

## DIAGNOSIS AND TESTING (Continued)

(Continued)

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

Possible Component	Reference/Action
—Seals—damaged, missing, holes blocked	—Inspect for damage, missing or blockage. Service as required.
<b>Low One-Way Clutch Assembly</b> —Not Overrunning—damaged	—Inspect for damage. Replace as required.
<b>Forward Clutch Assembly</b> —Return Spring damaged —Friction Elements damaged —Seals/Piston damaged —Check Ball damaged, stuck or missing	—Inspect for damage. Service as required. —Inspect for damage. Service as required. —Inspect for damage. Service as required. —Inspect for damage. Service as required.
<b>Direct Clutch Assembly</b> —Return Spring damaged —Return Spring Retaining Ring out of position —Check Ball not functioning	—Inspect for damage. Replace as required. —Inspect for damage. Replace as required. —Inspect for damage. Replace as required.
<b>Low/Intermediate Band</b> —Damaged, worn, burnt, misassembled	—Inspect for damage. Replace as required.
<b>Differential Assembly</b> —Damaged	—Inspect for damage. Service as required.
<b>Speedometer Drive Gear</b> —Damaged	—Inspect for damage. Service as required.

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## Shift Concern: 2-1 Shift (Automatic)

Possible Component	Reference/Action
<b>225 — ELECTRICAL ROUTINE</b>	
<b>Powertrain Control System</b> —Electrical Inputs/Outputs, Vehicle Wiring Harnesses, Powertrain Control Module (PCM), Shift Solenoids, MLP Sensor	—Run On-Board Diagnostic. —Refer to Powertrain Control/Emissions Diagnosis Manual <sup>16</sup> for diagnosis. Perform Service Manual Pinpoint Tests A and D 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>325 — HYDRAULIC/MECHANICAL ROUTINE</b>	
<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>Main Controls</b> —Bolts not tightened to specification —Gaskets—damaged, off location —1-2 Shift Valve, Backout Valve, Intermediate Clutch Shuttle Valve, Main Regulator Valve —SS1 Malfunction  —B10 Check Ball—missing, damaged	—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. —Inspect for damage. Service as required.
<b>Intermediate Clutch Assembly</b> —Return Spring—damaged, misassembled —Friction—damaged, worn —Check Ball damaged	—Inspect for damage. Replace as required. —Inspect for damage. Replace as required. —Inspect. Service as required.
<b>Low One-Way Clutch Assembly</b> —Not Holding, damaged	—Inspect for damage. Replace as required.

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16 Can be purchased as a separate item.