

NB: Check Engine Light← [NB: Introduction](#)**NB1 CHECK ENGINE LIGHT FAULT**

- If any KOEO On-Demand or Continuous Memory Diagnostic Trouble Codes are present, service before proceeding.

Is CHECK ENGINE light always on?

Yes	No
GO to NB2 .	GO to NB3 .

NB2 CHECK ENGINE LIGHT ALWAYS ON: CHECK CIRCUIT 658 (PK/LG) FOR SHORTS TO GROUND

- Disconnect PCM harness connector.
- Key on, engine off.

Is CHECK ENGINE light on?

Yes	No
REPAIR short to ground in Circuit 658 (PK/LG). RESTORE system. CLEAR DTCs and RETEST.	REPLACE PCM. RESTORE system. CLEAR DTCs and RETEST.

NB3 CHECK ENGINE LIGHT NEVER ON

- Disconnect manifold absolute pressure (MAP) sensor.
- Key on, engine running.

Is CHECK ENGINE light on?

Yes	No
System working OK. RESTORE system. CLEAR DTCs and RETEST.	RECONNECT MAP sensor. GO to NB4 .

NB4 CHECK IGNITION FEED CIRCUIT

- Key on, engine off.
- Measure voltage between powering side of fuse in the IP fuse panel and known good ground.

Is B+ present?

Yes	No
GO to NB5 .	REPAIR open in ignition feed Circuit 640 (R/Y) or ignition switch. RESTORE system. CLEAR DTCs and

RETEST.

NB5 CHECK FUSE

- Remove fuse, inspect.

Is fuse OK?

Yes	No
REINSTALL fuse. GO to NB6 .	REPAIR short to ground to Circuit 640 (R/Y). REPLACE fuse. RESTORE system. CLEAR DTCs and RETEST.

NB6 CHECK CIRCUIT 640 (R/Y) FOR OPEN

- Remove fuse.
- Remove check engine light bulb.
- Measure resistance between nonpowering side of fuse Circuit 640 (R/Y) and powering side of check engine light bulb socket.

Is resistance less than 5 ohms?

Yes	No
Circuit 640 (R/Y) OK. GO to NB7 .	REPAIR open in Circuit 640 (R/Y). REINSTALL bulb. RESTORE system. CLEAR DTCs and RETEST.

NB7 TEST CHECK ENGINE LIGHT BULB

- Bench test bulb by applying B+ to one side and B- to the other.

Does the bulb illuminate?

Yes	No
GO to NB8 .	REPLACE bulb. RESTORE system. CLEAR DTCs and RETEST.

NB8 CHECK CIRCUIT 658 (PK/LG)

- Install breakout box; leave PCM disconnected.
- Measure resistance between bulb socket Circuit 658 (PK/LG) and PCM Test Pin 2.

Is resistance less than 5 ohms?

Yes	No
Circuit 658 (PK/LG) is OK. REPLACE PCM. RESTORE system. CLEAR DTCs and RETEST.	REPAIR open in Circuit 658 (PK/LG). RESTORE system. CLEAR DTCs and RETEST.

