

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST D: DIAGNOSTIC TROUBLE CODES: 522 MLP NOT INDICATING PARK FOR TEST; 634 MLP VOLTAGE HIGHER/LOWER THAN EXPECTED

TEST STEP		RESULT	ACTION TO TAKE																							
D1	AXODE (AX4S) ELECTRONIC DIAGNOSTICS																									
	<ul style="list-style-type: none"> The following items must be checked before proceeding: <ul style="list-style-type: none"> Check the PCM for proper function (On-Board Diagnostics). Check vehicle wiring harness for continuity and shorts to ground. Make sure all connectors are engaged properly. Make sure all terminals in connectors are properly seated. Check all connectors for damage, corrosion, water, bent pins and missing or damaged seals. Have items been checked? 	Yes No	GO to D2. PERFORM checks.																							
D2	CHECK HARNESS CONNECTIONS																									
	<ul style="list-style-type: none"> Check that vehicle harness connector is fully engaged on transaxle manual lever position (MLP) sensor connector. Check that vehicle harness connector terminals are fully engaged in connector. Are connector/terminals fully engaged? 	Yes No	GO to D3. SERVICE as required.																							
D3	ADJUST MANUAL LEVER POSITION (MLP) SENSOR																									
	<ul style="list-style-type: none"> Apply the parking brake. Place transaxle in NEUTRAL. Verify manual lever position using Gear Position Sensor Adjuster Tool T91P-70010-A. Is sensor adjusted correctly? 	Yes No	GO to D4. ADJUST sensor as outlined under Transaxle Assembly and REPEAT Self-Test.																							
D4	CHECK OPERATION OF MANUAL LEVER POSITION SENSOR																									
	<ul style="list-style-type: none"> Disconnect vehicle harness from MLP sensor. <p>CAUTION: Do not pry connector. Compress lever and pull out on connector.</p> <ul style="list-style-type: none"> Insert Manual Lever Position Sensor Tester D89T-70010-A or equivalent into the MLP sensor. Plug ohmmeter into MLP tester. Using procedures on tester, verify sensor functions in all positions. <ul style="list-style-type: none"> Check continuity and resistance in all positions. <p>NOTE: For AXODE (AX4S) the second gear position on the tester has the same resistance as the AXODE (AX4S) in DRIVE (second gear SHO only).</p>	Yes No	REFER to Powertrain Control/Emissions Diagnosis Manual ³⁰ for diagnosis of PCM and vehicle wiring harness. REPLACE MLP sensor and RERUN Self-Test.																							
<table border="1"> <thead> <tr> <th rowspan="2">Transaxle Shift</th> <th colspan="2">Resistance (Ohms)</th> </tr> <tr> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>3770</td> <td>4607</td> </tr> <tr> <td>R</td> <td>1304</td> <td>1593</td> </tr> <tr> <td>N</td> <td>660</td> <td>807</td> </tr> <tr> <td>OD</td> <td>361</td> <td>442</td> </tr> <tr> <td>2/D</td> <td>190</td> <td>232</td> </tr> <tr> <td>1</td> <td>78</td> <td>95</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Is the MLP sensor within specifications? 		Transaxle Shift	Resistance (Ohms)		Minimum	Maximum	P	3770	4607	R	1304	1593	N	660	807	OD	361	442	2/D	190	232	1	78	95		
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TD10292B

30 Can be purchased as a separate item.