

SUBJECT: Replacement of Bolts – Main Gear Retract Truss Bracket

MODELS AFFECTED: M20C S/N 2807 thru 3466
M20E S/N 470 thru 1270

TIME OF COMPLIANCE: Recommended as soon as practical and not later than the next 100 hour inspection.

INTRODUCTION:

The bolts attaching the main gear retract truss bracket (P/N 510046 or 510013) have been found loose. To preclude the possibility of these bolts backing out and jamming the retracting mechanism, the change to drilled-head bolts and safety wire is required. The existing AN6-A or AN5-A bolts may be drilled or replaced with equivalent-length AN6H-A or AN5H-A bolts.

In some instances, a modified bolt with a milled head has been installed for clearance reasons. This milled head bolt must be drilled. Do not replace the modified bolts with AN6H-A bolts.

INSTRUCTIONS:

(See attached Figure)

1. Place the aircraft on jacks and check the 2 bolts attaching the main gear retract truss in each wing. If any of the bolts are more than one thread loose, they must be replaced with new bolts. Check the preload in the retraction system per instructions in accordance with the Service and Maintenance Manual (1966).
2. Remove the bolts attaching the truss bracket on both sides.
3. Replace these bolts with drilled-head bolts.
 - a. If these bolts have modified heads, then they must be drilled
 - b. If these are unmodified bolts then they may be drilled or replaced with drilled-head bolts. Use a #50 drill. Apply zinc chromate after drilling.
4. Safety the two bolts in each wing using AN995-C32 safety wire or equivalent.
5. Check the rigging of the retraction system in accordance with the Service and Maintenance Manual (1966).
6. Lower the aircraft, remove jacks, and return the aircraft to service.

COMPLIANCE:

Upon compliance with this Service Bulletin, fill out the enclosed card and mail it to Mooney Aircraft, Inc. for our files.

