

Repair:

corrosion (install new connector or terminals - clean module pins)

damaged or bent pins - install new terminals/pins

pushed-out pins - install new pins as necessary

Reconnect **all** connectors. Make sure they seat and latch correctly.

Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new PCM. REFER to: Powertrain Control Module (PCM) .
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

REMOVAL AND INSTALLATION > CAMSHAFT POSITION (CMP) SENSOR

Materials

Name	Specification
Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil XO-5W30-QSP	WSS-M2C946-A

REMOVAL AND INSTALLATION > CAMSHAFT POSITION (CMP) SENSOR > REMOVAL



NOTE: Removal steps in this procedure may contain installation details.

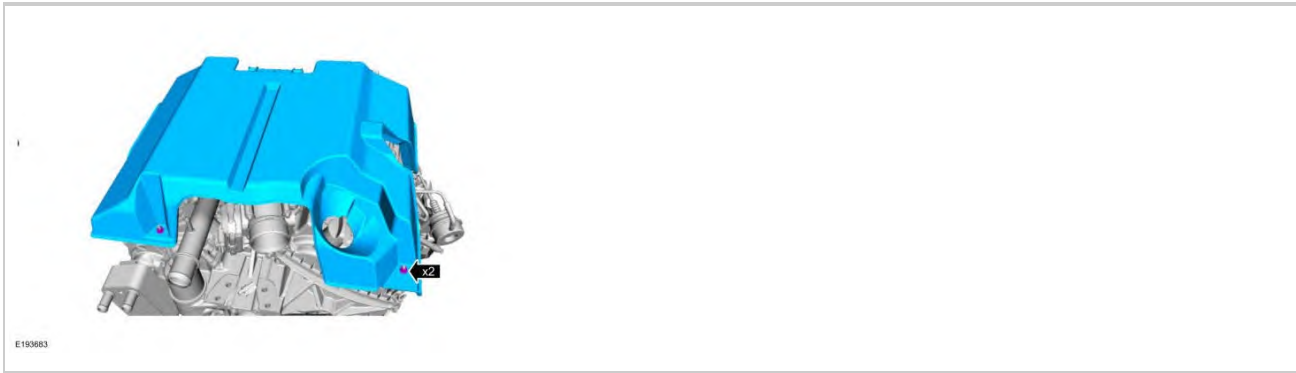
RH (right-hand) Camshaft Position (CMP) Sensors

1.

Remove the nuts and the engine appearance cover.

Torque

: 42 lb.in (4.8 Nm)



2.

Disconnect the exhaust CMP sensor electrical connector, remove the retainer and the CMP sensor.

Material

: Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil / XO-5W30-QSP (WSS-M2C946-A)

Torque

: 97 lb.in (11 Nm)

Disconnect the intake CMP sensor electrical connector, remove the retainer and the CMP sensor.

Material

: Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil / XO-5W30-QSP (WSS-M2C946-A)

Torque

: 97 lb.in (11 Nm)



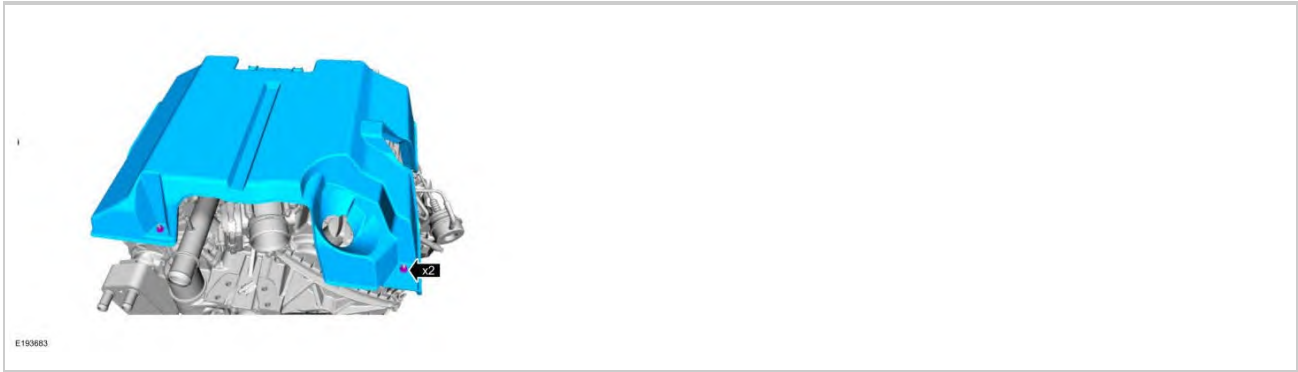
LH (left-hand) Camshaft Position (CMP) Sensors

3.

Remove the nuts and the engine appearance cover.

Torque

: 42 lb.in (4.8 Nm)



4.

Disconnect the intake CMP sensor electrical connector.

Disconnect the exhaust CMP sensor electrical connector.



5.

Remove the retainer and the intake CMP sensor.

Material

: Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil / XO-5W30-QSP
(WSS-M2C946-A)

Torque

: 97 lb.in (11 Nm)

Remove the retainer and the exhaust CMP sensor.

Material

: Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil / XO-5W30-QSP
(WSS-M2C946-A)

Torque

: 97 lb.in (11 Nm)