Title

Standard Practices - Structures - Drain Hole Inspection for Model 208 Airplanes Equipped with a TKS Fairing

Effectivity

The airplanes that follow that are equipped with a TKS fairing:

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>208</td>
<td>20800416 thru 20800567</td>
</tr>
</tbody>
</table>

Reason

Cessna has received reports of an accumulation of water inside the fuselage.

Description

This service letter provides instructions to do an inspection for 22 drain holes in the fuselage. If they are not found, drain holes are drilled. If they are found but plug buttons have been installed, the plug buttons are removed.

Compliance

Mandatory: Shall be accomplished at the next scheduled airframe hourly type inspection or 12-month (annual type) inspection not to exceed 400 hours of operation or 12 months, whichever occurs first.

Consumable Material

The material that follows may be necessary:

<table>
<thead>
<tr>
<th>Name</th>
<th>Number</th>
<th>Manufacturer</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alodine</td>
<td>U074093</td>
<td>Cessna Aircraft Company</td>
<td>To apply to bare metal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cessna Service Parts and Programs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5800 East Pawnee, PO Box 1521</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wichita, KS 67218</td>
<td></td>
</tr>
</tbody>
</table>

Weight and Balance Information

Negligible

Accomplishment Instructions

1. Prepare the airplane for maintenance.
   A. Electrically ground the airplane.
   B. Make sure that all switches are in the OFF/NORM position.
   C. Disconnect electrical power from the airplane.
      (1) Disconnect external electrical power.
      (2) Disconnect the airplane battery.
   D. Attach maintenance warning tags to the battery and external power receptacle that have "DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS" written on them.
   E. Remove the aft fairing pod. (Refer to the Model 208 Maintenance Manual, Chapter 30, TKS Anti-Ice System - Maintenance Practices.)
2. On the belly of the airplane, do an inspection for the 22 drain holes specified in Figure 1:
   A. If all 22 drain holes are drilled, and there are no plug buttons installed in them, go to Step 7.
   B. If one or more drain holes have a plug button installed in them, go to Step 3.
   C. If one or more drain holes are not installed, go to Step 3.

3. Remove the applicable access plates and access panels for access as necessary to drill the hole(s) and/or to remove the plug button(s). (Refer to the Model 208 Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation and Chapter 53, Floorboards and Access Plates - Maintenance Practices.)

4. If one or more drain holes have a plug button installed in them, do as follows at each plug button:
   A. Remove and discard each plug button.
   B. Clean the drain hole and the area adjacent to the drain hole. (Refer to the Model 208 Maintenance Manual, Chapter 20, General Solvents/Cleaners - Maintenance Practices.)
   C. Remove sealant from the inner and the outer surface of the belly of the airplane in the area of the drain hole where you removed the plug button.

5. If one or more drain holes are not installed, do as follows at each position:
   CAUTION: Make sure that you do no damage to installed system components when you drill the holes. All dimensions for hole location are approximate. You may need to adjust them slightly to avoid damage to components.
   A. As you make marks for and drill the holes, all hole locations shown in Figure 1 are approximate and may be changed slightly and as necessary to make sure that you do as follows:
      • do no damage to installed system components
      • do not drill through bulkhead or stringer flanges
      • drill holes through the airplane skin and only through the skin
      • if sound dampening material is installed near the hole location, remove approximately one inch of sound dampening material all around and adjacent to the drain hole.
   B. Make marks for and drill a 0.25-inch diameter hole.
      NOTE: In some locations, Figure 1 shows dimensions from the edge of the ribs and/or from the centerline of the rivet holes to help you find the correct hole locations.
   C. Deburr sharp edges and apply Alodine to bare metal. (Refer to the Model 208 Maintenance Manual, Chapter 20, Interior and Exterior Finish - Cleaning/Painting.)
   D. Do a touch-up to the paint as necessary. (Refer to the Model 208 Maintenance Manual, Chapter 20, Interior and Exterior Finish - Cleaning/Painting.)

6. Install applicable access plates and access panels that you removed for access to remove the plug buttons or to drill the holes. (Refer to the Model 208 Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation and Chapter 53, Floorboards and Access Plates - Maintenance Practices.)

7. Install the aft fairing pod. (Refer to the Model 208 Maintenance Manual, Chapter 30, TKS Anti-Ice System - Maintenance Practices.)

8. Remove maintenance warning tags and connect the airplane battery.

9. Make an entry in the airplane logbook that states compliance and method of compliance with this service letter.
NOTE 1: All dimensions are shown in inches.

NOTE 2: All hole location dimensions are approximate. You may adjust hole location slightly to avoid damage to components, stringers, and flanges.

NOTE 3: In some areas, dimensions from the edge of the ribs and/or from the centerline of the rivet holes are shown to help you find the correct hole locations.

Figure 1. Drain Hole Inspection (Sheet 1)
Figure 1. Drain Hole Inspection (Sheet 2)