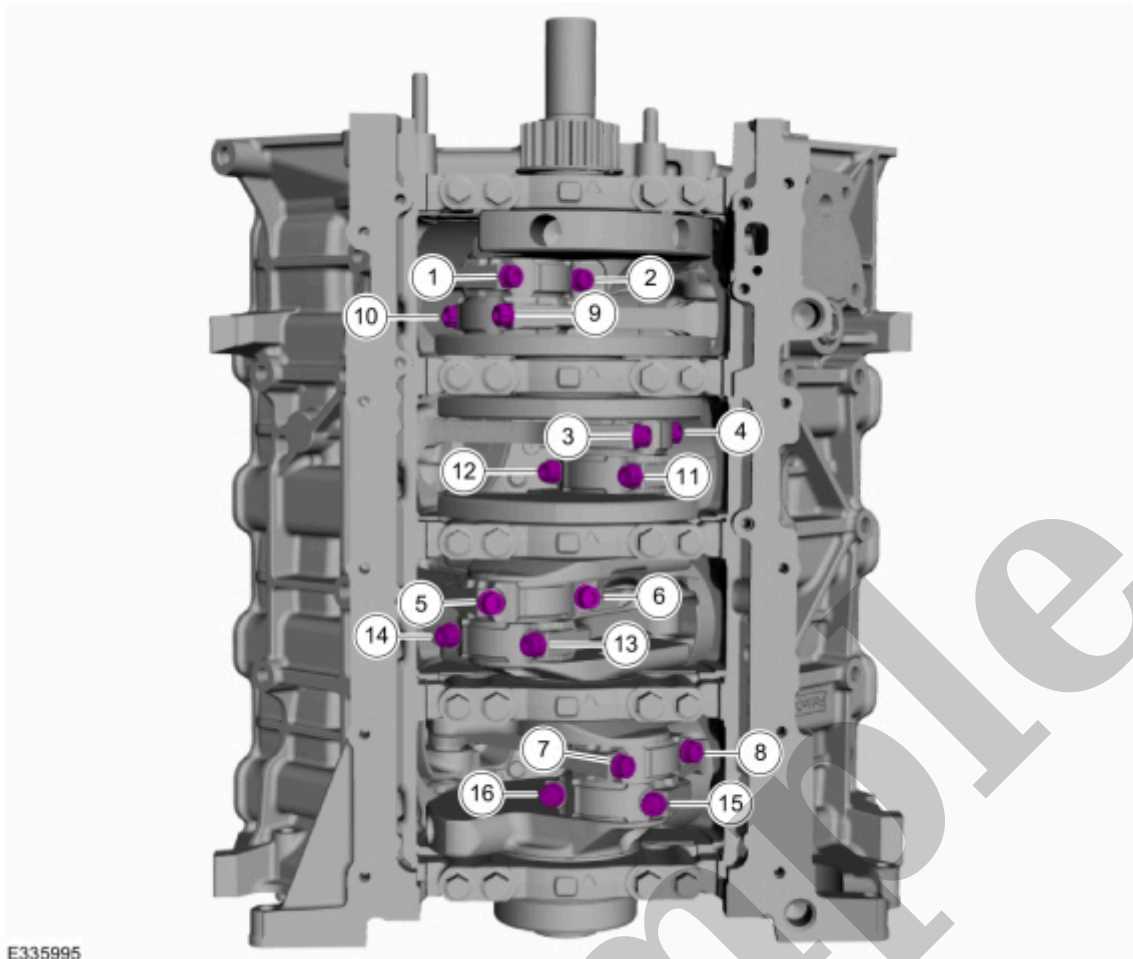


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## 2014 Ford Fiesta Service and Repair Manual

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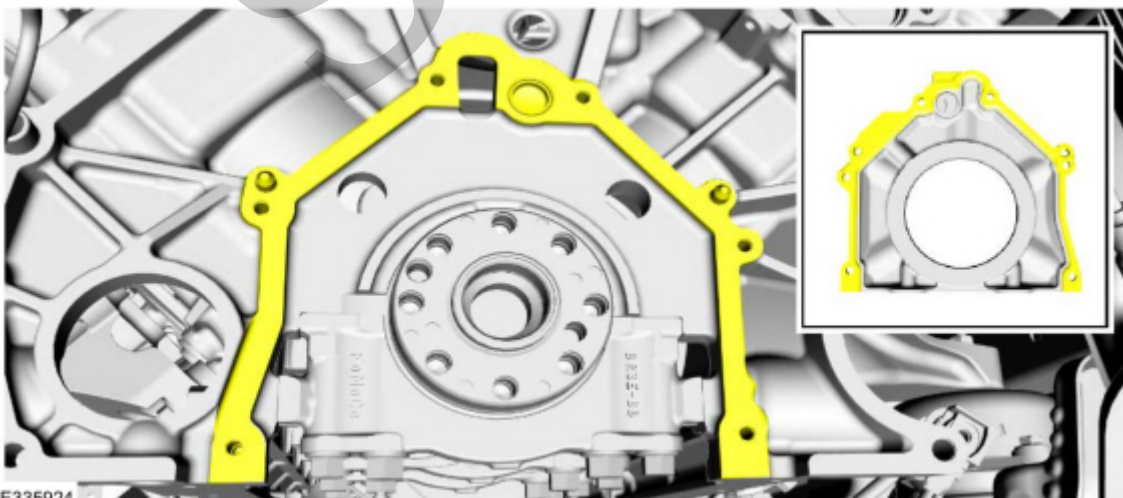


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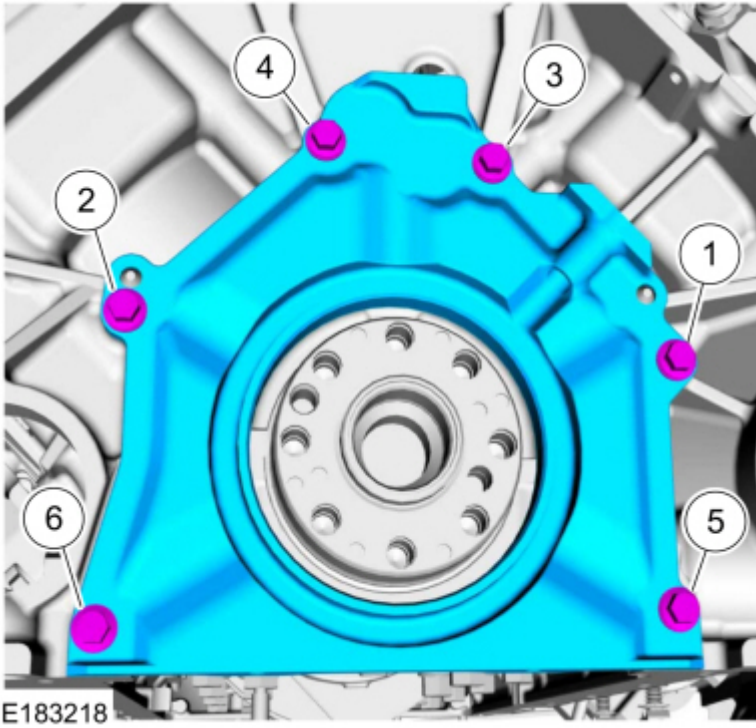
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19. Clean and prepare the RTV sealing surface.

Refer to: [RTV Sealing Surface Cleaning and Preparation](#)(303-00 Engine System - General Information, General Procedures).



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22. Install the cam drive install aid and the fasteners.

***Torque :***

1:

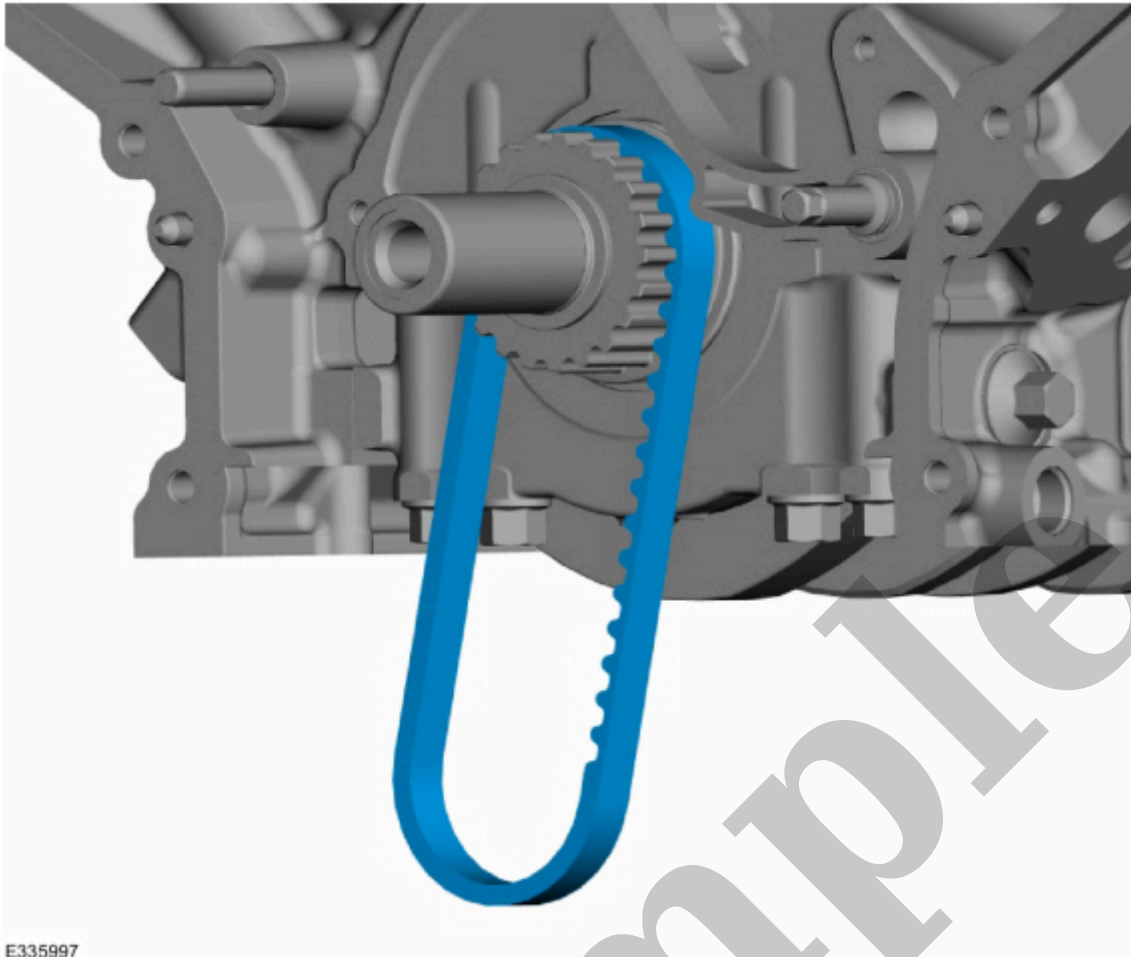
Stage 1: 177 lb.in (20 Nm)

Stage 2: 60°

2:

Stage 3: 18 lb.ft (25 Nm)

Stage 4: 75°



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24. Prime the oil pump. Add 2 tablespoons of clean engine oil to the oil pump and rotate the oil pump by hand.

25. **NOTE**

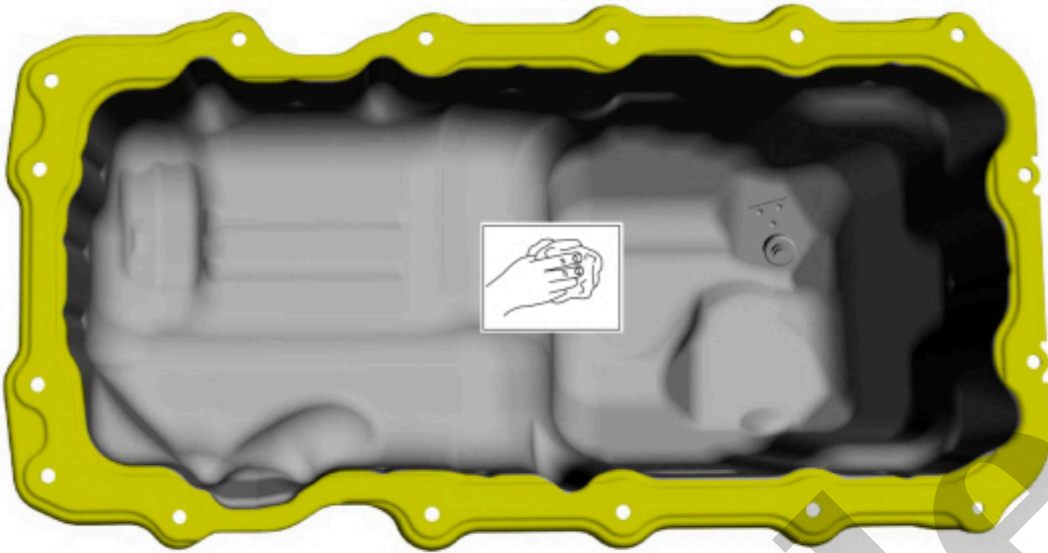
Make sure the oil pump drive belt teeth are engaged in the crankshaft sprocket prior to installing the oil pump.

1. Install the oil pump sprocket into the oil pump drive belt.
2. Raise the rear of the oil pump assembly into the installed position.
3. Install the oil pump bolts.

***Torque :***

Stage 1: 89 lb.in (10 Nm)

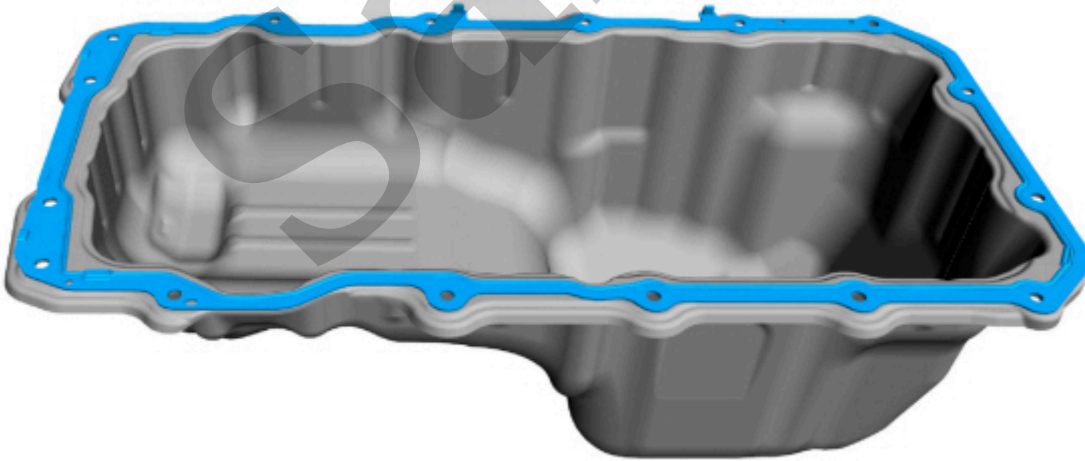
Stage 2: 45°



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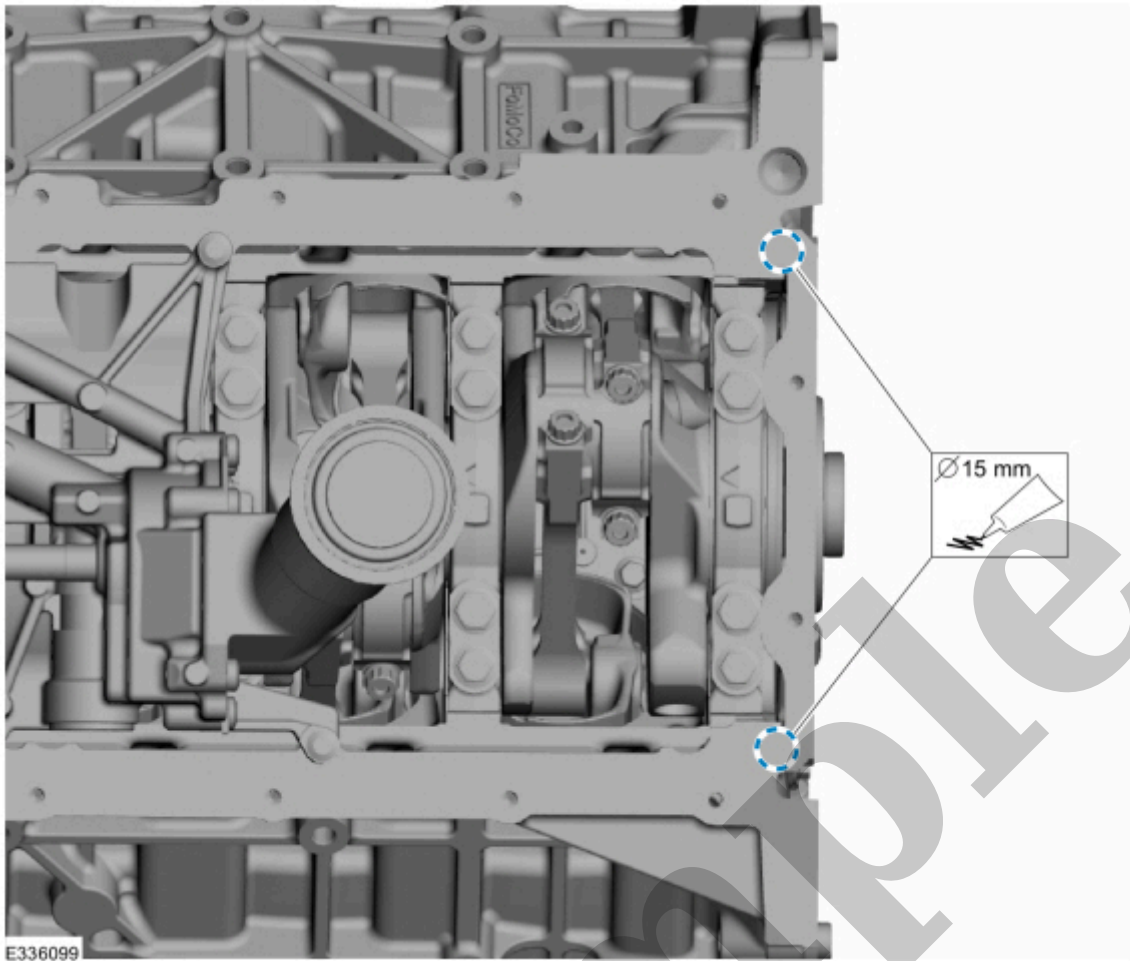
27. Install a new oil pan gasket.



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28. Clean and prepare the RTV sealing surface.



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

30. **NOTE**

The oil pan is secured with 3 different type fasteners, install the fasteners in the positions noted prior to removing the oil pan.

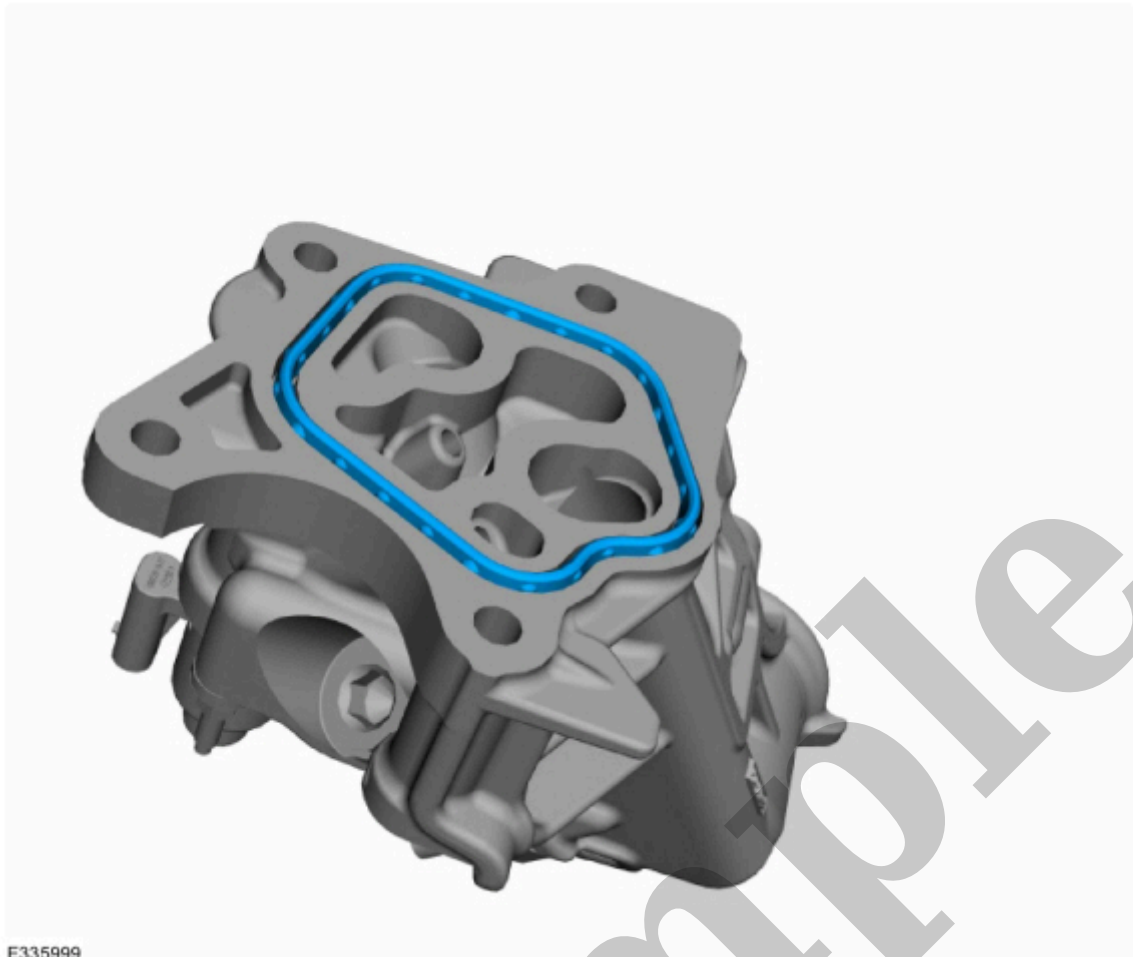
Install the oil pan, bracket and the fasteners.

**Torque :**

Stage 1: 18 lb.in (2 Nm)

Stage 2: 89 lb.in (10 Nm)

Stage 3: 45°



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32. Install the oil filter adapter and the bolts.

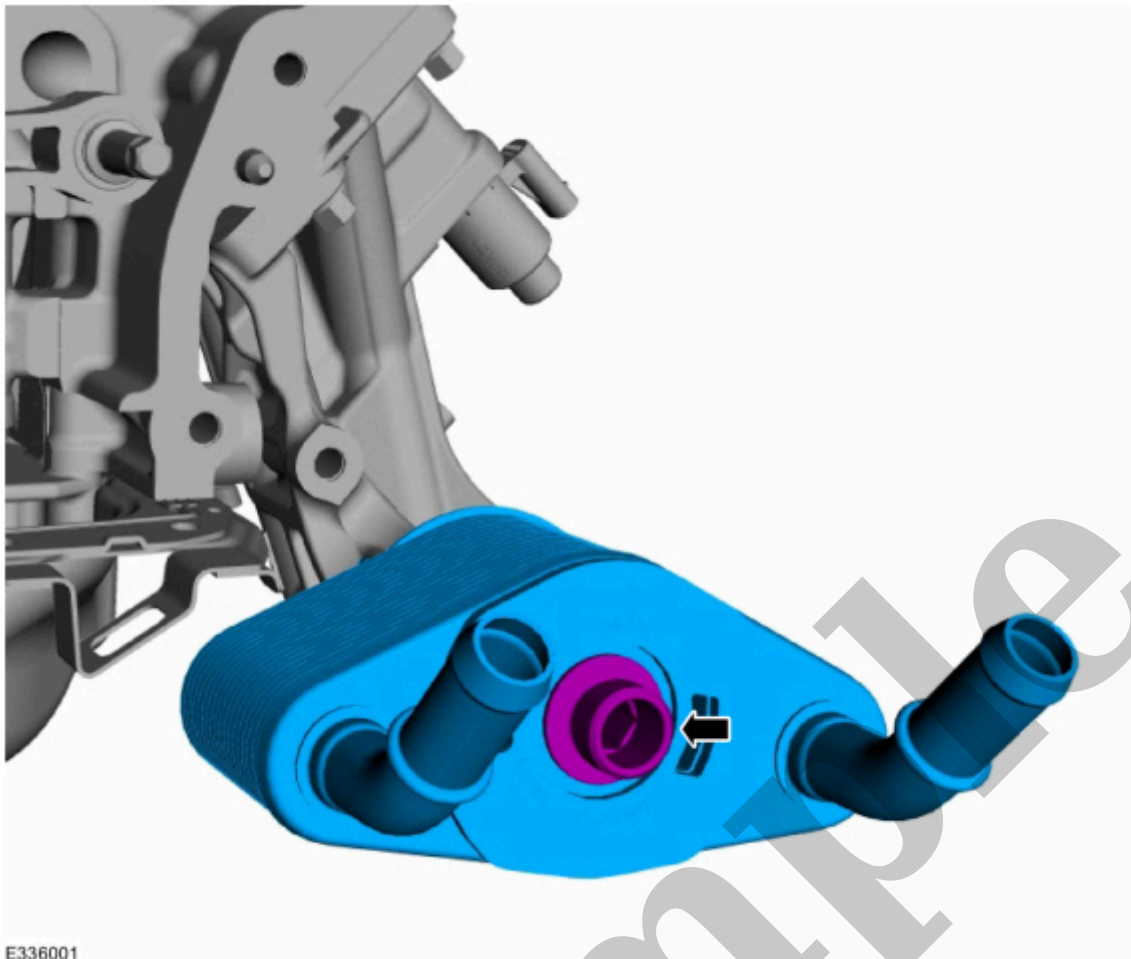
***Torque :***

Stage 1: 133 lb.in (15 Nm)

Stage 2: 177 lb.in (20 Nm)

Stage 3: 60°





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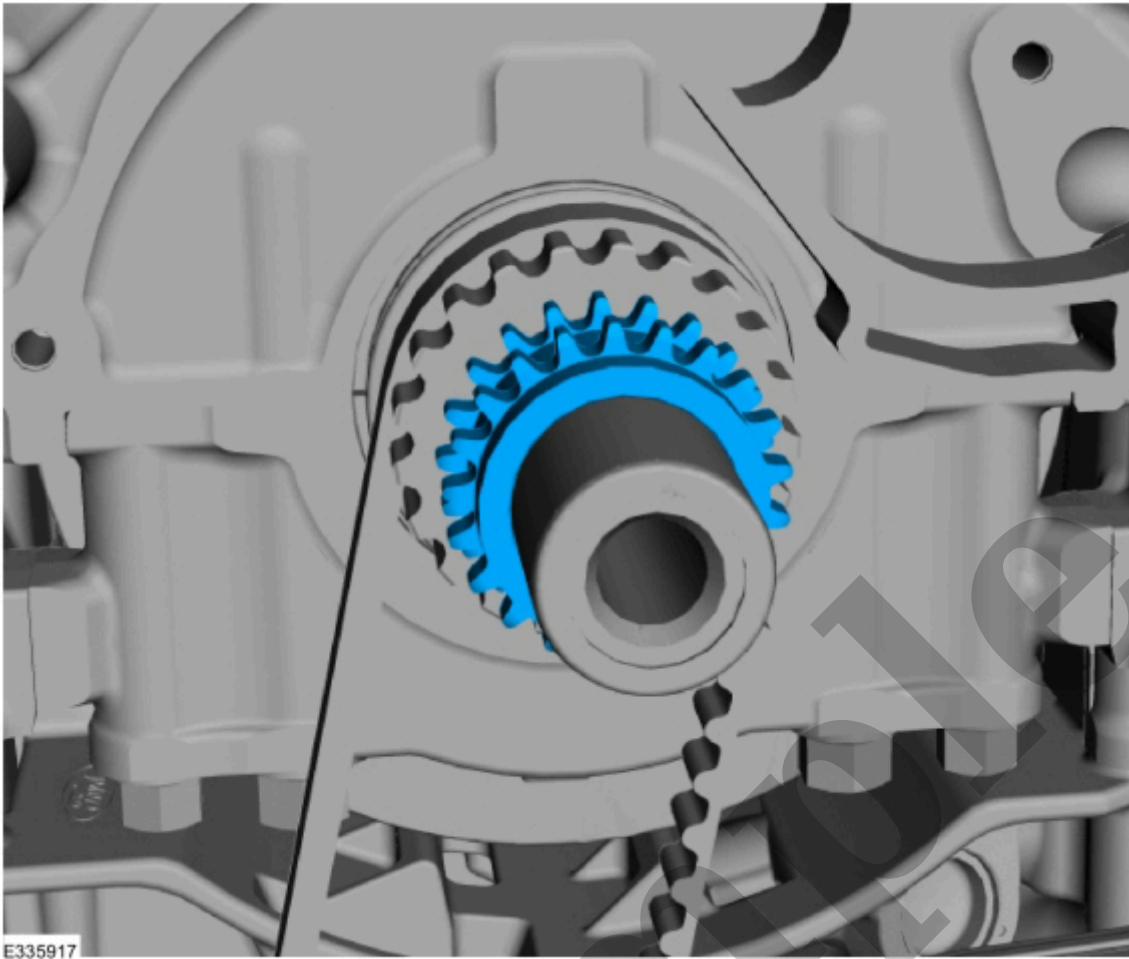
#### 34. NOTICE

The CKP (crankshaft position) sensor must be positioned into the crankshaft rear seal retainer plate and be flush against the boss on the engine block before the bolt is installed. If the CKP (crankshaft position) sensor is installed incorrectly, the CKP (crankshaft position) sensor can be damaged.

- Install the CKP (crankshaft position) sensor must be positioned into the crankshaft rear seal retainer plate.
- Make sure the CKP (crankshaft position) sensor is flush with the engine block boss.
- Install the bolt.

**Torque** : 89 lb.in (10 Nm)

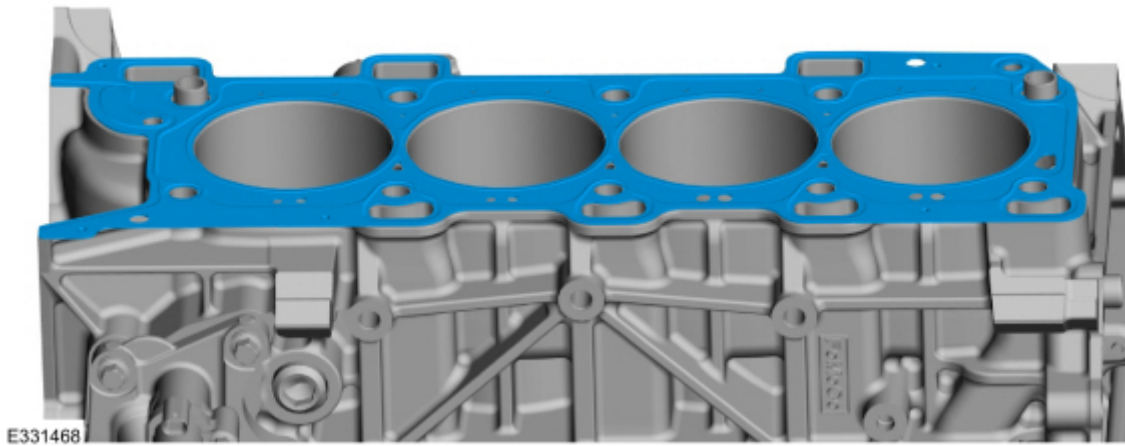




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36. Using the special tool, rotate the crankshaft clockwise until the keyway is at the 4:00 position.

**Use Special Service Tool** : 303-448 (T93P-6303-A) Holding Tool, Crankshaft



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39. **NOTE**

The cylinder head bolts are torque-to-yield and must not be reused. New cylinder head bolts must be installed.

1. Install the cylinder head and the new bolts.

***Torque :***

Stage 1: Bolts 1-10 in sequence: 18 lb.ft (25 Nm)

Stage 2: Bolts 1-10 in sequence: 55 lb.ft (75 Nm)

Stage 3: Bolt 1: Loosen: 180°

Stage 4: Bolt 1: 37 lb.ft (50 Nm)

Stage 5: Bolt 1: 240°

2. Perform stages 3, 4 and 5 on bolts 2 through 10 (complete all three stages to each bolt before moving on to the next bolt in sequence).