

DIAGNOSIS AND TESTING (Continued)

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No Reverse Engagement (Cont'd)

Possible Component	Reference / Action
—Seals, Piston —Check Ball —Friction Elements damaged or worn —Reverse Apply Tube leaking or improperly installed	—Inspect for damage. Service as required. —Inspect. Service as required.
Output Shaft —Splines damaged.	—Inspect for damage. Service as required.

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Harsh Reverse Engagement

Possible Component	Reference / Action
203 — ELECTRICAL ROUTINE	
Powertrain Control System —Electrical Inputs / Outputs, Vehicle Wiring Harnesses, Powertrain Control Module (PCM), EPC Solenoid, TOT, TSS, MLP	—Run On-Board Diagnostic. —Refer to Powertrain Control/Emissions Diagnosis Manual ² for diagnosis. Perform Service Manual Pinpoint Tests A, B, D and F using the Transmission Tester (007-00085) and the MLP Tester (D89T-70010-A) as outlined. Service as required. Clear codes. Road Test and rerun On-Board Diagnostic.
303 — HYDRAULIC/MECHANICAL ROUTINE	
Fluid —Improper level —Condition	—Adjust fluid to proper level. —Inspect as outlined under Fluid Condition Check.
Shift Linkage —Damaged or misadjusted	—Inspect and service as required. Adjust linkage as outlined. After servicing linkage, verify that the MLP sensor is properly adjusted. Refer to Transaxle, Assembly.
Improper Pressures —High Line pressure —High EPC pressure	—Check pressure at line and EPC pressure taps. Refer to Pressure Chart for specifications. If high, check the following possible components: Main Controls, Oil Filter and Seal Assembly.
Oil Filter and Seal Assembly —Plugged or damaged —Filter Seal damaged	—Replace filter and seal assembly.
Main Controls —Bolts not tightened to specification —Gasket—damaged, off location —B1 Check Ball, Pressure Failsafe Valve, Manual Valve, Main Regulator Valve—stuck, damage	—Retighten bolts to specification. —Inspect for damage. Replace as required. —Inspect for damage. Service as required.
Pump Assembly —Bolts not tightened to specification —Gasket damaged, off location —Porosity / cross leaks —Components damaged	—Retighten bolts to specification. —Inspect for damage and replace as required. —Replace pump assembly. —Inspect for damage and replace as required.
Reverse Clutch Assembly —Seals, Piston —Friction Elements damaged, worn —Return spring piston damaged, worn —Reverse Apply Tube leaking or improperly installed	—Inspect for damage. Service as required.

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² Can be purchased as a separate item.