

## DIAGNOSIS AND TESTING (Continued)

## Shift Concern: 2-3 Shift (Cont'd)

Possible Component	Reference/Action
<b>Improper Pressures</b> —Direct Clutch pressure, EPC pressure	—Check pressure at EPC and line taps. Refer to Pressure Chart for specifications. If not OK, check the Main Controls.
<b>Main Controls</b> —Bolts not tightened to specification —Gaskets—damaged, off location —1-2 Shift Valve, 2-3 Shift Valve, 2-3 Servo Regulator Valve/Spring—stuck, damaged —B3, B8, B9, B10, B11 Check Balls—damaged, missing —SS1, SS2, SS3 Malfunction	—Retighten bolts to specification. —Inspect for damage. Replace as required. —Inspect. Service as required. —Inspect for damage. 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.
<b>Low Intermediate Servo Assembly</b> —Wrong Apply Rod, Servo Bore or Piston damaged, Piston Seals damaged or missing, Return Spring or Retaining Clip missing, broken	—Inspect for damage. Service as required.
<b>Support Assembly—Driven Sprocket</b> —Seals—damaged, missing, holes blocked	—Inspect for damage. Service as required.
<b>Direct One-Way Clutch</b> —Not holding, damaged	—Inspect for damage. Replace as required.
<b>Direct Clutch Assembly</b> —Seals —Piston —Friction damaged or worn —Check Ball not seating —Return Spring Assembly	—Inspect for damage. Replace as required. —Inspect for damage. Replace as required. —Inspect for damage. Replace as required. —Inspect for damage. Replace as required. —Inspect for damage. Replace as required.
<b>Case</b> —Servo Release Passage blocked —Servo Release Tube—leaking, loose	—Inspect for damage. Replace case if damaged.
<b>Direct/Intermediate Clutch Hub</b> —Seals damaged, missing or holes blocked	—Inspect for damage. Service as required.
<b>Speedometer Drive Gear</b> —Damaged	—Inspect for damage. Service as required.

TD11430A

## Shift Concern: 3-4 Shift

Possible Component	Reference/Action
<b>222 — ELECTRICAL ROUTINE</b>	
<b>Powertrain Control System</b> —Electrical Inputs/Outputs, Vehicle Wiring Harnesses, Powertrain Control Module (PCM), Shift Solenoids, MLP Sensor, EPC Solenoid	—Run On-Board Diagnostic. —Refer to Powertrain Control/Emissions Diagnosis Manual <sup>13</sup> for diagnosis. Perform Service Manual Pinpoint Tests A, D and E 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.
<b>322 — HYDRAULIC/MECHANICAL ROUTINE</b>	
<b>Shift Linkage</b> —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.
<b>Speedometer Gear—Drive</b> —Damaged	—Inspect for damage. Service as required.
<b>Speedometer Gear—Driven</b> —Damaged	—Inspect for damage. Service as required.
<b>Overdrive Servo Assembly</b>	

(Continued)

<sup>13</sup> Can be purchased as a separate item.