

ACURA P1298: ELECTRICAL LOAD DETECTOR (ELD) CIRCUIT HIGH VOLTAGE

OVERVIEW

Severity	:	Medium
DIY Difficulty Level	:	Intermediate
Repair Cost	:	\$150-\$250
Can I Still Drive?	:	Yes

What Does The Acura P1298 Code Mean?

With the ignition switch ON (II) the ELD output voltage is 4.57 V or more for at least 5 seconds. The execution time is continuous and DTC [P1297](#) is not active.

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot.

What Are The Potential Causes Of The Acura P1298 Code?

- Blown fuse
- Poor connections or loose terminals at the ELD and the PCM
- "Open" circuit between the fuse in the under-dash fuse/relay box and the ELD
- "Open" in the wire between the ELD and ground
- Faulty left side engine compartment wire harness
- PCM may need to be updated with the latest software
- Faulty PCM

How Can You Fix The Acura P1298 Code?

1) Perform PCM reset procedure. See PCM RESET PROCEDURE/CLEARING DIAGNOSTIC TROUBLE CODES under SELF-DIAGNOSTIC SYSTEM. Start engine. Turn headlights on. If DTC P1298 is set, go to next step. If DTC

P1298 is not set, problem is intermittent. System is okay at this time. Check for poor connection (s) or loose wire (s) between PCM 32-pin harness connector and ELD 3-pin harness connector.

2) Turn ignition and headlights off. Disconnect ELD 3-pin connector. See Fig. 10. ELD connector is located in right rear of engine compartment. Turn ignition on. Measure voltage between ground and ELD 3-pin harness connector terminal No. 1 (Black/Yellow wire). If battery voltage is present, go to next step. If battery voltage is not present, repair open in Black/Yellow wire between fuse No. 6 (15-amp) in underdash fuse/relay box and ELD 3-pin harness connector terminal No. 1. See WIRING DIAGRAMS article. Repair as necessary.

3) Turn ignition off. Check continuity between ground and ELD 3-pin harness connector terminal No. 2 (Black wire). If continuity is present, go to next step. If continuity is not present, repair open in Black wire between ground and ELD 3-pin harness connector terminal No. 2.

4) Disconnect PCM 32-pin harness connector. Using fused jumper wire, connect ground and ELD 3-pin harness connector terminal No. 3. Check continuity of Green/Red wire between ground and PCM 32-pin harness connector terminal No. 30. If continuity is present, go to next step. If continuity is not present, repair open in Green/Red wire between PCM 32-pin harness connector terminal No. 30 and ELD 3-pin harness connector terminal No. 3.

5) Reconnect ELD 3-pin harness connector and PCM 32-pin harness connector. Start and idle engine. Measure voltage between PCM 32-pin harness connector terminal No. 30 (Green/Red wire) and PCM 25-pin harness connector terminal No. 20 (Brown/Black wire) on MDX or (Brown/Yellow wire) on 3.2CL and 3.2TL. See WIRING DIAGRAMS article. Repair as necessary. Turn headlights on (high). If voltage drops, substitute known-good PCM, then recheck. If symptom or indication goes away, replace original PCM. If voltage does not drop, replace ELD.

Reference Sources

[2001 Engine Performance Acura Self-Diagnostics](#), MDX, 3.2CL & 3.2TL, page 38. [Acura P1298](#), DTCDECODE.