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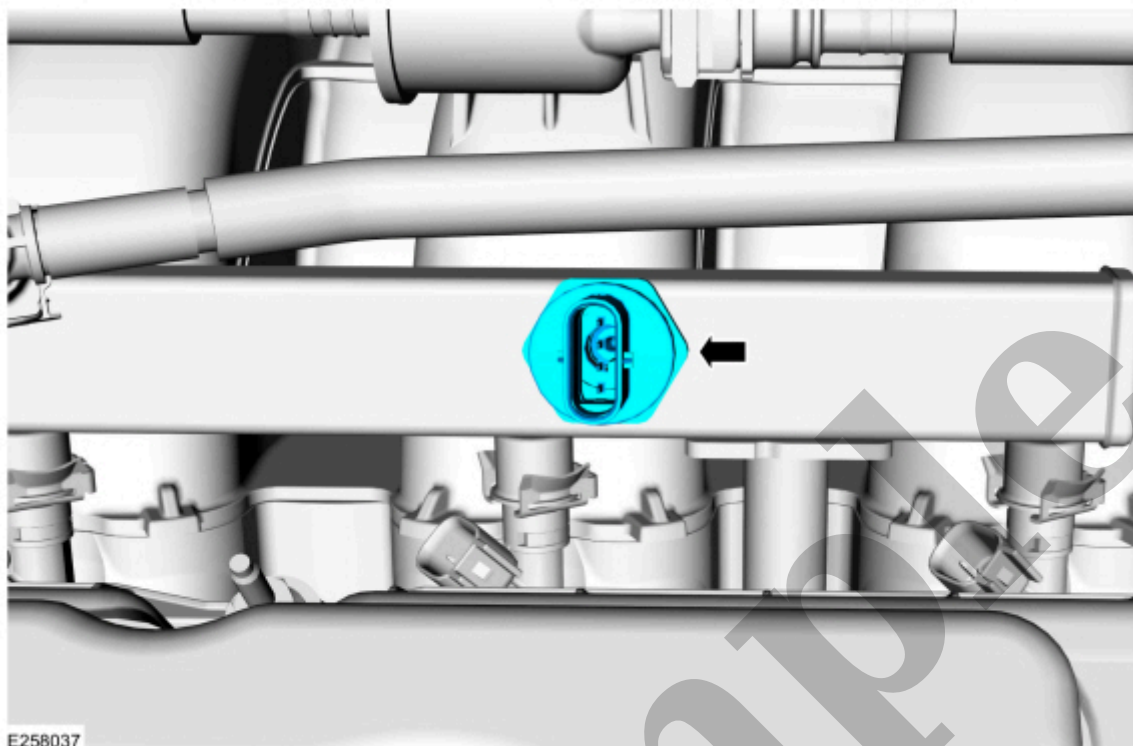
2021 Ford Transit-150 Service and Repair Manual

[Go to manual page](#)

Torque :

Stage 1: 53 lb.in (6 Nm)

Stage 2: 25°



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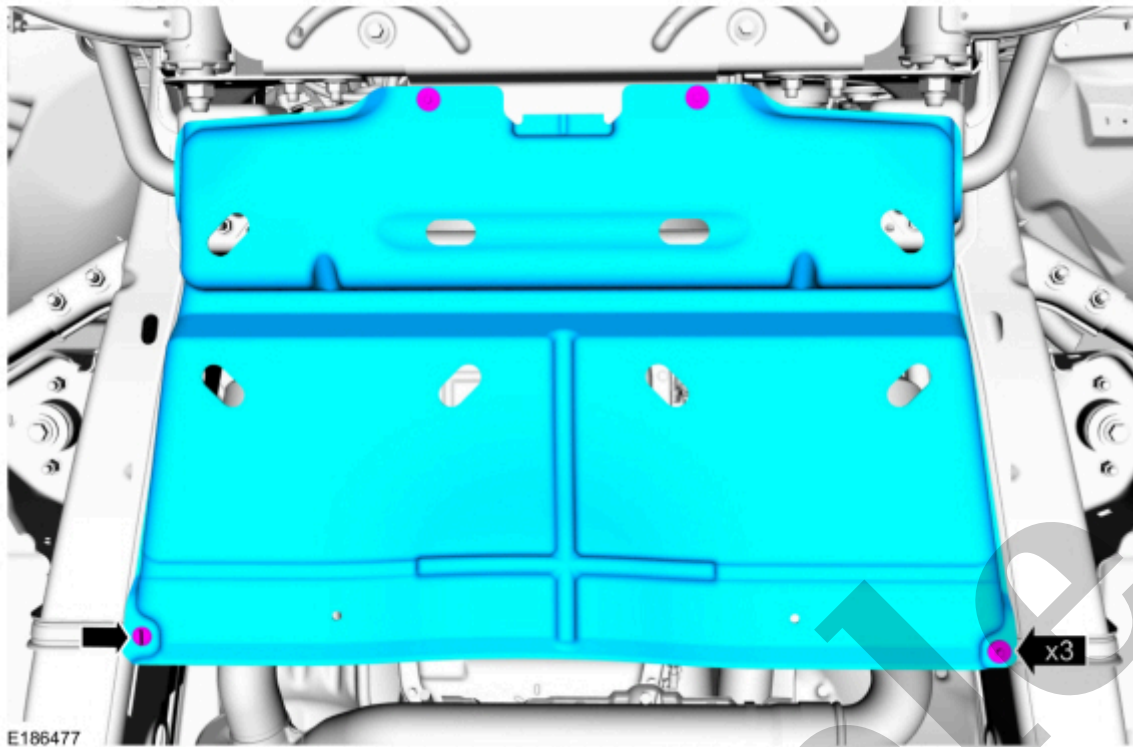
Installation

NOTE

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

1. To install, reverse the removal procedure.

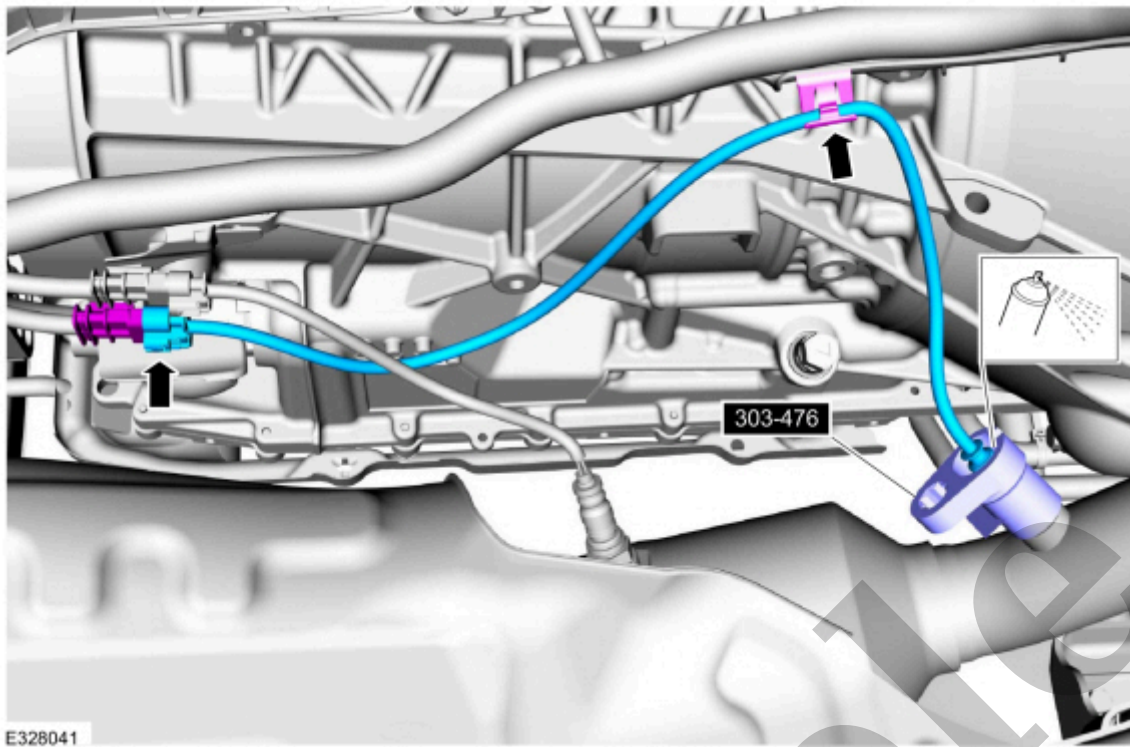
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3. If equipped, remove the bolts and the skid plate.

Torque : 30 lb.ft (40 Nm)



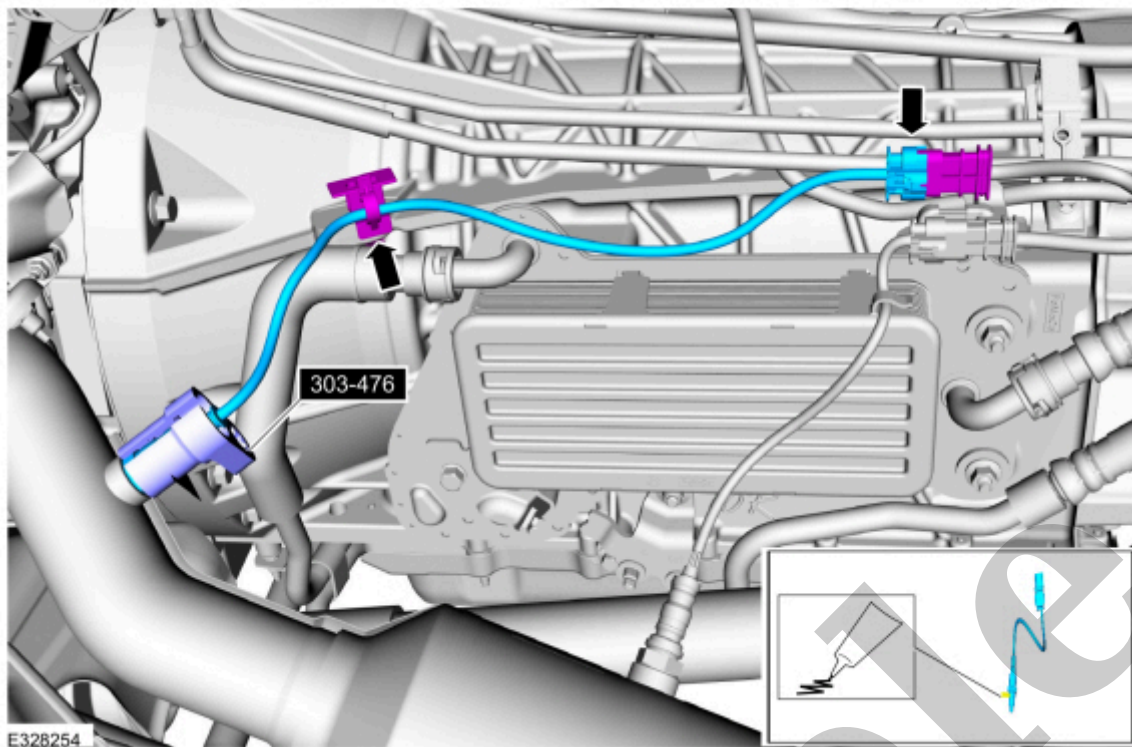
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Heated Oxygen Bank 2 sensor 1

5. 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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Heated Oxygen Bank 1 sensor 1

2. Apply anti-seize to thread of sensor, using special tool install the HO2S (heated oxygen sensor) . Connect the harness retainer and electrical connector.

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

Torque : 35 lb.ft (48 Nm)



Intake Manifold Runner Control (IMRC) Actuator

303-14D Electronic Engine Controls - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 05/28/2020

Intake Manifold Runner Control (IMRC) Actuator

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Remove the intake manifold.

Refer to: [Intake Manifold](#)(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).

2. Remove the hoses, retainers and the IMRC (intake manifold runner control) actuators.

Torque : 35 lb.in (4 Nm)



Intake Manifold Runner Control (IMRC) Solenoid

303-14D Electronic Engine Controls - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 05/28/2020

Intake Manifold Runner Control (IMRC) Solenoid

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Remove the intake manifold.

Refer to: [Intake Manifold](#)(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).

2. Disconnect the hoses and remove the IMRC (intake manifold runner control) solenoid.

Torque : 35 lb.in (4 Nm)



Knock Sensor (KS)

303-14D Electronic Engine Controls - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 01/12/2022

Knock Sensor (KS)

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Remove the intake manifold.
- Refer to: [Intake Manifold](#)(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).

2.

NOTE

Note the position of the components before removal.

- Disconnect the KS (knock sensor) electrical connectors.
- Remove the bolts and the KS (knock sensor) .

Torque : 177 lb.in (20 Nm)



Manifold Absolute Pressure and Temperature (MAPT) Sensor

303-14D Electronic Engine Controls - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 05/28/2020

Manifold Absolute Pressure and Temperature (MAPT) Sensor

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. NOTE

Single alternator intake shown, dual alternator intake similar.

Remove the intake manifold.

Refer to: [Intake Manifold](#)(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).

2. Remove the retainer and MAPT (manifold absolute pressure and temperature) sensor.

Torque : 71 lb.in (8 Nm)



Oil Pressure Control Solenoid

<i>303-14D Electronic Engine Controls - 5.0L 32V Ti-VCT</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 09/30/2022</i>

Oil Pressure Control Solenoid

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Remove the generator.

Refer to: [Generator - 5.0L 32V Ti-VCT](#)(414-02 Generator and Regulator, Removal and Installation).
2. Disconnect the electrical connector and pushpin retainer.