

MER

E Q U I P M E N T

Logan Clutch Equipped MER/Deere 4045 and 6068 Engines

Note:
MER secures an extra serpentine belt *inboard* from the Logan clutch to save disassembly of the power take off for the first belt change.

When it is time to replace the belt however, follow these instructions to save time.



Figure 1 Remove the 5/8" bolt securing the isolation mount to the black clutch bracket.

Due to the close tolerances of the clutch assembly, partial disassembly is required to replace a worn or broken belt.

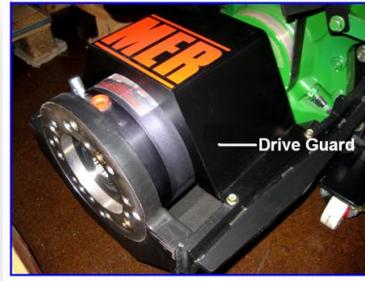


Figure 2 Next remove the guard over the drive.

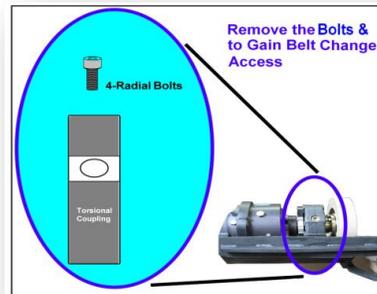


Figure 3 The torsional coupling drive pins and bolts are removed with an Allen style wrench to allow belt access.



Figure 4 The 14MM Allen head, drive pin removal tool is available from MER Parts.



Figure 5 Begin by removing the radial bolts from the torsional coupling.

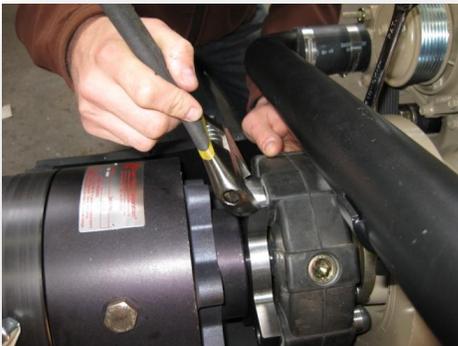


Figure 6 Use a wrench to turn the engine for access to all of the radial bolts.



Figure 7 Remove the bolts securing the clutch bracket to the engine block. Now slide the clutch bracket and clutch forward until there is adequate

room to slip the new belt between the pulley coupling and torsional coupling

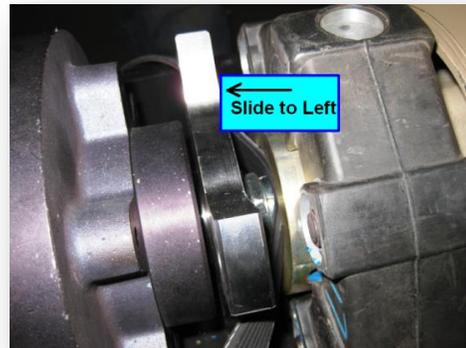


Figure 8 Slide the unit to the left to gain belt change access.



Figure 9 MER/Deere engine with Logan front mounted PTO clutch.



Figure 10 Next remove the fasteners that secure the grill-type belt guard shown here. This includes the bolt that connects the belt guard and coolant cross-over tube to the U-shaped bracket that is tan in color.



Figure 11 Remove the pound belt guard from its position.

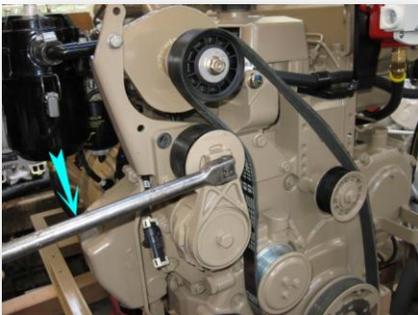


Figure 12 Turn the spring-loaded belt tensioner counter-clockwise to remove and install the belt.

Note: When replacing the serpentine belt, consider securing an extra belt in place to save time in the future.

Reassemble in reverse order, and torque each bolt to specification.

Apply grease beneath the heads of the radial bolts to prevent distortion of aluminum inserts

Note of caution: DO NOT USE ANAEROBIC THREAD LOCKING COMPOUND- Anaerobic thread locking compounds should only be used as a last resort, and then only sparingly. Its use will void the warranty.

Anaerobic thread-locking compound can cause the connection between the rubber and the inserts to fail

Bolts come with a pre-applied micro-encapsulated epoxy that can be reused three times before replacement.

Be sure to tighten each fastener and to specification. Both the radial drive bolts and the axial drive pins are tightened to 220 Newton-meters (162 ft. pounds).

The special tool PN-AI14MM, shown in Figure 6, and new drive pins and fasteners hardware kit, PN-076-0461 are available from MER parts: 800-777-0714