



SUBJECT: TO ADVISE MOONEY M20J OWNERS OF CORRECT MOUNTING SEQUENCE OF THE PROPELLER GOVERNOR SPACER PLATE AND GASKETS WHEN PROPELLER GOVERNOR IS REMOVED.

MODELS/ SN AFFECTED: All Mooney M20J Aircraft with Dual Magneto Engines with Rear Mounted Propeller Governor Drives.

TIME OF COMPLIANCE: Time of Service and Maintenance

INTRODUCTION: There has been a report in the field, of in flight engine failures (several airframe MFG's) resulting from the incorrectly installed gaskets/spacer plate stack-up on "Lycoming four and six cylinder, dual magneto engines with rear mounted propeller governor drives". The M20J MAC Service and Maintenance Manual, Chapter 61, paragraph 61-20-10, identifies "new gasket" and not "new gaskets" as well as the mounting sequence. This SI M20-120 amplifies the removal and installation information, and will be incorporated in the next manual revision cycle.

INSTRUCTIONS: Read entire procedures before beginning work.

REMOVAL AND INSTALLATION OF GOVERNOR:

- 1.1. Turn master switch - OFF.
- 1.2. Remove top and bottom cowling, refer to applicable MAC Service and Maintenance Manual.
- 1.3. Locate the rear mounted propeller governor and remove cotter pin, nut, bolt and washers from rod end at propeller governor control arm.
- 1.4. Remove bracket installed with propeller governor mounting bolts.
- 1.5. Disconnect control rod from governor control arm.
- 1.6. Remove governor mounting hardware, 4 existing nuts and washers to engine mounting pad.

CAUTION:

FAILURE TO INSTALL CORRECT PART NUMBER AND/OR QUANTITY OF GASKETS AND SPACER PLATE IN PROPER SEQUENCE COULD RESULT IN SIGNIFICANT OIL LEAKAGE, ENGINE DAMAGE AND POSSIBLE IN FLIGHT ENGINE FAILURE.

- 1.7. Clean any debris from mounting pad, existing spacer plate and bottom of governor.
- 1.8. Coat new gasket (p/n MS914401) w/DOW Corning 7 compound release agent or equivalent before installation.
- 1.9. Install new gasket (p/n 72053) onto studs and block mounting pad as shown in Figure 1.
- 1.10. Install existing spacer plate onto studs and new gasket (p/n 72053)
- 1.11. Install new gasket (p/n MS914401) with raised screen surface toward governor onto studs and existing spacer plate as shown in Figure 1.
- 1.12. Position governor on mounting studs, aligning the governor splines and the splines of the accessory drive, making sure governor surface is flush against mounting pad.
- 1.13. Install all mounting hardware, torque to (80-90 in. Lbs.) also refer to M20J Service and Maintenance Manual.
- 1.14. Connect governor control and verify rigging per M20J MAC Service and Maintenance Manual.
- 1.15. After installation and rigging checks, perform engine "Run-In" and inspect for leaks around governor mounting pad and newly installed gaskets.



SERVICE INSTRUCTION M20-120

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- 1.16. Reinstall top and bottom cowling, refer to M20J MAC Service and Maintenance Manual.
- 1.17. When all operations are found to be satisfactory M20J MAC Service and Maintenance Manual, enter compliance note into log book and return aircraft to service.
- 1.18. Procedure complete.

WARRANTY: N/A

REFERENCE DATA: 1. M20J MAC Service and Maintenance Manual
2. Lycoming Service Instruction No. 1438A (note: ensure compliance with cautions and notes in this Lycoming document).

PARTS LIST: N/A

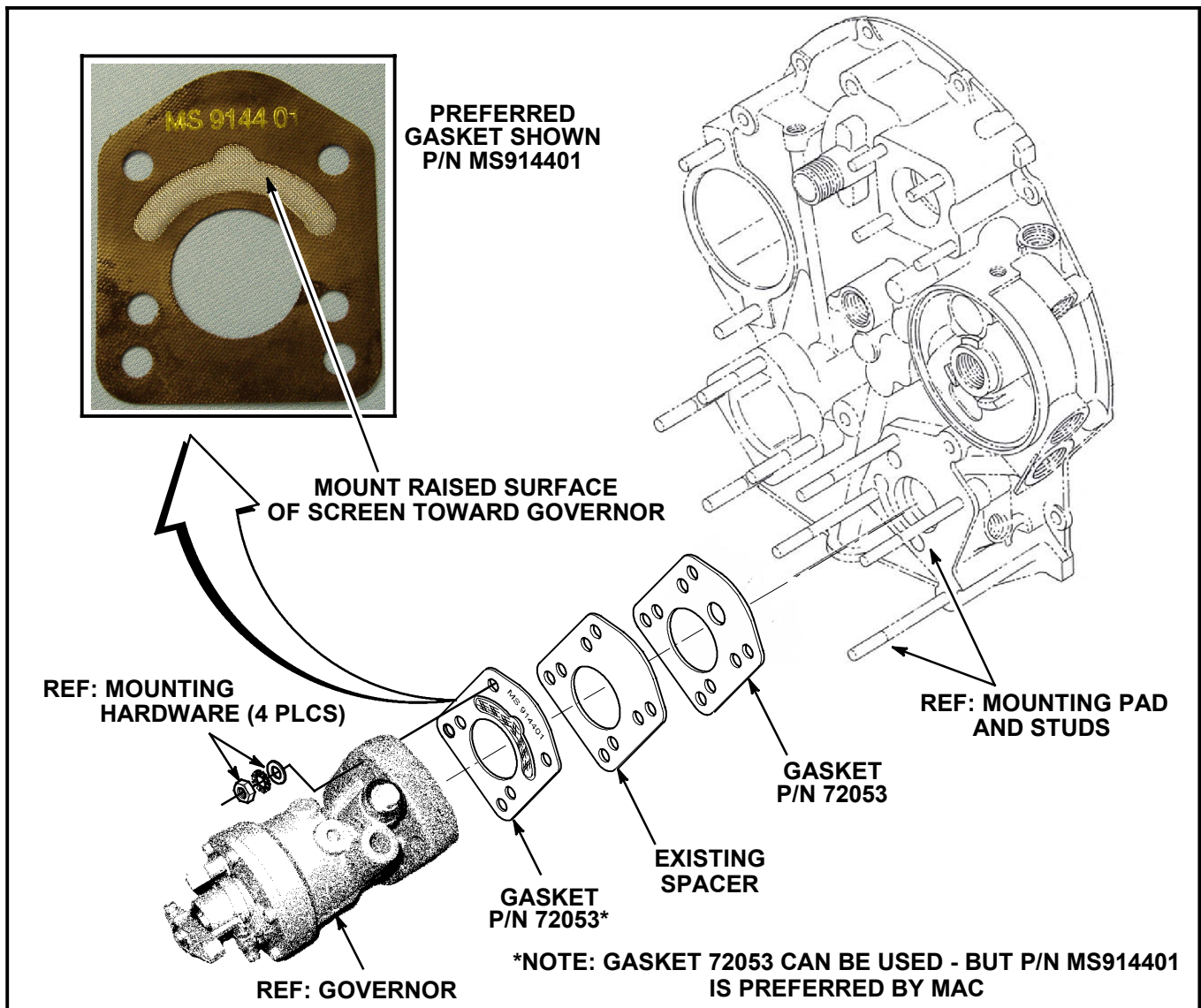


Figure 1 - REAR MOUNTED GOVERNOR PLATE AND GASKET INSTALLATION