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2018 Ford EcoSport Service and Repair Manual

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Camshaft Position (CMP) Sensor

303-14A Electronic Engine Controls - 2.7L EcoBoost (238kW/324PS)	2022 F-150
Removal and Installation	Procedure revision date: 01/26/2021

Camshaft Position (CMP) Sensor

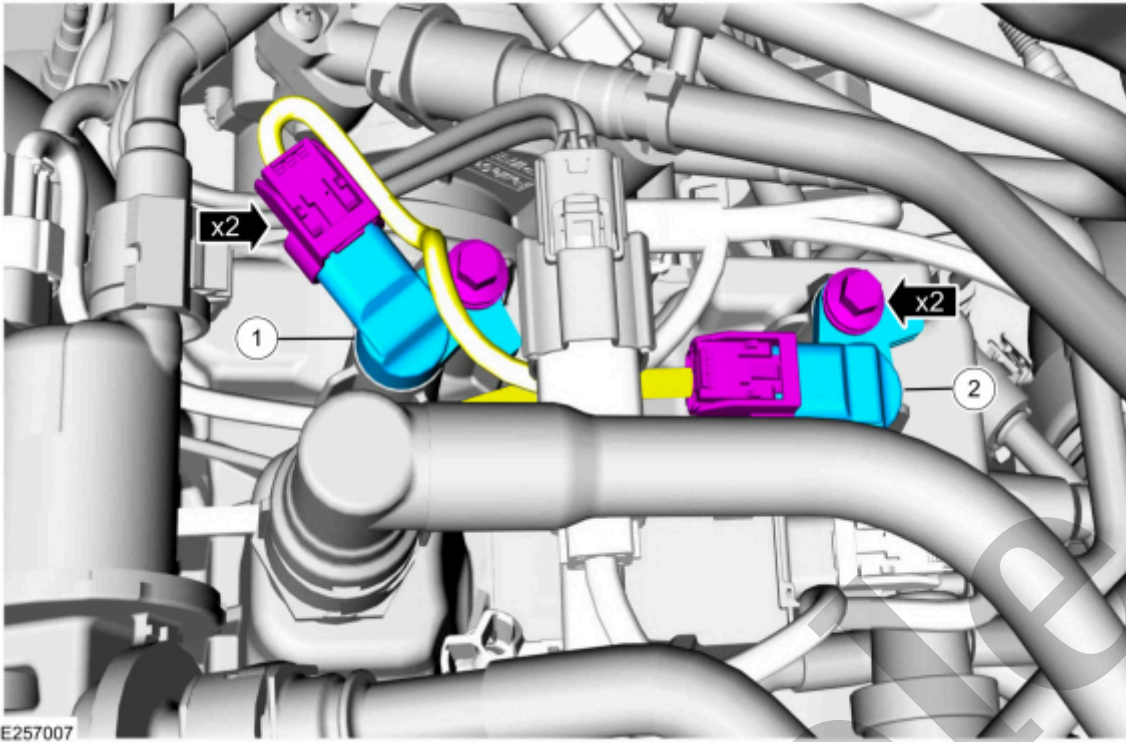
Removal

NOTE

Removal steps in this procedure may contain installation details.

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

- Disconnect the exhaust CMP (camshaft position) sensor electrical connector, remove the retainer and the CMP (camshaft position) sensor.
Material : Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil / XO-5W30-Q1SP (WSS-M2C961-A1)
Torque : 97 lb.in (11 Nm)
- Disconnect the intake CMP (camshaft position) sensor electrical connector, remove the retainer and the CMP (camshaft position) sensor.
Material : Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil / XO-5W30-Q1SP (WSS-M2C961-A1)
Torque : 97 lb.in (11 Nm)



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Installation

1. To install, reverse the removal procedure.
2. Before installation, lubricate the CMP (camshaft position) sensor O-ring seal with clean engine oil.

Material : Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil / XO-5W30-Q1SP (WSS-M2C961-A1)



Catalyst Monitor Sensor

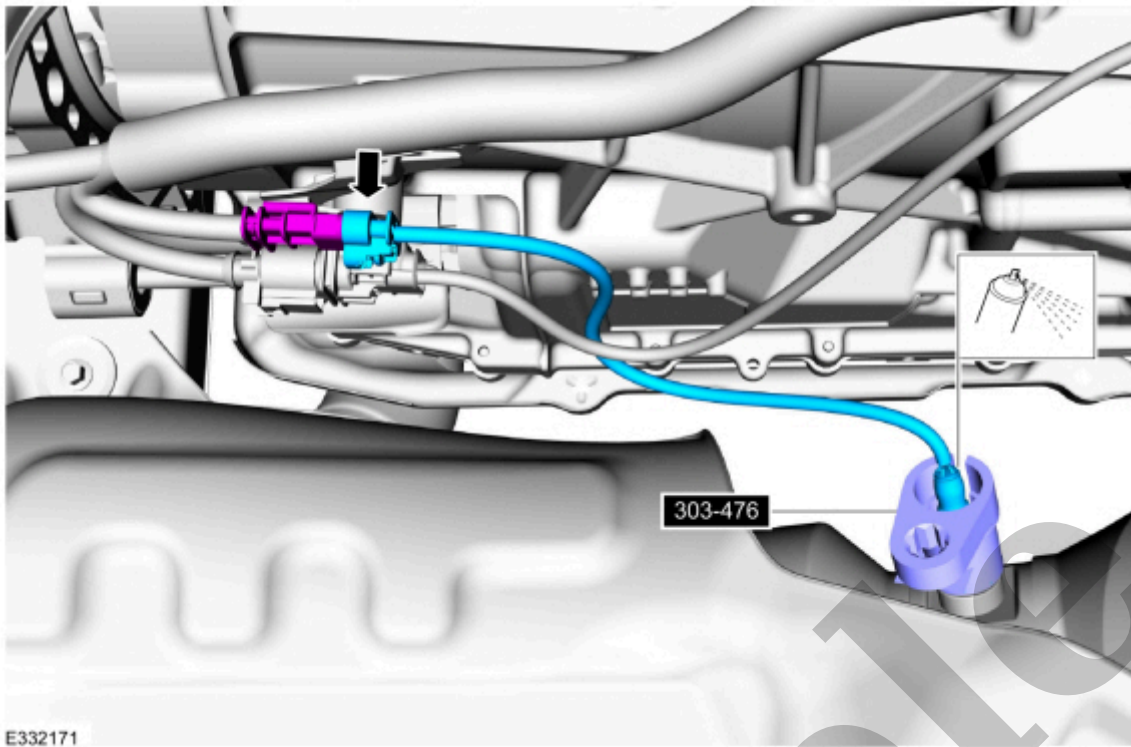
303-14A Electronic Engine Controls - 2.7L EcoBoost (238kW/324PS)	2022 F-150
Removal and Installation	Procedure revision date: 05/28/2020

Catalyst Monitor Sensor

Removal

All sensors

1. With the vehicle in NEUTRAL, position it on a hoist.
Refer to: [Jacking and Lifting - Overview](#)(100-02 Jacking and Lifting, Description and Operation).
2. If equipped, remove the underbody shield.



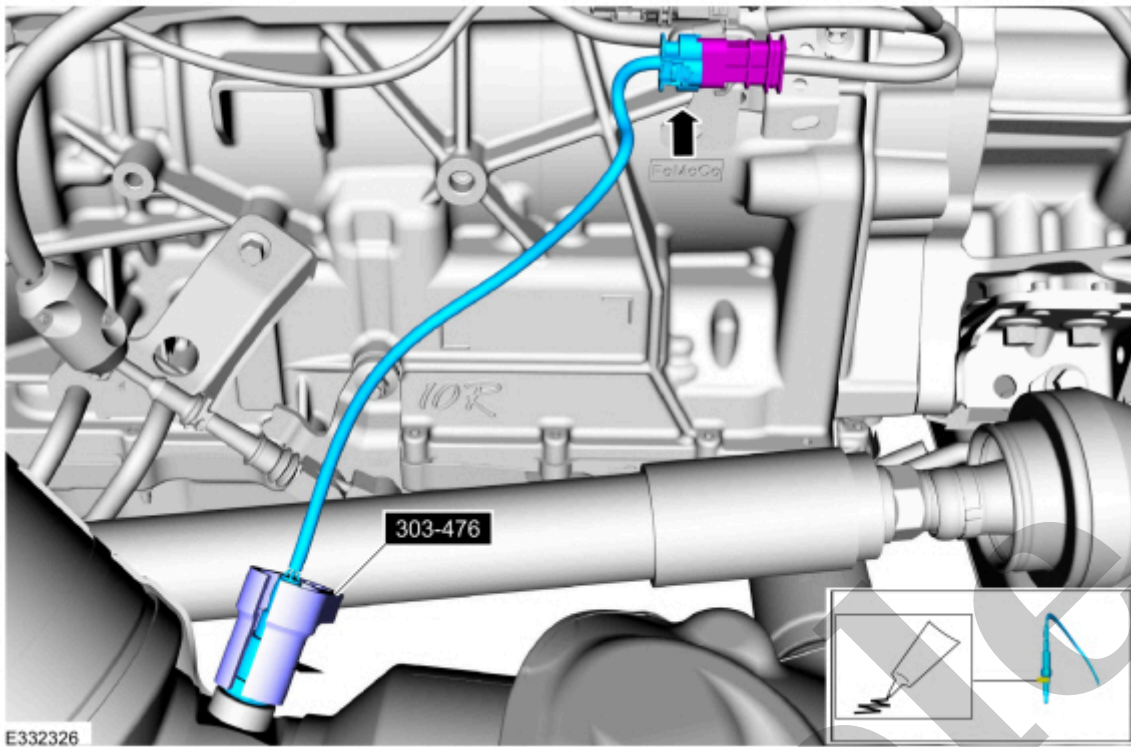
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Catalyst Monitor Bank 2 Sensor 1

4. Disconnect the electrical connector. Apply penetrating oil to sensor, using the special tool remove the Catalyst monitor sensor.

Use Special Service Tool : 303-476 (T94P-9472-A) Socket, Exhaust Gas Oxygen Sensor

Material : Motorcraft® Penetrating and Lock Lubricant / XL-1



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Catalyst Monitor Bank 1 Sensor 1

2. • Apply anti-seize to thread of sensor, using special tool install the Catalyst monitor sensor. Connect the electrical connector.

Use Special Service Tool : 303-476 (T94P-9472-A) Socket, Exhaust Gas Oxygen Sensor

Material : Motorcraft® High Temperature Nickel Anti-Seize Lubricant / XL-2

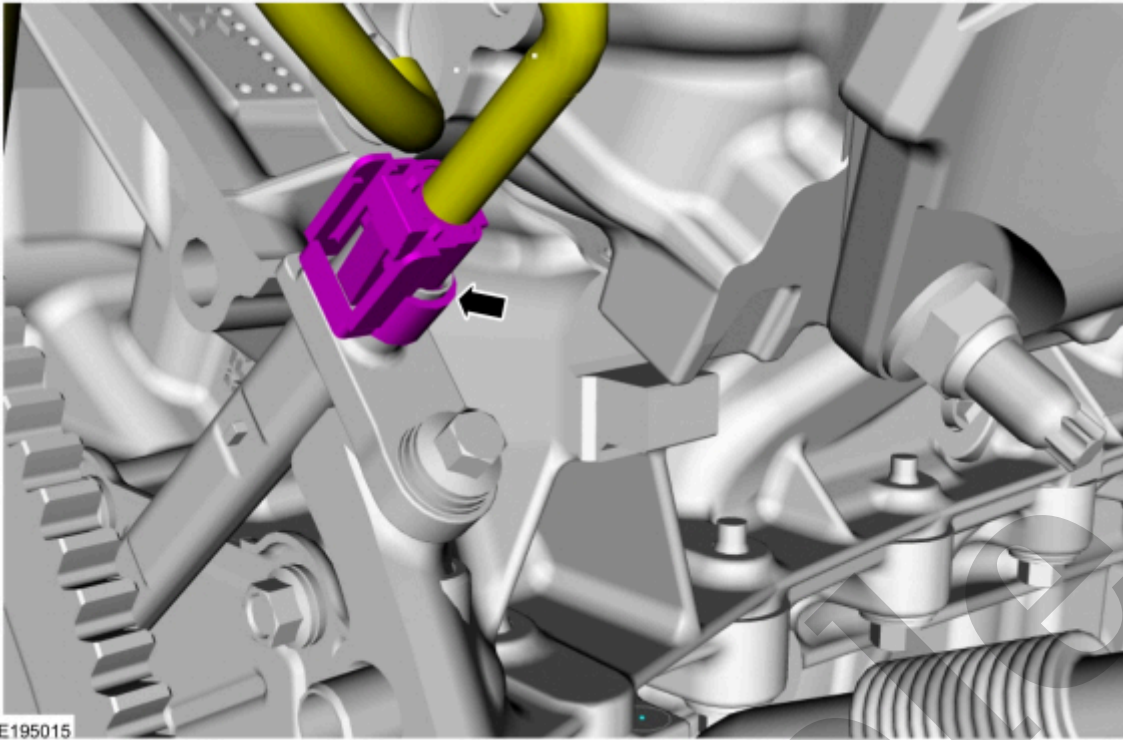
Torque : 35 lb.ft (48 Nm)

- Connect the electrical connector.

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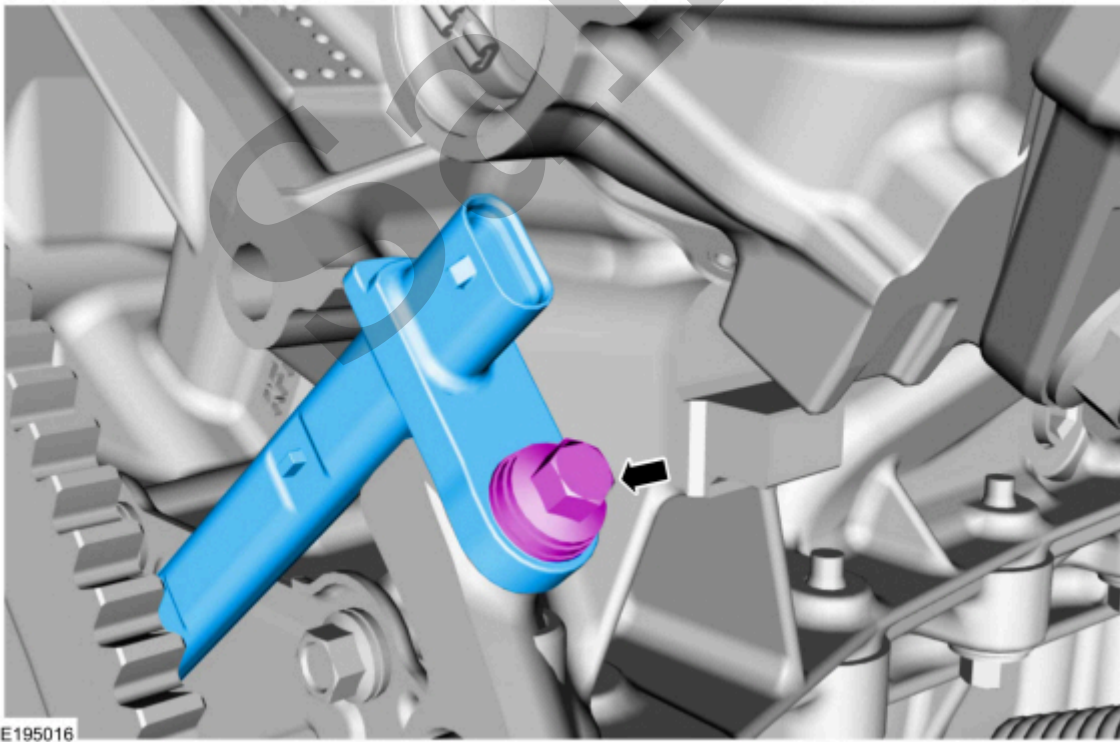
Sample



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3. Remove the retainer and CKP (crankshaft position) sensor.

Torque : 89 lb.in (10 Nm)



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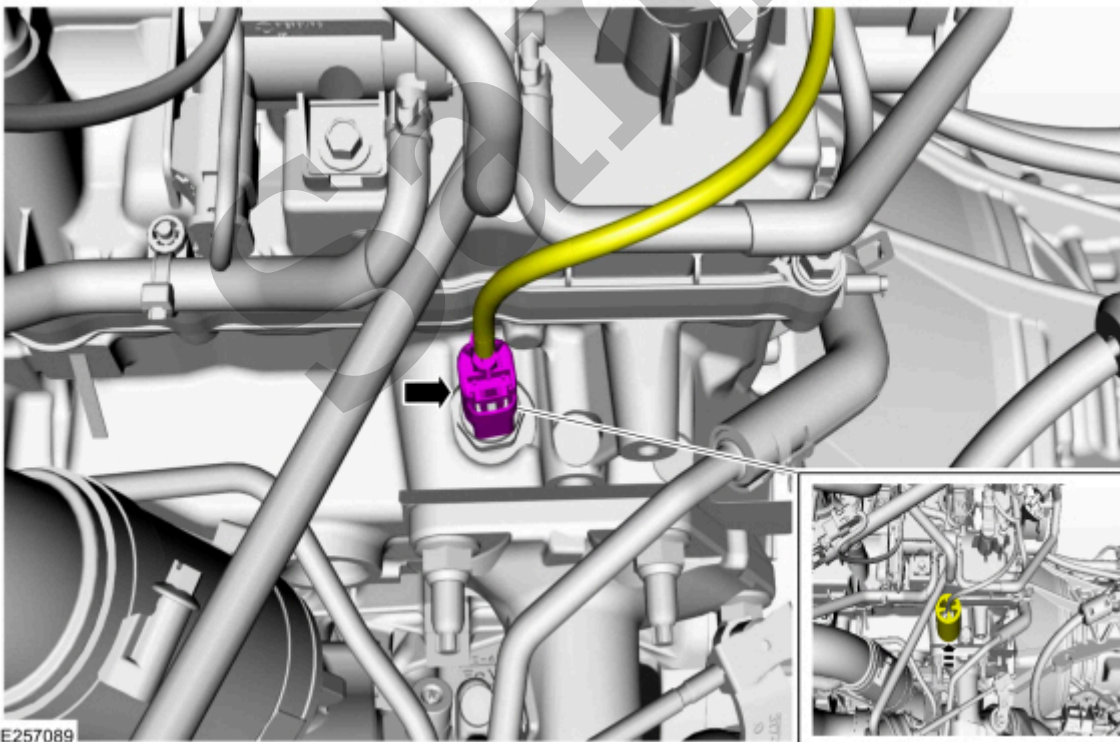
Cylinder Head Temperature 2 (CHT2) Sensor

303-14A Electronic Engine Controls - 2.7L EcoBoost (238kW/324PS)	2022 F-150
Removal and Installation	Procedure revision date: 01/26/2021

Cylinder Head Temperature 2 (CHT2) Sensor

Removal

1. Disconnect the CHT2 sensor electrical connector.



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Engine Coolant Temperature (ECT) Sensor

303-14A Electronic Engine Controls - 2.7L EcoBoost (238kW/324PS)	2022 F-150
Removal and Installation	Procedure revision date: 10/13/2014

Engine Coolant Temperature (ECT) Sensor

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Remove the coolant outlet connector.

Refer to: [Coolant Outlet Connector](#)(303-03A Engine Cooling - 2.7L EcoBoost (238kW/324PS), Removal and Installation).

2. Disconnect the ECT (engine coolant temperature) sensor electrical connector.