TITLE
FLAP AFT ROLLER BEARING INSTALLATION MODIFICATION

EFFECTIVITY

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 and On</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 and On</td>
</tr>
<tr>
<td>182S</td>
<td>18280001 thru 18280944</td>
</tr>
<tr>
<td>182T</td>
<td>18280945 and On</td>
</tr>
<tr>
<td>T182T</td>
<td>T18208001 and On</td>
</tr>
<tr>
<td>206H</td>
<td>20608001 and On</td>
</tr>
<tr>
<td>T206H</td>
<td>T20608001 and On</td>
</tr>
</tbody>
</table>

REASON
Service experience indicates the potential for wearing of the flap supports by the flap aft rollers on airplanes that have the flaps cycled frequently.

DESCRIPTION
To assist in preventing the described condition from occurring, a modification of the flap roller assembly installation is being made available as detailed in this Service Bulletin. The existing aft roller assemblies are replaced with shorter rollers and large area stainless steel washers are added at each end of the rollers.

COMPLIANCE
Optional: may be accomplished if desired.

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

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.
MANPOWER

Approximately 1.1 man-hours to replace the inboard aft flap roller bearings on model 172 and 182 airplanes
Approximately 1.5 man-hours to replace the inboard and outboard aft flap roller bearings on model 206 airplanes

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.

OTHER PUBLICATIONS AFFECTED

Model 172R & 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>MS21044N3</td>
<td>Nut</td>
<td>2</td>
<td>$0.19 (PS) ea MQ 100</td>
</tr>
<tr>
<td>1795</td>
<td>Washer</td>
<td>(See Note 1)</td>
<td>$6.65 (PS) ea</td>
</tr>
<tr>
<td>498</td>
<td>Tube and Bearing Assembly</td>
<td>(See Note 2)</td>
<td>$42.50 (PS) ea</td>
</tr>
<tr>
<td>496-1</td>
<td>Flap Roller Bushing</td>
<td>(See Note 2)</td>
<td>$10.40 (PS) ea</td>
</tr>
<tr>
<td>U197003</td>
<td>MIL-G-23827 Grease (14 oz Cartridge)</td>
<td>(as required)</td>
<td>$26.50 (B) ea</td>
</tr>
</tbody>
</table>

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

NOTE 1: For 172 & 182 airplanes, 4 required, For 206 airplanes, 8 required.

NOTE 2: For 172 & 182 airplanes, 2 required, For 206 airplanes, 4 required.

CREDIT INFORMATION

Not applicable
ACCOMPLISHMENT INSTRUCTIONS

Weight And Balance Information

Negligible

Material Information

The parts below will be necessary for 172 and 182 airplanes.

<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>2</td>
<td>Nut</td>
<td>Same</td>
<td>Discard</td>
</tr>
<tr>
<td>1795</td>
<td>4</td>
<td>Washer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>498</td>
<td>2</td>
<td>Tube and Bearing Assembly</td>
<td>0523920-0</td>
<td>Discard</td>
</tr>
<tr>
<td>496-1</td>
<td>2</td>
<td>Bushing</td>
<td>0523919-0 or S2397-1</td>
<td>Discard</td>
</tr>
</tbody>
</table>

The parts below will be necessary for 206 airplanes.

<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>2</td>
<td>Nut</td>
<td>Same</td>
<td>Discard</td>
</tr>
<tr>
<td>1795</td>
<td>8</td>
<td>Washer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>498</td>
<td>4</td>
<td>Tube and Bearing Assembly</td>
<td>0523920-0</td>
<td>Discard</td>
</tr>
<tr>
<td>496-1</td>
<td>4</td>
<td>Bushing</td>
<td>0523919-0 or S2397-1</td>
<td>Discard</td>
</tr>
</tbody>
</table>

In addition to the above parts, the following material, or equivalent is necessary.

<table>
<thead>
<tr>
<th>NAME</th>
<th>NUMBER</th>
<th>MANUFACTURER</th>
<th>USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grease</td>
<td>MIL-G-23827 (U197003)</td>
<td>Cessna Aircraft Company Cessna Parts Distribution 5800 East Pawnee PO Box 1521 Wichita, KS 67218</td>
<td>To lubricate tube and bearing assemblies.</td>
</tr>
</tbody>
</table>

Instructions

1. Put the master switch in the BATT position and lower flaps with the flap selector switch.
2. Return the BATT portion of the master switch to the OFF position.
3. Prepare the airplane for maintenance.
   A. Make sure that all switches are in the OFF/NORM position.
   B. Disconnect electrical power from the airplane.
      (1) Disconnect the airplane battery.
      (2) Disconnect external electrical power.
   C. Attach maintenance warning tags to the battery and external power receptacle that have "DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS" written on them.
4. (Model 172/182 Series) (Refer to Figure 1, Detail B.) Replace the inboard aft roller assembly.
   A. Remove access plates 510CT, 510DT, 510ET and 510FT from leading edge of flap. (Refer to Maintenance Manual, Chapter 6, Access/Inspection Plates - Description and Operation.)
B. Remove the bolt, nut, roller assembly, washers, and bushing from the inboard flap track. Keep the bolt and the outer washer. Discard the nut, inner washers, roller assembly, and bushing.

C. Lubricate the 498 Tube and Bearing Assembly with MIL-G-23827 (U197003) Grease.

D. Install the 498 Tube and Bearing Assembly, the 496-1 Bushing and the 1795 Washers with the kept bolt, washer and one new MS21044N3 Nut at the inboard location.

E. Install access plates 510CT, 510DT, 510ET and 510FT on the leading edge of flap. (Refer to the Maintenance Manual, Chapter 6, Access/Inspection Plates - Description and Operation.)

F. Do Steps 4A through 4E on the opposite flap.

G. Go to Step 6.

5. (Model 206 Series) (Refer to Figure 2, Detail B and Detail C.) Replace the inboard aft and outboard aft roller assemblies.

A. Remove the access plates from the leading edge of the flap.

B. Remove the bolts, nut (inboard only), washers, roller assemblies and bushings from the inboard and outboard flap tracks. Keep the bolts and outer washer. Discard the nuts, inner washers, roller assemblies and bushings.

NOTE: The outboard location has a nutplate installed instead of a nut.

C. Lubricate the 498 Tube and Bearing Assembly with MIL-G-23827 (U197003) Grease.

D. Install the 498 Tube and Bearing Assembly, the 496-1 Bushing and the 1795 Washers with the kept bolts, outer washer and a new MS21044N3 Nut (inboard only) at the inboard and outboard locations.

E. Install the access plates on the leading edge of the flap.

F. Do Steps 5A through 5E on the opposite flap.

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

7. Do an operational check of the flaps.

A. Put the master switch in the BATT position.

B. Raise and lower the flaps with the flap selector switch, checking for smooth operation throughout the entire flap travel to make sure it is free of binding or undue track/roller impediment.

C. Return BATT portion of the master switch to the OFF position.

8. Make an entry in the airplane logbook that states compliance with this Service Bulletin.
Figure 1. 172/182 Flap Roller Replacement (Sheet 1)
Figure 2. 206 Flap Roller Replacement (Sheet 1)
OWNER NOTIFICATION

On April 24, 2006 the following message will be sent to applicable owners of record in SB06-27-01A.

Dear Cessna Owner:

This Owner Advisory is to inform you that service experience indicates the potential for wearing of the flap supports by the flap aft rollers on airplanes that have the flaps cycled frequently.

To assist in preventing the described condition from occurring, a modification of the flap roller assembly installation is being made available as detailed in Service Bulletin SB06-27-01. The existing aft roller assemblies are replaced with shorter rollers and large area stainless steel washers are added at each end of the rollers.

Compliance is optional: may be accomplished if desired.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

Please contact a Cessna Single Engine Service Station for detailed information and if desired, arrange to have Cessna Service Bulletin SB06-27-01 accomplished on your airplane.
Dear Cessna Owner:

This Owner Advisory is to inform you that service experience indicates the potential for wearing of the flap supports by the flap aft rollers on airplanes that have the flaps cycled frequently.

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