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2018 Ford E-350 Super Duty Service and Repair Manual

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Intake Air Temperature (IAT) Sensor

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

Intake Air Temperature (IAT) Sensor

Removal

NOTE

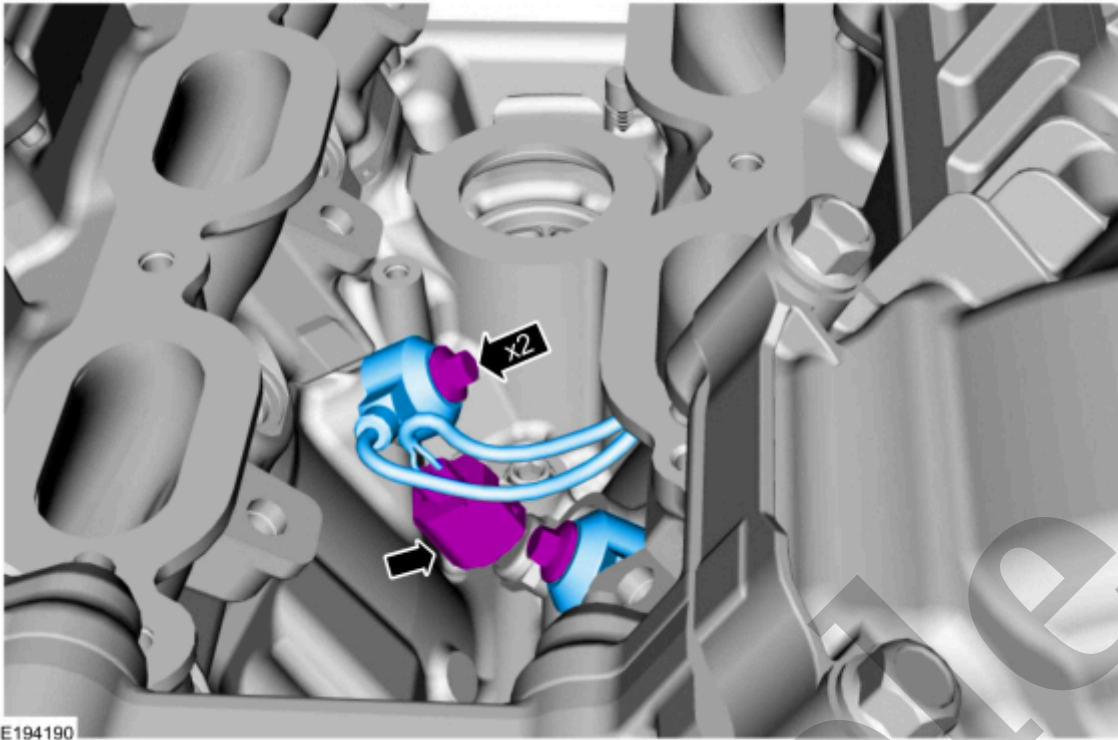
Removal steps in this procedure may contain installation details.

1. Disconnect the IAT (intake air temperature) sensor electrical connector.

1. To install, reverse the removal procedure.

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Sample

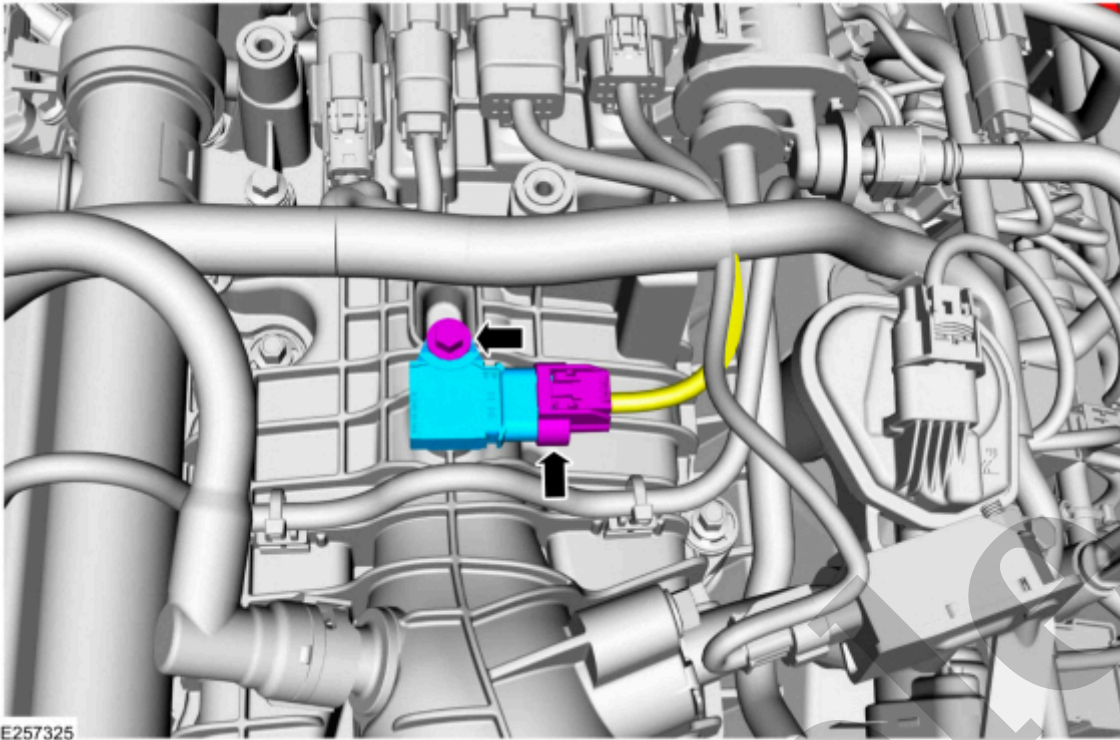


[Click here to learn about symbols, color coding, and icons used in this manual.](#)

Installation

1. To install, reverse the removal procedure.

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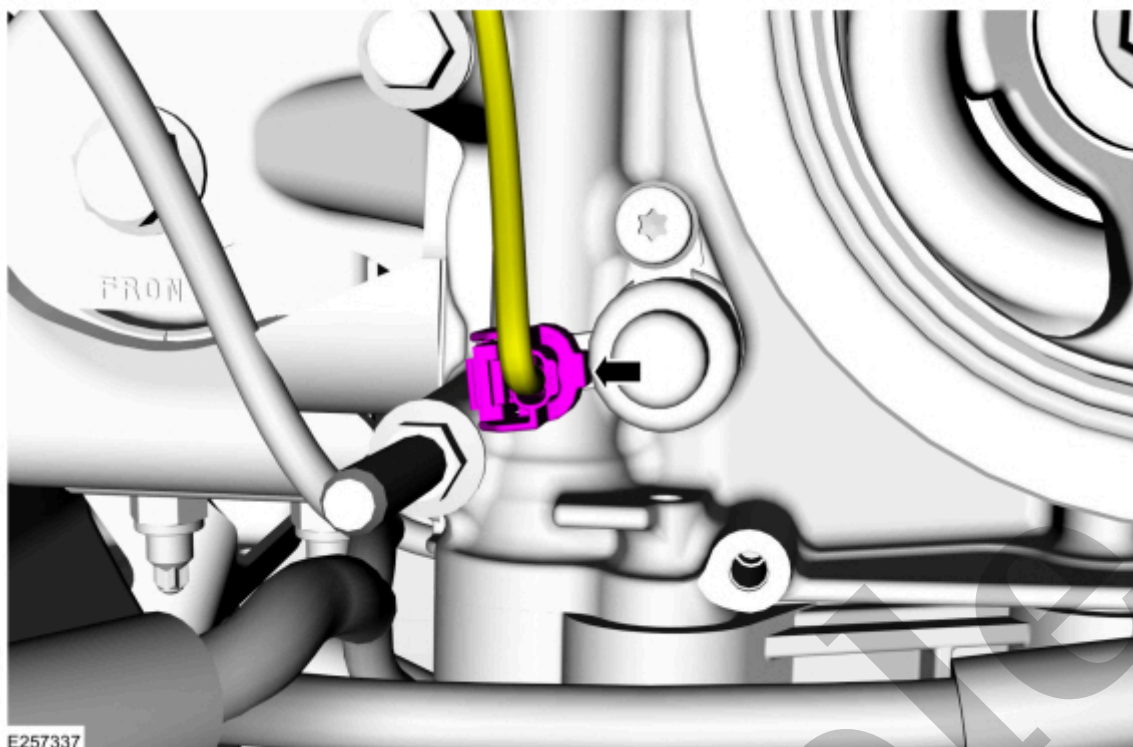


[Click here to learn about symbols, color coding, and icons used in this manual.](#)

Installation

1. To install, reverse the removal procedure.

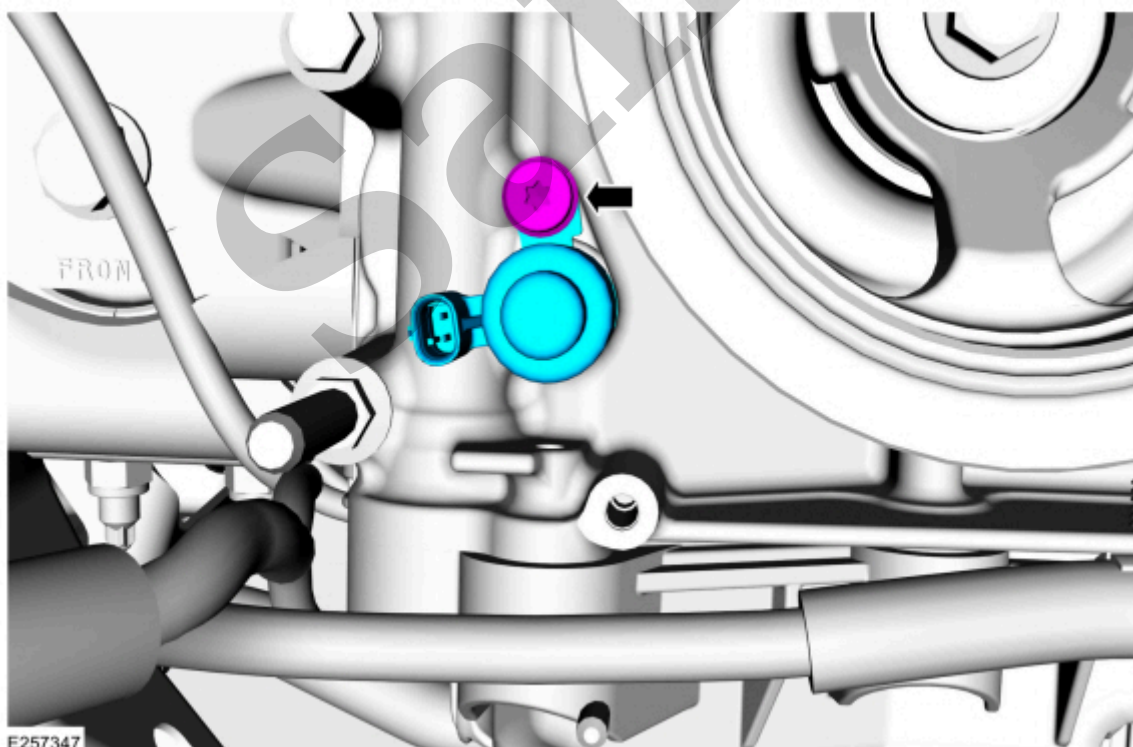
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3. Remove the retainer and the oil pressure control solenoid.

Torque : 89 lb.in (10 Nm)



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Powertrain Control Module (PCM)

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

Powertrain Control Module (PCM)

Removal

NOTE

Removal steps in this procedure may contain installation details.

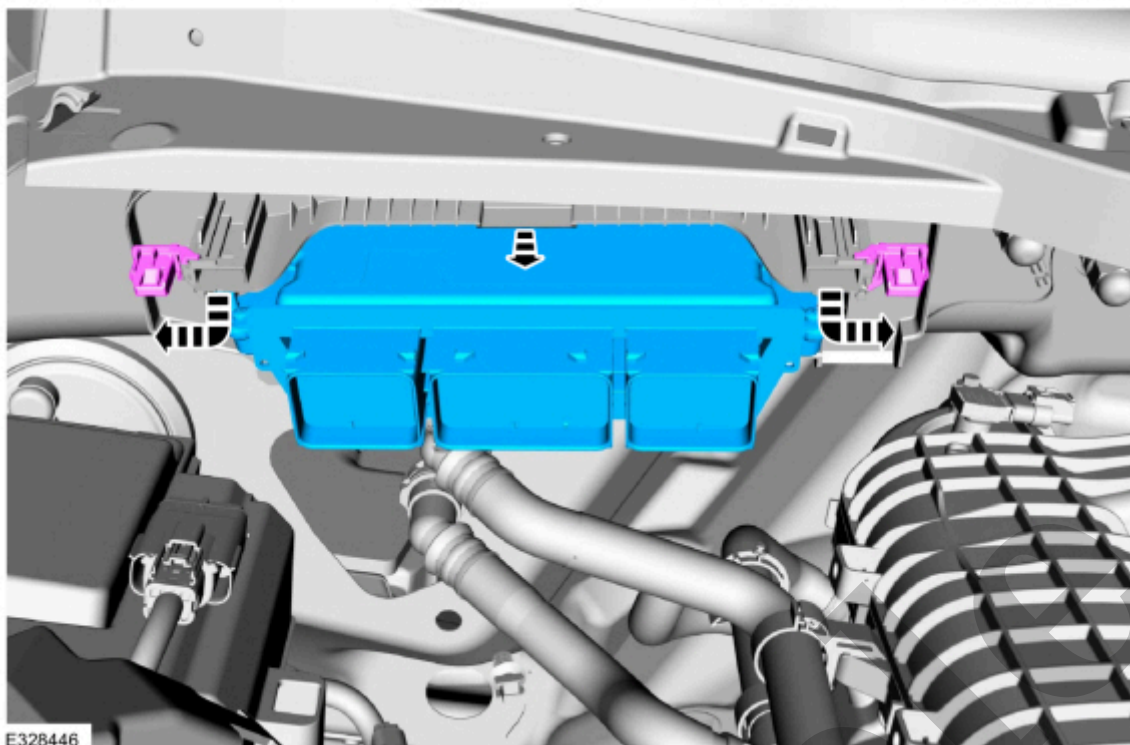
1. **NOTE**

This step is only necessary when installing a new component.

Download the module information to the diagnostic tool using the Programmable Modules Installation routine.

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

2. 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.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

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).



Turbocharger Boost Pressure (TCBP) and Charger Air Cooler Temperature (CACT) Sensor

303-14A Electronic Engine Controls - 2.7L EcoBoost (238kW/324PS)	2022 F-150
Removal and Installation	Procedure revision date: 07/11/2017

Turbocharger Boost Pressure (TCBP) and Charger Air Cooler Temperature (CACT) Sensor

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Disconnect the electrical connector, remove the retainer and the turbocharger boost pressure (TCBP) and charge air cooler temperature (CACT) sensor.

Torque : 27 lb.in (3 Nm)



Turbocharger Bypass Valve

303-14A Electronic Engine Controls - 2.7L EcoBoost (238kW/324PS)	2022 F-150
Removal and Installation	Procedure revision date: 06/11/2019

Turbocharger Bypass Valve

Removal

NOTE

Whenever turbocharger air intake system components are removed, always cover open ports to protect from debris. It is important that no foreign material enter the system. The turbocharger compressor vanes are susceptible to damage from even small particles. All components should be inspected and cleaned, if necessary, prior to installation or reassembly.

NOTE

Removal steps in this procedure may contain installation details.

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. 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).