

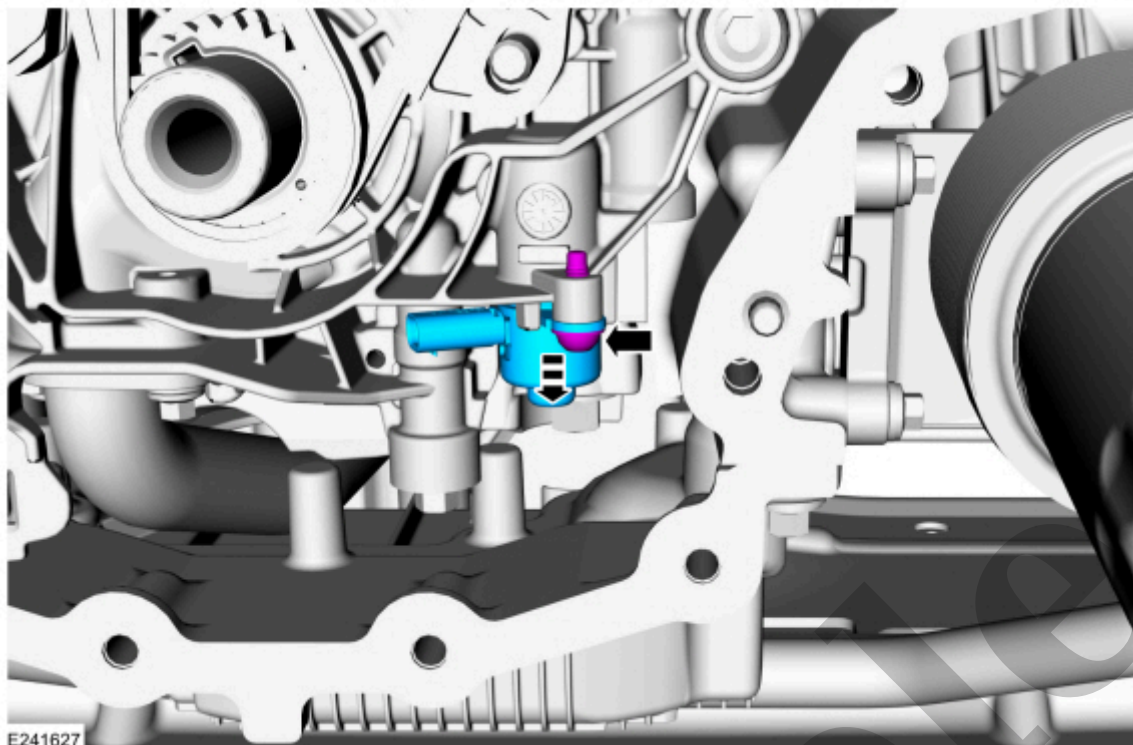
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2020 Ford F-550 Super Duty Service and Repair Manual

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Sample



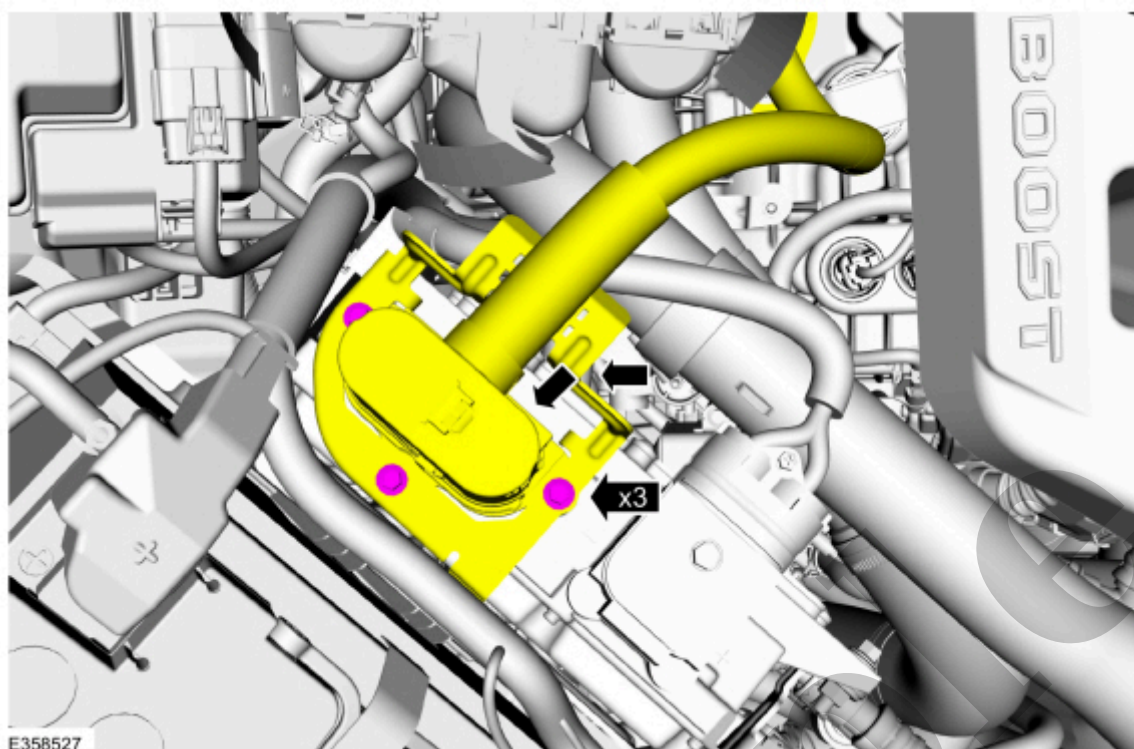
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Installation

1. To install, reverse the removal procedure.

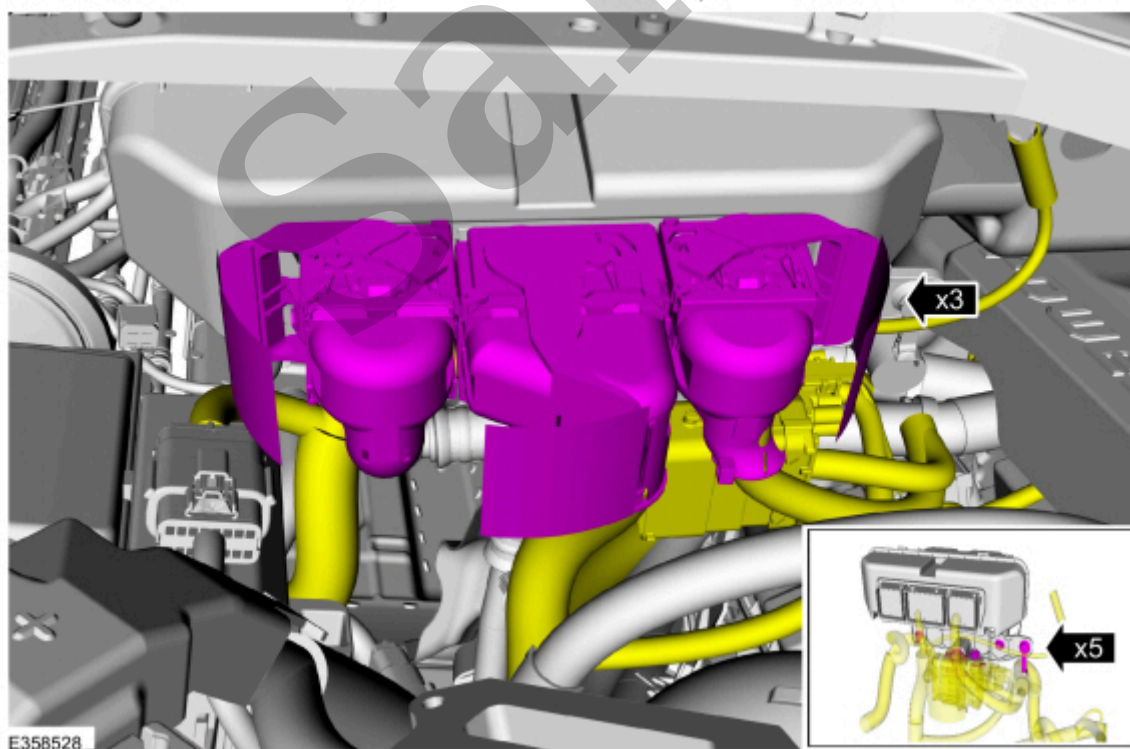
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Torque : 93 lb.in (10.5 Nm)



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5. Disconnect the PCM (powertrain control module) electrical connectors. Release the harness retainers from the lower PCM (powertrain control module) cover to position aside the harnesses.



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Installation

1. To install, reverse the removal procedure.

2. **NOTE**

This step is only necessary when installing a new component.

Upload the module information from the diagnostic tool using the Programmable Modules Installation routine.

Refer to: [Module Programming](#)(418-01A Module Configuration, General Procedures).

3. **NOTE**

This step is only necessary when installing a new component.

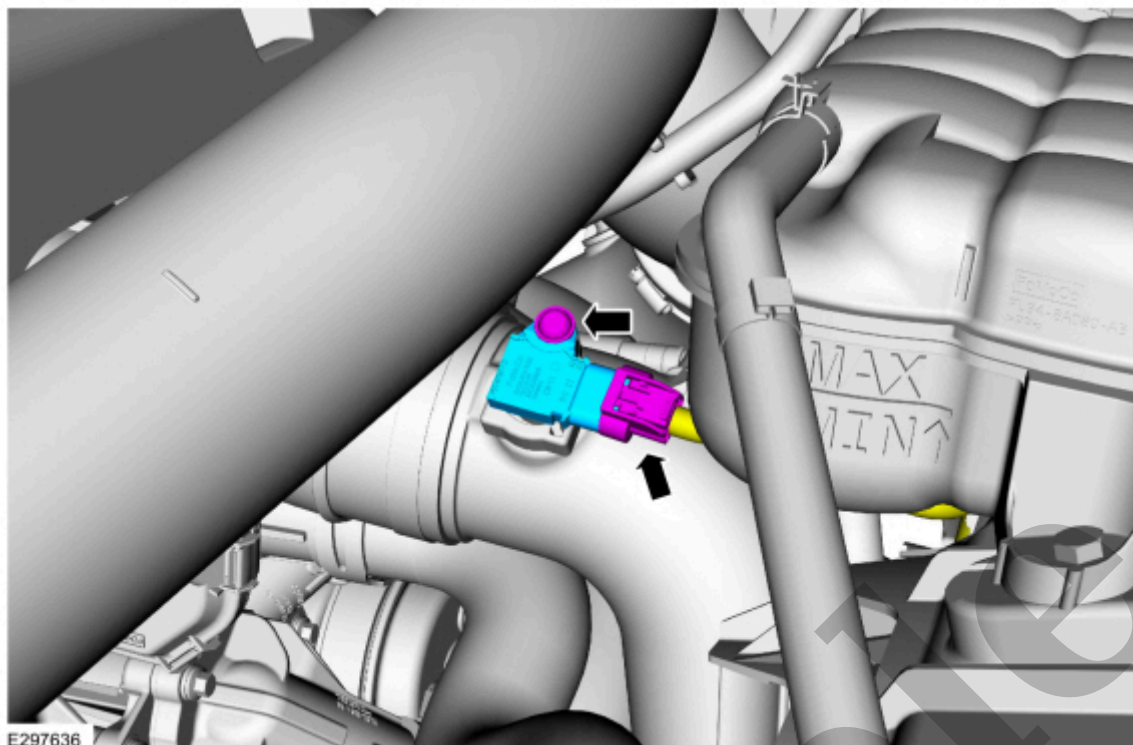
Carry out the Parameter Reset procedure.

Refer to: [Anti-Theft Key Programming - Scan Tool](#)(419-01B Passive Anti-Theft System (PATS) - Vehicles With: Keyed Ignition, General Procedures).

4. **NOTE**

This step is only necessary when installing a new component.

Using the scan tool, perform the Misfire Monitor Neutral Profile Correction procedure, following the on-screen instructions.

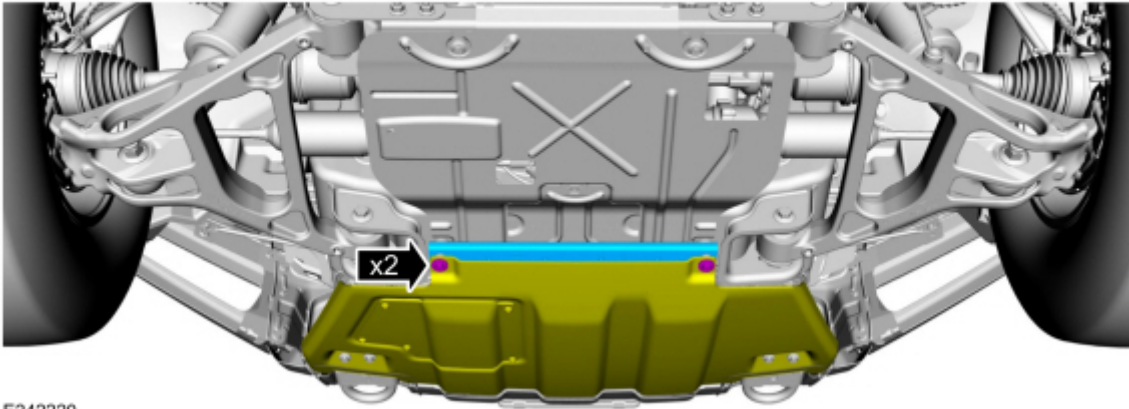


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Installation

1. To install, reverse the removal procedure.

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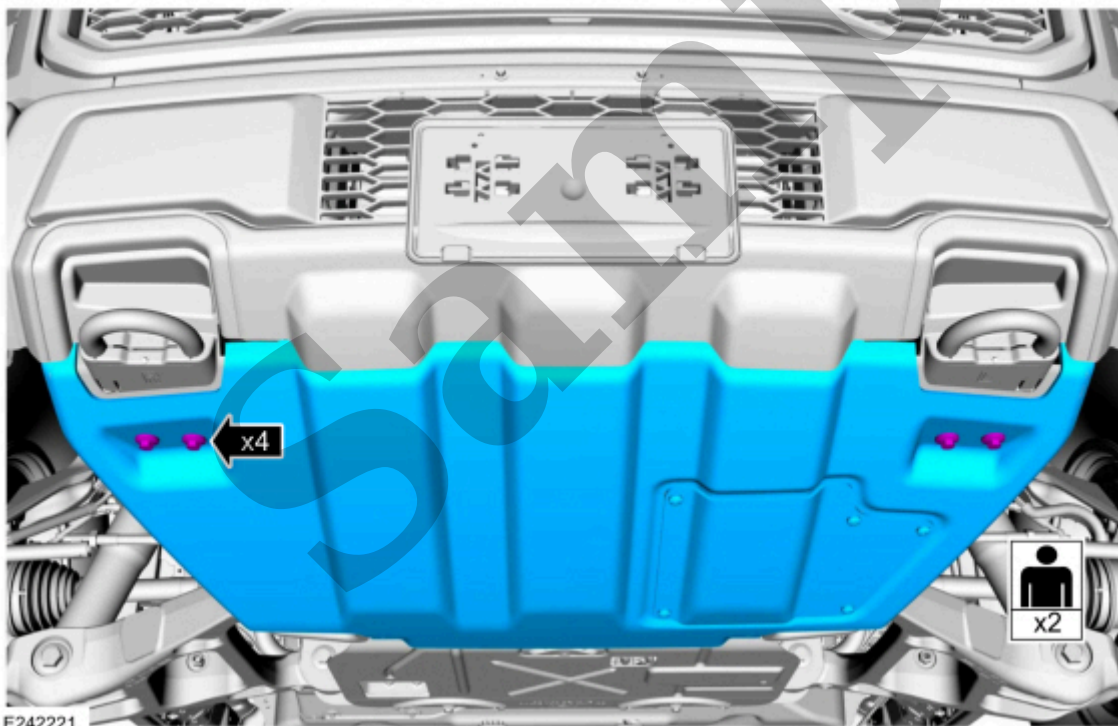


E242220

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3. If equipped, remove the bolts and the front underbody skid plate.

Torque : 35 lb.ft (48 Nm)



E242221

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4. Disconnect the CAC (charge air cooler) to throttle body inlet pipe. Disconnect the quick connect coupling at the turbocharger bypass valve.

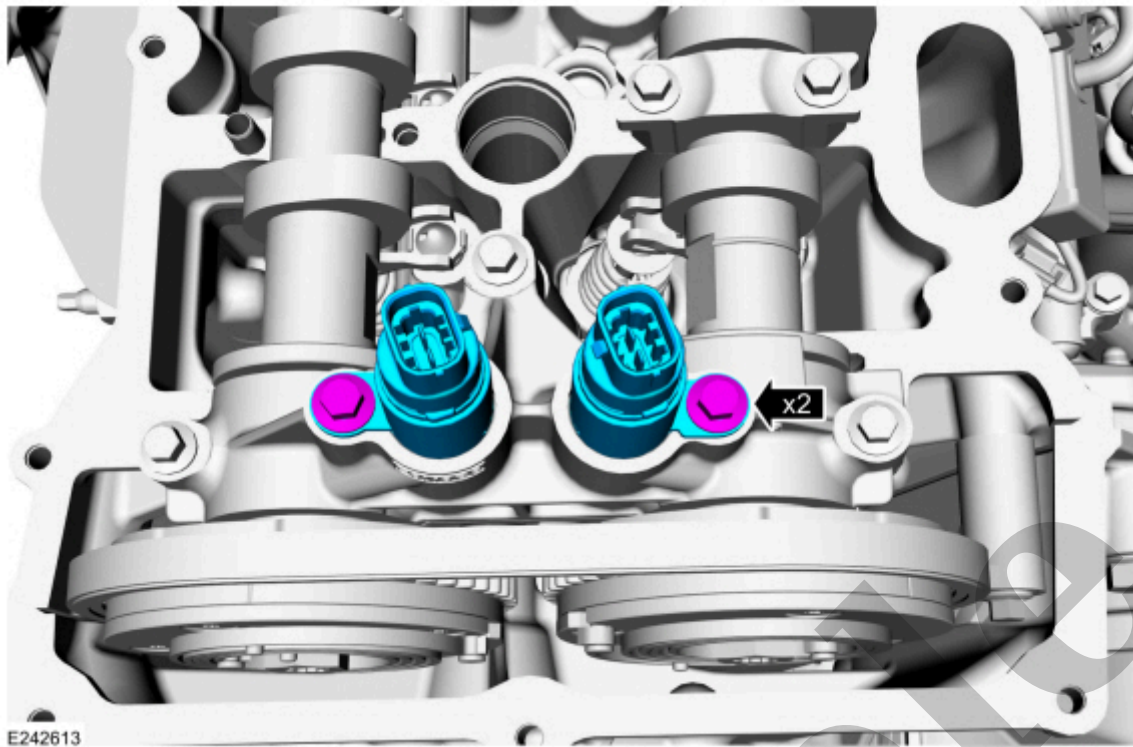
Refer to: [Quick Release Coupling](#)(310-00A Fuel System - General Information - 2.7L EcoBoost (238kW/324PS), General Procedures).

Installation

1. To install, reverse the removal procedure.

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Sample



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3. Remove the LH (left-hand) valve cover.

Refer to: [Valve Cover LH](#)(303-01A Engine - 2.7L EcoBoost (238kW/324PS), Removal and Installation).

4. Remove the bolts and the LH (left-hand) VCT (variable camshaft timing) oil control solenoids.

Torque : 89 lb.in (10 Nm)

Specifications

303-14E Electronic Engine Controls - 3.5L V6 PowerBoost (CN)	2022 F-150
Specifications	Procedure revision date: 12/2/2021

Specifications

Reference Value Symptom Chart

NOTE

The Reference Value Symptom Chart provides guidance in selecting the appropriate parameter identification (PID) or measured signal related to the fault area. Select a symptom from the symptom chart along with the category number and go to the PID/Measured Signal Chart. For multiple symptoms, select the symptom that is the most evident.

Symptom Occurs During	Symptom	Category Number
Startup:	No start/Normal crank	1
	Hard start/Long crank	2
	Stall after start	3
	Diesels/Runs on	4
Idle:	MIL	5
	Stalls/Quits	6
	Slow	7
	Slow return	8