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| VEHICLE MAKE AND MODEL _____ | TRANSMISSION ASSEMBLY NO _____ |
| SERVICE WORK ORDER # _____   | VIN _____                      |

1. Clutch storage, removal from packaging, and general handling

- ☐ Verify clutch assemblies are stored in a manner to prevent rust and physical damage.
- ☐ Verify lifting devices are designed to prevent physical damage to diaphragm spring, clutch cover, pressure plate, and driven disk assembly.
- ☐ Verify handling technique avoids harsh physical contact with pressure plate control fingers.

2. Transmission storage, removal from packaging, and general handling

- ☐ Verify transmission assemblies are stored in a manner to prevent rust and physical damage.
- ☐ Ensure lifting equipment and handling technique avoid physical damage to pre-installed output yokes, speed sensor harness, fluid pressure sensor, MTM, TCM, LCA, and all enclosures.

3. Transmission assembly preparation

- ☐ Output yoke installation or replacement: Verify retaining screw is torqued to 455 - 509 lb. ft. (617 - 690 Nm) NOTE: A new output yoke retaining screw is required if the installed output yoke is removed for any reason.
- ☐ Verify installation of air supply fitting does not damage MTM inlet threads.
- ☐ Verify that any brackets installed on transmission only utilize existing mounting provisions and that no transmission fasteners are removed.
- ☐ Verify that no OEM-installed equipment is attached to output shaft speed sensor harness.

4. PTO (If equipped)

- ☐ Verify suitable tooling and procedure for cleaning PTO mounting surface after PTO cover is removed. Refer to PTO installation in section 11 of the Installation Guide TRIG0950.

5. Pilot bearing installation:

- ☐ Verify pilot bearing driver is designed to contact only the outer bearing race.

6. Air system inspection

- ☐ Inspect the chassis side air dryer and cartridge for any contaminants reference TAIB-1006.
- ☐ Validate transmission has an Oil Coalescing Air Dryer Cartridge. Please reference Daimler CAL FTL 26-002.

7. Clutch installation

- ☐ Verify appropriate work instructions or installation diagrams are available at point of installation.
- ☐ Verify flywheel is cleaned of any rust, rust preventatives, decals, or other oily residue or debris.
- ☐ Verify proper use of clutch assembly alignment shaft.
- ☐ Verify proper use of clutch-to-flywheel alignment and support dowels.
- ☐ Verify installers understand proper driven disk orientation
- ☐ Verify installation technique avoids "slamming" the pressure plate control fingers into the flywheel.
- ☐ Verify all clutch fasteners are torqued to OEM specification. NOTE: If a single-spindle driver is used, verify installer tightens all fasteners slowly and progressively touching each fastener multiple times.
- ☐ Verify operation for setting pressure plate control fingers to the flywheel.

8. Transmission Installation

- ☐ Verify appropriate work instructions or installation diagrams are available at point of installation.
- ☐ Verify input shaft shipping cone is removed.
- ☐ Verify input shaft is correct for engine application. See TRPB0950
- ☐ Verify clutch release bearing is not allowed to escape clutch release yoke.
- ☐ Verify all legs of lifting chains are of suitable length to keep transmission level.
- ☐ Ensure lifting equipment and handling technique avoid physical damage to all transmission components.

- ☐ Verify clutch housing is fully seated to flywheel housing before any clutch housing fasteners are torqued.
- ☐ Verify grade of transmission mounting bolt meets OEM specification.
- ☐ Verify all clutch housing fasteners are torqued to OEM specification.

### 9. Transmission pull-to-neutral and LCA unlock

- ☐ Verify air supply pressure, MTM fitting, and air filtration meet all requirements documented in "Transmission Pull-to-Neutral and Clutch Actuator Unlock" of section 11 of the Installation Guide TRIG0950. Perform transmission service routines
- ☐ Verify TCM electrical connections are free of physical damage and debris.

### 10. Lubrication fill

- ☐ Verify lubricant meets Eaton specification PS-386
- ☐ Verify lubrication dispensing equipment avoids damaging transmission fill hole threads
- ☐ Verify 7.5 liters volume dispensed or 16 pints

### 11. TCM connections and OEM harness routing and clipping

- ☐ Verify installers are properly latching TCM connectors
- ☐ Verify provided harness anchor points or approved alternative anchor points are utilized for TCM harness clipping.
- ☐ Verify no sharp bends in TCM harnesses. NOTE: The recommended bend radius of an individual cables is 2.5 times greater than the diameter of the individual cable.
- ☐ Verify suitable strain relief at TCM harness connections.
- ☐ Verify that any brackets installed on transmission only utilize existing mounting provisions and that no transmission fasteners are removed.

### 12. Grade Sensor calibration

- ☐ Verify calibration is completed with vehicle at +/- 0.5% grade (.28degrees) to ground surface.

### 13. Functional check

- ☐ Verify "service light / service warning" functions correctly.
- ☐ Verify gear display functions correctly.
- ☐ Verify engine does not crank with shift device in any position other than neutral or park.
- ☐ Verify forward and reverse gear selection requires service brake application.
- ☐ Verify correct function of shift device in all modes of operation.
- ☐ Verify truck operating air pressure supply is between 99 and 130psi. *See TRIG0950 section 6.*
- ☐ TCM software version must match transmission MTM version. *See TAIB-1001.*

### 14. VEPS

- ☐ Verify correct calibration file is installed.

### 15. Fuse inspection

- ☐ Verify a single 10 amp ignition bus fuse.
- ☐ Verify dual (2) 15-amp main power fuses.

### 16. Offline / Repair

- ☐ Verify repair technicians have access to troubleshooting guides.
- ☐ Verify ServiceRanger is updated to latest release.
- ☐ Verify process to resolve and clear all fault codes before vehicle is released.
- ☐ Air dryer should be changed, and vehicle air system must be free of contamination. *See TAIB-1006.*



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