Single Engine

Service Bulletin

July 23, 2001

SB01-28-03

TITLE

FUEL SHUT-OFF VALVE CONTROL CABLE INSPECTION

EFFECTIVITY

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 thru 17281059</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 thru 172S8874</td>
</tr>
</tbody>
</table>

REASON

It has been determined that some airplanes may have had a thicker than specified washer installed on the fuel shut-off valve control cable attachment clamp.

DESCRIPTION

The fuel shut-off valve control cable installation shall be inspected to ensure that a washer of the proper thickness is installed and that the control cable operates smoothly. Non-compliance with this service bulletin may result in binding of the control cable during operation of the fuel shut-off valve. This condition, if not corrected, could potentially cause failure of the control cable and subsequent loss of the ability to close or open the fuel shut-off valve.

COMPLIANCE

Mandatory; shall be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.
MANPOWER

1.8 man-hours per airplane for inspection of the fuel shut-off valve control cable.

If required, 0.2 man-hour per airplane to replace the washer on the fuel shut-off valve control arm cable clamp.

If required, 1.7 man-hours per airplane to replace the fuel shut-off valve control cable.

REFERENCES


NOTE: Ensure all publications used are complete and current.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for continued airworthiness, and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part (FAR) 43.13.

OTHER PUBLICATIONS AFFECTED

Model 172R and Model 172S Illustrated Parts Catalog

NOTE: Ensure all publications used are complete and current.

MATERIAL PRICE AND AVAILABILITY

The following are available from Cessna Parts Distribution through an appropriate Cessna Service Station for the suggested list price shown.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty/Airplane</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS21044N3</td>
<td>Nut, Self Locking</td>
<td>1 (if required)</td>
<td>$0.17 (PS) ea.</td>
</tr>
<tr>
<td>NAS1149F0316P</td>
<td>Washer</td>
<td>1 (if required)</td>
<td>$0.03 (PS) ea.</td>
</tr>
<tr>
<td>S1533-9</td>
<td>Fuel Shut-off Valve Control</td>
<td>1 (if required)</td>
<td>$92.20 (SE) ea.</td>
</tr>
</tbody>
</table>

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CREDIT INFORMATION

A labor allowance credit of 1.8 man-hours per airplane will be provided to inspect the fuel shut-off valve control cable.

If required, applicable parts credit and a labor allowance credit of 0.2 man-hour per airplane will be provided to replace the washer on the fuel shut-off valve control arm cable clamp.

If required, applicable parts credit and a labor allowance credit of 1.7 man-hours per airplane will be provided to replace the fuel shut-off valve control cable.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station before the dates shown below. The removed control cable must be returned with the Warranty Claim.

Domestic . . . . . . . . . . . . . . . July 23, 2002
International . . . . . . . . . . . . . July 23, 2002

SB01-28-03
July 23, 2001
ACCOMPLISHMENT INSTRUCTIONS

Weight And Balance Information

MODEL ......................... 172R, 172S
WEIGHT CHANGE ................. Negligible

Material Information

The following parts may be required:

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>OLD P/N</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS21044N3</td>
<td>1 (if required)</td>
<td>Nut</td>
<td>Same</td>
<td>Discard</td>
</tr>
<tr>
<td>NAS1149F0316P</td>
<td>1 (if required)</td>
<td>Washer</td>
<td>Existing</td>
<td>Discard</td>
</tr>
<tr>
<td>S1533-9</td>
<td>1 (if required)</td>
<td>Fuel Shut-off Valve Control assembly (cable)</td>
<td>Same</td>
<td>Discard</td>
</tr>
</tbody>
</table>

The following material may be required:

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DESCRIPTION</th>
<th>USE</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>U000851</td>
<td>Use a dry film lubricant such as Molykote 321 (or equivalent)</td>
<td>Lubricate Clamp</td>
<td>Obtain locally</td>
</tr>
</tbody>
</table>

Instructions

1. Electrically ground the airplane and turn all switches to the "OFF" position. If external power is connected to the airplane, disconnect external power from receptacle.

2. Remove the engine cowling(s) and disconnect the battery. (Refer to the Model 172 Series 1996 And On Maintenance Manual, Chapter 24, Electrical Power.)

3. Attach maintenance warning tags to the battery and external power receptacle stating: **DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS.**

4. Remove the copilot seat to gain access to the fuel shut-off valve (cable) control assembly. (Refer to the Model 172 Series 1996 And On Maintenance Manual, Chapter 25, Front Seats and Rails.)

5. Pull the footwell carpet away from the copilot's rudder pedal shields, exposing screws attaching the shield. Remove and retain the screws and the copilot's rudder pedal shield.

6. (Refer to Figure 1, Sheet 1, Detail A, and Figure 1, Sheet 2, Detail B and View B-B.) Locate and inspect where the fuel shut-off cable is clamped to the fuel valve control arm:

   **NOTE:** The clamp / shut-off cable must swivel freely during operation. Some installations may have a washer thicker than the NAS1149F0316P Washer specified causing the clamp / fuel shut-off cable to not swivel freely.

   A. (Refer to Figure 1, Sheet 1, Detail A.) Operate the fuel shut off control cable knob inspecting for smooth swivel of the fuel valve control arm clamp / fuel shut-off cable connection.

   B. If the fuel shut-off cable / control arm clamp swivels freely proceed to Step 7.
C. (Refer to Figure 1, Sheet 2, Detail B and View B-B.) If the fuel shut-off cable / fuel valve control arm clamp connection does not swivel freely:

1. Remove and discard the existing nut and the existing washer (located against the fuel valve control arm) from the S2323-7 Clamp.

2. Reassemble the S2323-7 Clamp assembly by installing:
   (a) A new NAS1149F0316P Washer (located against the fuel valve control arm).
   (b) The retained NAS1149F0363 Washer.
   (c) A new MS21044N3 Locknut tightening to a minimum of 15 inch-pounds to secure control wire.
   (d) Lubricate swivel clamp using a dry film lubricant such as Molykote 321.

3. Operate the fuel shut off control cable knob inspecting for a smooth free swivel of the fuel valve control arm clamp / fuel shut-off cable connection.

   NOTE: If the S1533-9 Fuel Shut-Off Valve (cable) Control Assembly is binding or kinked adjust until smooth operation is achieved. If adjusting does not produce smooth operation, then replace the S1533-9 Fuel Shut-Off Valve (cable) Control Assembly and adjust until smooth operation is achieved.

4. Continue to adjust this connection as required until smooth swivel of the fuel valve control arm clamp / fuel shut-off cable connection is achieved.

7. Reinstall the copilot’s rudder pedal shield using the retained screws, and reposition the footwell carpet over the copilot’s rudder pedal shield.

8. Reinstall the copilot seat. (Refer to the Model 172 Series 1996 And On Maintenance Manual, Chapter 25, Front Seats and Rails.)

9. Remove maintenance warning tags from battery and external power receptacle.

10. Reconnect the battery and reinstall the engine cowling(s) or battery access panel as required. (Refer to the appropriate model Maintenance Manual, Chapter 24, Electrical Power.)

11. Make an entry in the airplane logbook stating compliance and method of compliance with this service bulletin.
Figure 1. Fuel Shutoff Valve Cable Inspection (Sheet 1)
Figure 1. Fuel Shutoff Valve Cable Inspection (Sheet 2)
OWNER NOTIFICATION

On July 23, 2001 the following Owner Advisory message will be sent to applicable owners of record in SB01-28-03A.

Dear Cessna Owner:

This Owner Advisory is to inform you that your airplane may have had a thicker than specified washer installed on the fuel shut-off valve control cable attachment clamp. Service Bulletin SB01-28-03 has been issued requiring an inspection of the fuel shut-off valve control cable installation.

The fuel shut-off valve control cable installation shall be inspected to ensure that a washer of the proper thickness is installed and that the control cable operates smoothly. Non-compliance with Service Bulletin SB01-28-03 may result in binding of the control cable during operation of the fuel shut-off valve. This condition, if not corrected could potentially cause failure of the control cable and subsequent loss of the ability to close or open the fuel shut-off valve.

Compliance is mandatory, shall be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer’s Service/Maintenance Manual or Instructions for continued airworthiness, and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part (FAR) 43.13.

A labor allowance credit of 1.8 man-hours per airplane will be provided to inspect the fuel shut-off valve control cable. If required, applicable parts credit and a labor allowance credit of 0.2 man-hour per airplane will be provided to replace the washer on the fuel shut-off valve control arm cable clamp as described in Service Bulletin SB01-28-03. If required, applicable parts credit and a labor allowance credit of 1.7 man-hours per airplane will be provided to replace the fuel shut-off valve control cable.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station before the dates shown below.

<table>
<thead>
<tr>
<th>Region</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>July 23, 2002</td>
</tr>
<tr>
<td>International</td>
<td>July 23, 2002</td>
</tr>
</tbody>
</table>

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB01-28-03 accomplished on your airplane.

* * * * *