DIAGNOSIS AND TESTING (Continued)

Low Oil Level Sensor Test

Tools Required:

- Rotunda Digital Volt-Ohmmeter 007-00001

Connect positive lead of a Rotunda Digital Volt-Ohmmeter 007-00001 or equivalent to sensor terminal and negative lead to sensor housing. With sensor submerged in oil (engine full), meter should read "open." Resistance should be greater than 100,000 ohms. With sensor out of oil (oil drained), resistance should be less than 1000 ohms.

NOTE: Sensor must be horizontal when this test is conducted.

It is best to conduct test with sensor in pan with hot oil to ensure that oil properly drains from sensor. If removed from pan, sensor **must** first be submerged in warm oil to ensure proper positioning of the float before testing. The sensor must be held horizontally during bench testing to ensure that the float remains correctly positioned.

NOTE: The module is located on the instrument panel shake brace.

Pinpoint Test Index

SYMPTOM	PINPOINT TEST
Low Oil Level Indicator Stays On After Starting Engine-Oil Not Low	A
Low Oil Level Indicator Does Not Stay On When Low On Oil	B
Low Oil Level Indicator Blinks Intermittently While Driving	C
Low Coolant Level Indicator Inoperative	D

NOTE: Ignition should be turned OFF for five minutes between checks to be sure that the electronic relay has "reset".

PINPOINT TEST A: LOW OIL LEVEL INDICATOR STAYS ON AFTER STARTING ENGINE — OIL NOT LOW

TEST STEP		RESULT ▶	ACTION TO TAKE
A1	CHECK OIL LEVEL AND RELAY GROUND		
	• Verify oil level is full then check electronic relay ground by disconnecting wire Circuit 258 (W/PK) from sensor and restart engine. • **Does indicator turn off?**	Yes ▶	CHECK sensor resistance. If less than 1000 K ohms, REPLACE sensor. If greater than 1000 K ohms—REPLACE electronic relay.
		No ▶	GO to **A2.**
A2	CHECK OIL SENSOR CIRCUIT		
	• Check wiring circuit between electronic relay and terminal 4 of electronic relay. • **Is wire OK?**	Yes ▶	REPLACE electronic relay.
		No ▶	SERVICE wiring.

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PINPOINT TEST B: LOW OIL LEVEL INDICATOR DOES NOT STAY ON WHEN LOW ON OIL 1.9 LITERS (TWO QUARTS)

TEST STEP		RESULT ▶	ACTION TO TAKE
B1	CHECK ELECTRONIC RELAY		
	• Check electronic relay by disconnecting wire Circuit 258 (W/PK) from terminal 4. Wait approximately five minutes. Then short terminal to ground. Start engine. • **Does indicator stay on?**	Yes ▶	RECONNECT wire. GO to **B2.**
		No ▶	REPLACE electronic relay.
B2	CHECK SENSOR RESISTANCE		
	• Check sensor resistance between sensor terminal and ground. • **Is resistance greater than 1000K ohms?**	Yes ▶	REPLACE sensor.
		No ▶	CHECK wiring or connector to sensor for open circuit.

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