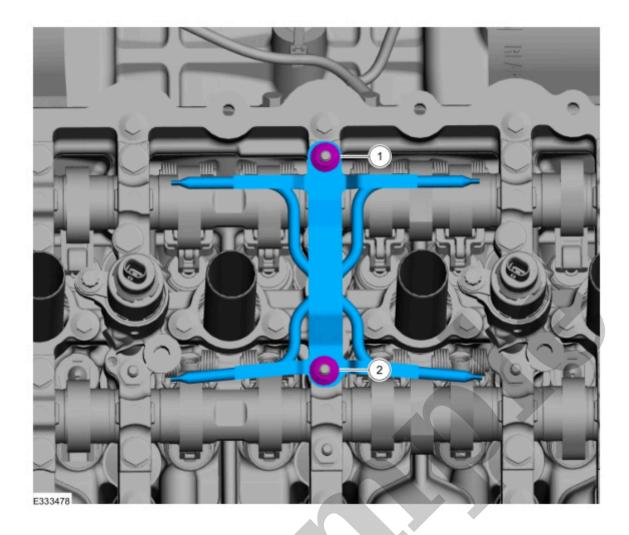


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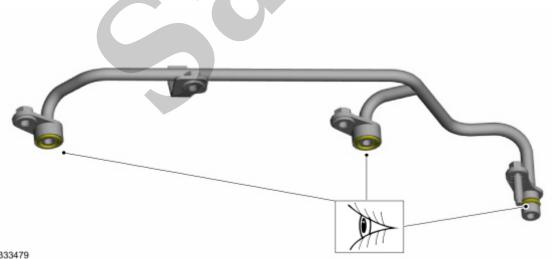
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2016 Ford Fusion Service and Repair Manual

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



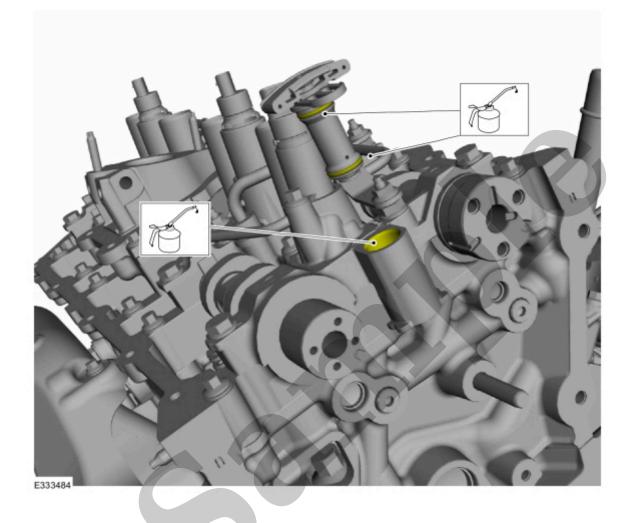
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Click here to learn about symbols, color coding, and icons used in this manual.

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

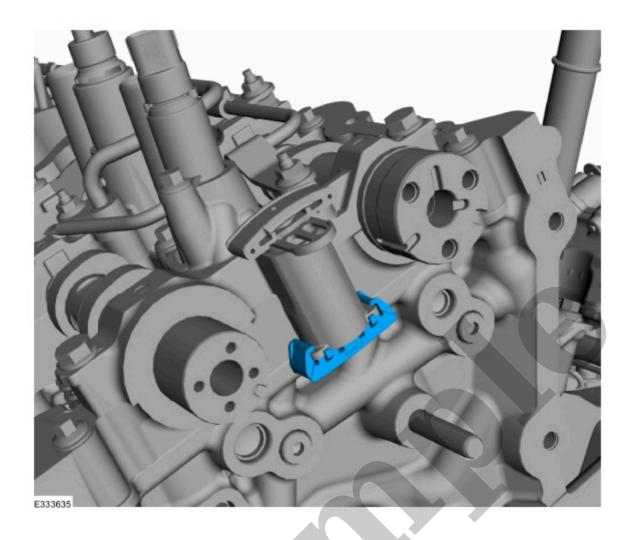
Do not remove the secondary timing chain tensioner shipping clip, until instructed to do so.

20. Apply clean engine oil to the secondary timing chain tensioner O-ring seals and mega cap bore.



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

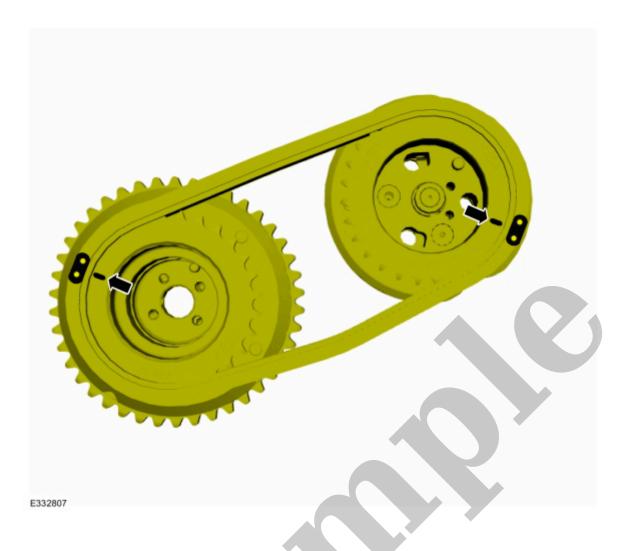
21. Install the secondary timing chain tensioner by pushing it down all the way until a snap is heard and the tensioner is seated all the way down the mega cap bore.



23. **NOTE**

The oil tubes must be removed to access the flats on the camshaft that will be used to tighten the VCT (variable camshaft timing) assembly bolts.

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

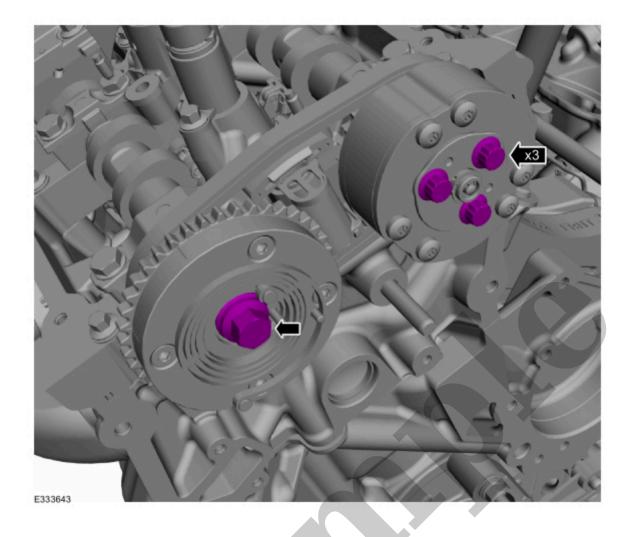


25. **NOTE**

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.

L

Install the VCT (variable camshaft timing) assemblies and the secondary timing chain onto the camshafts. The timing mark on the exhaust VCT (variable camshaft timing) assembly should be in the position shown.



27. **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.

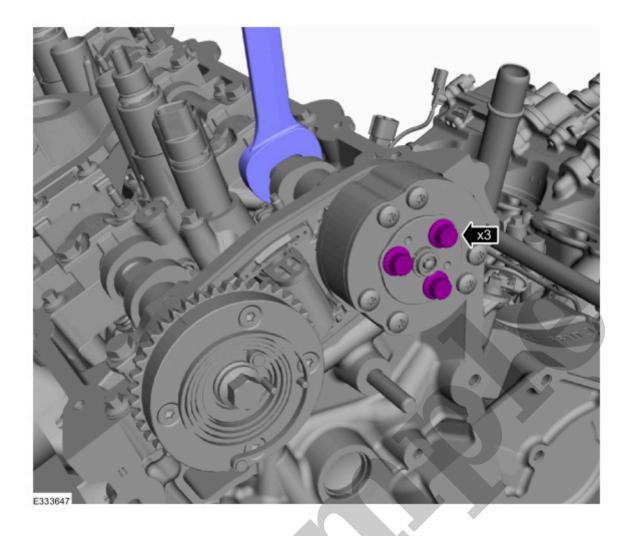
Torque :

Stage 1: 30 lb.ft (40 Nm)

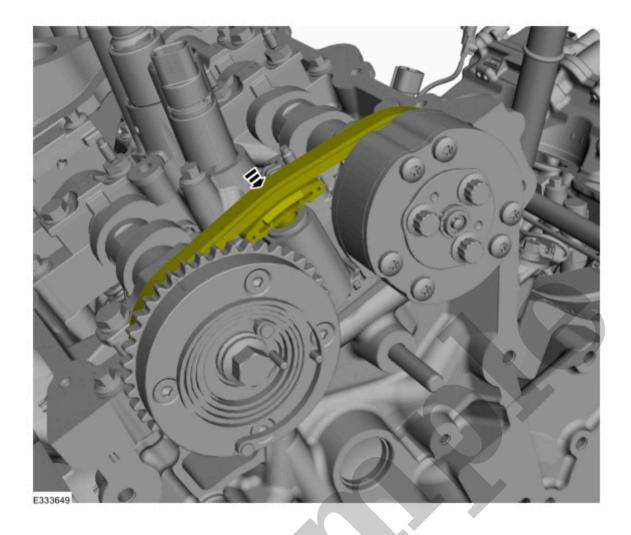
Stage 2: Loosen: 360°

Stage 3: 20 lb.ft (27 Nm)

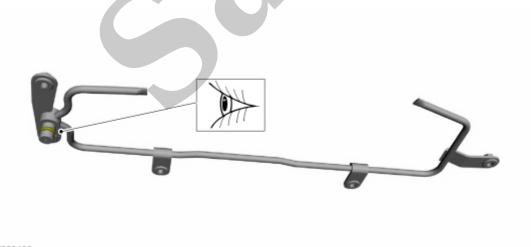
Stage 4: 150°



29. Remove and discard the secondary timing chain tensioner shipping clip.



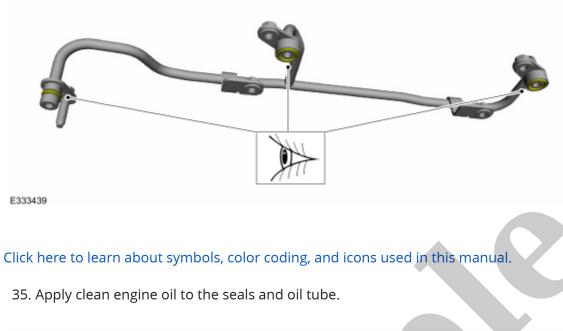
31. Inspect the O-ring seal. If damaged, discard the oil tube assembly.



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



E333439



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

Torque : 89 lb.in (10 Nm)



Timing Chain Tensioner

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

Timing Chain Tensioner

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.

RH and LH timing chain tensioners

1. Remove the engine front cover.

Refer to: Engine Front Cover(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).

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

RH timing chain tensioner

2. NOTICE

The timing chain must remain in its original position on the VCT (variable camshaft timing) unit using the scribed marks, or damage to valves and pistons will result.

Scribe a location mark on the RH (right-hand) timing chain and the VCT (variable camshaft timing) unit.