

DIAGNOSIS AND TESTING (Continued)

Noise/Vibration — Forward/Reverse (Cont'd)

Possible Component	Reference/Action
<ul style="list-style-type: none"> —Converter components —Fluid level (low) Pump cavitation —Pump Assembly —Engine drive accessories —Cooler Lines grounding out —Flywheel 	—Locate source of disturbance and service as required.
For Noises/Vibrations That Change With Vehicle Speed: <ul style="list-style-type: none"> —Engine Mounts <ul style="list-style-type: none"> —loose or damaged —Driveline concerns <ul style="list-style-type: none"> Halfshaft shudder CV Joints Suspension Modifications <ul style="list-style-type: none"> —Output/Halfshaft Splines worn or damaged 	—Locate source of disturbance and service as required.
Other Noises/Vibrations: <ul style="list-style-type: none"> —Main Controls Valve resonance —Cooler Lines grounding —ABS Brake System —Power Steering Pump 	<ul style="list-style-type: none"> —Locate source of disturbance and service as required. —Refer to Section 06-09 for ABS diagnosis. —Refer to Section 11-02 for Power Steering Pump diagnosis.

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Engine Will Not Crank

Possible Component	Reference/Action
255 — ELECTRICAL ROUTINE	
Powertrain Control System <ul style="list-style-type: none"> —Electrical Inputs/Outputs, Vehicle Wiring Harnesses, Powertrain Control Module (PCM), MLP Sensor 	<ul style="list-style-type: none"> —Run On-Board Diagnostic. —Refer to Powertrain Control/Emissions Diagnosis Manual²⁰ for diagnosis. Perform Service Manual Pinpoint Test D using the MLP Tester (D89T-70010-A) as outlined. Service as required. Clear codes. Road Test and rerun On-Board Diagnostic.
355 — HYDRAULIC/MECHANICAL ROUTINE	
Shift Linkage/Cable, MLP Sensor <ul style="list-style-type: none"> —Damaged or misadjusted 	<ul style="list-style-type: none"> —Inspect and service as required. Adjust linkage as outlined. After servicing linkage, verify that the MLP sensor is properly adjusted. Refer to Transaxle, Assembly.

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No Park Range

Possible Component	Reference/Action
256 — ELECTRICAL ROUTINE	
No Electrical Concerns	
356 — HYDRAULIC/MECHANICAL ROUTINE	
Shift Linkage <ul style="list-style-type: none"> —Damaged or misadjusted 	<ul style="list-style-type: none"> —Inspect and service as required. Adjust linkage as outlined. After servicing linkage, verify that the MLP sensor is properly adjusted. Refer to Transaxle, Assembly.
Park Mechanism <ul style="list-style-type: none"> —Park Brake Pawl, Parking Pawl Return Spring, Park Rod Guide Cup, Parking Pawl Shaft, Parking Pawl Actuating Rod, Manual Lever, Manual Lever Detent Spring—damaged 	—Inspect and service as required.

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²⁰ Can be purchased as a separate item.