THIS BULLETIN IS FAA APPROVED FOR ENGINEERING DESIGN

SERVICE BULLETIN M20-302
Date: October 25, 2007

SUBJECT: Lubricating the Stabilizer Control Trim Wheel bushing.

MODELS/ SN

M20TN: 31-0053, 31-0054

AFFECTED:

TIME OF COMPLIANCE: MANDATORY - Before Next Flight

INTRODUCTION: There has been reported instances, discovered in the Mooney factory, of the Trim wheel binding and/or locking-up due to insufficient lubricant between Trim Wheel shaft and bushing. Results could endanger the pilot and passenger(s) if Aircraft is not complied in accordance with this service bulletin.

INSTRUCTIONS:

Read entire procedures before beginning work.

1-1. Turn master switch – OFF.
1-2. Remove center console and trim wheel cover mounting screws from forward and aft of center console. Lifting of carpet will be required to gain access to mounting screws. (ref Figure M20-302-1)
1-3. Remove roll pin from sprocket/chain and slide trim wheel assembly outward. (ref Figure M20-302-2)
1-4. Inspect inside of bushing for any debris, apply AEROSHELL #7 grease to trim wheel shaft and between bushing/sprocket assembly. Install trim wheel shaft assy into bushing. (ref Figure M20-302-2)
1-5. Manually spin trim wheel making sure free movement and no binding occurs. Install sprocket/chain assembly insert roll pin P/N P19-125-1125ZM and stake into place.
1-6. Install center console and cover with removed hardware.
1-7. Apply 3M adhesive to carpet area pulled for removal of mounting screws. (ref Figure M20-302-1)
1-8. Before flight: Ensure pitch trim runs smoothly through both manual and electric trim functions.
1-9. Fill out compliance card and send by MAIL or FAX to Mooney Airplane Company as indicated on the attached Compliance Card (ref Figure M20-302-3).
1-10. Complete log book entry for procedures completed.
1-11. Return aircraft to service.
1-12. Procedure complete.

WARRANTY: Mooney Airplane Company, Inc. will warrant labor 1 hour when done in accordance with the procedures of this Service Bulletin for aircraft currently covered under the Mooney Airplane Company, Inc. factory warranty program.

REFERENCE DATA: MAC Service & Maintenance Manuals (applicable A/C)

PARTS LIST:

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>P19-125-1125ZM</td>
<td>Roll Pin</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>FORM 01-0007</td>
<td>Compliance Card</td>
<td>1</td>
</tr>
</tbody>
</table>
Figure SB M20-302-1 - Center Console Removal

GAIN ACCESS TO SCREWS, LIFT CARPET FROM CONSOLE

APPLY 3M ADHESIVE TO RE-INSTALL CARPET

REMOVE CENTER CONSOLE MOUNTING SCREWS

TRIM WHEEL

REMOVE CENTER CONSOLE MOUNTING SCREWS
Figure SB M20-302-2 - Trim Wheel Lubrication
SERVICE (BULLETIN) (INSTRUCTION) NO.________________ HAS BEEN COMPLIED
WITH ON AIRCRAFT MODEL ______________ SERIAL NUMBER ______________

Tach. Time: ___________________________ N-Number ________________ (Reg. No.)
Owner: ________________________________ Date of
______________________________ Compliance: ______________
Complied
By: _________________________________

Inspection Report: _______________________

Form 07-0001

MOONEY AIRPLANE COMPANY
ATT’N: TECHNICAL SUPPORT
165 Al Mooney Road, North
Kerrville, Texas 78028

SEND TO:
Mooney Airplane Company
165 Al Mooney Road North
Kerrville, TX 78028
OR FAX: (830) 896-3133

Figure SB M20-302-3 - Compliance Card