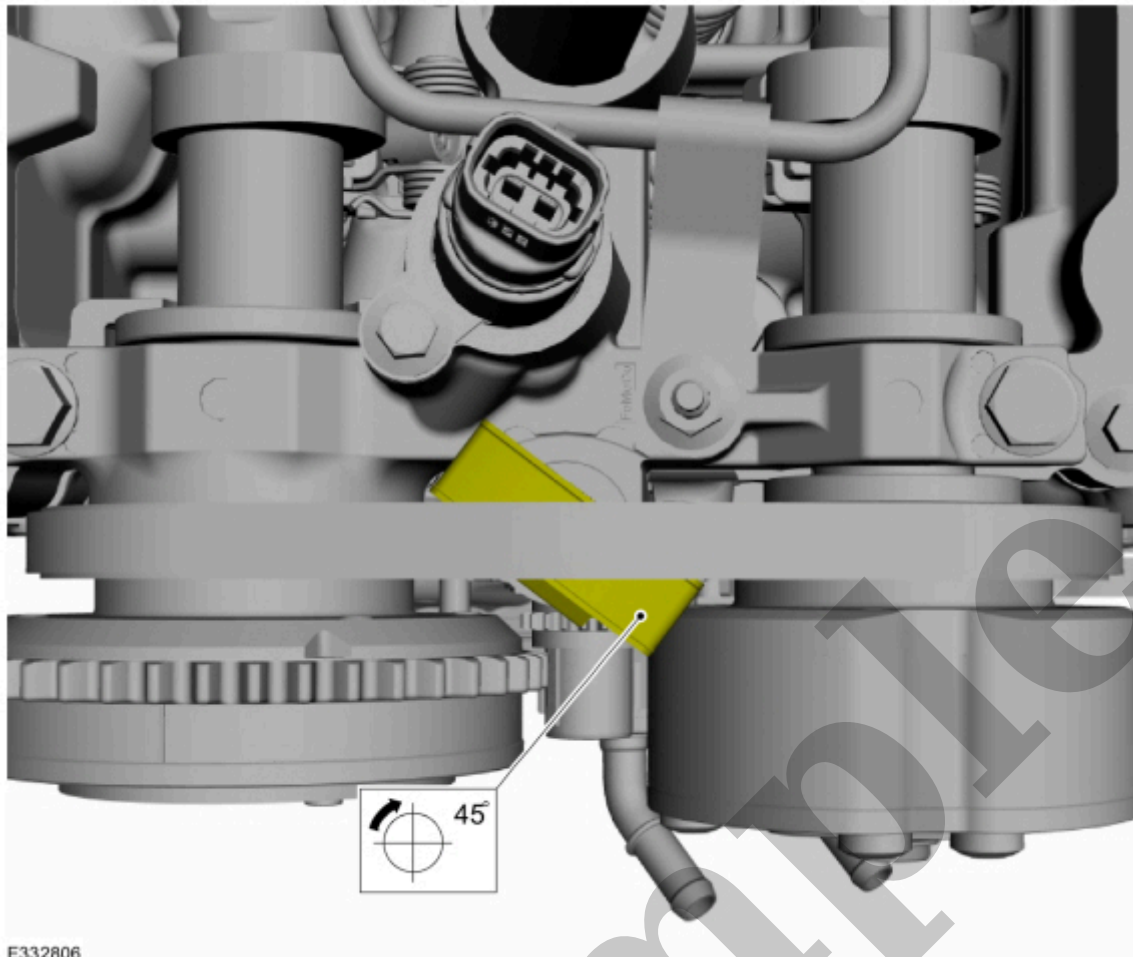


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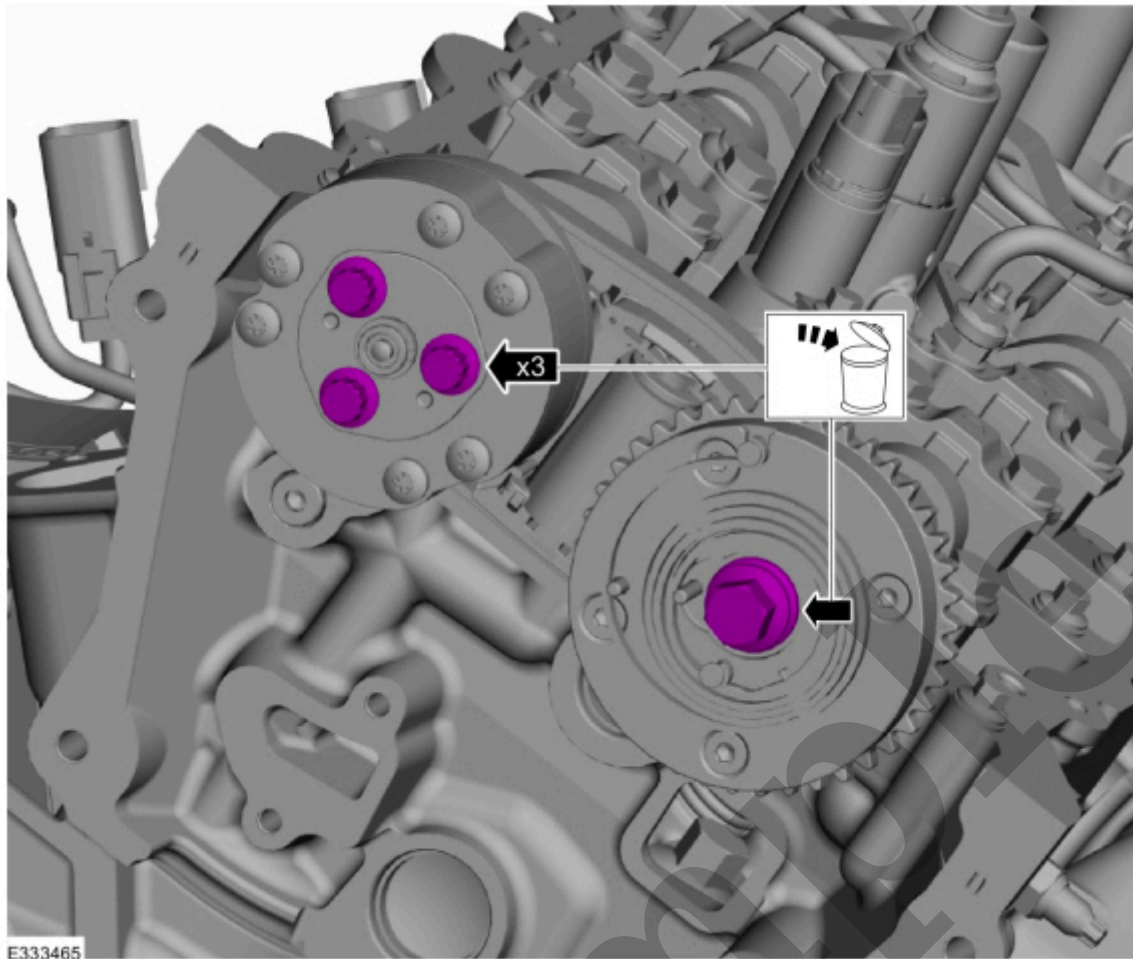
2016 Ford F-350 Super Duty Service and Repair Manual

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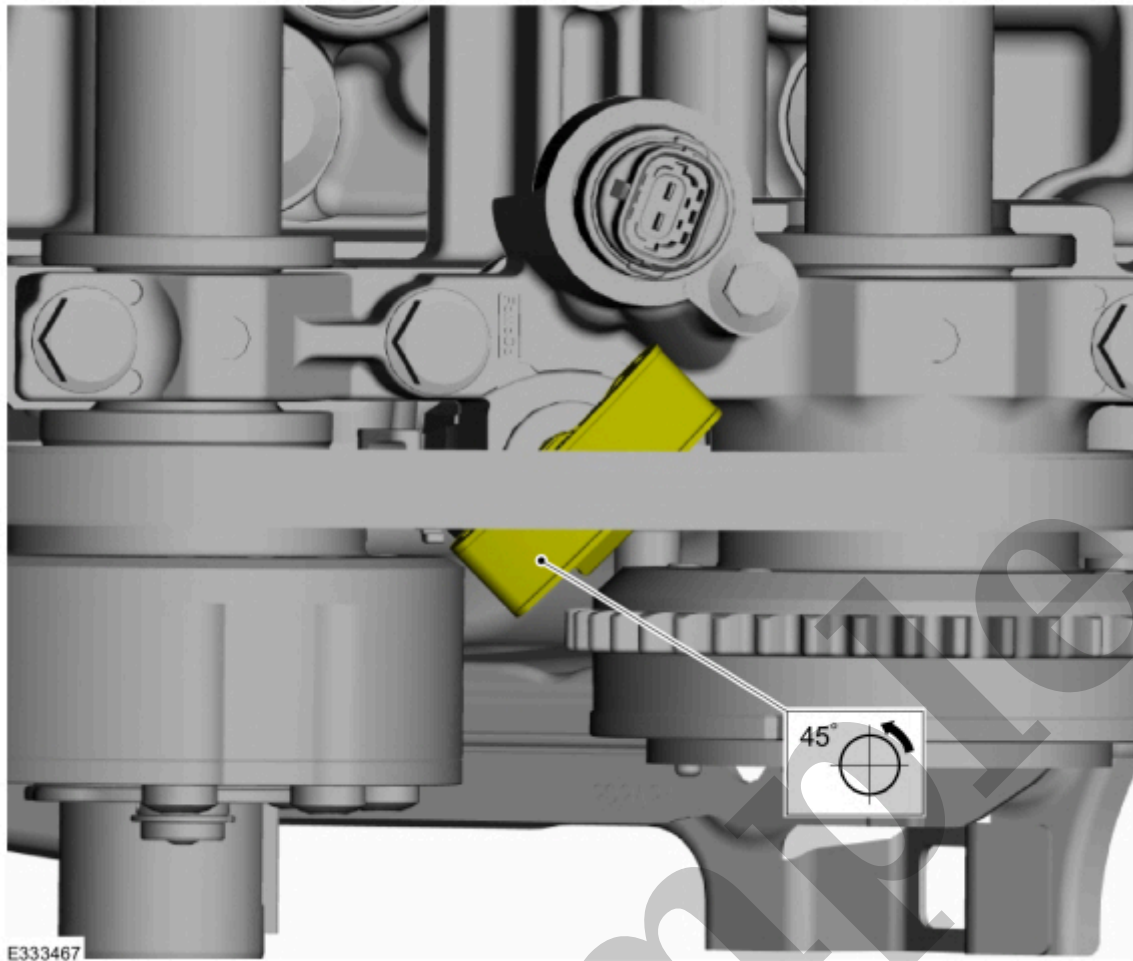
5. Remove the VCT (variable camshaft timing) assemblies and the secondary timing chain.



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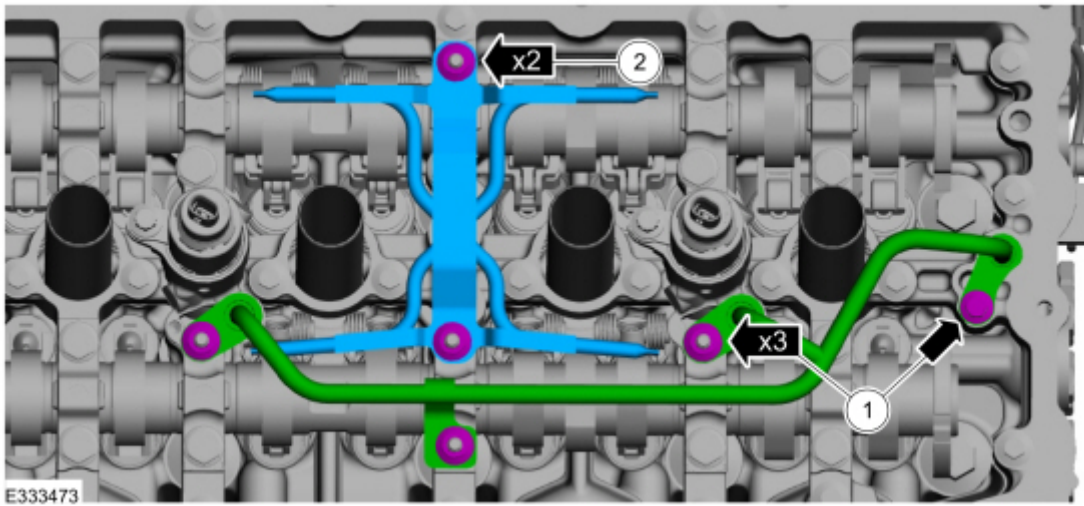
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9. Slide the Variable Camshaft Timing VCT (variable camshaft timing) assemblies and secondary timing chain forward 2 mm (0.078 in).



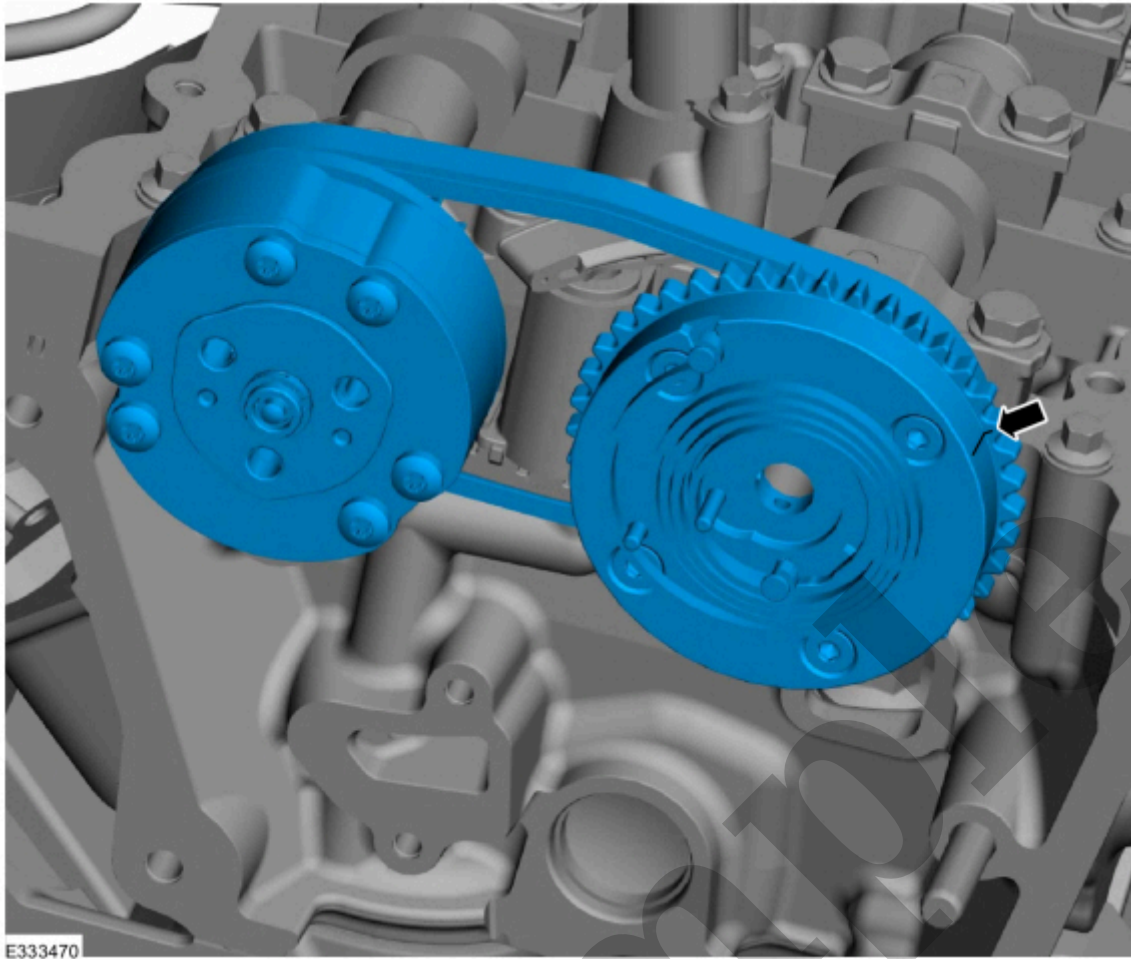
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11. Remove the VCT (variable camshaft timing) assemblies and the secondary timing chain.



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2. Position the secondary timing chain onto the VCT (variable camshaft timing) assemblies. Align the colored links on the secondary timing chain with the timing marks on the VCT (variable camshaft timing) assemblies as shown in the illustration.
 - The timing mark on the intake VCT (variable camshaft timing) assembly should align with the colored link.
 - The timing mark on the exhaust VCT (variable camshaft timing) assembly should align with the colored link.



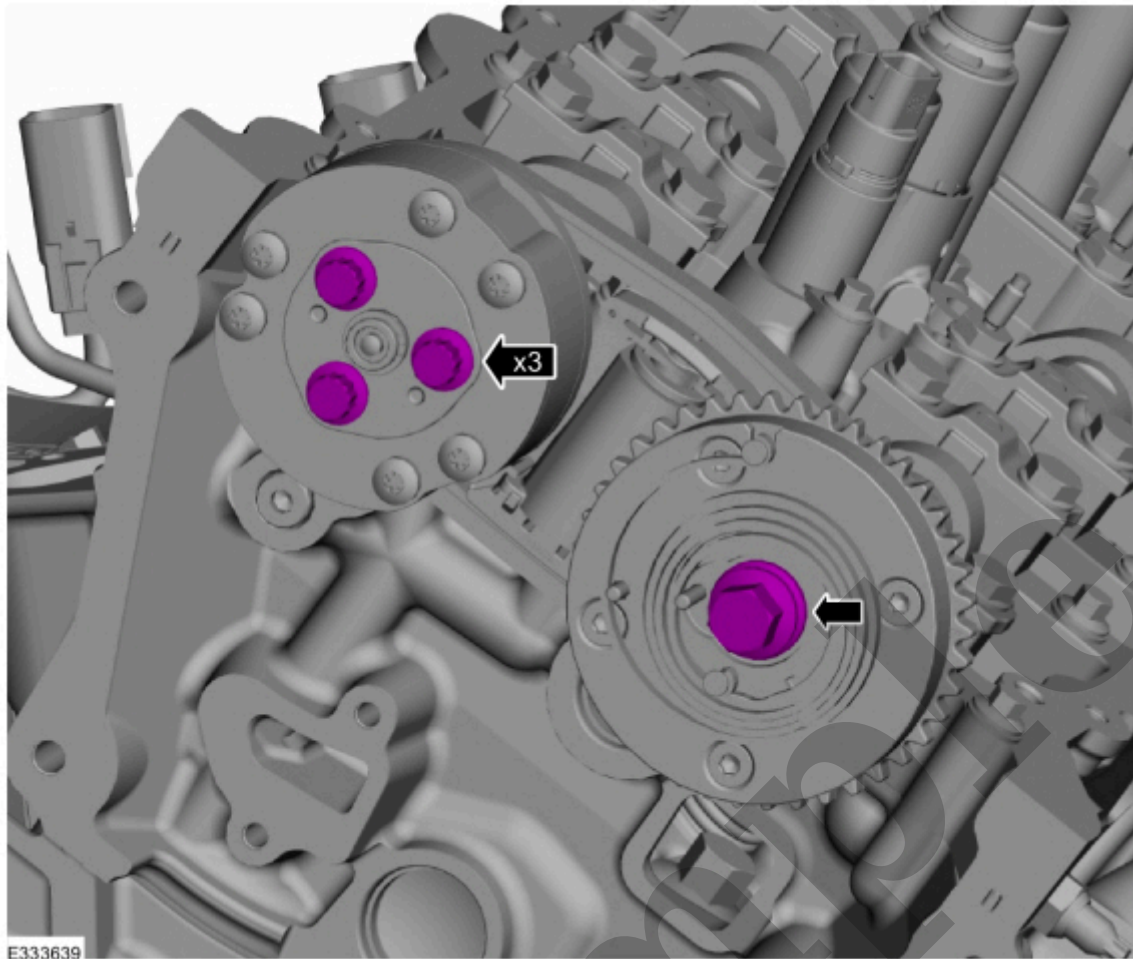
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4. **NOTE**

It may be necessary to rotate the exhaust camshaft slightly (using a wrench on the flats of the camshaft) to seat the VCT (variable camshaft timing) assemblies onto the camshafts.

Rotate the secondary timing chain tensioner clockwise 45 degrees so the ramped area is facing forward and fully seat the VCT (variable camshaft timing) assemblies onto the camshafts.

- If the secondary timing chain is not centered over the tensioner, reposition the VCT (variable camshaft timing) assemblies until they are fully seated on the camshafts.



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6. **NOTE**

Use a wrench on the flats of the camshaft to hold the camshafts while tightening the VCT (variable camshaft timing) assembly bolt.

Tighten the exhaust VCT (variable camshaft timing) assembly bolt.

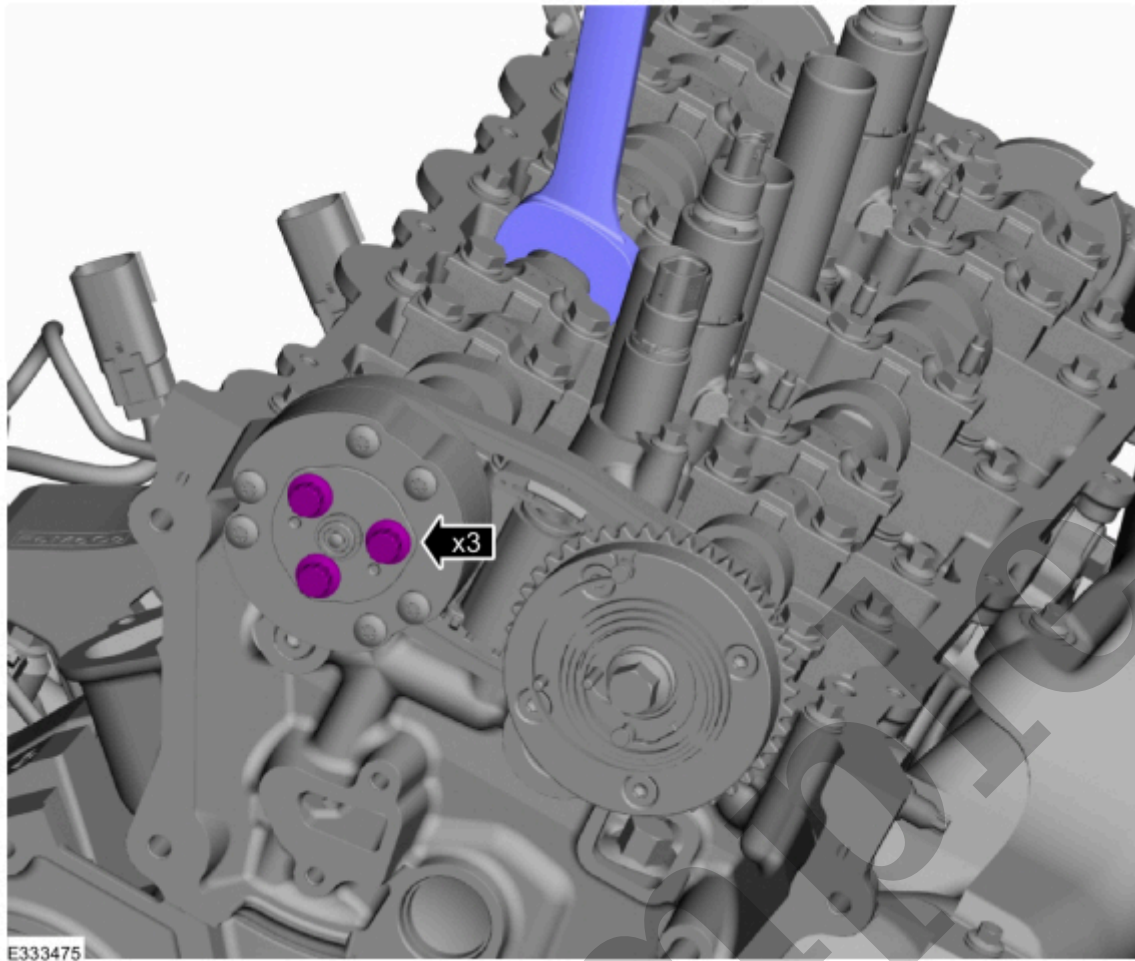
Torque :

Stage 1: 30 lb.ft (40 Nm)

Stage 2: Loosen: 360°

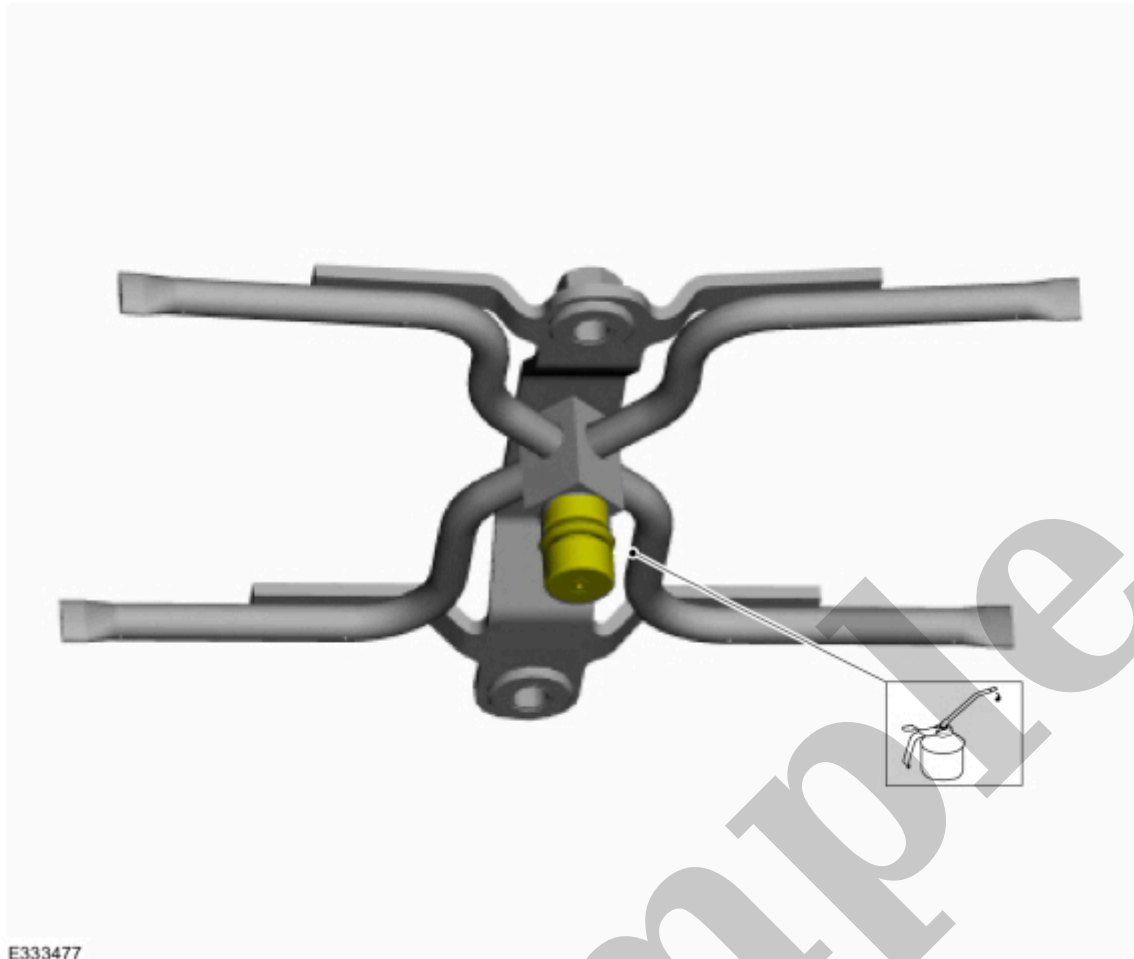
Stage 3: 20 lb.ft (27 Nm)

Stage 4: 150°



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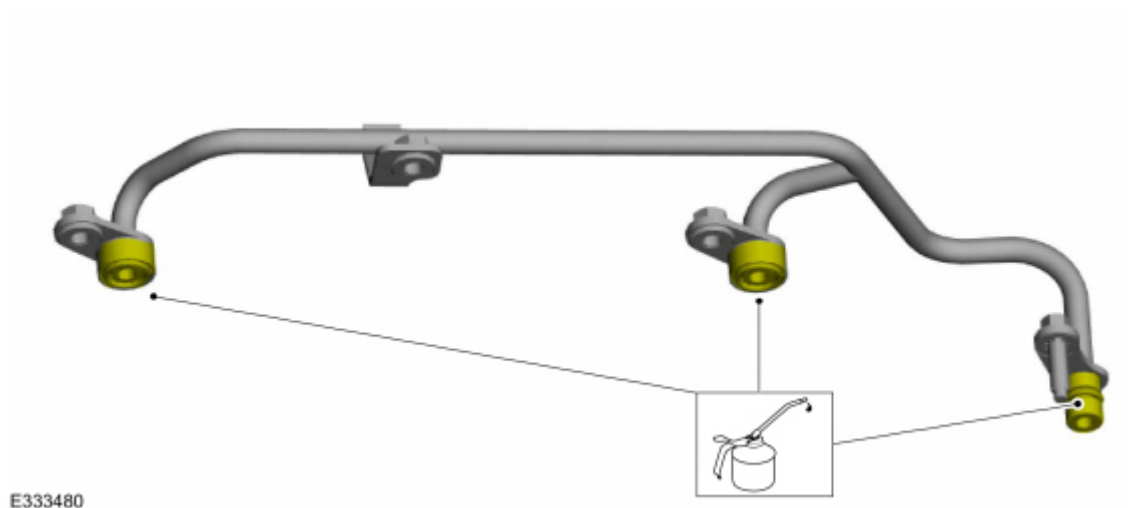
8. Inspect the O-ring seal. If damaged, discard the oil tube assembly.



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10. Install the oil tube and tighten the fasteners in sequence.

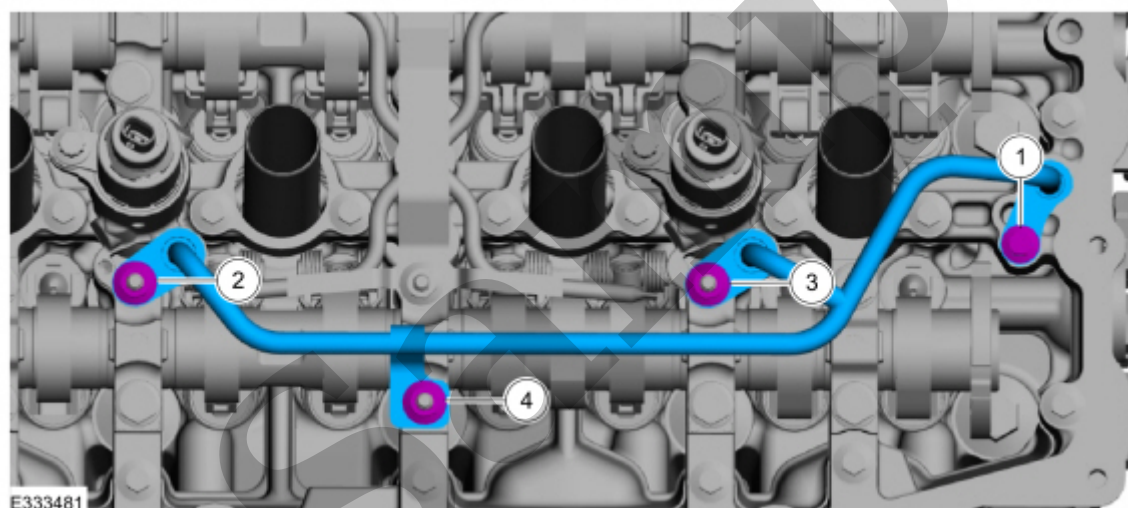
Torque : 89 lb.in (10 Nm)



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13. Install the oil tube and tighten the fasteners in sequence.

Torque : 89 lb.in (10 Nm)



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14. If equipped with dual generators, install 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).

15. Install the LH (left-hand) timing chain.

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

Right hand units