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2015 Ford F-450 Super Duty Service and Repair Manual

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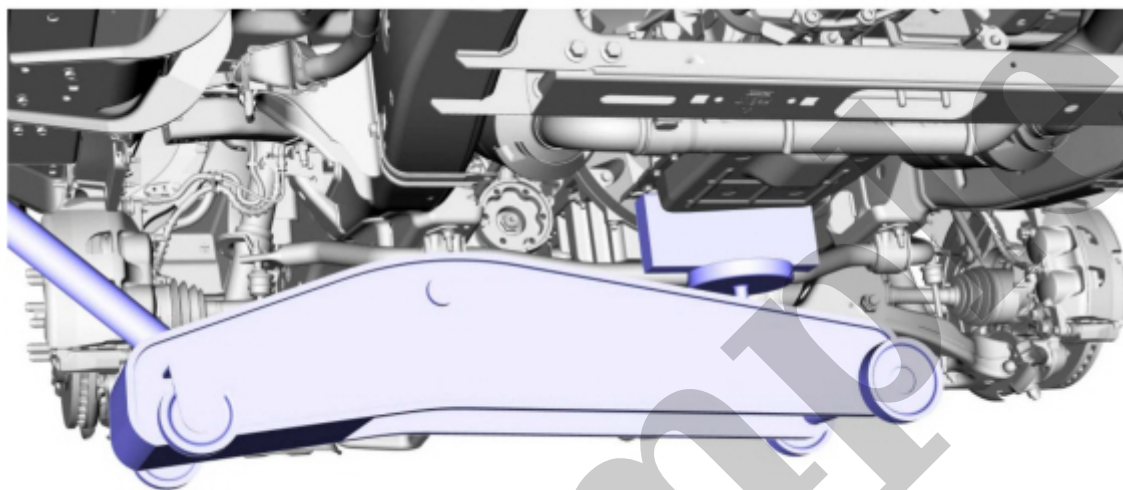
49. **NOTICE**

Do not support the transmission by the fluid pan, failure to follow this instruction may result in serious damage to the transmission.

Support the bellhousing of the transmission with a suitable floor jack and a block of wood.

Use the General Equipment: Trolley Jack

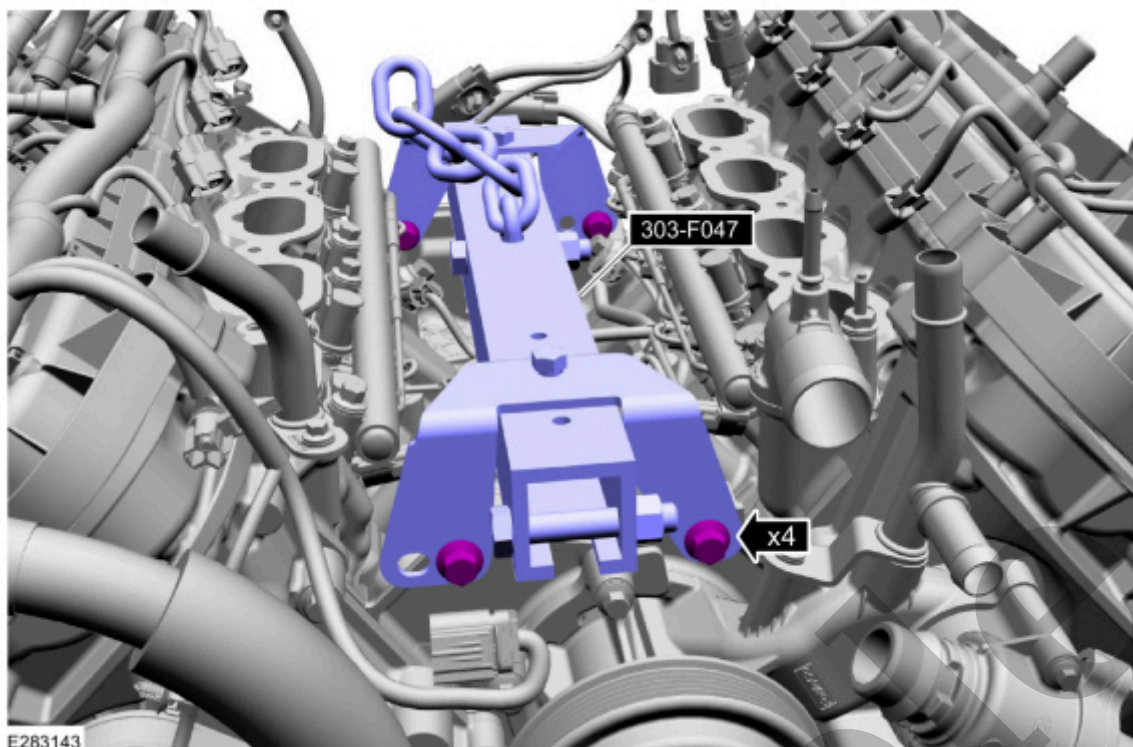
Use the General Equipment: Wooden Block



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50. Detach the retainer and position the vent hose aside.



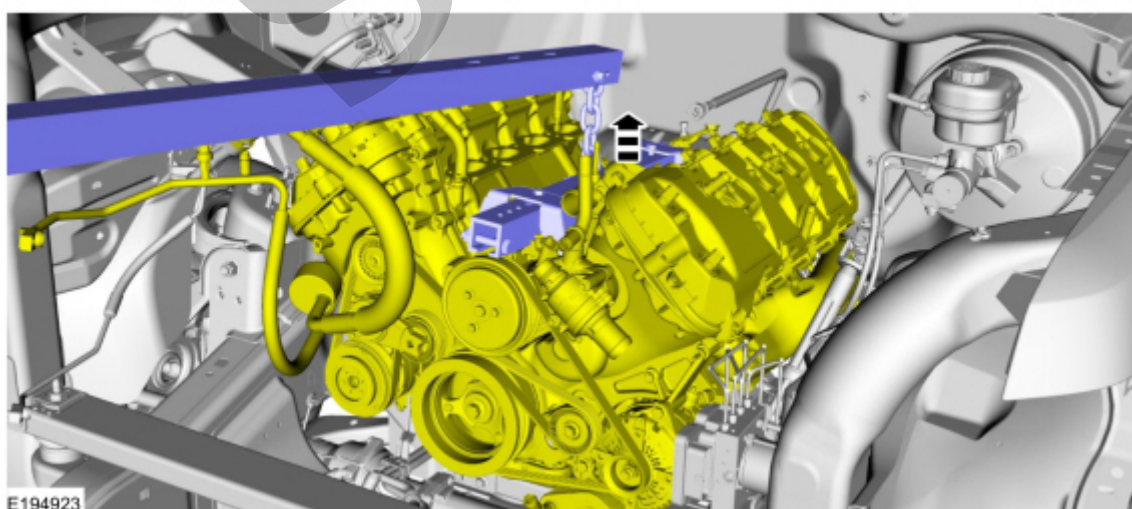
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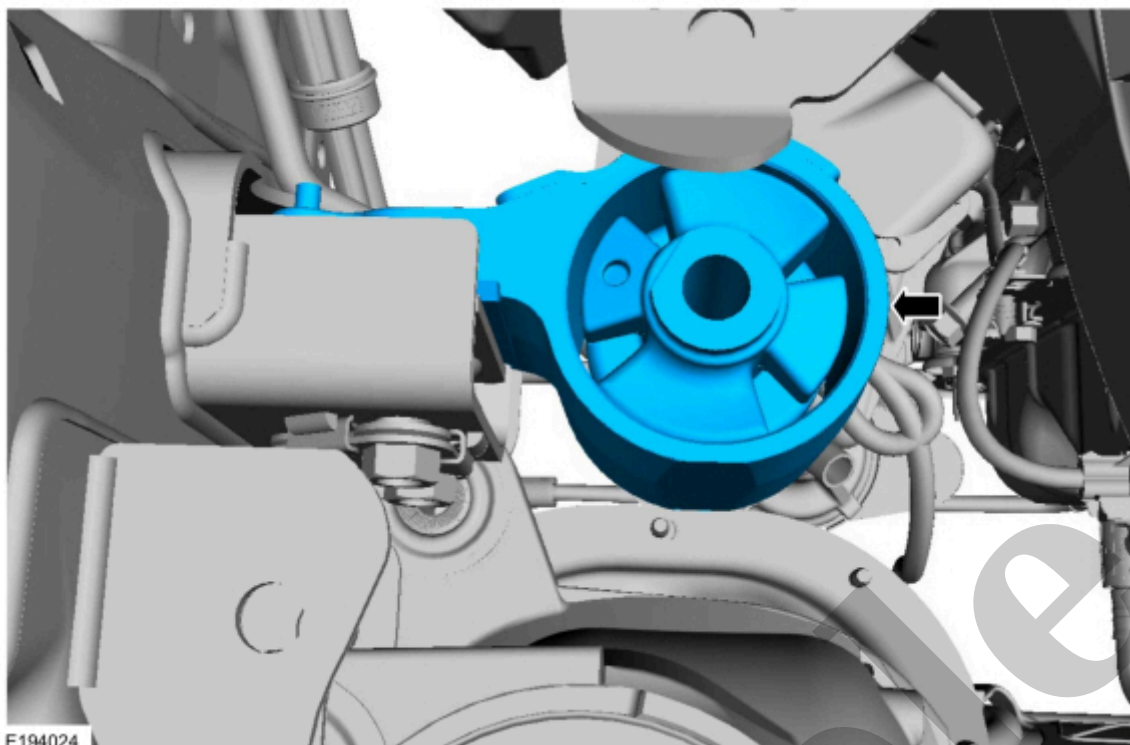
53. NOTE

It will be necessary to adjust the height floor jack to support the transmission.

Using the Heavy Duty Floor Crane, raise the engine assembly to gain access to the LH (left-hand) engine mount bolts.

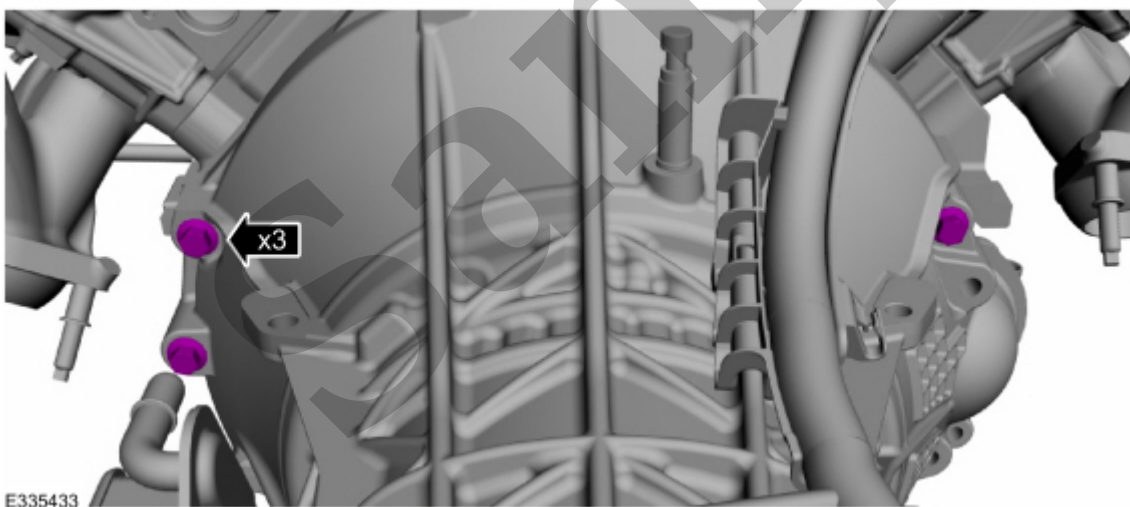
Use the General Equipment: Floor Crane





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56. Remove the bellhousing bolts.

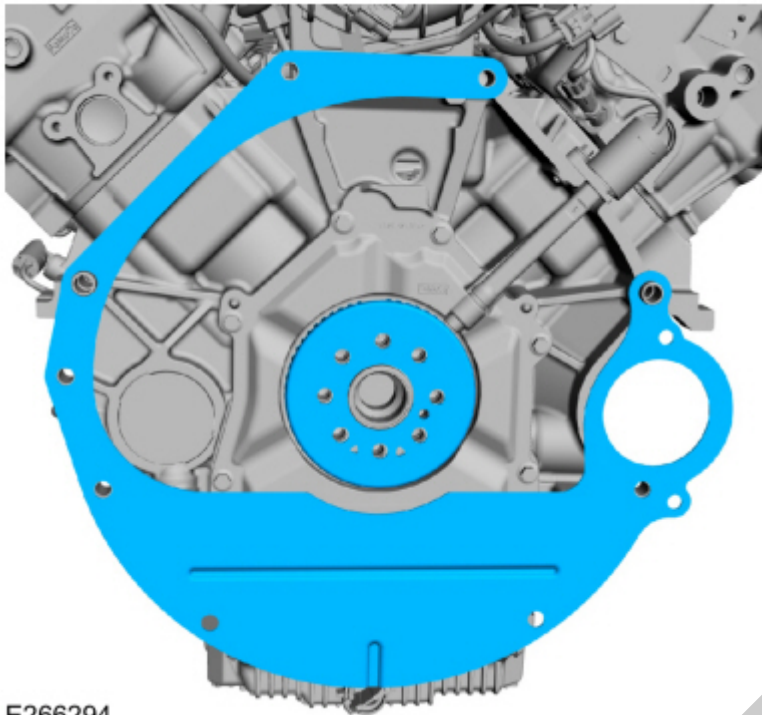


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57. Using the Heavy Duty Floor Crane, remove the engine assembly from the vehicle.

Use the General Equipment: Floor Crane

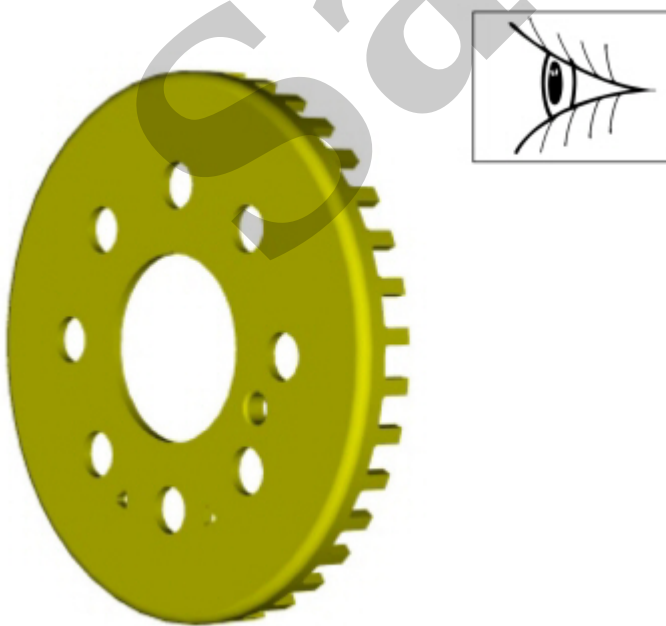
59. Remove the crankshaft sensor ring and the engine-to-transmission spacer plate.



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60. Inspect the crankshaft sensor ring for damage. If the crankshaft sensor ring has been dropped or has any visual damage, it must be replaced.



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Camshaft and Carrier Assembly

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

Camshaft and Carrier Assembly

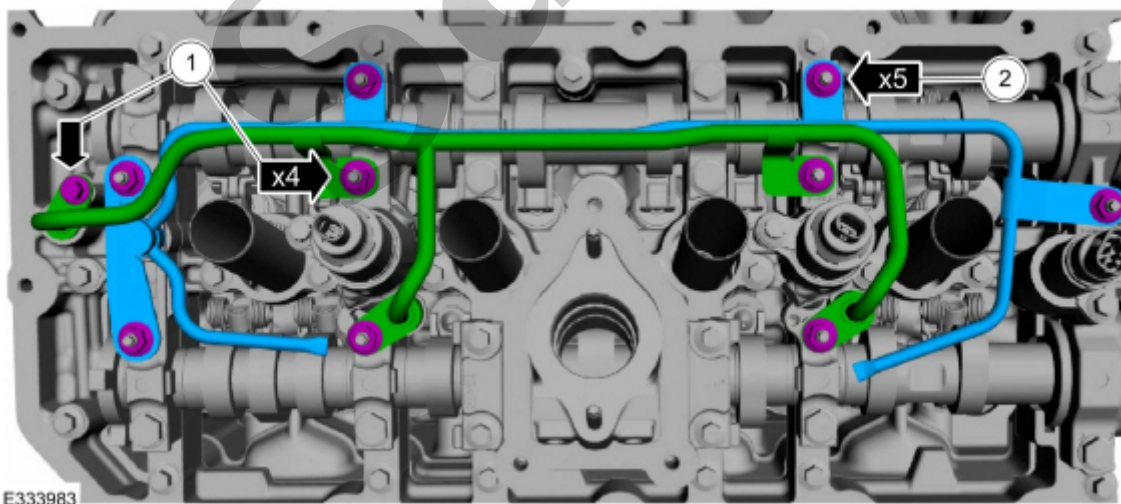
Removal

Right hand (RH) camshaft and carrier assembly

1. Remove the RH (right-hand) timing chain.

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

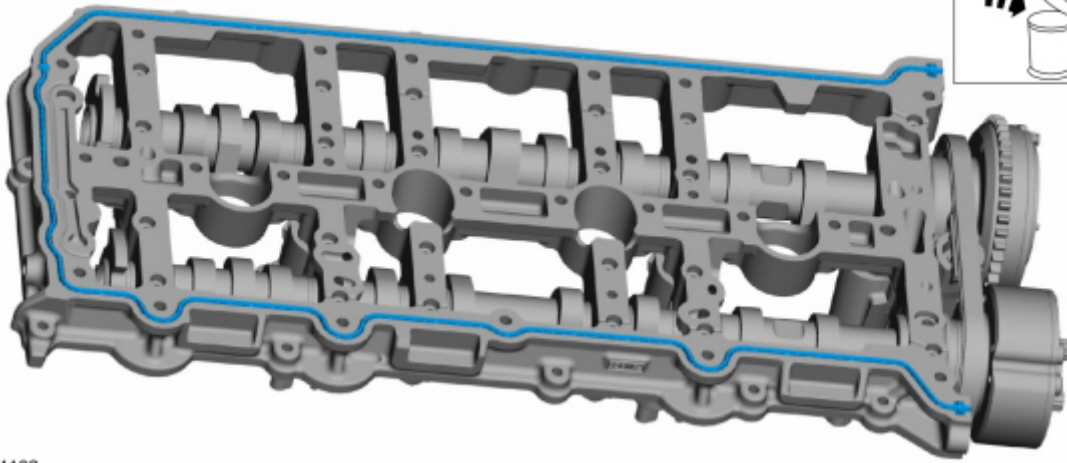
2.
 - Loosen the fasteners and remove the oil tube.
 - Loosen the fasteners and remove the oil tube.



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3. Remove the bolts and the camshaft cap.



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Left hand (LH) camshaft and carrier assembly

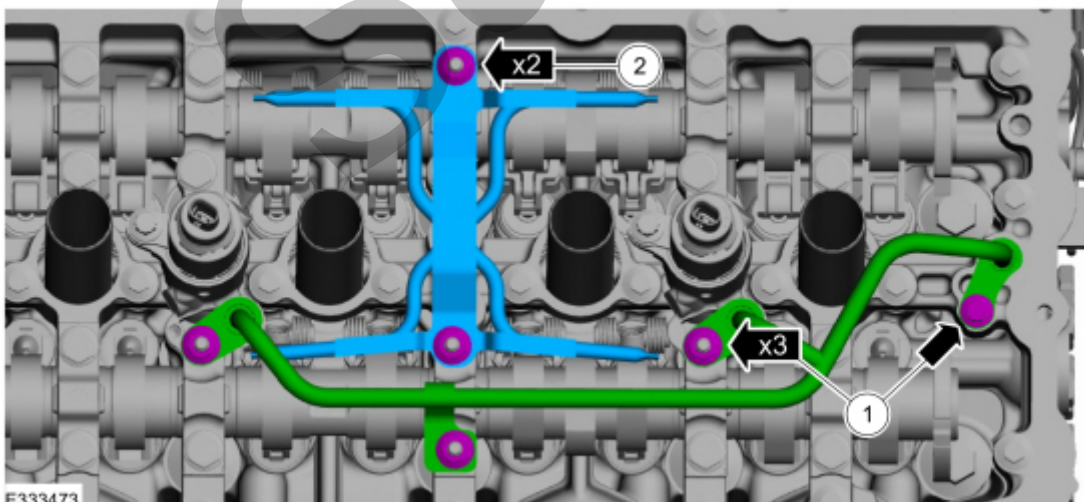
6. Remove the LH (left-hand) timing chain.

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

7. If equipped with dual generators, remove the LH (left-hand) valve cover.

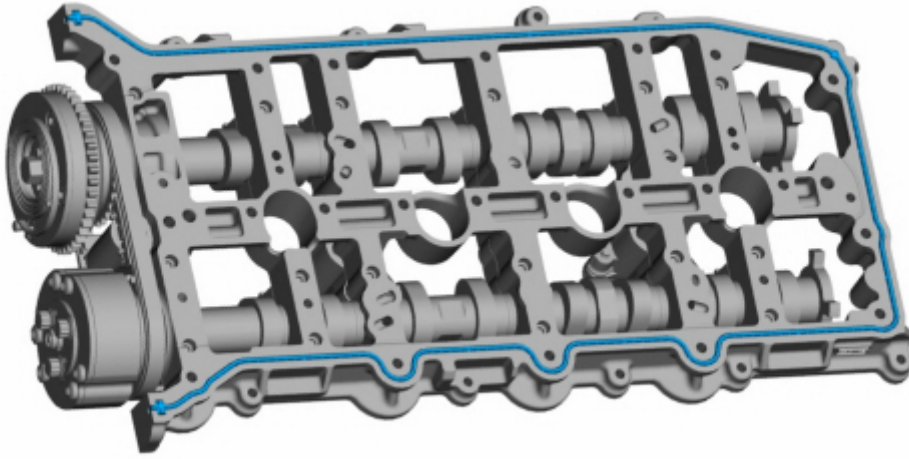
Refer to: [Valve Cover LH - Vehicles With: Dual Generators](#)(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).

8.
 - Loosen the fasteners and remove the oil tube.
 - Loosen the fasteners and remove the oil tube.



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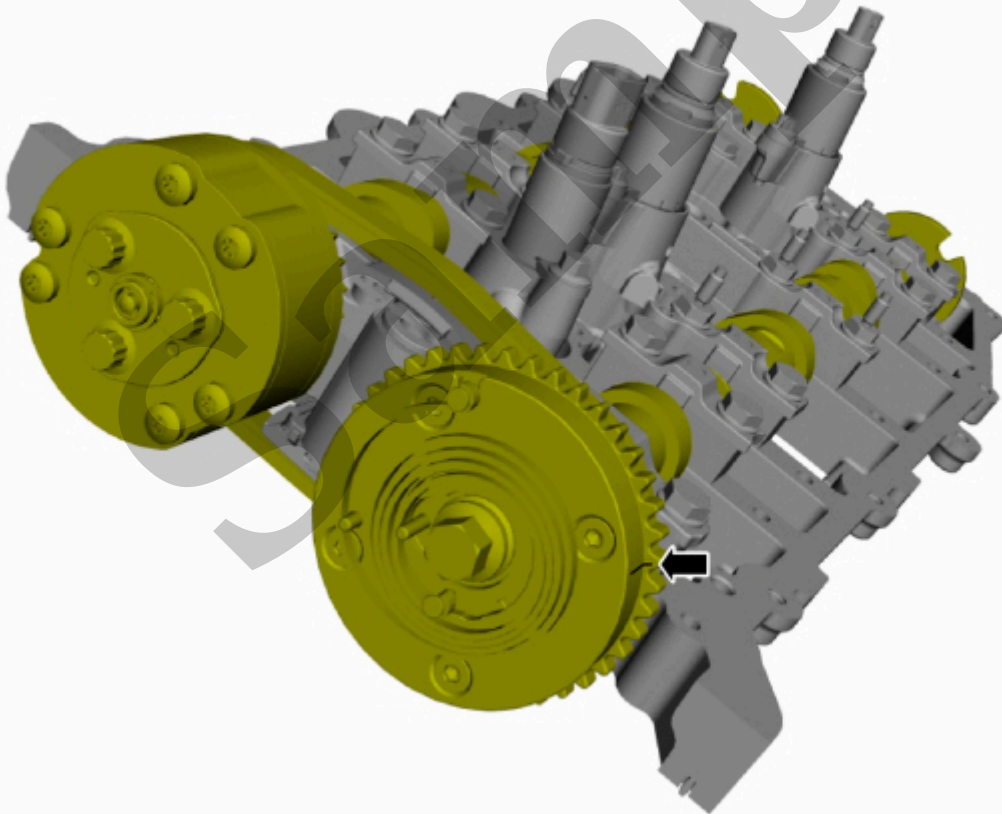
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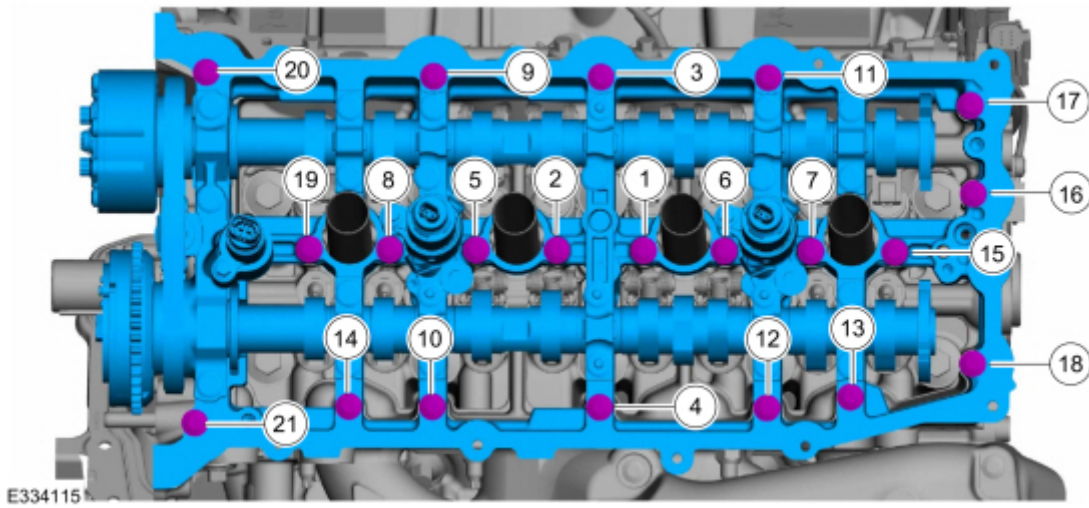
2. Make sure the timing mark is in the position shown.



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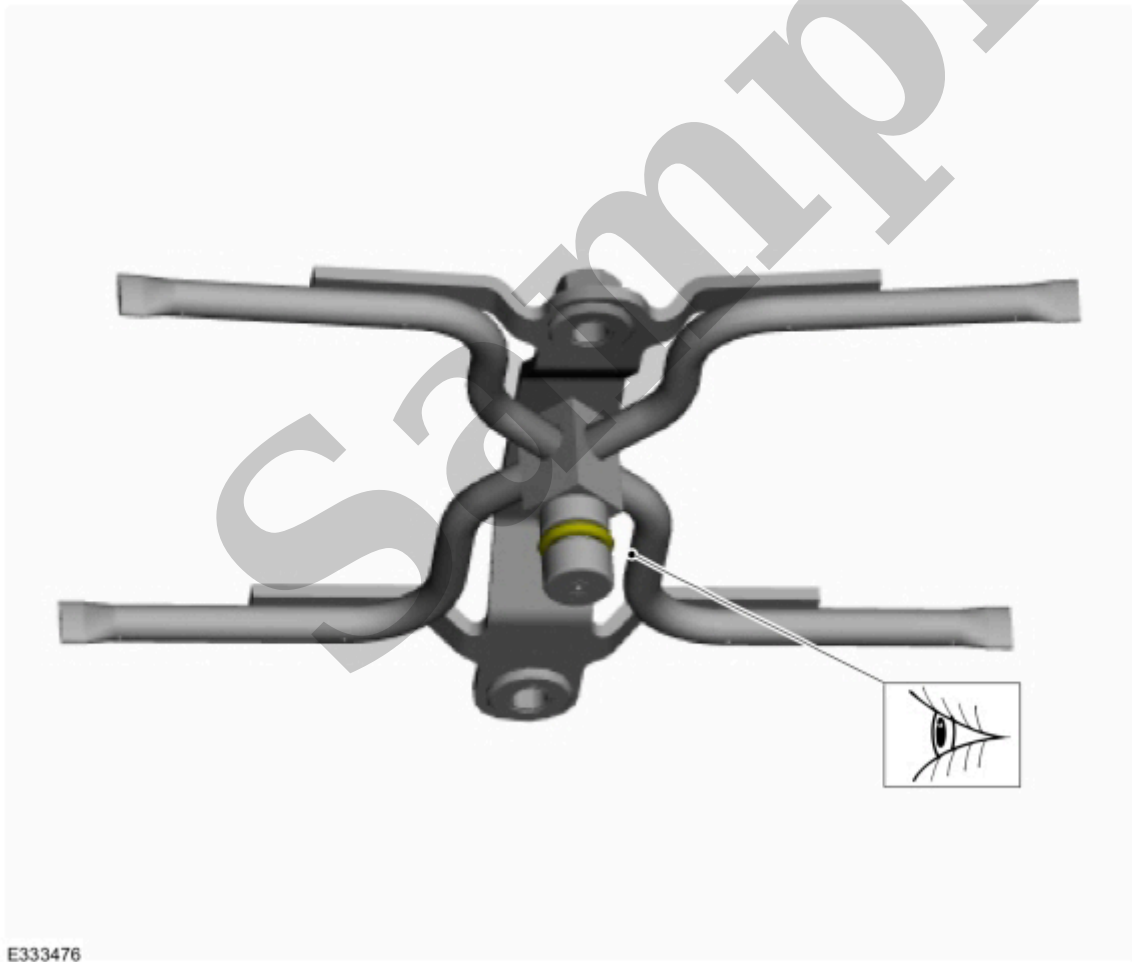
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3. Lubricate the camshafts with clean engine oil.



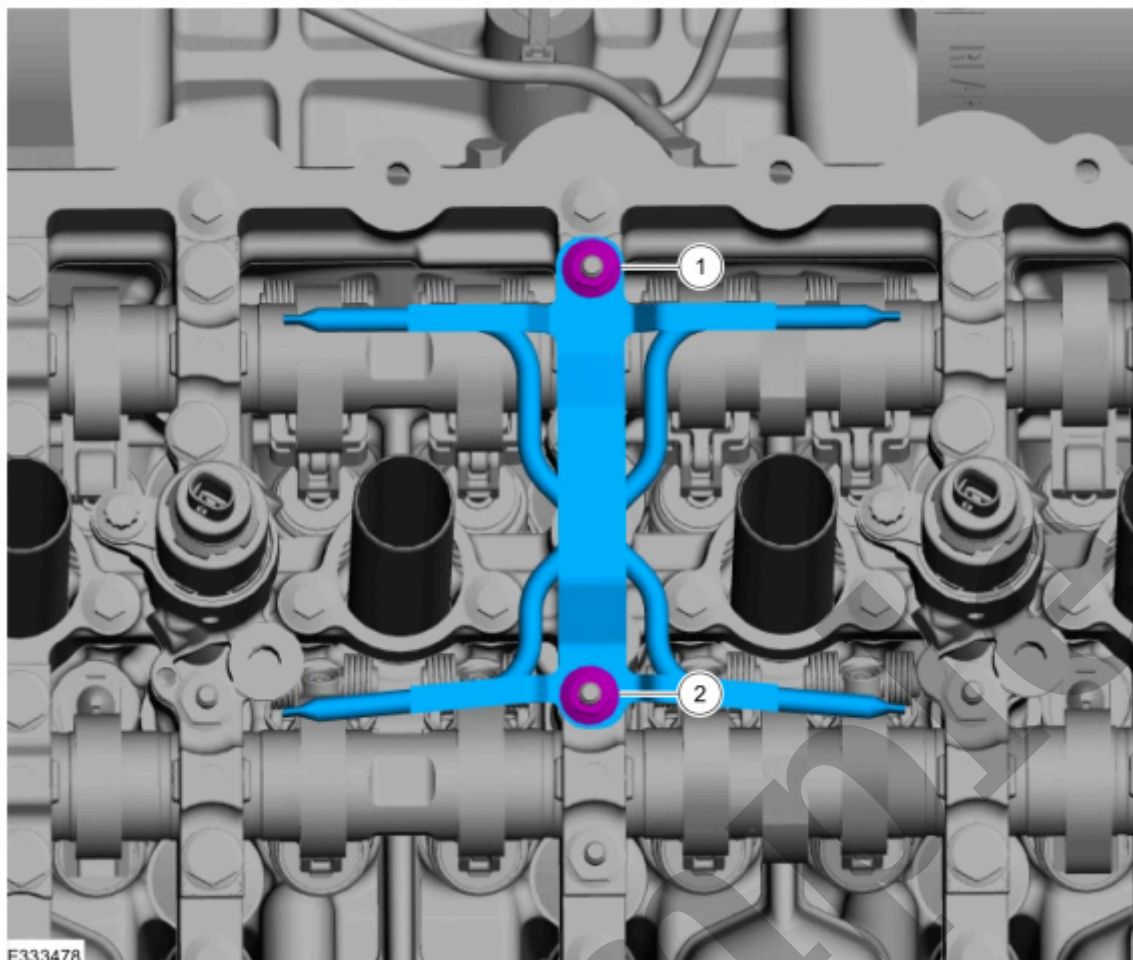
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6. Inspect the O-ring seal. If damaged, discard the oil tube assembly.



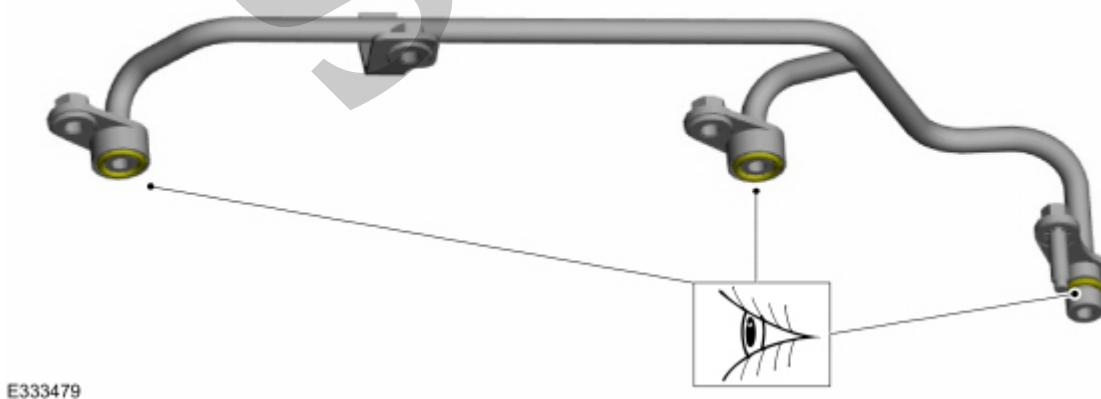
[Click here to learn about symbols, color coding, and icons used in this manual.](#)

7. Apply clean engine oil to the O-ring seal and oil tube.



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9. Inspect the seals. If damaged, discard the oil tube assembly.



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10. Apply clean engine oil to the seals and oil tube.