DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST F: DIAGNOSTIC TROUBLE CODE: 639 INSUFFICIENT INPUT FOR TRANSMISSION SPEED SENSOR (Continued)

TEST STEP		RESULT	ACTION TO TAKE
F2	CHECK HARNESS CONNECTIONS		
	• Check that vehicle harness connector is fully engaged on transaxle TSS connector. • Check that vehicle harness connector terminals are fully engaged in connector. • **Are connectors/terminals fully engaged?**	Yes ▶ No ▶	GO to F3. SERVICE as required.
F3	TRANSAXLE FUNCTIONAL TEST		
	• Disconnect vehicle harness at TSS sensor. **CAUTION: Do not pry on the connector. Pull vehicle harness connector.** • Connect Rotunda Transmission Tester 007-00085 or equivalent onto TSS sensor. • Connect voltmeter positive lead to +TSS and negative lead to -TSS. Set voltmeter to AC. • Perform TSS Function Test. Monitor voltmeter. • **Does voltage increase with an increase in vehicle speed?**	Yes ▶ No ▶	REFER to the Powertrain Control/Emissions Diagnosis Manual[32] to diagnose vehicle harness or PCM concerns. GO to F4.
F4	CHECK RESISTANCE OF TRANSMISSION SPEED SENSOR (TSS)		
	NOTE: Refer to Transmission Tester for terminal locations. • Connect ohmmeter negative lead to +TSS jack and positive lead to -TSS jack on tester. This is to test TSS sensor. • Record resistance. • **Is resistance between 100-200 ohms?**	Yes ▶ No ▶	GO to F5. REPLACE sensor. RERUN TSS Function Test.

32 Can be purchased as a separate item.