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TO: DDC Distributors, FLLC Dealers

FROM: Service Documentation

SUBJECT: **MBE4000 Rear Power Take-Off Torsional Coupling**

ISSUE

A REPTO accessory drive is available as an option on the MBE4000 engine. The drive provides continuous live power anytime the engine is operating. The REPTO is driven by the camshaft gear and is an integral part of a unique SAE#1 flywheel housing.

All REPTO installations require a torsional damper coupling (p/n 906 250 00 01) installed at the flange of the driven unit (e.g. hydraulic pump). See figure 1. The torsional coupling is a rubber element design to reduce the unwanted stresses reaching the engine and is available as a service part from Detroit Diesel Corporation.

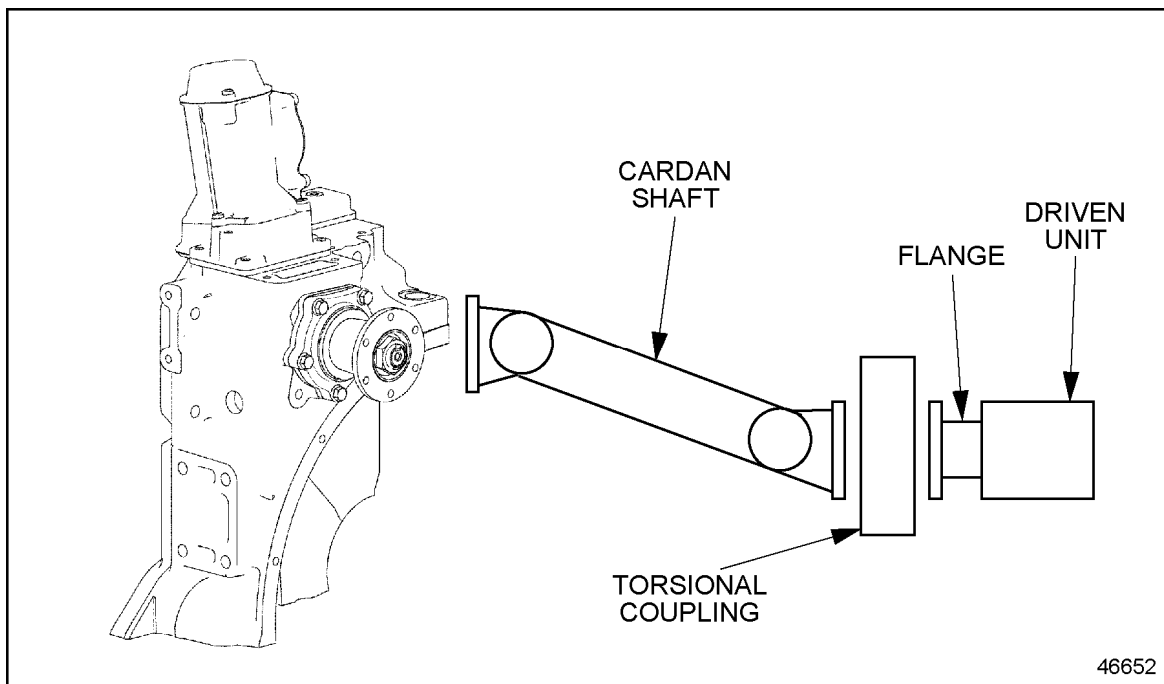


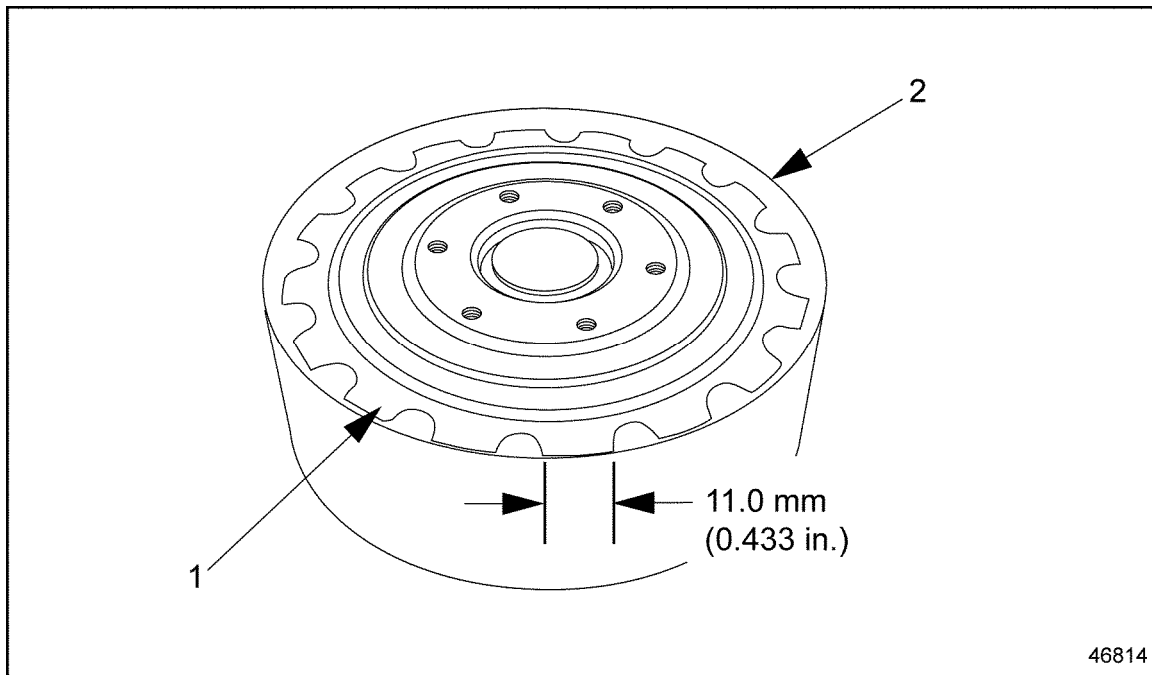
Figure 1 MBE4000 REPTO Connection Illustration

ADDITIONAL INFORMATION

The torsional damper coupling is a maintenance free item, but should be initially inspected at 60,000 miles or 3000 hours of operation and every 30,000 miles or 1500 hours thereafter.

Inspect the torsional coupling as follows:

1. Inspect the outer case of the coupling for damage. Check the outer case for dents or bulges. If any dents or bulges are detected, replace with a new coupling.
2. Inspect the rubber element of the coupling for damage. Check the rubber element for bulges or cracking. If any bulges or cracking is detected, replace with a new coupling.
3. Inspect the rubber element teeth. Inspect the coupling element teeth for wear. If the coupling element teeth are worn to less than one-half of the original length 11.0 mm (0.433 in.) replace the coupling. See Figure 2.



1. Rubber Element

2. Damper Casing

Figure 2 MBE4000 Torsional Damper Coupling

If the coupling is not damaged, does not show signs of cracking, and the element teeth are not worn past the limit, the coupling is considered serviceable and does not require replacement.

Regardless of the condition, the torsional coupling must be replaced at normal engine overhaul.

The torsional damper coupling will withstand normal exposure to hydraulic oil, diesel fuel, anti-freeze solutions, and muriatic acid. The coupling should be washed with a mild soap solution and rinsed with water after contact with the above items. The coupling can be power washed without damage as long as it is installed in the vehicle. If the coupling is power washed when not connected to a cardan shaft, debris may be forced internally at the bolt flanges, damaging the coupling.

CONTACT INFORMATION

Please contact the DDC Customer Support Center at 313-592-5800 if you have any questions.