this service letter have not yet been complied with:

- Stage 1: Defined as no corrosion present but precautionary measures will be taken: 30 minutes per float.
- Stage 2: Defined as mild corrosion but still meets the corrosion limits as defined in SERVICE MANUAL and INSTRUCTIONS FOR CONTINUED AIRWORTHINESS for the WIPAIRE MODEL 8750 AMPHIBIOUS/SEAPLANE FLOAT ON THE CESSNA MODEL 208/208B CARAVAN Wipaire document number 1005723 -and- Structural Repair Manual for Wipline Aluminum Floats Wipaire document number 1008274; mild repair will be needed to prevent further corrosion: 1.5 hours per float.
- Stage 3: Defined as corrosion present that exceeds the limits as defined in SERVICE MANUAL and INSTRUCTIONS FOR CONTINUED AIRWORTHINESS for the WIPAIRE MODEL 8750 AMPHIBIOUS/SEAPLANE FLOAT ON THE CESSNA MODEL 208/208B CARAVAN Wipaire document number 1005723 -and- Structural Repair Manual for Wipline Aluminum Floats Wipaire document number 1008274; patch repair will need to be performed: 6 hours per float.

WARRANTY INFORMATION: Parts and labor not included for this modification.

TECHNICAL DATA:

Copies of this service letter, associated service kit if applicable, float service manual, and float parts manual are available at www.wipaire.com.

For basic float model maintenance information, see applicable Wipaire service manual at www.wipaire.com.

For basic float model parts information, see applicable Wipaire parts manual at www.wipaire.com.



Reference the following documents for instruction pertaining to inspection and repair when completing the following tasks:

- AC43.13-1B or later FAA approved revision guidelines
- Structural Repair Manual for Wipline Aluminum Floats Wipaire part number 1008274

SECTION 1 WORK INSTRUCTION

1. Prepare floats for inspection.
2. Open aft baggage compartment hatch and locate terminal strip.
3. Remove terminal strip and inspect bulkhead that terminal strip was mounted to.
4. Depending on outcome of inspection, make repairs as instructed below.

Stage 1 - Defined as no corrosion present but precautionary measures will be taken

1. Apply Dow Corning DC4 Electrical Insulating Compound or equivalent to the side of the terminal mounting strip that contacts the bulkhead.
2. Re-install terminal strip, replacing the 2 existing screws on each terminal strip with (2) LP526-632R12 screws, to bulkhead using (1) nylon washer (McMaster-Carr P/N 90295A400) or equivalent on each screw (2 total washers), allowing for space between the bulkhead and the terminal strip.

Stage 2 - Defined as mild corrosion but still meets the corrosion limits as defined in Wipaire document numbers 1005723 and 1008274; mild repair will be needed to prevent further corrosion

1. Sand corroded surface so no corroded material is present.
2. Prime sanded area per Mil Spec MIL-PFR-23377 Type 1, class C or equivalent.
3. Apply Dow Corning DC4 Electrical Insulating Compound or equivalent to the side of the terminal mounting strip that contacts the bulkhead.
4. Re-install terminal strip, replacing the 2 existing screws on each terminal strip with (2) LP526-632R12 screws, to bulkhead using (1) nylon washer (McMaster-Carr P/N 90295A400) or equivalent on each screw (2 total washers), allowing for space between the bulkhead and the terminal strip.



Stage 3 - Defined as corrosion present that exceeds the limits as defined in Wipaire document numbers 1005723 and 1008274; patch repair will need to be performed

1. Remove all material affected by corrosion.
2. Prime area per Mil Spec MIL-PFR-23377 Type 1, class C or equivalent.
3. Remove 24 screws from access panel to gain access to the aft side of the baggage compartment bulkhead.
4. Cut adequate size doubler to fit repaired location per Structural Repair Manual for Wipline Aluminum Wipaire document number 1008274 -and- AC43.13-1B or later FAA approved revision guidelines.
5. Prepare doubler by priming per step 2 of this instruction and paint/seal prior to installation.
6. Install doubler on the aft side of the baggage compartment bulkhead, following rivet spacing procedures per AC43.13-1B.
7. Reinstall the access panel.
8. Re-drill .250" terminal strip mounting holes if they were removed as part of corroded material.
 - Mounting holes must both be on the same surface so terminal strip is mounted flush. One hole cannot be on the new doubler piece and the other on the original skin.
9. Insert (2) MS27130A7 rivnuts into mounting holes drilled above if applicable.

NOTE: Use MS21044N06 lock nut instead of rivnuts if a rivnut crimping tool is not accessible.

10. Apply Dow Corning DC4 Electrical Insulating Compound or equivalent to the side of the terminal strip that contacts the bulkhead.
11. Re-install terminal strip, replacing the 2 existing screws on each terminal strip with (2) LP526-632R12 screws, to bulkhead using (1) nylon washer (McMaster-Carr P/N 90295A400) or equivalent on each screw (2 total washers), allowing for space between the bulkhead and the terminal strip.

SECTION 2 WORK INSTRUCTION

1. Prepare floats for inspection.
2. Open aft baggage compartment hatch on each float and locate terminal strip.
3. Replace 2 existing screws on each terminal strip with (2) LP526-632R12 screws, using (2) MS27130A7 rivnuts if needed to secure LP526-632R12 screws.

NOTE: Use MS21044N06 lock nut instead of rivnuts if a rivnut crimping tool is not accessible.

NOTES:

1. Upon completion of inspection, enter information in Aircraft Logbook for completion of Wipaire Service Letter 163.
2. Once service letter is accomplished, please visit www.wipaire.com and update your aircraft service letter/kit record using the link found on the Customer Support dropdown menu under "Update Service Letter & Kit Compliance Status"