



NUMBER: M20-60

DATE: 9-20-82

**SUBJECT: TELEDYNE CONTINENTAL MOTORS (TCM) AIR REFERENCE TUBE REPLACEMENT ON TS10-360GB ENGINES.**

**MODELS AFFECTED: Mooney M20K, S/N 25-0001 thru 25-0701.**

**TIME OF COMPLIANCE: Within next 50 hours or at next scheduled maintenance and every 100 hours thereafter unless replaced with new steel line.**

**INTRODUCTION: Teledyne Continental Motors has received reports of fractured air reference tubes, P/N 641082, and has issued Service Bulletin M82-7 to inspect and replace if needed. Any bending of this aluminum tube assembly can cause damage which can result in a fracture.**

**INSTRUCTIONS: Refer to TCM Service Bulletin M82-7, dated 13 May, 1982 and comply with inspection as specified. Replace with new stainless steel tube assembly P/N 646114 if needed. The replacement tube assembly should be obtained from the TCM Distributor in your area.**

**All replacements of P/N 641082 aluminum tube assembly should be made with the stainless steel tube assembly P/N 646114.**

**REFERENCE DATA: TCM S.B. M82-7, Dated 13 May 1982.**

**PARTS LIST: Not applicable to this S.I. See TCM S.B. M82-7, Dated 13 May 1982.**

**FIGURE/TABLES: See TCM S.B. M82-7.**

**service bulletin**

M82-7

Technical Portions are  
FAA Approved

13 May, 1982

**TO:** Aircraft Manufacturers, Distributors, Dealers, Engine Overhaul Facilities, Owners and Operators of Teledyne Continental Motors Aircraft Engines.

**SUBJECT:** TUBE ASSEMBLY (Air Reference Tube)

**MODELS  
AFFECTED:** TSIO-360GB (Installed In Mooney 231) Prior to S/N 309749

Gentlemen:

Teledyne Continental Motors has received reports of fractures in the air reference tube, P/N 641082, on engines installed between the air throttle adapter and the fuel pump in Mooney 231 aircraft. See Figure 1.

Since any bending of this preformed tube can cause damage which can result in a fracture, it is extremely important that the tube not be bent from its original configuration.

The tube has been reconfigured to provide additional clearance and the material from which the tube is fabricated has been changed to steel in order to reduce the potential of damage to the tube. The redesigned tube assembly is P/N 646114. (See Parts Catalog, Form X30031A.)

Teledyne Continental Motors recommends that within the next 50 hours or next scheduled maintenance, whichever occurs first, the air reference tube, P/N 641082, on engines installed in affected Mooney 231 aircraft be visually inspected for any cracking, crazing or deformity from its preformed configuration and that any tube having any such discrepancy be replaced with P/N 646114.

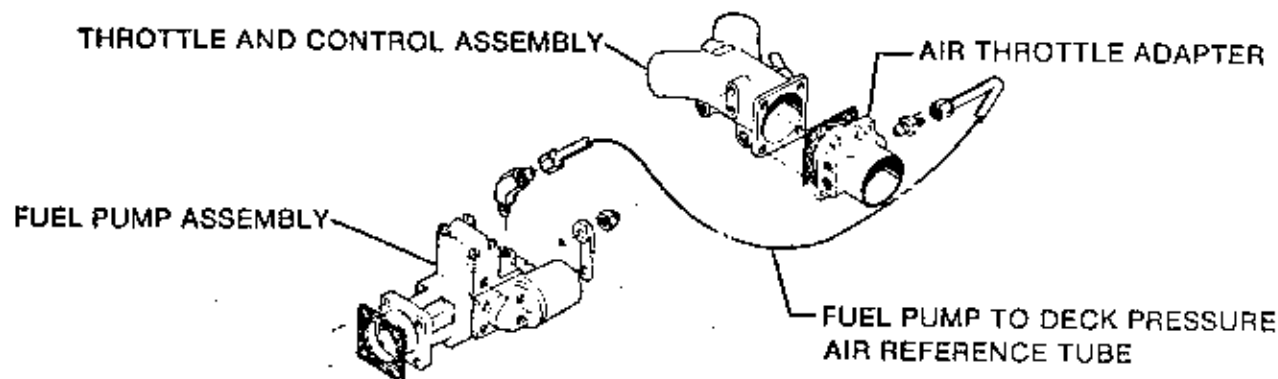


FIGURE 1