



SUBJECT: LOWER EMPENNAGE HINGE ASSEMBLY MODIFICATION

MODELS & S/N

AFFECTED:

M20K S/N 25-0001 thru 25-0086,
25-0091 and 25-0094

TIME OF
COMPLIANCE:

MANDATORY within next 50 hours of operation or
next inspection period, whichever occurs first.

INTRODUCTION:

The possibility exists that some of the aircraft serial numbers listed above cannot attain the full 7° nose-up trim rigging due to tolerance build up during manufacturing of the 480009 hinge assembly. Some aircraft may be rigged to the minimum of the specifications of 6 1/2°.

In order to provide the full capability of 7° nose up trim as defined in the rigging specifications, a longer hinge half should be assembled into the 480009-501 assembly. The procedure for this modification is as follows:

INSTRUCTIONS:

1. Set empennage trim to approximately 4° nose-up for ease of access to the trim hinge.
2. Remove the 470002-9 and -10 tailcone to stinger fairings.
3. Remove the 480008-017 and -015 hinge pins. Remove the 480009-001 and -003 hinge halves. Reference Figure M20-216-1.
4. Install Service Bulletin kit part hinge half (480009-3 and -7) in place of the 480009-001 and -003 hinge halves, using 480008-015 and -017 hinge pins removed.
NOTE: 440019 washers are to hold lateral movement to .010 max.
5. Check rigging of trim system and variable down spring per Service and Maintenance Manual, paragraphs 6.3 and 6.4, stabilizer 3.8° to 4.2° up, -6.5° to -7.0° down.
6. Reinstall 470002-9 and -10 tailcone to stinger fairings.
7. Enter compliance in Log Book and fill out and return Compliance Card to Mooney Aircraft.

S.B. Kit

M20-216-001:

M20-216-501 Hinge Half
(480009-003 and -007) 1 ea.
AN 381-2-6 Cotter Pin 4 ea.
440019 Washers. 7 ea.

