THIS BULLETIN IS FAA APPROVED FOR ENGINEERING DESIGN

SERVICE BULLETIN M20–294
Date: January 18, 2007

SUBJECT: Inspection and replacement of retaining nut fastener on the engine throttle arm for TCM engines.

MODELS/ SN AFFECTED:
- M20R – All aircraft
- M20S – All aircraft
- M20TN – All Aircraft

TIME OF COMPLIANCE: Next 10 hour of Flight Time

INTRODUCTION: There has been one reported instance, discovered in the field, of the throttle body control arm being loose. This will require a (1) time inspection and replacement of the throttle body retaining nut fastener.

INSTRUCTIONS:

1. Turn master switch - OFF.
2. Remove top cowling per instructions provided in Chapter 71-10-00 of applicable MAC aircraft Service & Maintenance Manual.
3. Remove and clean any torque seal from threads and retaining nut fastener on the engine throttle arm.

NOTE: If the throttle body arm is removed, adjustments will be required per instructions provided in Chapters 71-00-52 and 76-00-01 of applicable MAC aircraft Service & Maintenance Manual.

4. Remove retaining nut from throttle body arm and Inspect mating surface for any unusual wear. Install new retaining nut p/n MS21042-5 included in your SB Kit [P/N SB M20-294-001] and torque to 100-120 IN-LB (see Figure M20-294-1).
5. Verify throttle linkage adjustment per instructions provided in Chapters 71-00-52 and 76-10-00 of applicable MAC aircraft Service & Maintenance Manual.
6. Apply a bead of torque seal to threads and fastener.
7. Re-install top cowling (and bottom cowling if removed) per instructions provided in Chapter 71-10-00 of applicable MAC aircraft Service & Maintenance Manual.
8. Complete the Inspection Card (positive or negative) p/n Form 07-0001 included in your SB Kit [P/N SB M20-294-001] and return it to Mooney Airplane Company.
10. Return aircraft to service.
11. Procedure complete.

WARRANTY: Mooney Airplane Company, Inc. will warrant labor (approximately 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:

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<td>1.</td>
<td>MS21042-5</td>
<td>Locknut</td>
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OVATION (M20R) & EAGLE (M20S) - THROTTLE ASSEMBLY

Remove and Install
New Nut P/N MS21042-5
Torque to 100-120 IN-LB

ACCLAIM (M20TN) - THROTTLE ASSEMBLY

Remove and Install
New Nut P/N MS21042-5
Torque to 100-120 IN-LB

Figure SB M20-294-1