


Engine - 5.0L Ti-VCT V8 (308kW/418PS) - Timing Chain Print**Removal and Installation****Special Tool(s) / General Equipment**

| | |
|---|-------------------------------------|
|  | 303-448 Holding Tool, Crankshaft |
| Vise | |

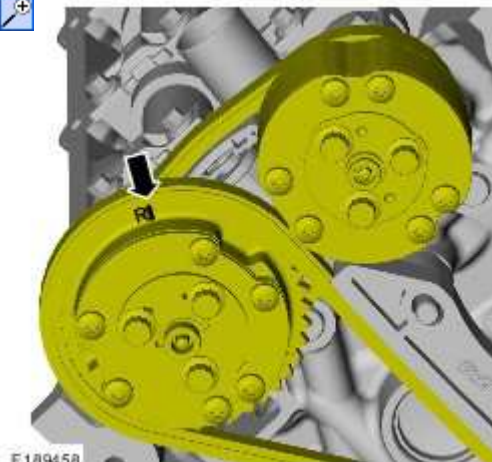
Removal

RH and LH timing chains

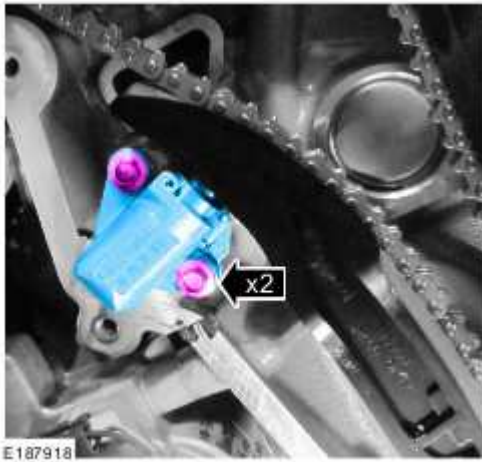
1. Refer to: [Engine Front Cover](#) (303-01B Engine - 5.0L Ti-VCT V8 (308kW/418PS), Removal and Installation).
2. Use *Special Service Tool*: [303-448](#).



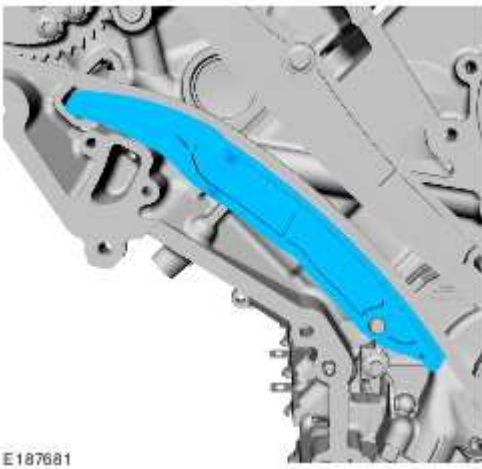
3. Verify the timing mark on the **RH (right-hand) VCT (variable camshaft timing)** unit is on top, if not, rotate the crankshaft clockwise one complete revolution so the keyway is at the 12 o'clock position.



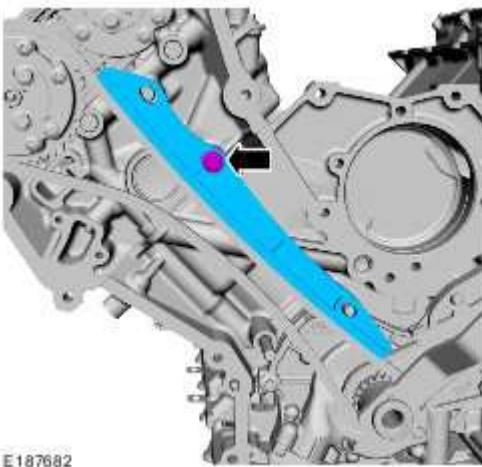
- 4.




5.



6.



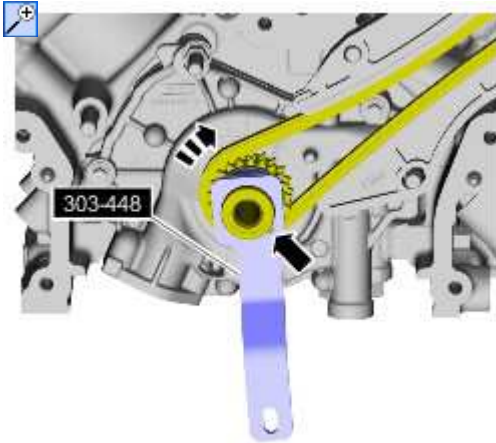
7.

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LH timing chain

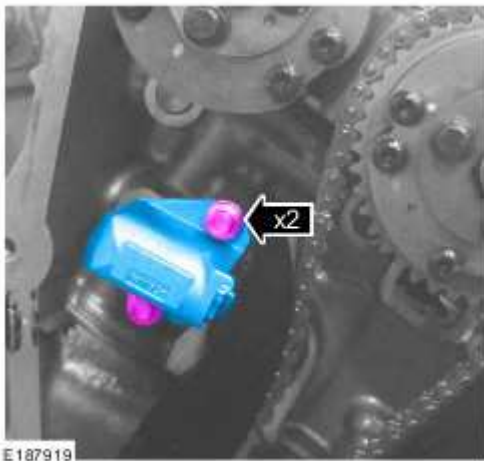
8. Using the special tool, rotate the crankshaft clockwise until the keyway is at the 12 o'clock position.

Use Special Service Tool: 303-448.



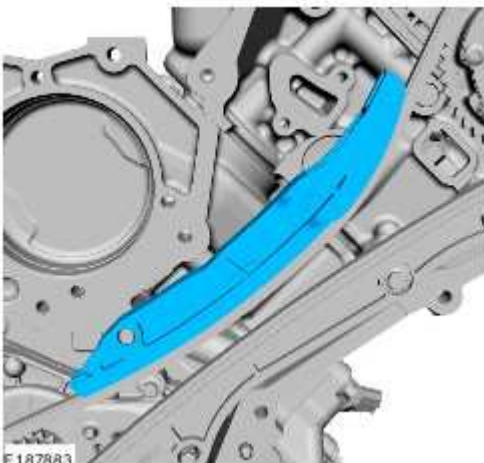
E187882

9.



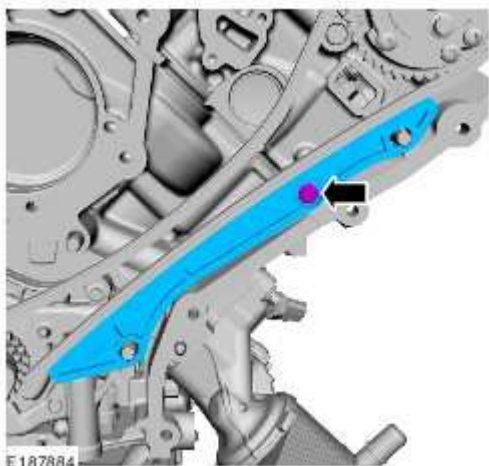
E187919

10.

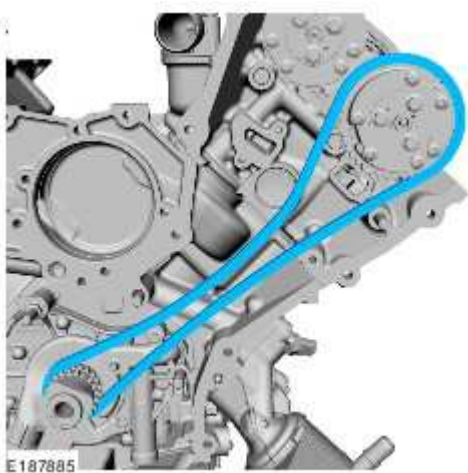


E187883

11.



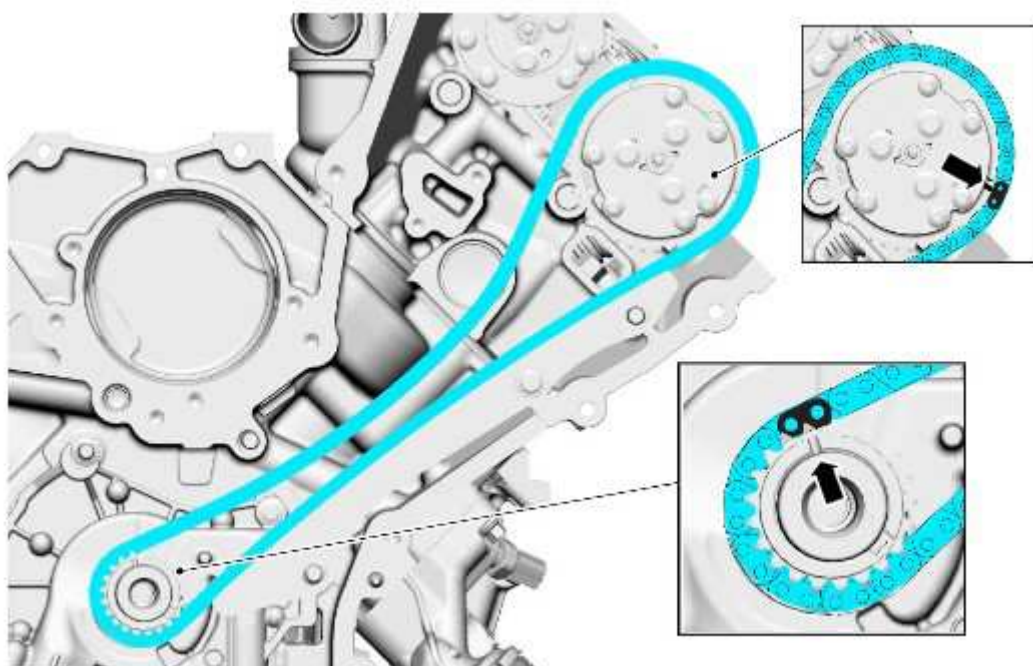
12.



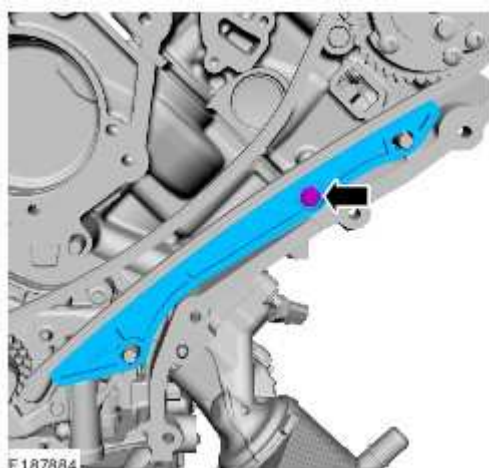
Installation

LH timing chain

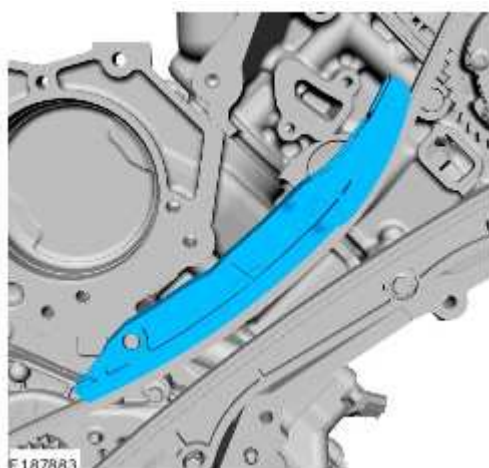
1. NOTE: Make sure that the installation marks are aligned.




2. Torque: 10 Nm



3.



4.  **WARNING:** The tensioner is under spring tension. Be careful when handling the tensioner. Failure to follow this instruction may result in personal injury.

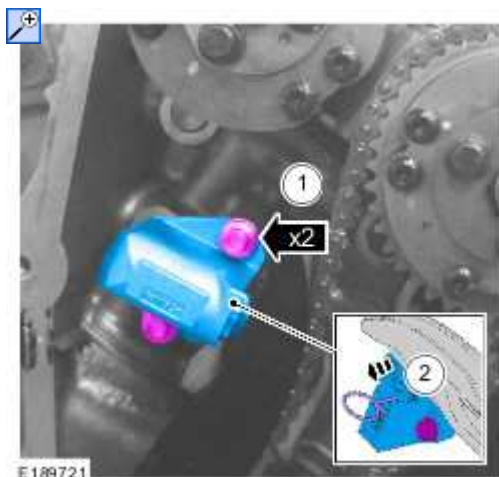
1. Compress the primary timing chain tensioner.

Use the General Equipment: [Vise](#)

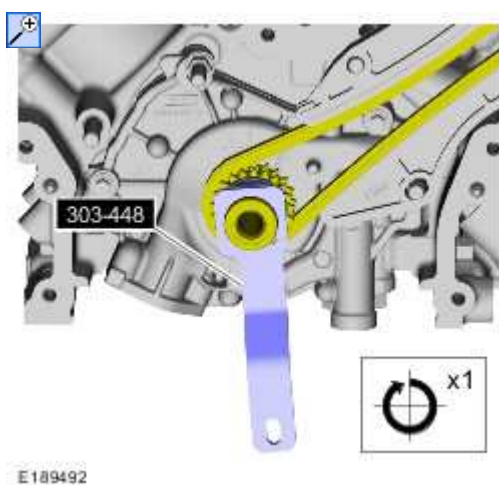
2.

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5. Torque: 10 Nm

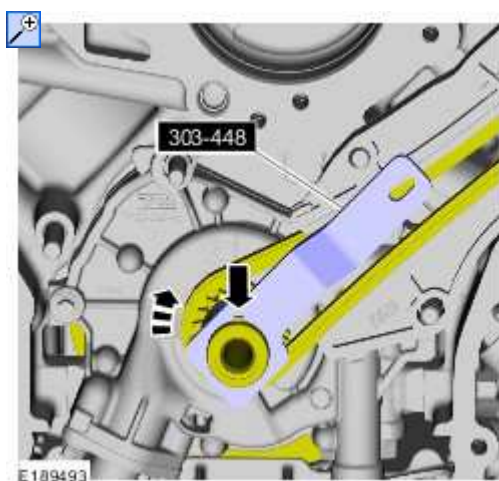


6. Use Special Service Tool: [303-448](#).



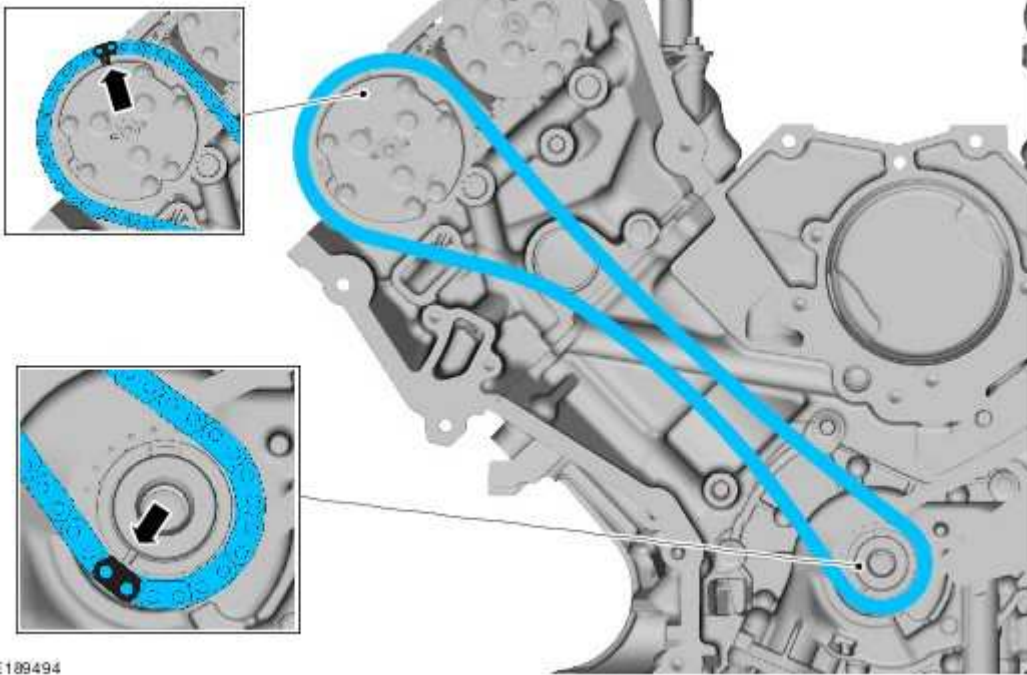
7. Using the special tool, rotate the crankshaft clockwise until the keyway is at the 12 o'clock position.

Use Special Service Tool: [303-448](#).



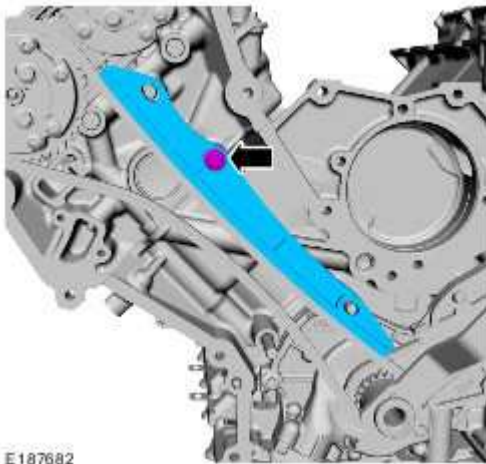
RH and LH timing chains

8. NOTE: Make sure that the installation marks are aligned.



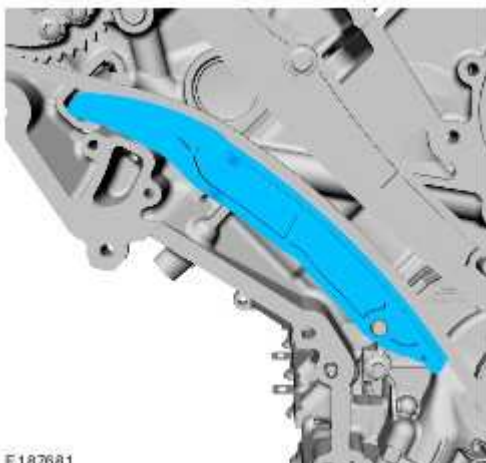
E189494

9. Torque: 10 Nm




E187682

10.



E187681

11.  **WARNING:** The tensioner is under spring tension. Be careful when handling the tensioner. Failure to follow this instruction may result in personal injury.

1. Compress the primary timing chain tensioner.

Use the General Equipment: [Vise](#)

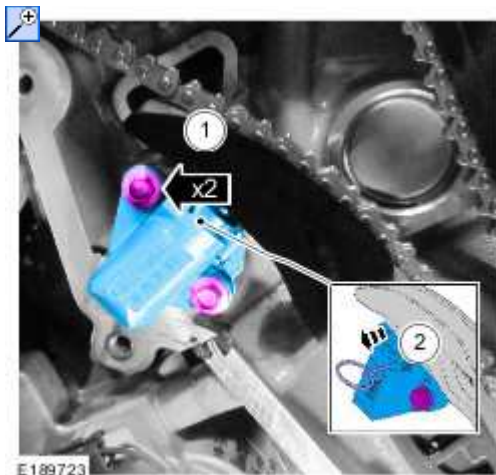
- 2.

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- 12.

1. *Torque: 10 Nm*

- 2.



13. Refer to: [Engine Front Cover](#) (303-01B Engine - 5.0L Ti-VCT V8 (308kW/418PS), Removal and Installation).