

## DIAGNOSIS AND TESTING (Continued)

## No Manual 2nd Gear (SHO ONLY)

Possible Component	Reference/Action
<b>217—ELECTRICAL ROUTINE</b>	
<b>Powertrain Control System</b> —Electrical Inputs/Outputs, Vehicle Wiring Harnesses, Powertrain Control Module (PCM) and Shift Solenoids	—Run On-Board Diagnostic. —Refer to Powertrain Control/Emissions Diagnosis Manual <sup>11</sup> for diagnosis. Perform Service Manual Pinpoint Test A using the Transmission Tester (007-00085) as outlined. Service as required. Clear codes. Road Test and rerun On-Board Diagnostic.
<b>317—HYDRAULIC/MECHANICAL ROUTINE</b>	
<b>Shift Linkage/Cable, MLP Sensor</b> —Shift Linkage/Cable, MLP Sensor—damaged, misadjusted	—Inspect for damage. Service as required. Adjust linkage as outlined. After servicing the linkage, verify that the MLP sensor is properly adjusted.
<b>Main Controls</b> —Bolts not tightened to specifications —Gaskets—damaged, off location —Shift Valves, Forward Clutch Control Valve damaged, stuck or misassembled. —Shift Solenoids damaged, stuck	—Retighten bolts to specifications. —Inspect for damage. Replace gaskets. —Inspect for damage. Service as required. —Perform Pinpoint Test A.
<b>Forward Clutch Assembly</b> —Return Spring, Piston, Seals, Friction Elements, Check Ball—stuck, damaged, misassembled	—Inspect for damage. Service as required.
<b>Low Intermediate Servo</b> —Spring, Bore, Piston damaged or missing —Incorrect Servo Apply Rod length	—Inspect for damage. Service as required. —Inspect using Service Manual procedures. Service as required.
<b>Support Assembly—Drive Sprocket</b> —Seals damaged, missing or holes blocked	—Inspect for damage. Service as required.
<b>Low One-Way Clutch Assembly</b> —Not Overrunning, damaged	—Inspect for damage. Service as required.
<b>Low Intermediate Band</b> —Damaged, worn, burnt or misassembled	—Inspect for damage. Service as required.

TD10641A

## Shift Concern: 1-2 Shift

Possible Component	Reference/Action
<b>220—ELECTRICAL ROUTINE</b>	
<b>Powertrain Control System</b> —Electrical Inputs/Outputs, Vehicle Wiring Harnesses, Powertrain Control Module (PCM), Shift Solenoids, MLP, TOT and EPC	—Run On-Board Diagnostic. —Refer to Powertrain Control/Emissions Diagnosis Manual <sup>11</sup> for diagnosis. Perform Service Manual Pinpoint Tests A, B, 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>320—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>Improper Pressures</b> —Intermediate Clutch pressure —Line pressure —EPC pressure	—Check pressure at line, EPC and intermediate clutch taps. Refer to Pressure Chart for specifications. If not OK, check Main Controls.

(Continued)

<sup>11</sup> Can be purchased as a separate item.