

service bulletin

M71-20
Supersedes M70-12
FAA-DER Approved

August 20, 1971

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

SUBJECT: Installation Instruction for the compressor Sheave to the Starter Adapter (637778).

MODELS

AFFECTED: GTSIO-520-C, D, F, G and H

Gentlemen:

When installing air-conditioning, the compressor drive hub P/N 637775, attaches to the starter adapter shaftgear on top of the viscous damper. Remove the starter adapter assembly from the engine and proceed as follows:

1. Remove the P/N 502171 snap ring and discard it. (Ref. Page 19 in Parts Catalog, Form X-30046, dated January 1968.)
2. Remove the P/N 632980 key, the P/N 628311 spring and the P/N 632979 Marsden nut.
3. Remove the P/N 631922 washer and discard it. **IMPORTANT:** This washer is NOT used with the compressor sheave.
4. Install the P/N 637775 hub over the shaft end with the nut inside the cone.
5. Install the Marsden nut and torque to 195-235 ft./lbs. while shaftgear is held in a fixture locating on at least four gear teeth. A special fixture designed to locate on all the gear teeth is available from Borrough's Tool and Equipment Corporation, 2429 N. Burdick Street, Kalamazoo, Michigan 49007, under their Tool No. 5211. This tool will also accommodate starter adapters for IO520 and TSIO520 models.
6. Install the P/N 628311 spring. Use a new spring if the original is deformed or compressed.
7. Install the P/N 632980 key and secure with a new P/N 502171 snap ring.
8. For installation instructions for the 637774 sheave see Cessna 421 Service Manual, Section 13, Page 13 - 64T or Weston Air Products Air-Conditioning Overhaul Manual, OM-421-1, as applicable.