

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST C: DIAGNOSTIC TROUBLE CODES 628 TORQUE CONVERTER ERROR DETECTED, 652 TORQUE CONVERTER CLUTCH CIRCUIT FAILURE AND 656 CONTINUOUS SLIP ERROR DETECTED

TEST STEP	RESULT	ACTION TO TAKE
C1 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 C2. PERFORM checks.
C2 CHECK HARNESS CONNECTIONS		
<ul style="list-style-type: none"> Check that vehicle harness connector is fully engaged on transaxle connector. Check that vehicle harness connector terminals are fully engaged in connector. Are connector/terminals fully engaged? 	Yes No	GO to C3. SERVICE as required.
C3 TRANSAXLE FUNCTIONAL TEST		
<ul style="list-style-type: none"> Disconnect vehicle harness at transaxle. <p>CAUTION: Do not pry connector. Pull vehicle harness connector.</p> <ul style="list-style-type: none"> Install tester to transaxle connector. Using tests outlined under Transmission Tester Instructions. <ul style="list-style-type: none"> Perform TCC Solenoid Function Test as outlined. <p>NOTE: LED will turn GREEN when solenoid activates and turns OFF when deactivated. LED will turn RED if an activated solenoid/harness is shorted to B+. LED will remain OFF if an activated solenoid/harness is shorted to ground or no continuity (open circuit).</p> <ul style="list-style-type: none"> Does TCC (LED GREEN) activate when tester switch is depressed? 	Yes No	GO to C4. GO to C5.
C4 TRANSAXLE DRIVE TEST		
<ul style="list-style-type: none"> Perform Transaxle Drive Test as outlined. While in second gear depress the TCC switch. Does TCC activate (LED GREEN)? Does engine rpm drop? 	Yes No	REFER to Powertrain Control/Emissions Diagnosis Manual ²⁹ to diagnose PCM and vehicle harness concerns. GO to C5.
C5 CHECK RESISTANCE OF SOLENOID/HARNESS		
<p>NOTE: Refer to AXODE (AX4S) Transmission Tester for terminal locations.</p> <ul style="list-style-type: none"> Set Bench/Drive switch to BENCH mode. Rotate gear select switch to OHMS CHECK mode. Connect ohmmeter negative lead to TCC jack and positive lead to VPWR jack on tester. This is to test TCC. Record resistance. Resistance should be between 0.98-1.6 ohms. Is the resistance within specifications? 	Yes No	GO to C6. Internal harness or solenoid may be damaged. GO to C7.

29 Can be purchased as a separate item.