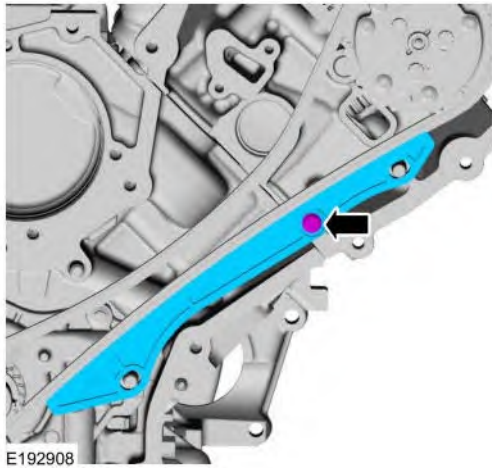
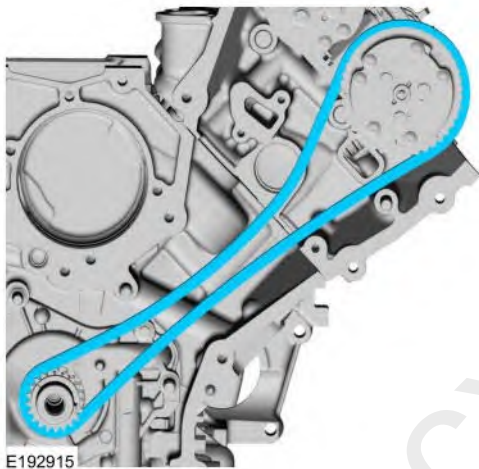




13.

Remove the LH timing chain.



REMOVAL AND INSTALLATION > TIMING CHAIN > INSTALLATION

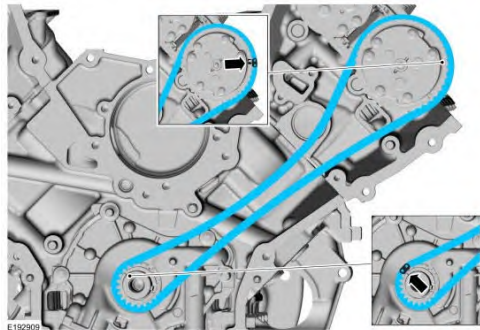
LH timing chain

1.

Install the LH timing chain.

Align the colored link on the timing chain with the timing mark on the LHVCT assembly.

Align the remaining colored link on the timing chain with the timing mark on the crankshaft sprocket.



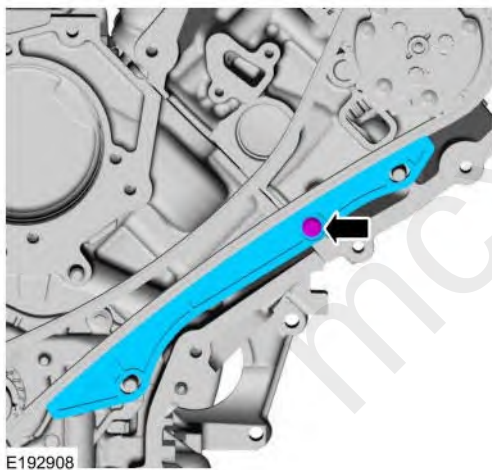
2.

 **NOTE:** It may be necessary to rotate the crankshaft slightly to provide enough slack in the chain to install the LH timing chain guide. Return the crankshaft keyway to the 3:30 position after installing the LH timing chain guide.

Install the LH timing chain guide and bolt.

Torque

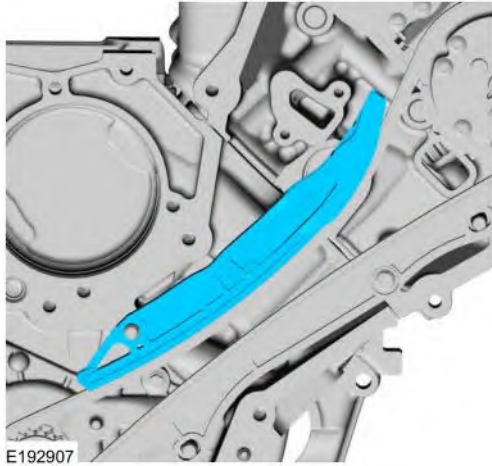
: 89 lb.in (10 Nm)



3.

 **NOTE:** It may be necessary to rotate the crankshaft slightly to provide enough slack in the chain to install the LH timing chain arm. Return the crankshaft keyway to the 3:30 position after installing the LH timing chain arm.

Install the LH timing chain tensioner arm.



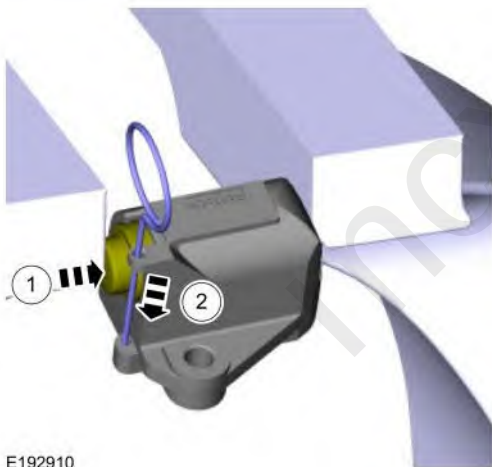
4.

1.

Compress the primary timing chain tensioner plunger, using an edge of a vise.

2.

Install a suitable pin into the hole of the tensioner housing to hold the plunger in place during installation.



5.

1.

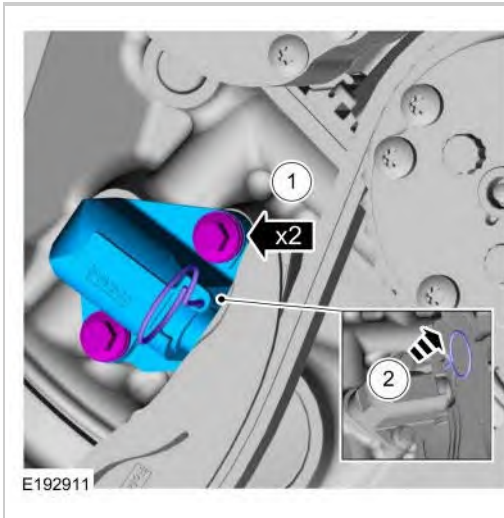
Install the LH primary timing chain tensioner and bolts.

Torque

: 89 lb.in (10 Nm)

2.

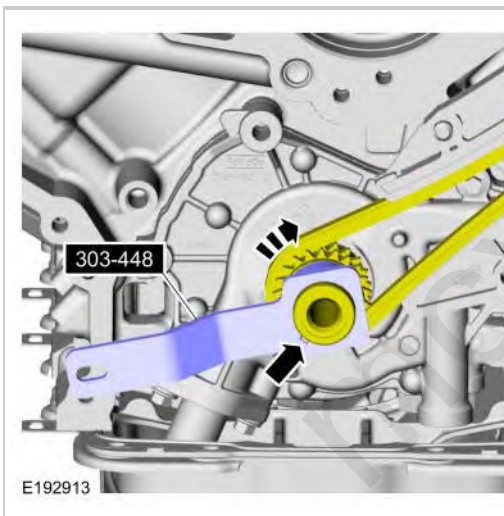
Remove the holding pin from the tensioner.



6.

Using the special tool, rotate the crankshaft clockwise until the keyway is at the 7:30 position.

Use Special Service Tool: 303-448 (T93P-6303-A) Holding Tool, Crankshaft.



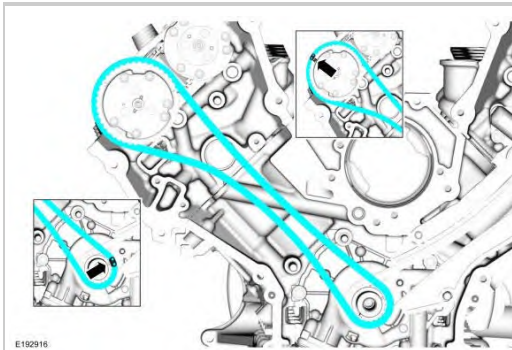
RH and LH timing chains

7.

Install the RH timing chain.

Align the colored link on the timing chain with the timing mark on the RHVCT assembly.

Align the remaining colored link on the timing chain with the timing mark on the crankshaft sprocket.



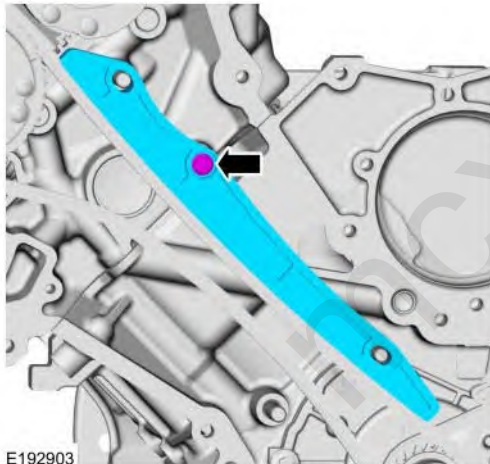
8.

 **NOTE:** It may be necessary to rotate the crankshaft slightly to provide enough slack in the chain to install the RH timing chain guide. Return the crankshaft keyway to the 7:30 position after installing the RH timing chain guide.

Install the RH timing chain guide and bolt.

Torque

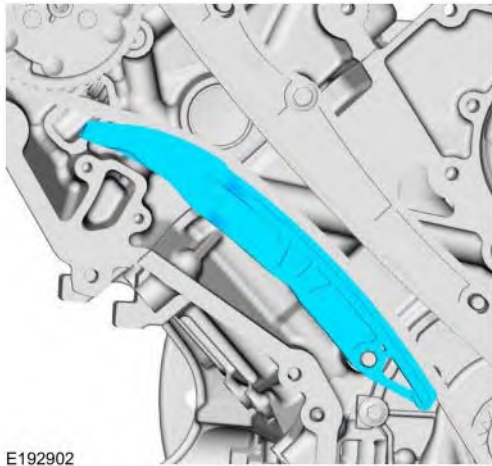
: 89 lb.in (10 Nm)



9.

 **NOTE:** It may be necessary to rotate the crankshaft slightly to provide enough slack in the chain to install the RH timing chain arm. Return the crankshaft keyway to the 7:30 position after installing the RH timing chain arm.

Install the RH timing chain tensioner arm.



E192902

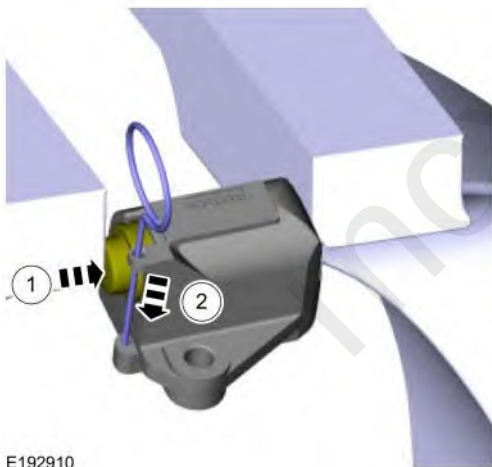
10.

1.

Compress the primary timing chain tensioner plunger, using an edge of a vise.

2.

Install a suitable pin into the hole of the tensioner housing to hold the plunger in place during installation.



E192910

11.

1.

Install the RH primary timing chain tensioner and bolts.

Torque

: 89 lb.in (10 Nm)

2.