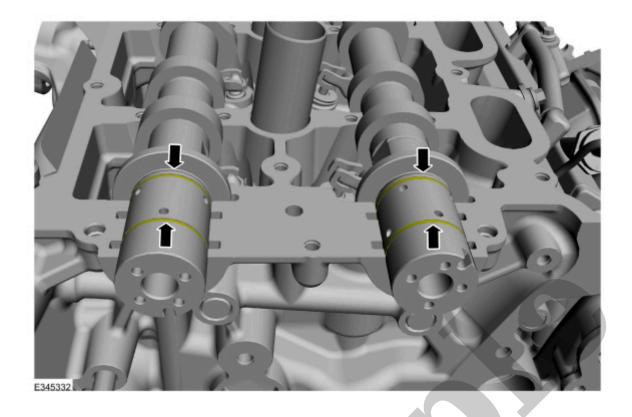


Your Ultimate Source for OEM Repair Manuals

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.

2013 Ford Taurus Service and Repair Manual

Go to manual page



Click here to learn about symbols, color coding, and icons used in this manual.

4. NOTE

Cylinder head camshaft bearing caps are numbered to verify that they are assembled in their original positions.

- Install camshaft bearing caps by the markings on the caps and hand install the bolts.
- Install camshaft bearing mega caps and the bolts.

Torque :

Stage 1: 1 thru 3: 71 lb.in (8 Nm)

Stage 2: 1 thru 3: 45°

Stage 3: 4: 97 lb.in (11 Nm)

Stage 4: 4: 45°

Stage 5: 5 thru 16: 71 lb.in (8 Nm)

Stage 6: 5 thru 16: 11°

Stage 7: Loosen 12 and 11: Loosen: turn(s)

Stage 8: 12 and 11: 71 lb.in (8 Nm)



Click here to learn about symbols, color coding, and icons used in this manual.



Install Special Service Tool : 303-1655 Tool, Camshaft Holding

Crankshaft Front Seal

303-01D Engine - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 10/1/2020

Crankshaft Front Seal

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 may cause engine failure.

3.5L V6 PowerBoost (CN)

1. Remove the accessory drive belt.

Refer to: Accessory Drive Belt(303-05D Accessory Drive - 3.5L V6 PowerBoost (CN), Removal and Installation).

3.5L EcoBoost (BM)

2. Remove the accessory drive belt.

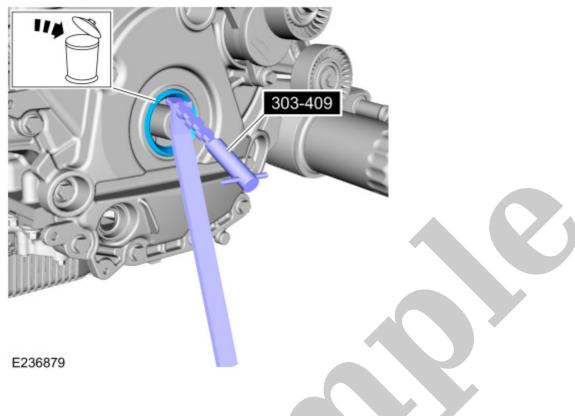
Refer to: Accessory Drive Belt(303-05C Accessory Drive - 3.5L EcoBoost (BM), Removal and Installation).

All vehicles

- 3. Remove the crankshaft pulley bolt and washer.
 - Discard the bolt.

5. Using the special tool, remove and discard the crankshaft front seal.

Use Special Service Tool : 303-409 (T92C-6700-CH) Remover, Crankshaft Seal



Click here to learn about symbols, color coding, and icons used in this manual.

Installation

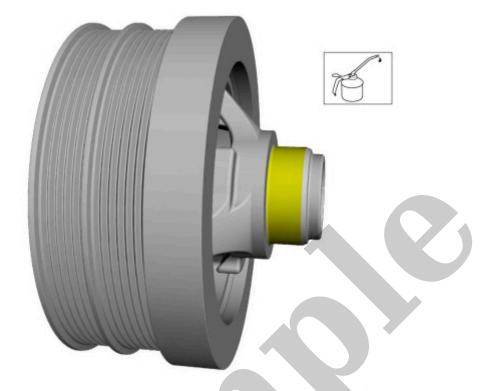
All vehicles

1. Lubricate the crankshaft front seal bore with clean engine oil.

Refer to: Specifications(303-01C Engine - 3.5L EcoBoost (BM), Specifications).

3. Lubricate the crankshaft pulley with clean engine oil.

Refer to: Specifications(303-01C Engine - 3.5L EcoBoost (BM), Specifications).

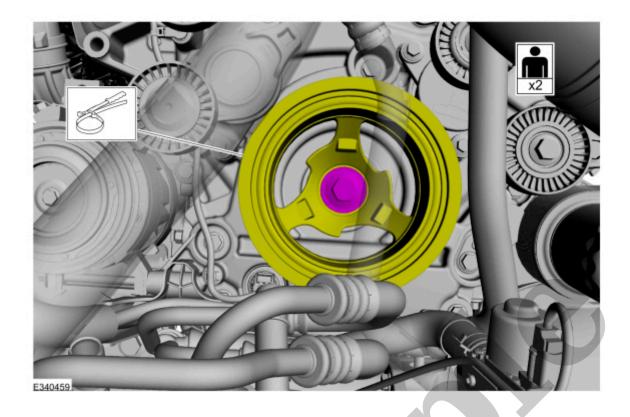


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Click here to learn about symbols, color coding, and icons used in this manual.

4. Using the special tools, install the crankshaft pulley.

Use Special Service Tool : 303-102 Installer, Crankshaft Pulley



Click here to learn about symbols, color coding, and icons used in this manual.

3.5L V6 PowerBoost (CN)

6. Install the accessory drive belt.

Refer to: Accessory Drive Belt(303-05D Accessory Drive - 3.5L V6 PowerBoost (CN), Removal and Installation).

3.5L EcoBoost (BM)

7. Lubricate the crankshaft pulley with clean engine oil.

Refer to: Specifications(303-01C Engine - 3.5L EcoBoost (BM), Specifications).

9. Install the new crankshaft bolt and the washer.

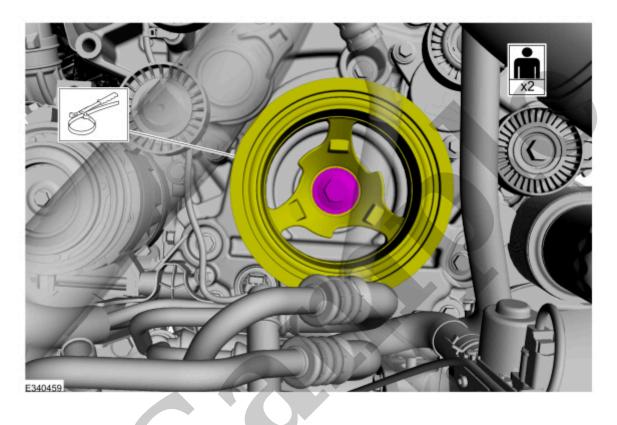
Use the General Equipment: Strap Wrench

Torque :

Stage 1: 37 lb.ft (50 Nm)

Stage 2: 90°

Stage 3: 60°



Click here to learn about symbols, color coding, and icons used in this manual.

10. Install the accessory drive belt.

Refer to: Accessory Drive Belt(303-05C Accessory Drive - 3.5L EcoBoost (BM), Removal and Installation).

11. Install the accessory drive belt.

Refer to: Accessory Drive Belt(303-05C Accessory Drive - 3.5L EcoBoost (BM), Removal and Installation).

All vehicles

- 12. After completing the repairs, perform the Misfire Monitor Neutral Profile Correction procedure using a diagnostic scan tool.
- 13. Road test the vehicle.

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Crankshaft Pulley

303-01D Engine - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 10/30/2020

Crankshaft Pulley

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 may cause engine failure.

1. Remove the coolant pump belt.

Refer to: Coolant Pump Belt(303-05D Accessory Drive - 3.5L V6 PowerBoost (CN), Removal and Installation).

2. Remove the accessory drive belt.

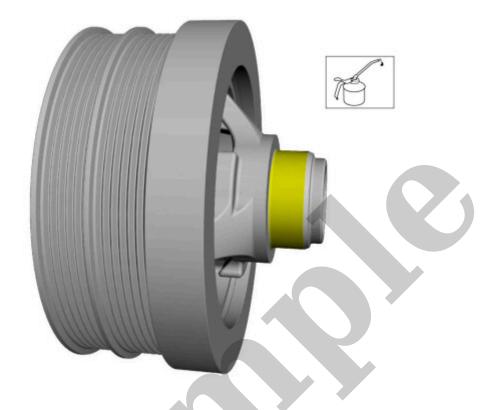
Refer to: Accessory Drive Belt(303-05D Accessory Drive - 3.5L V6 PowerBoost (CN), Removal and Installation).

- 3. Remove the crankshaft pulley bolt and washer.
 - Discard the bolt.

Installation

1. Lubricate the crankshaft pulley with clean engine oil.

Refer to: Specifications(303-01D Engine - 3.5L V6 PowerBoost (CN), Specifications).



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Click here to learn about symbols, color coding, and icons used in this manual.

2. Using the special tool, install the crankshaft pulley.

Use Special Service Tool : 303-102 Installer, Crankshaft Pulley