

**THIS BULLETIN IS FAA APPROVED FOR ENGINEERING DESIGN**

SERVICE BULLETIN M20-311

Date: October 7, 2010

SUBJECT: Mooney M20TN - Exhaust Gas Temperature Probe Mounting
MODELS/ SN Mooney M20TN Acclaim and Type-S Aircraft (Serial Numbers 31-0004 thru 31-0128)
AFFECTED:

TIME OF COMPLIANCE: **WITHIN NEXT 10 FLIGHT HOURS**

INTRODUCTION: There have been reports in the field of the EGT Probe mounting hole (#30 drill - .128") in Cylinders #1 and #2) were drilled oversized (.250") on M20TN Mooney Airplanes listed above. This will require an inspection and corrective action taken. **The attached compliance card needs to be filled out and returned to Mooney Airplane Company upon completion of this Service Bulletin M20-311.**

INSTRUCTIONS: **Read entire procedures before beginning work.**

- 1.1 Turn master switch - OFF.
- 1.2 Remove top and bottom cowling per instructions provided in Chapter 71-10-00 of applicable MAC aircraft Service & Maintenance Manual.
- 1.3 Locate #1 (RH) EGT probe, remove safety wire retaining probe from clamp.
- 1.4 Loosen and remove clamp and #1 RH EGT probe, take care not to damage probe.
- 1.5 Install new sealing washer p/n (900006-1) between EGT probe and exhaust tube.
- 1.6 Re-install clamp around #1 RH exhaust pipe ensuring correct orientation of clamp tightening screw. Place probe tip into hole and tighten clamp to remove looseness.
- 1.7 Torque clamp to 30-35 in.lbs. and secure with safety wire to prevent loosening.
- 1.8 Locate #2 (LH) EGT probe, remove safety wire retaining probe from clamp.
- 1.9 Loosen and remove clamp and #2 LH EGT probe, take care not to damage probe.
- 1.10 Install new sealing washer p/n (900006-1) between EGT probe and exhaust tube.
- 1.11 Re-install clamp around #2 LH exhaust pipe ensuring correct orientation of clamp tightening screw. Place probe tip into hole and tighten clamp to remove looseness.
- 1.12 Torque clamp to 30-35 in.lbs. and secure with safety wire to prevent loosening.
- 1.13 Re-install top and bottom cowling per instructions provided in Chapter 71-10-00 of applicable MAC aircraft Service & Maintenance Manual.

NOTE:

Fill out compliance card and send by MAIL or FAX to Mooney Airplane Company as indicated on the attached Compliance Card (ref Figure M20-311-3)

- 1.14. Complete log book entry.
- 1.15. Return aircraft to service.
- 1.16. Procedure complete

WARRANTY: Mooney Airplane Company, Inc. will warrant labor 1 hour when corrective action is done in accordance with procedures of this Service Bulletin for aircraft currently covered under the Mooney Airplane Company, Inc. factory warranty program.

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REFERENCE 1. MAC Maintenance Manual (applicable A/C)
 DATA: 2. TCM M-18 Maintenance and Overhaul Manual
 PARTS LIST: Mooney Airplane Company, Inc.,

Parts Kit P/N: **M20-311-001**

<u>Item</u>	<u>P/N</u>	<u>Description</u>	<u>Qty</u>
1.	900006-1	Washer	2

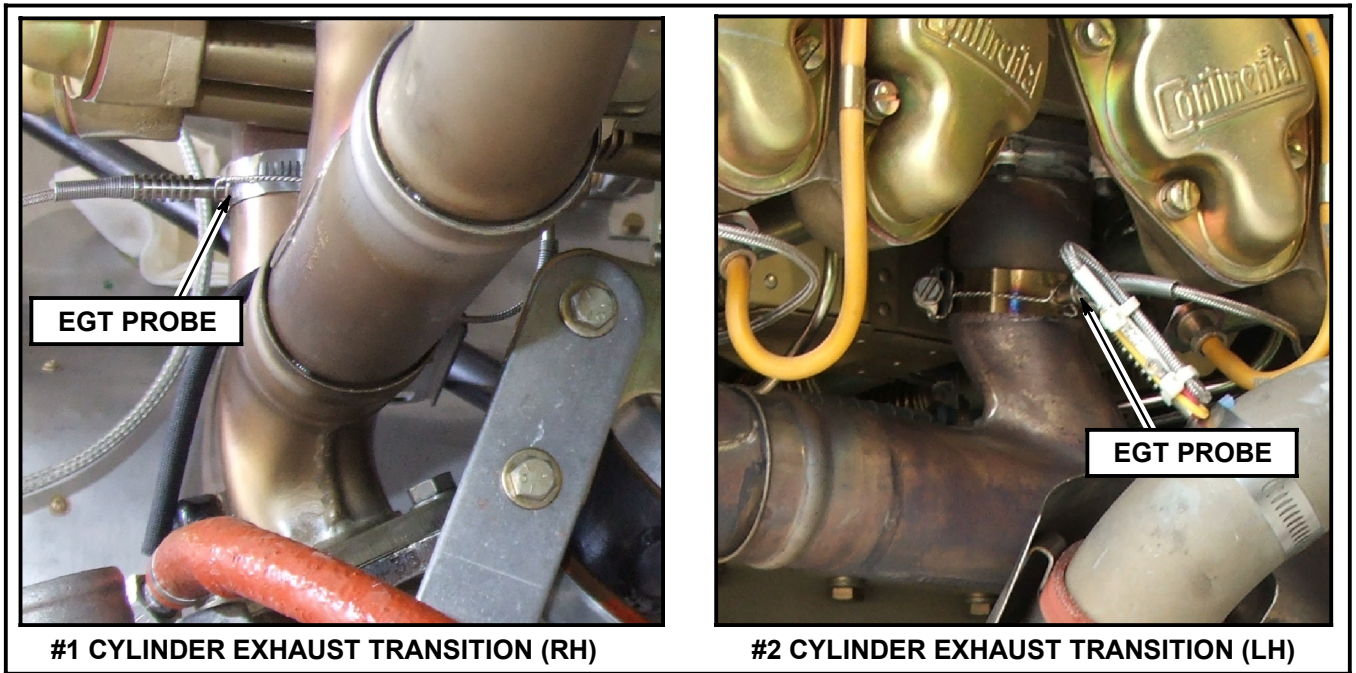


Figure SB M20-311-1 - EXHAUST GAS TEMPERATURE PROBE LOCATION

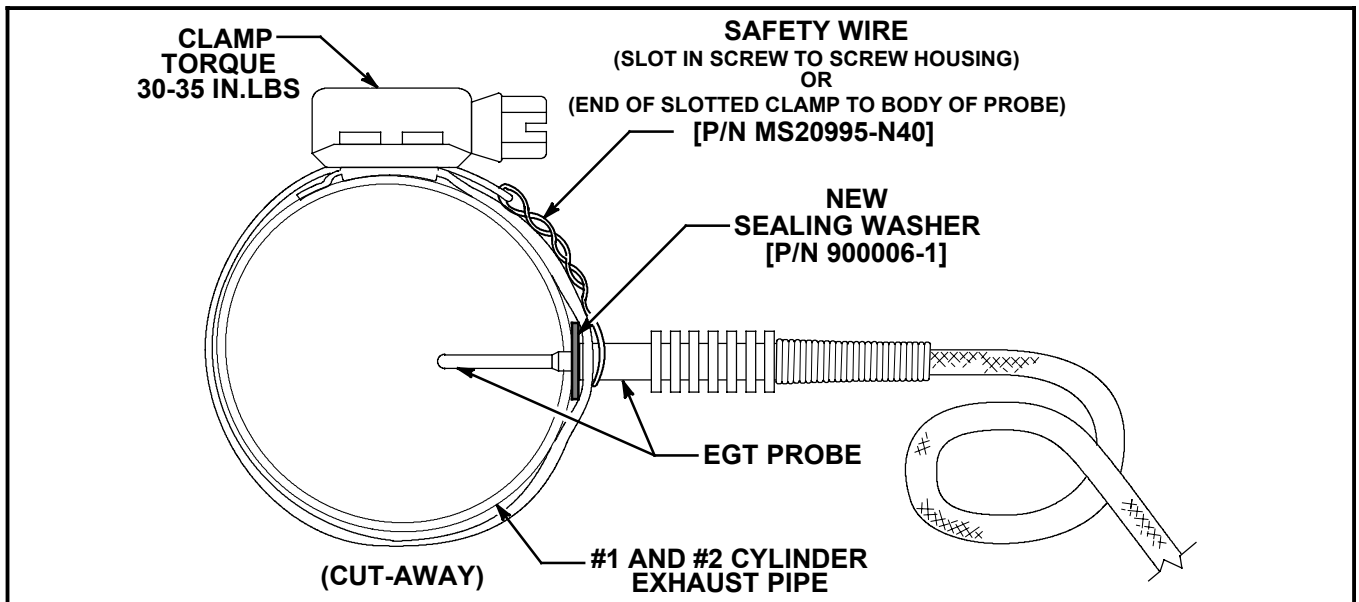


Figure SB M20-311-2 - EXHAUST GAS TEMPERATURE PROBE AND COMPONENTS

MOONEY AIRPLANE COMPANY

KERRVILLE, TEXAS 78028 - 1-800-331-3880

SERVICE (BULLETIN) (INSTRUCTION) NO. _____ HAS BEEN COMPLIED

WITH ON AIRCRAFT MODEL _____ SERIAL NUMBER _____

Tach. Time: _____ N-Number _____ (Reg. No.)

Owner: _____ Date of Compliance: _____

Complied By: _____

Inspection Report: _____

Form 07-0001

PLACE
STAMP
HERE

MOONEY AIRPLANE COMPANY

ATT'N: TECHNICAL SUPPORT

165 Al Mooney Road, North

Kerrville, Texas 78028

SEND TO:

Mooney Airplane Company

165 Al Mooney Road North

Kerrville, TX 78028

OR FAX: (830) 257-4635

Figure SB M20-311-3 - Compliance Card