



(This Service Bulletin is FAA D.O. Authorization SW-1 Approved)

- SUBJECT: REPLACEMENT OF POSITIVE CONTROL AND AUTOPILOT SERVO SEALS
- MODELS AFFECTED:
- 1) All models prior to 1965 that were retro fitted with positive control.
 - 2)

M20C 2742, 2807-3184	(1965)
M20C 3185-3466	(1966)
M20C 670001-670149	(1967)
M20E 400, 470-831	(1965)
M20E 832-1308	(1966)
M20E 670001-670062	(1967)
M20F 660001, 660002-660004	(1967)
670001-670539	(1967)
- TIME OF COMPLIANCE:
- 1) IMMEDIATELY for all 1967 M20C, M20E, and M20F models.
 - 2) Starting with the next 100 Hour Inspection, this Service Bulletin is to be complied with on each 100 Hour Inspection thereafter for all models listed above.
- INTRODUCTION:
- In recent months, there have been instances wherein deterioration of the neoprene servo seals has resulted in system leakage. When such leakage exists, stabilization and/or autopilot systems utilizing these servos will suffer deterioration in the level of performance. Such deterioration may be manifested by reduced apparent servo effort and/or asymmetrical servo effort. In the latter instance, heading errors may result, or an unusually large amount of "roll trim" becomes necessary to correct for minor leaks. Inspect all neoprene servo seals for evidence of mechanical damage or deterioration and possible leakage immediately. If evidence of deterioration exists, refer to Brittain Service Letter No. 67-0 for instructions to remove and replace servo seals.
- SERVICE BULLETIN KIT:
- 1 to 4 positive control (aileron and rudder) seals, Brittain P/N 2007-1 as required.
 - 1 to 2 autopilot (elevator) seals, Brittain P/N 2007-3 as required.

This Service Bulletin Kit may be ordered directly from Mooney Spare Parts Department, Mooney Aircraft, Inc., Kerrville, Texas or from nearest Mooney Distributor.