Single Engine

Service Bulletin

December 22, 2003

SB03-27-02

TITLE

FLAP CONTROL BRACKET ATTACH BOLTS REPLACEMENT

EFFECTIVITY

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 thru 17281169</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 thru 172S9517</td>
</tr>
<tr>
<td>182S</td>
<td>18280001 thru 18280944</td>
</tr>
<tr>
<td>182T</td>
<td>18280945 thru 18281268</td>
</tr>
<tr>
<td>T182T</td>
<td>T18208001 thru T18208222</td>
</tr>
<tr>
<td>206H</td>
<td>20608001 thru 20608202</td>
</tr>
<tr>
<td>T206H</td>
<td>T20608001 thru T20608424</td>
</tr>
</tbody>
</table>

REASON

It has been determined that some airplanes may have been delivered with flap control bracket attach bolts that may have been over torqued.

DESCRIPTION

The flap control bracket attach bolts shall be removed and replaced as specified in this Service Bulletin. Non-compliance with this Service Bulletin may result in failure of an over torqued bolt which could cause partial or complete loss of flap control functionality and/or damage to the flap actuation system.

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

For model 172 and 182: 1.0 man-hour per airplane
For model 206: 1.5 man-hours per airplane

REFERENCES


NOTE: Make sure 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 43.13.

OTHER PUBLICATIONS AFFECTED

Model 172R and Model 172S Illustrated Parts Catalog
Model 182S/182T/T182T Illustrated Parts Catalog
Model 206H & Model T206H Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current.

MATERIAL PRICE AND AVAILABILITY

The parts below 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>AN3-3A</td>
<td>Bolt</td>
<td>4 *</td>
<td>$0.24 (PS) ea MQ 100</td>
</tr>
<tr>
<td>AN3-4A</td>
<td>Bolt</td>
<td>4 or 8 **</td>
<td>$0.21 (PS) ea MQ 100</td>
</tr>
<tr>
<td>MS21044N3</td>
<td>Nut</td>
<td>2 *</td>
<td>$0.17 (PS) ea MQ 100</td>
</tr>
<tr>
<td>MS21044N3</td>
<td>Nut</td>
<td>2 or 4 **</td>
<td>$0.17 (PS) ea MQ 100</td>
</tr>
</tbody>
</table>

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

* Applicable to Model 172R and 172S airplanes

** 4 bolts and 2 nuts for Model 182S, 182T, T182T and 8 bolts and 4 nuts for Model 206H and T206H airplanes.
CREDIT INFORMATION

For model 172 and 182 airplanes, a miscellaneous parts credit of $1.50 and a labor allowance credit of 1.0 man-hour per airplane will be provided to remove and replace the flap control bracket attach bolts. For Model 206 airplanes, a miscellaneous parts credit of $2.25 and a labor allowance credit of 1.5 man-hours per airplane will be provided to remove and replace the flap control bracket attach bolts.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station within 30 calendar days of Service Bulletin compliance before the credit expiration dates shown below.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>December 22, 2004</td>
</tr>
<tr>
<td>International</td>
<td>December 22, 2004</td>
</tr>
</tbody>
</table>

ACCOMPLISHMENT INSTRUCTIONS

Weight And Balance Information

<table>
<thead>
<tr>
<th>MODEL</th>
<th>172R/172S</th>
<th>182S/182T/T182T</th>
<th>206H/T206H</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT CHANGE</td>
<td>Negligible</td>
<td>Negligible</td>
<td>Negligible</td>
</tr>
</tbody>
</table>

Material Information

The parts below will be necessary:

<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>AN3-3A</td>
<td>4</td>
<td>Bolt (for Model 172 Airplanes)</td>
<td>AN3-3A</td>
<td>Discard</td>
</tr>
<tr>
<td>AN3-4A</td>
<td>4</td>
<td>Bolt (for Model 182 Airplanes)</td>
<td>AN3-4A</td>
<td>Discard</td>
</tr>
<tr>
<td>AN3-4A</td>
<td>8</td>
<td>Bolt (for Model 206 Airplanes)</td>
<td>AN3-4A</td>
<td>Discard</td>
</tr>
<tr>
<td>MS21044N3</td>
<td>2</td>
<td>Nut (for Model 172 Airplanes)</td>
<td>MS21044N3</td>
<td>Discard</td>
</tr>
<tr>
<td>MS21044N3</td>
<td>2</td>
<td>Nut (for Model 182 Airplanes)</td>
<td>MS21044N3</td>
<td>Discard</td>
</tr>
<tr>
<td>MS21044N3</td>
<td>4</td>
<td>Nut (for Model 206 Airplanes)</td>
<td>MS21044N3</td>
<td>Discard</td>
</tr>
</tbody>
</table>
Instructions

1. Put the master switch to the "ON" position.
2. Lower the flaps with the flap selector switch to 20° position.
3. Put the Master Switch to the "OFF" position.
4. 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 and disconnect the airplane battery. (Refer to the applicable airplane Maintenance Manual, Chapter 24, Electrical Power.)
5. Attach maintenance warning tags to the battery and external power receptacle that have "DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS" written on them.
6. (Refer to Figure 1, Detail B.) Replace bolts in each flap control bracket.

**NOTE:** There is one 0523918 Flap Control Bracket on each 172R/172S or 182T/T182T flap, and there is one 1220105-1 and one 1220105-2 Flap Control Bracket on each 206H/T206H flap.

A. Disconnect the flap push-pull control rod from the flap control bracket and gently allow the flap to fully extend.

B. Remove the two bolts from each flap control bracket.

**NOTE:** The Model 172 uses AN3-3A Bolts to attach the flap control brackets to the flaps, and the Model 182 and Model 206 both use AN3-4A Bolts to attach the flap control brackets to the flaps.

C. Install new AN3-4A or AN3-3A Bolts as necessary in each flap control bracket and torque each bolt to 35 inch-pounds. (Refer to the applicable Model Maintenance Manual, Chapter 20, Torque Data - Maintenance Practices.)

D. Connect the flap push-pull control rod to the flap control bracket with new MS21044N3 Nuts and torque to 35 inch-pounds. (Refer to the applicable Model Maintenance Manual, Chapter 20, Torque Data - Maintenance Practices.)

7. Remove maintenance warning tags from battery and external power receptacle.
8. Reconnect the airplane battery. (Refer to the applicable airplane Maintenance Manual, Chapter 24, Electrical Power.)
9. Put the Master Switch in the "ON" position.
10. Retract the Flaps with the flap selector lever to the "FULL UP" position.
11. Put the Master Switch to the "OFF" position.
12. Make an entry in the airplane logbook that states compliance with this Service Bulletin.
NOTE:

MODEL 172
-ONE 0523918 BRACKET ON EACH FLAP
-TWO AN3-3A BOLTS FOR EACH BRACKET
-ONE MS21044N3 NUT FOR EACH BRACKET

MODEL 182
-ONE 0523918 BRACKET ON EACH FLAP
-TWO AN3-4A BOLTS FOR EACH BRACKET
-ONE MS21044N3 NUT FOR EACH BRACKET

MODEL 206
-TWO 1220105-1 BRACKETS ON EACH FLAP
-TWO AN3-4A BOLTS FOR EACH BRACKET
-ONE MS21044N3 NUT FOR EACH BRACKET

Figure 1. Flap Control Bracket Bolts Replacement (Sheet 1)
OWNED NOTIFICATION

On December 22, 2003 the following Owner Advisory message will be sent to applicable owners of record in SB03-27-02A.

Dear Cessna Owner:

This Owner Advisory is to inform you that it has been determined that some airplanes may have been delivered with flap control bracket attach bolts that may have been over torqued.

The flap control bracket attach bolts shall be removed and replaced as specified in Service Bulletin SB03-27-02. Non-compliance with Service Bulletin SB03-27-02 may result in failure of an over torqued bolt which could cause partial or complete loss of flap control functionality and/or damage to the flap actuation system.

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Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB03-27-02 accomplished on your airplane.

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