

>>> Service Letter

Technical Aspects are FAA Approved

Number: L10-01 A

INITIAL RELEASE

Date: 12/7/2010

Subject: SA638172 Magneto Drive Bushing

Application: This Service Letter applies to the engines listed in the table below that had certain SA638172

Magneto Drive Bushing(s) installed after March 2009

Magneto Drive Bushing	Engine Application
SA638172	470, 520, & 550 Series TCM engines

Compliance: Recommended at oil filter or oil screen inspections. Or any time an accessory is removed from the drive adaptor directly aft of the magneto.

It has come to Superior Air Parts' attention that a limited quantity of SA638172 magneto drive bushings may swell excessively during normal engine operations. This swelling could apply pressure to the magneto drive gear and reduce the clearance between the magneto drive gear thrust face and the drive adaptor thrust bushing surface.

One indication of a reduced clearance would be an increase of wear particle material in the oil filter or screen from the thrust face of the bushing in the drive adaptor.

If a reduced clearance is suspected, remove the accessory or cover plate attached to the rear of the engine directly behind the magneto and measure the end play of the drive shaft. If the end play is below the minimum requirements specified in the latest TCM Overhaul Manuals, remove the magneto and replace the drive bushings.

The affected SA638172 drive bushings were sold under Lot Numbers D090071196, D100074572, & G100075195.

SA638172 drive bushings from LOT Numbers D090071196, D100074572, and G100075495 that have swelled over 10% from their original size may be returned to Superior Air Parts for replacement consideration.

Recommended time of inspection:

- 1. Visual: During routine oil filter or oil screen inspections, or
- 2. Dimensional: Any time an accessory is removed from the drive pad directly behind the magneto. For End Play Clearance check current TCM Maintenance and Overhaul Manuals.

Also, SA638172 Magneto Drive Bushings from Lot Numbers D090071196, D100074572, & G100075195 which are still in their original packaging bags may be returned to Superior Air Parts for replacement.

The affected SA638172 Magneto Drive Bushings were sold separately or were included in gasket set SA631348-A3.