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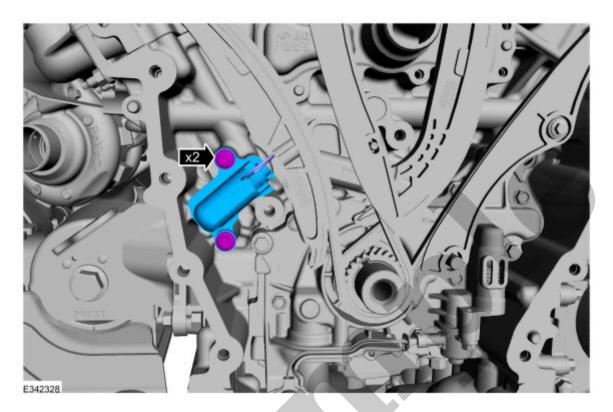
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2013 Ford E-150 Service and Repair Manual

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20. Position the RH (right-hand) timing chain tensioner with the end of the tensioner correctly engaged to the tensioner arm and install the fasteners.

Torque: 89 lb.in (10 Nm)



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

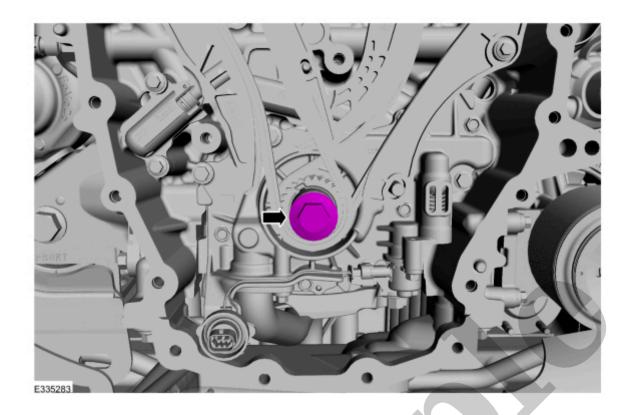
21. Remove the tensioner pin.

23. Install the engine front cover.

Refer to: Engine Front Cover(303-01C Engine - 3.5L EcoBoost (BM), Removal and Installation).

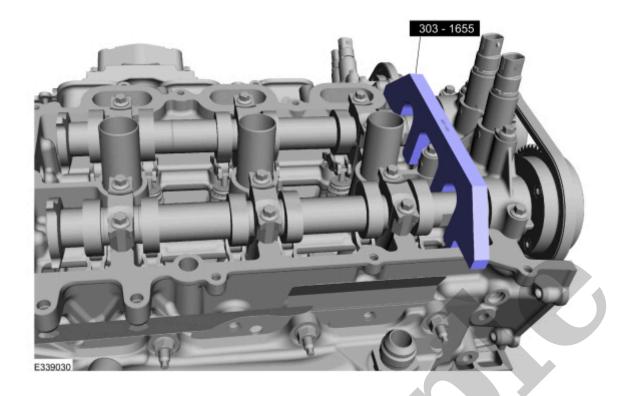
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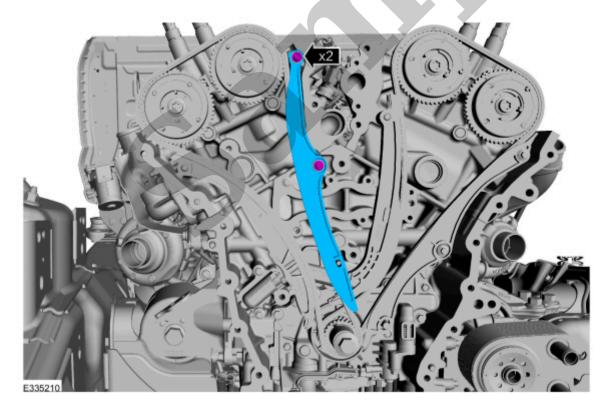


- 3. 1. Rotate the crankshaft clockwise.
 - 2. Position the crankshaft sprocket keyway at the 11 o'clock position.





6. Remove the bolts and the RH (right-hand) timing chain guide.



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

7. Remove the bolts and the RH (right-hand) timing chain tensioner.



LH timing chain

10. **NOTE**

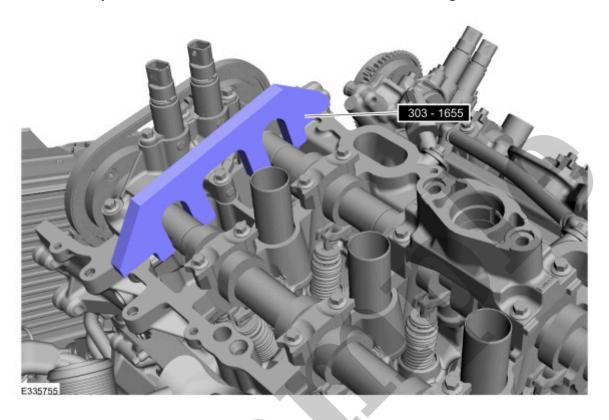
The Camshaft Holding Tool will hold the camshafts in the TDC (top dead center) position.

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

12. **NOTE**

The Camshaft Holding Tool will hold the camshafts in the TDC (top dead center) position.

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

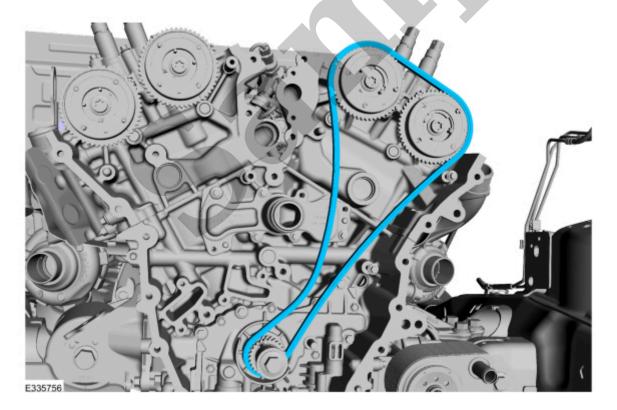


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13. Remove the bolts and the LH (left-hand) timing chain guide.



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

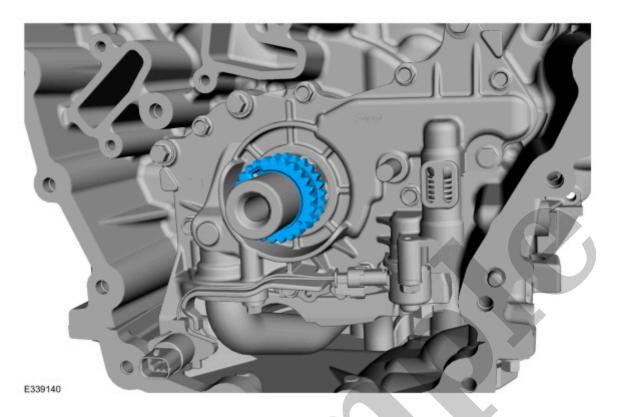


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17. Remove the crankshaft pulley bolt.

LH timing chain

1. Install the timing chain sprocket.

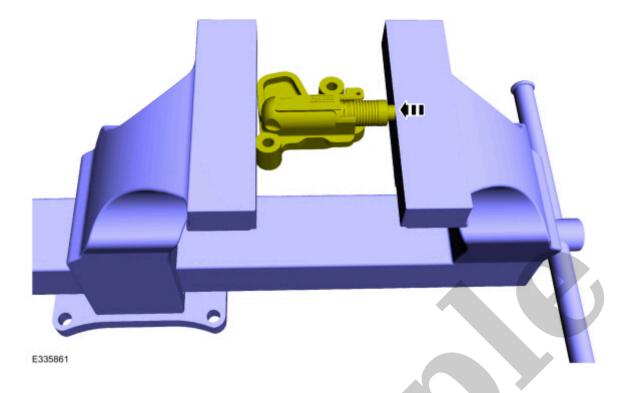


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2. NOTE

The crankshaft sprocket is reversible with a timing mark on each face. For installation of each timing chain, utilize the timing mark on the front face of the crankshaft sprocket for chain alignment.

- 1. Install the LH (left-hand) timing chain with the single colored links aligned with the timing marks on the VCT (variable camshaft timing) units.
- 2. Install the double colored links so they straddle the timing mark on the crankshaft sprocket.



5. NOTE

Use of a commercially available tools with a curved radius in the range of 10mm - 15mm is suggested for use in resetting the ratchet clip. Examples are a 8mm closed end wrench, 12x12mm piece of bar stock, T40 to T50 Torx screwdriver or 3/8 wobble style socket extender.

Using a commercially available wrench, push down on the ratchet clip so the ratchet clip pushes outward.