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

SUBJECT: INSTALLATION INSTRUCTIONS AND REWORK INSTRUCTIONS FOR THE PART NO'S 642266 & 643935 ALTERNATOR BRACKETS

MODELS AFFECTED: O470U, IO520D, F, L, TSIO520M, P, R, T

Gentlemen:

Several alternator brackets have been returned with elongated mounting holes because of a lack of torque on the 7/16-20 bolt and nut used to hold the alternator. The proper torque for this nut is 400 to 450 in. lbs. when using a plain nut. If a self locking type nut is used then the running torque of this nut must be added to the tightening torque of 400 to 450 in. lbs. to provide the proper clamped joint between the bracket and alternator.

The following procedure for repair to the bracket can be made if the forward mounting hole and aft bushing have elongated.

1. Drill the forward hole to .625/.626 diameter. (Discard bracket if .625-.626 does not remove all elongation of original hole.) Care must be taken to keep the centerline of the hole parallel to the centerline of the bolt.

2. Press the part no. 643928 bushing into the hole with the bushing flush to .010 below the surface.

3. Press out the bushing in the aft hole and replace with a new part no. 643934 bushing.

CAUTION...When reinstalling the alternator be sure to use a special washer, part number 638115-1 between the alternator and bracket as shown.