

DIAGNOSIS AND TESTING (Continued)

Shift Concern: 3-4 Shift (Cont'd)

Possible Component	Reference/Action
—Wrong Apply Rod	—Inspect. Replace if incorrect.
—Servo Bore or Piston damaged	—Inspect for damage. Service as required.
—Piston Seals—damaged, missing	—Inspect for damage. Service as required.
—Return Spring Retaining Clip—missing, broken	—Inspect for damage. Service as required.
Main Controls	
—Bolts not tightened to specification	—Retighten bolts to specification.
—Gaskets—damaged, off location	—Inspect for damage. Replace as required.
—3-4 Shift Valve, 1-2 Shift Valve, Accumulator Regulator Valve, Forward Clutch Control Valve—stuck, damaged	—Inspect. Service as required.
—SS1 Malfunction	—Activate solenoid using transmission tester. If solenoid operation cannot be felt when placing hand on solenoid, replace solenoid. Inspect O-rings for damage. Service as required.
—EPC Solenoid stuck, damaged	—Inspect for damage. Service as required.
—B4, B11 Check Balls	—Inspect for damage. Replace as required.
3-4 Accumulator Assembly	
—Accumulator Piston—stuck, damaged	—Inspect for damage. Service as required.
—Piston Seals—missing, damaged	—Inspect for damage. Service as required.
—Springs—missing, damaged, holes blocked	—Inspect for damage. Service as required.
Support Assembly—Driven Sprocket	
—Seals—damaged, missing, holes blocked	—Inspect for damage, missing or blockage. Service as required.
OD Band	
—OD Band—damaged, worn, misassembled	—Inspect for damage. Replace as required.
—Direct One-Way Clutch Assembly damaged	—Inspect for damage. Replace as required.
Forward Clutch Assembly	
—Return Spring/Piston damaged	—Inspect for damage. Replace as required.
Differential Assembly	
—Damaged or missing	—Inspect for damage. Service as required.
Speedometer Drive Gear	
—Damaged	—Inspect for damage. Service as required.

TD11431A

Shift Concern: 4-3 Shift

Possible Component	Reference/Action
223 — ELECTRICAL ROUTINE	
Powertrain Control System —Electrical Inputs/Outputs, Vehicle Wiring Harnesses, Powertrain Control Module (PCM), Shift Solenoids, MLP sensor, TSS, EPC Solenoid	—Run On-Board Diagnostic. —Refer to Powertrain Control/Emissions Diagnosis Manual ¹⁴ for diagnosis. Perform Service Manual Pinpoint Tests A, D, E and F using the Transmission Tester (007-00085) and MLP Tester (D89T-70010-A) as outlined. Service as required. Clear codes. Road Test and rerun On-Board Diagnostic.
323 — HYDRAULIC/MECHANICAL ROUTINE	
Speedometer Gear—Drive —Damaged	—Inspect for damage. Service as required.
Speedometer Gear—Driven —Damaged	—Inspect for damage. Service as required.
Main Controls —Bolts not tightened to specification —Gaskets—damaged, off location —1-2 Shift Valve, 3-4 Shift Valve, Accumulator Regulator Valve—stuck, damaged —SS1 Malfunction	—Retighten bolts to specification. —Inspect for damage. Replace as required. —Inspect. Service as required. —Activate solenoid using transmission tester. If solenoid operation cannot be felt when placing hand on solenoid, replace solenoid. Inspect O-rings for damage. Service as required.

(Continued)

14 Can be purchased as a separate item.