

service bulletin

M88-5
Technical Portions Are
FAA Approved

4 April 1988

SUBJECT: **STARTER ADAPTER SHAFTS**
(Reference Service Bulletin M87-24)

MODELS
AFFECTED: IO-520-BA, IO-520-BB, IO-550-B, TSIO-520BE, TSIO-520UB,
TSIO-520LB, AND TSIO-520WB

Only those new and rebuilt serial numbers that were required to have their compressor drive belts cut in compliance with TCM Service Bulletin M87-24.

COMPLIANCE: As required.

On December 15, 1987 Teledyne Continental Motors issued Service Bulletin M87-24 requiring the deactivation (cutting the drive belt) of some air conditioning compressors as an interim measure until shaft redesign and testing were completed.

TCM has available replacement starter drive assemblies for those engines that required deactivation (cutting the drive belt). The following action is therefore required:

1. Replacement assemblies should be ordered through any Teledyne Continental Motors distributor per the following:

FOR ENGINE MODEL

IO-520-BA, IO-520-BB, AND IO-550-B
TSIO-520-LB AND TSIO-520-WB
TSIO-520-BE
TSIO-520-UB

ORDER REPLACEMENT
STARTER DRIVE ASSEMBLY

P/N 642087A23R
P/N 642087A22R
P/N 642087A24R
P/N 646757A4R

2. Any new or rebuilt TSIO-520-BE engine used on the Piper Malibu Aircraft and shipped from TCM as a replacement engine in conjunction with compliance to TCM Service Bulletin M87-25 should not order a replacement starter drive assembly. Those engines will have replacement starter drive assemblies shipped directly from the TCM factory.
3. The replacement starter drive assembly is shipped without a drive sheave. You must remove the spacer adjacent to the 12 point lock nut to allow for installation of the drive sheave. Install the drive sheave from your existing unit. Then lubricate the threads of the 12 point lock nut P/N 649924 supplied on the replacement starter drive assembly with clean 50 weight engine oil and torque to 450 to 500 inch pounds.

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4. When the replacement starter adapter assembly is installed the drive sheave and belt should be installed using proper torque, alignment and belt tension per TCM Service Bulletin M88-6 or subsequent revision.
5. Make appropriate log book entry stating compliance to this service bulletin.

WARRANTY: The action to comply with this service bulletin is covered by the TCM Gold Medallion Warranty subject to its terms and conditions. Warranty claims may be filed through any TCM distributor.

The following exceptions apply:

- A. TCM will supply replacement units on an exchange basis at no charge to the customer.
- B. TCM will pay up to five (5) hours labor at posted shop rates to install the replacement unit on the IO-520-BA, IO-520-BB, IO-550-B, TSIO-520-LB, TSIO-520-WB and TSIO-520-UB. Eight (8) hours will be allowed on the TSIO-520-BE.

NOTE: Installation of the replacement unit on the Piper Malibu (TSIO-520-BE engine) does **not** require engine removal. Piper Aircraft Corporation Service Bulletin 876B gives detailed instructions on this subject.

- C. Exchange parts must be returned to TCM for credit and should accompany the warranty claim for expeditious processing.