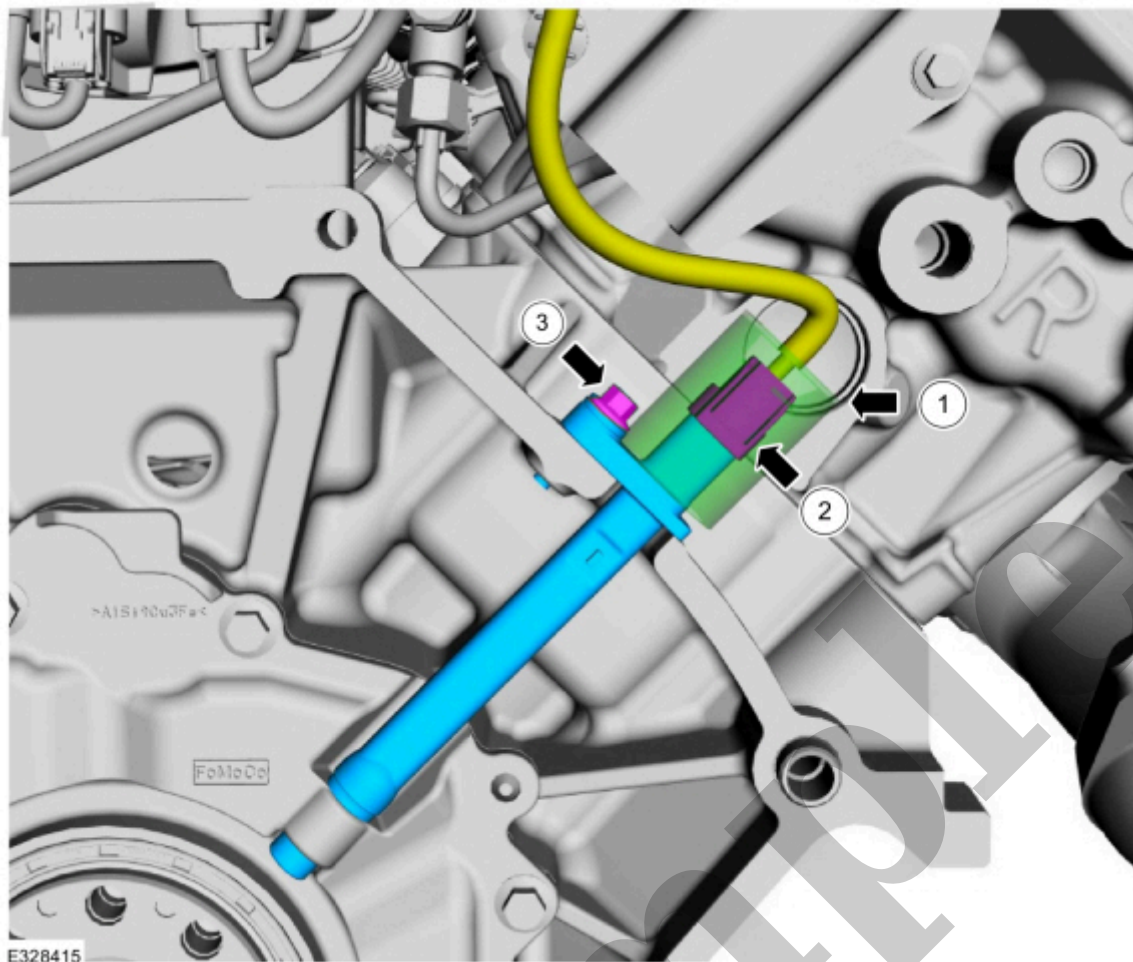


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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2015 Ford F-150 Service and Repair Manual

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6. Remove the oil pan.

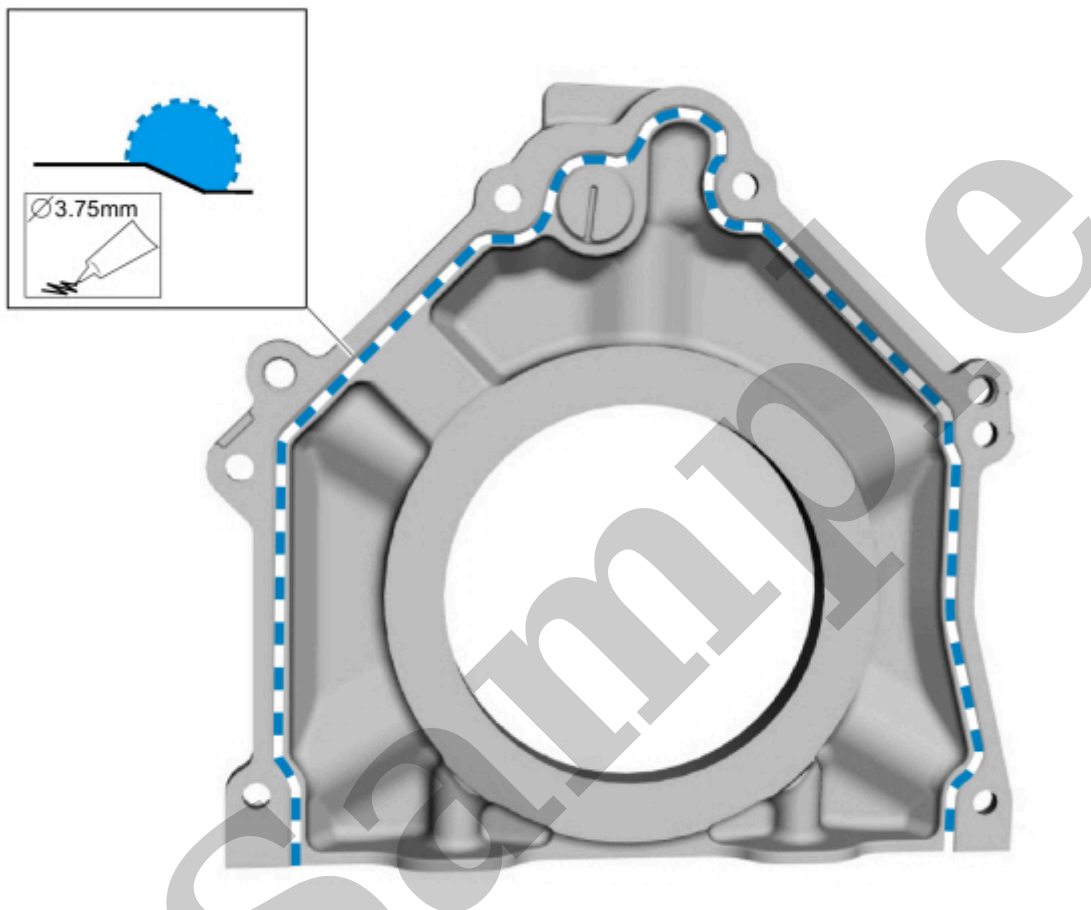
Refer to: [Oil Pan](#)(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).

7. Remove the bolts and the crankshaft rear seal retainer plate.

If the rear crankshaft seal retaining plate is not secured within 5 minutes, the sealant must be removed and the sealing area cleaned. Failure to follow this procedure may cause future oil leaks.

Apply a 3.75 mm (0.147 in) bead of silicone gasket and sealant to the chamfer of the rear crankshaft seal retaining plate sealing surface.

Material : Motorcraft® High Performance Engine RTV Silicone / TA-357 (WSE-M4G323-A6)



E317327

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2. Install the crankshaft rear seal retainer plate and the bolts.

Torque :

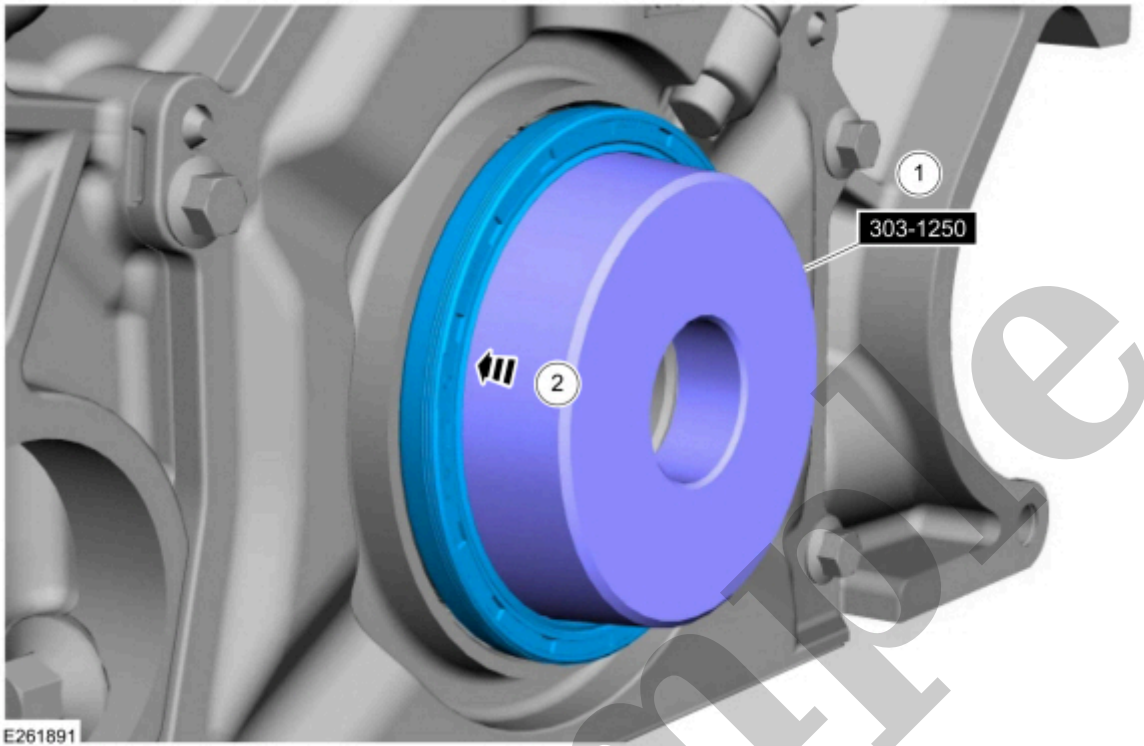
Stage 1: 89 lb.in (10 Nm)

Stage 2: 30°

4. • Position the special tool onto the end of the crankshaft.

Use Special Service Tool : 303-1250 Seal Installer, Rear Main

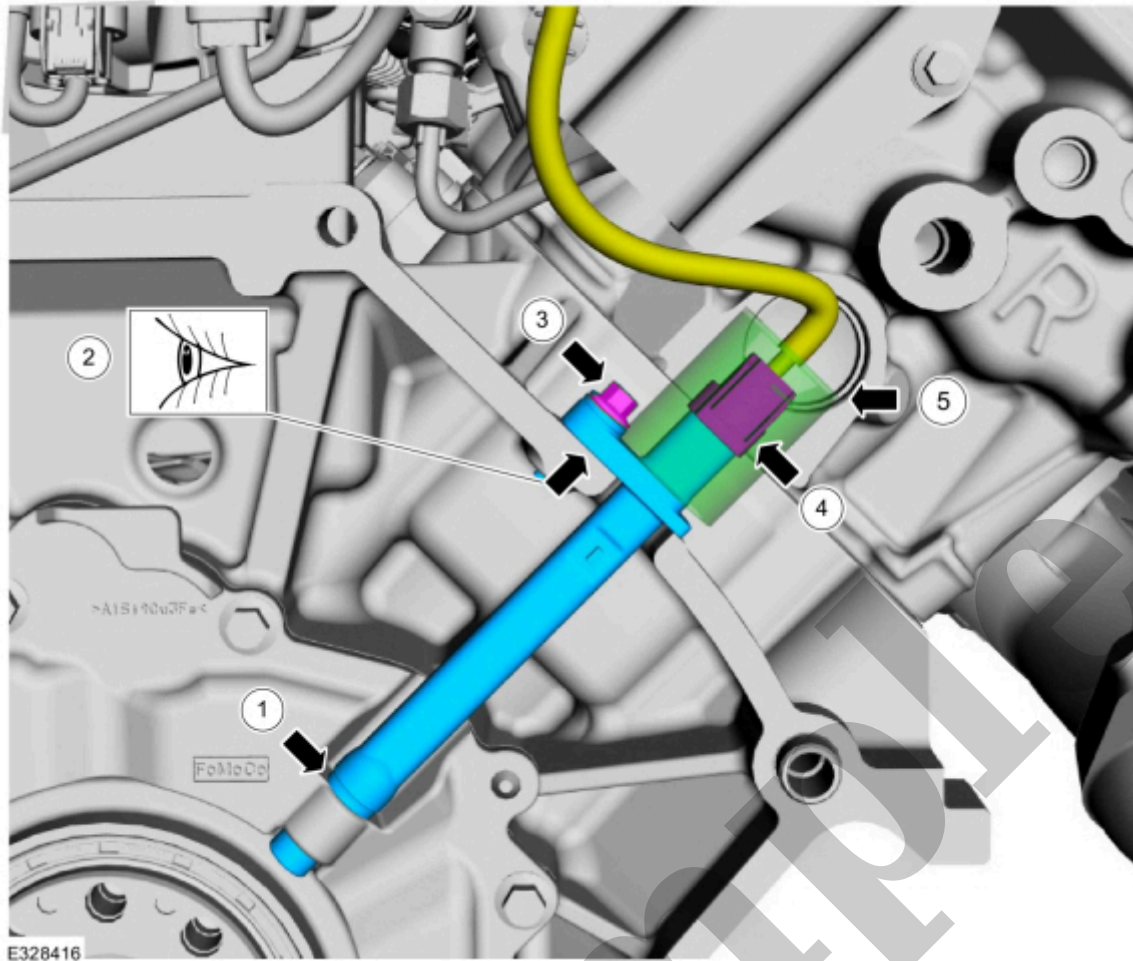
- Slide the new crankshaft rear seal onto the tool.



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5. Using the special tools, install the crankshaft rear seal.

Use Special Service Tool : 205-153 (T80T-4000-W) Handle , 303-1250 Seal Installer, Rear Main



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7. Install the oil pan.

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

8. Install the crankshaft sensor ring and the engine-to-transmission spacer plate.



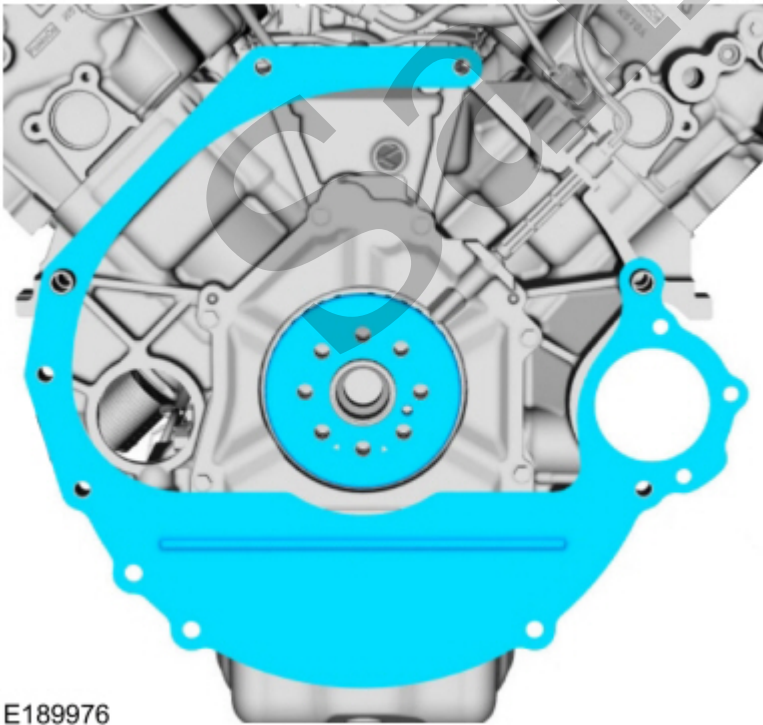
Crankshaft Rear Seal

<i>303-01E Engine - 5.0L 32V Ti-VCT</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 10/1/2020</i>

Crankshaft Rear Seal

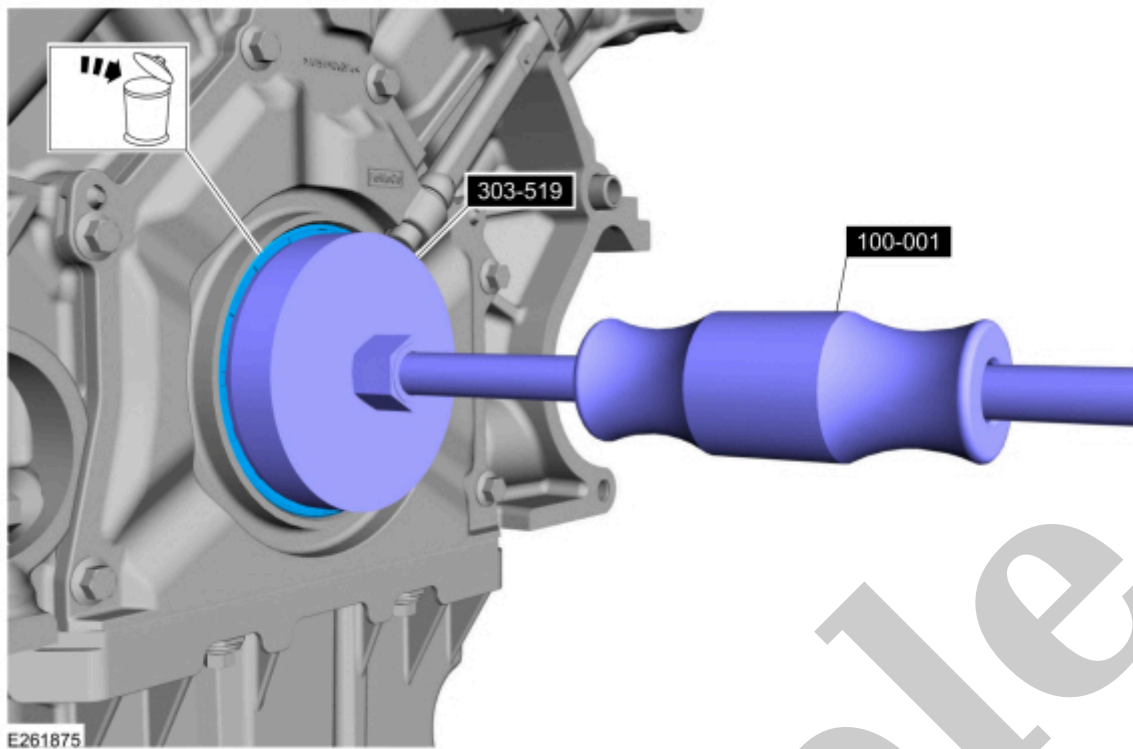
Removal

- 1. Remove the flexplate.
Refer to: [Flexplate](#)(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).
- 2. Remove the crankshaft sensor ring and the engine-to-transmission spacer plate.



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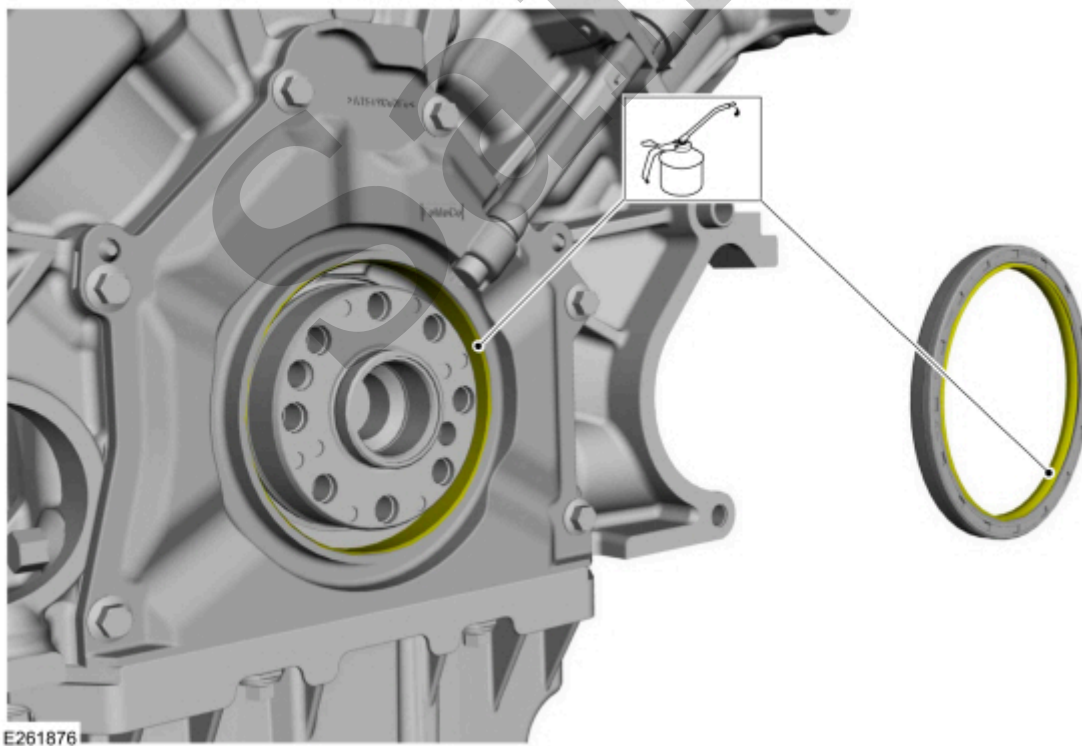
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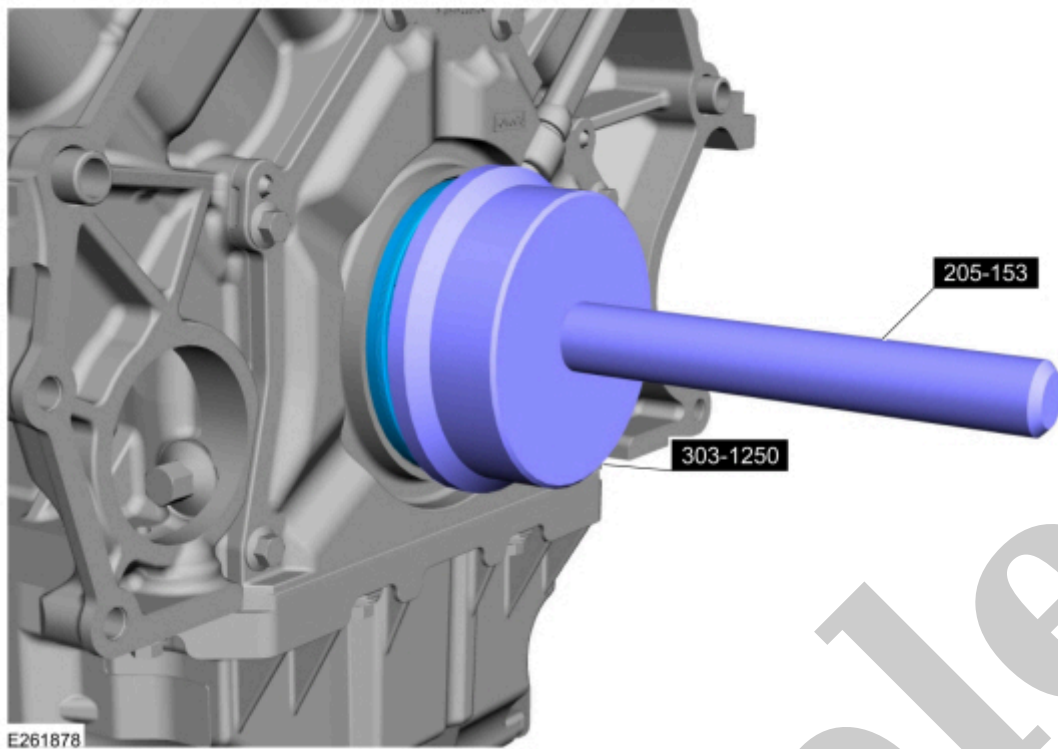
[Click here to learn about symbols, color coding, and icons used in this manual.](#)

Installation

1. Lubricate the seal bore and the seal lips with clean engine oil.

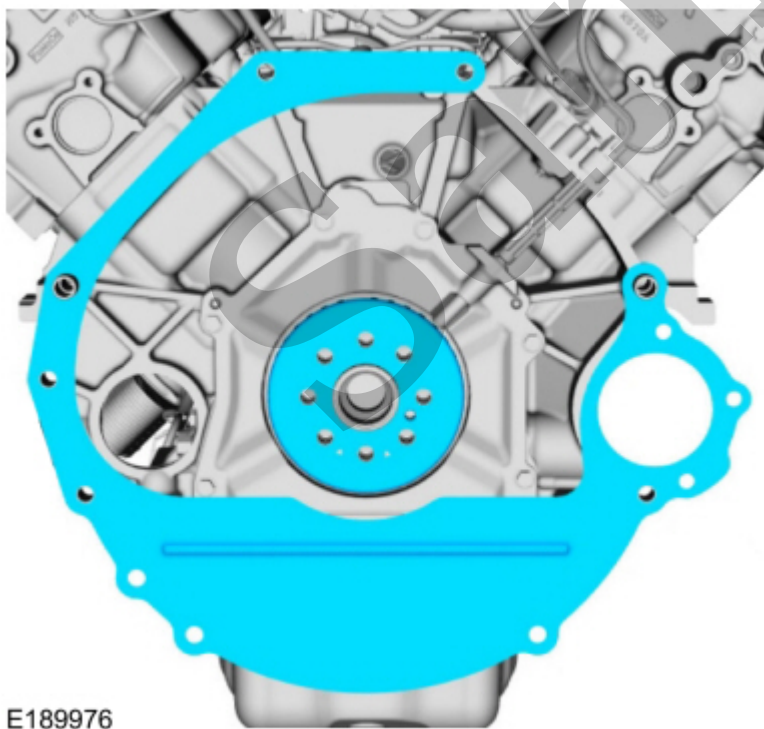


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[Click here to learn about symbols, color coding, and icons used in this manual.](#)

4. Install the crankshaft sensor ring and the engine-to-transmission spacer plate.



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5. Install the flexplate.

Cylinder Head LH

303-01E Engine - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 10/1/2020

Cylinder Head LH

Removal

NOTICE

During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

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. Release the fuel system pressure.

Refer to: [Fuel System Pressure Release](#)(310-00E Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).

3. Disconnect the battery ground cable.

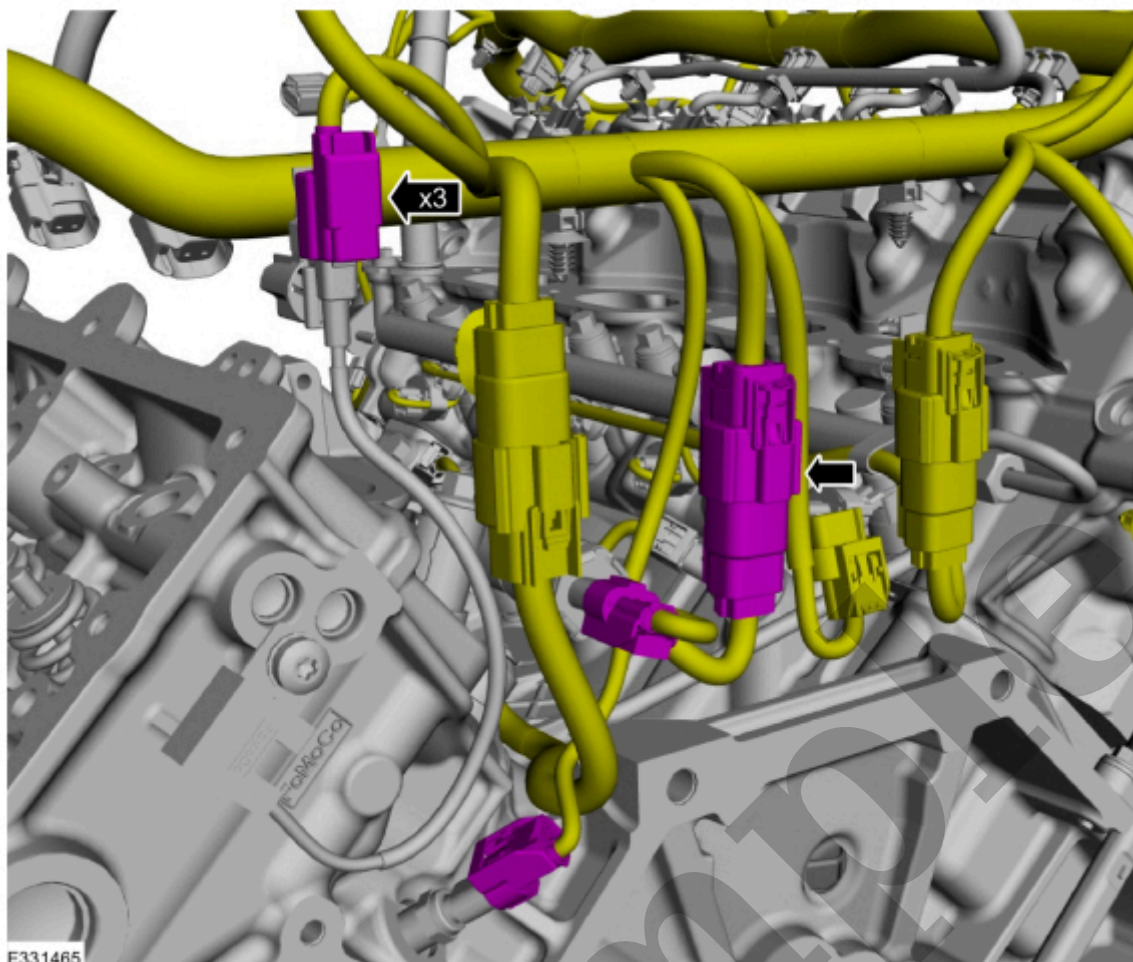
Refer to: [Battery Disconnect and Connect](#)(414-01 Battery, Mounting and Cables, General Procedures).

4. Drain the engine cooling system.

Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03E Engine Cooling - 5.0L 32V Ti-VCT, General Procedures).

5. Remove the following items:

1. LH (left-hand) hydraulic lash adjusters.



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8. Detach the wiring harness retainer from the cylinder head.