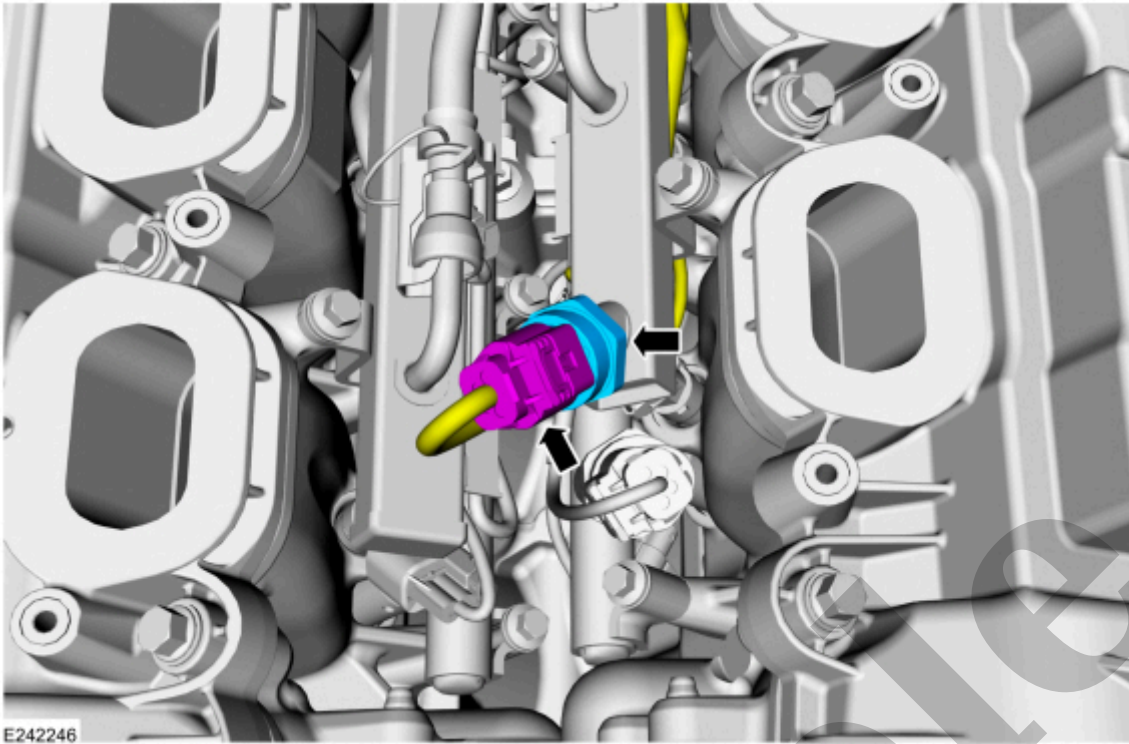


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## 2020 Ford Fusion Service and Repair Manual

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## Installation

### NOTE

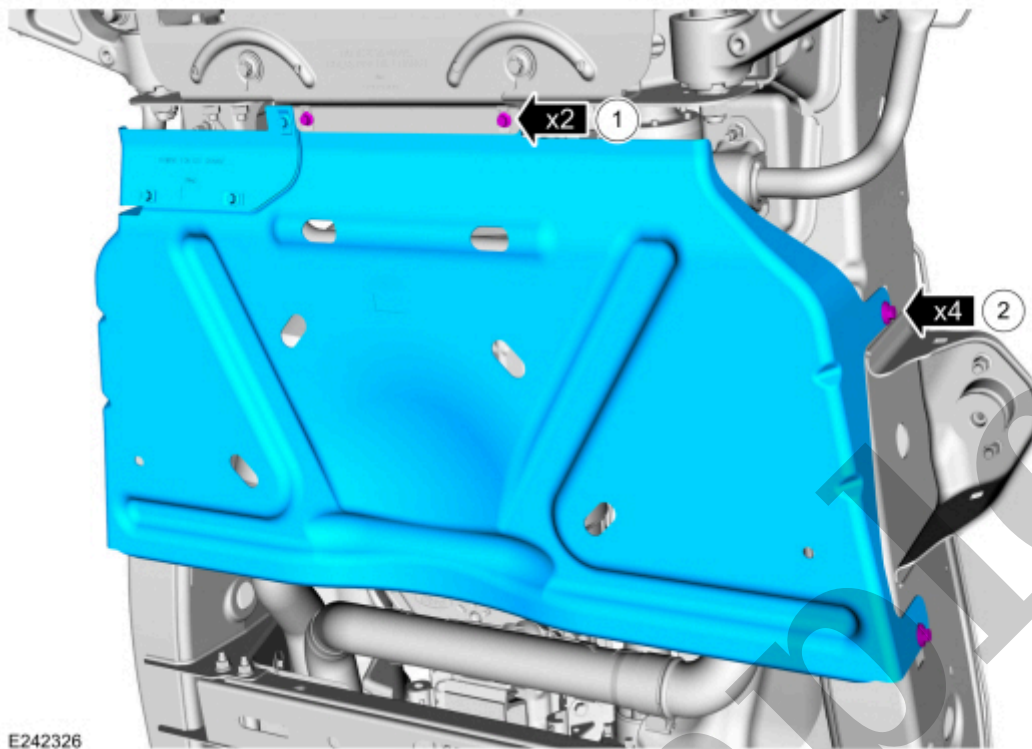
Lubricate the threaded area of the new FRP (fuel rail pressure) temperature sensor with clean engine oil prior to installation.

1. To install, reverse the removal procedure.

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3. If equipped, remove the underbody skid plate.

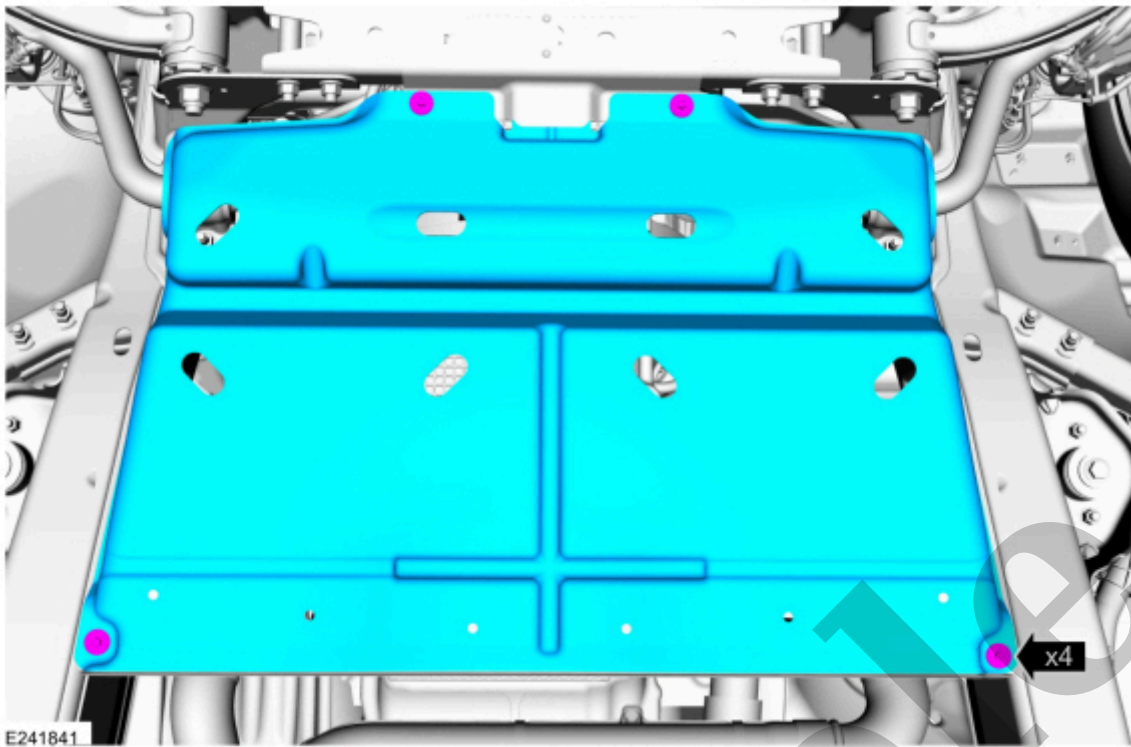


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4. Disconnect the electrical connector and harness retainer. Apply penetrating oil to sensor, using the special tool remove the HO2S (heated oxygen sensor) .

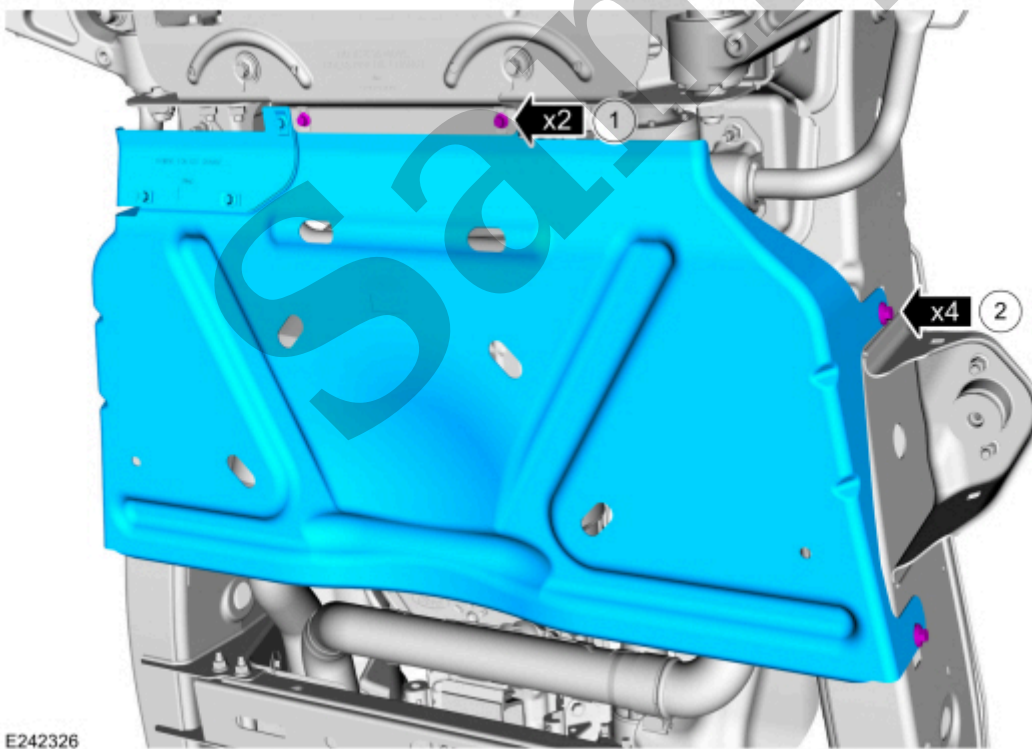
**Use Special Service Tool** : 303-476 (T94P-9472-A) Socket, Exhaust Gas Oxygen Sensor

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

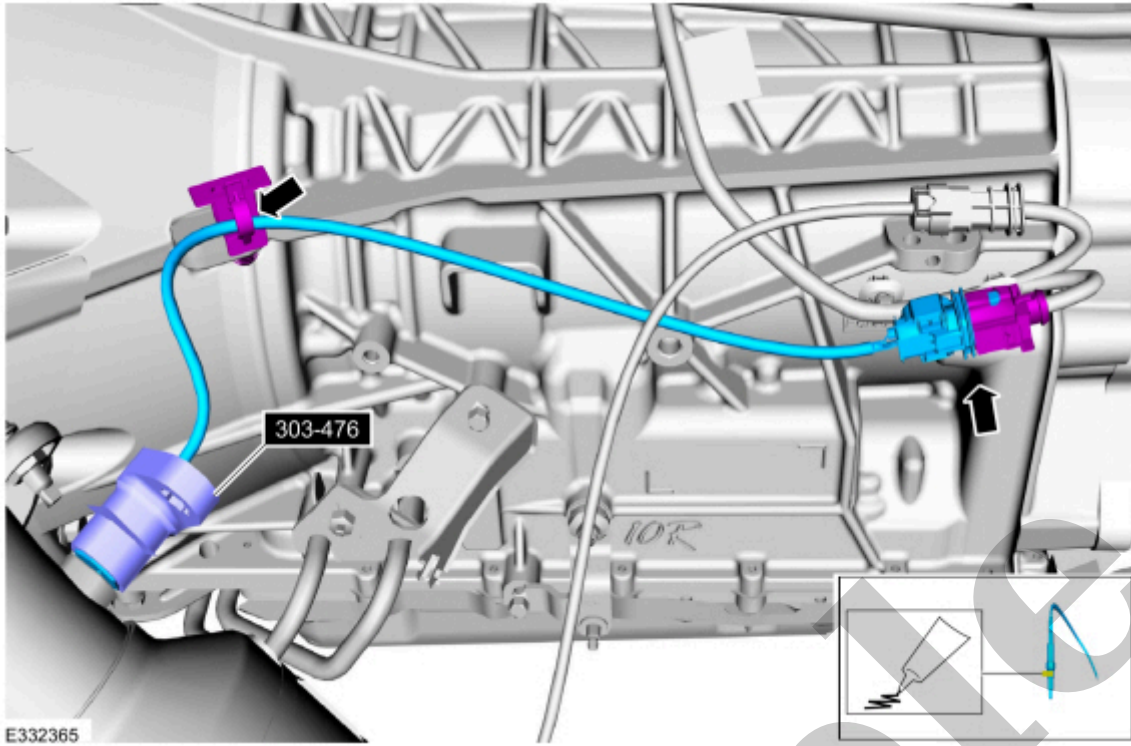


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7. If equipped, remove the underbody skid plate.



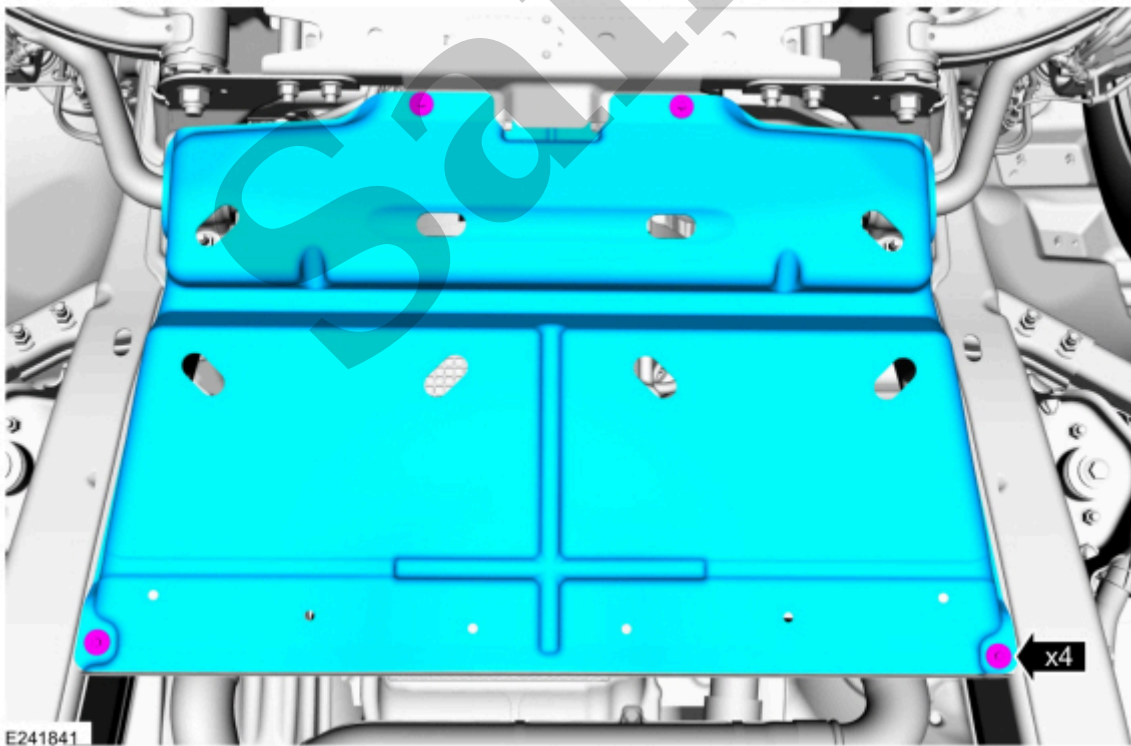
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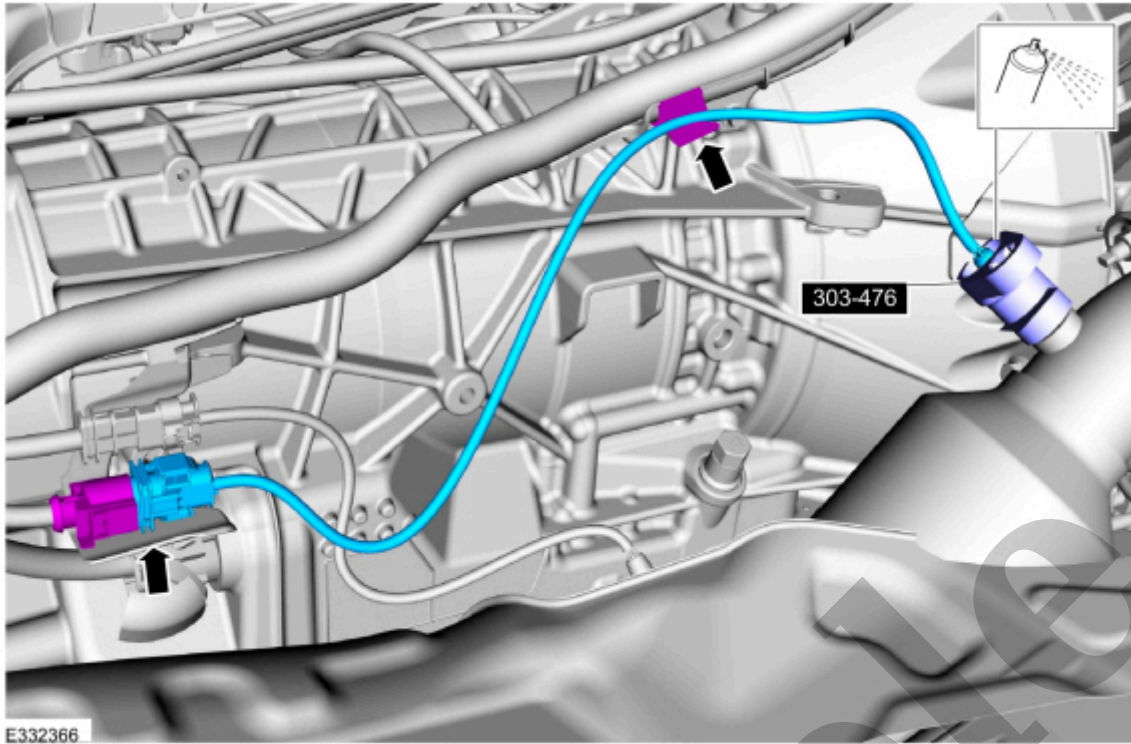
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2. If equipped, install the underbody shield.

**Torque** : 71 lb.in (8 Nm)



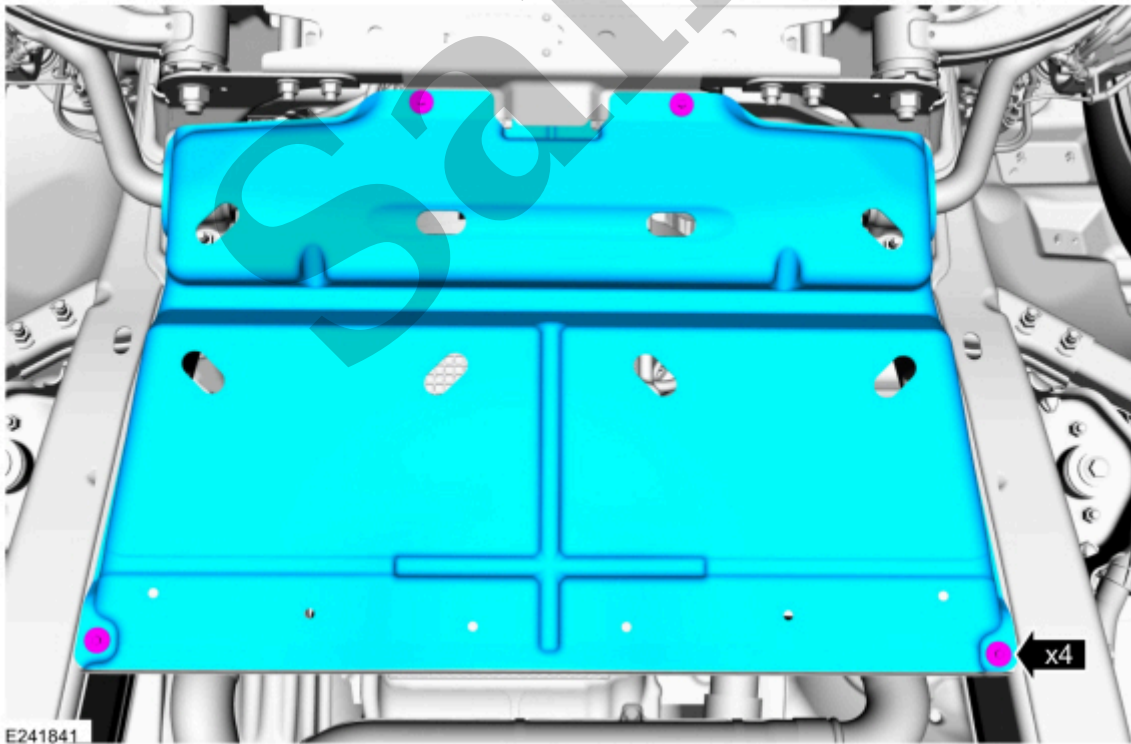
[Click here to learn about symbols, color coding, and icons used in this manual.](#)



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

5. If equipped, install the underbody shield.

**Torque** : 71 lb.in (8 Nm)



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## Intake Air Temperature (IAT) Sensor

<b>303-14E Electronic Engine Controls - 3.5L V6 PowerBoost (CN)</b>	<b>2022 F-150</b>
<b>Removal and Installation</b>	<b>Procedure revision date: 05/28/2020</b>

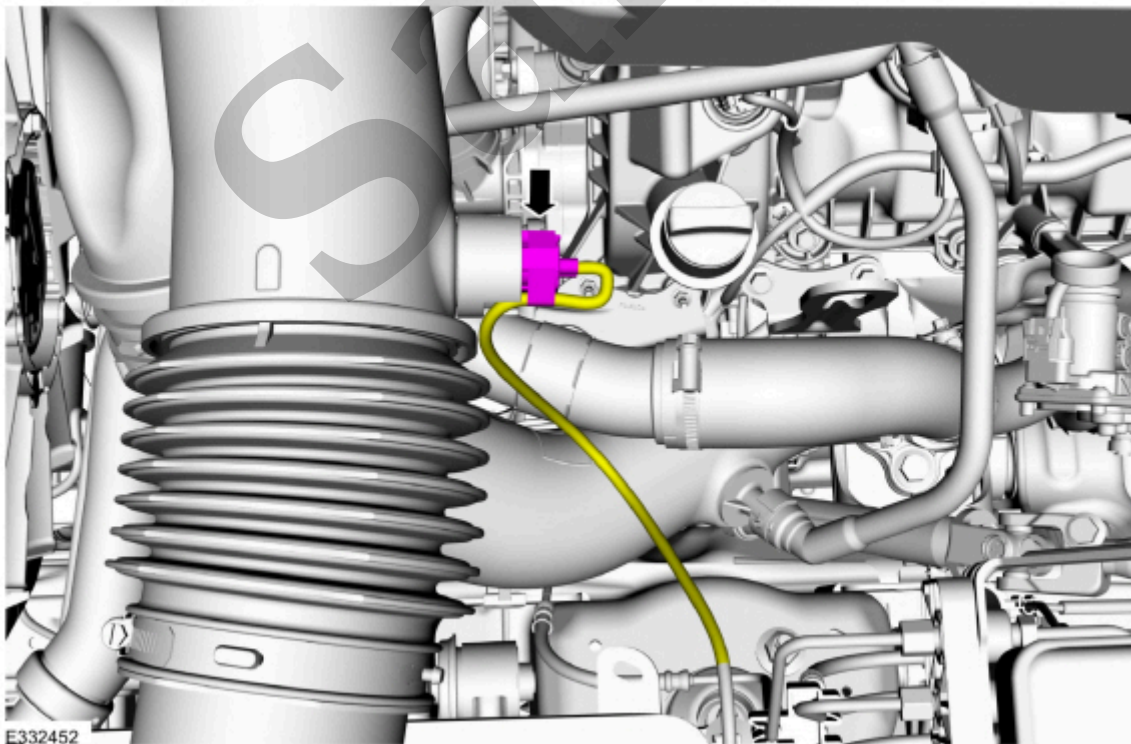
### Intake Air Temperature (IAT) Sensor

#### Removal

#### NOTE

Removal steps in this procedure may contain installation details.

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



E332452



## Knock Sensor (KS)

<b>303-14E Electronic Engine Controls - 3.5L V6 PowerBoost (CN)</b>	<b>2022 F-150</b>
<b>Removal and Installation</b>	<b>Procedure revision date: 05/5/2022</b>

### Knock Sensor (KS)

#### Removal

##### NOTE

Removal steps in this procedure may contain installation details.

1. Remove the direct injection fuel rail LH (left-hand) and RH (right-hand) side.

Refer to: [Direct Injection Fuel Rail LH](#)(303-04C Fuel Charging and Controls - 3.5L EcoBoost (BM), Removal and Installation).

Refer to: [Direct Injection Fuel Rail RH](#)(303-04C Fuel Charging and Controls - 3.5L EcoBoost (BM), Removal and Installation).

2. Disconnect the KS (knock sensor) electrical connector.



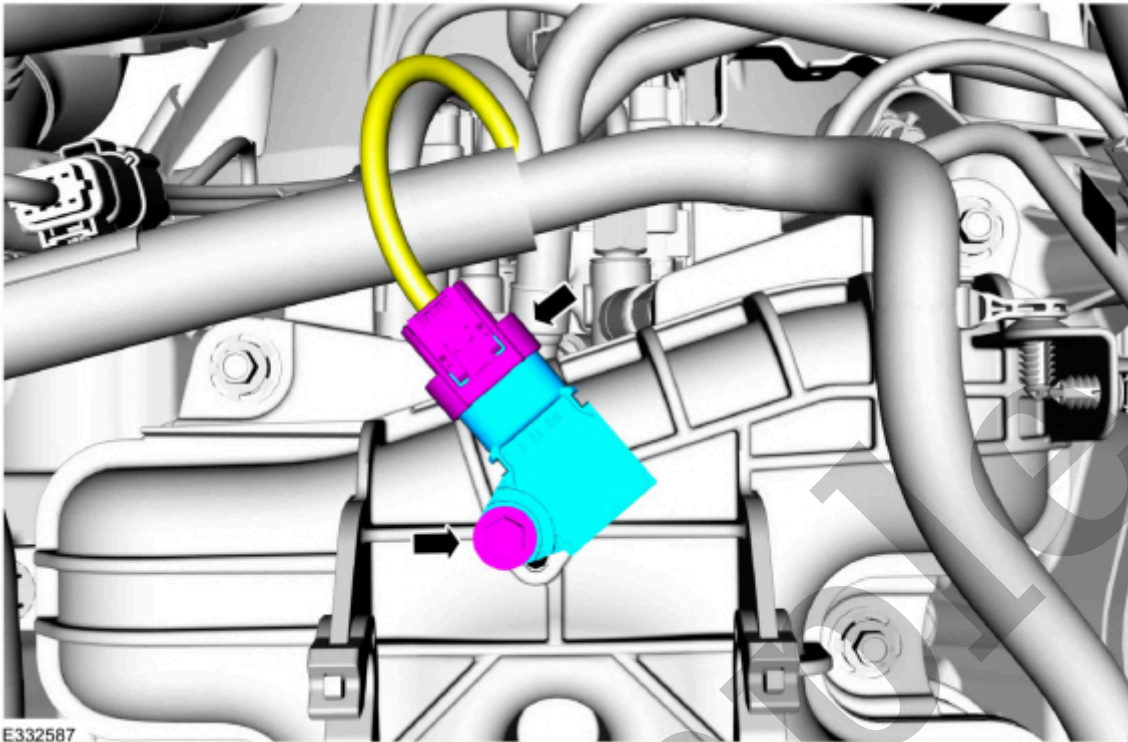
## Installation

1. To install, reverse the removal procedure.

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Sample

Remove the bolt and the MAPT (manifold absolute pressure and temperature) sensor



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## Installation

### 1. NOTE

Lubricate the O-ring seal with clean engine oil.

- Install the MAPT (manifold absolute pressure and temperature) sensor and the bolt.  
***Torque*** : 27 lb.in (3 Nm)
- Connect the MAPT (manifold absolute pressure and temperature) electrical connector.