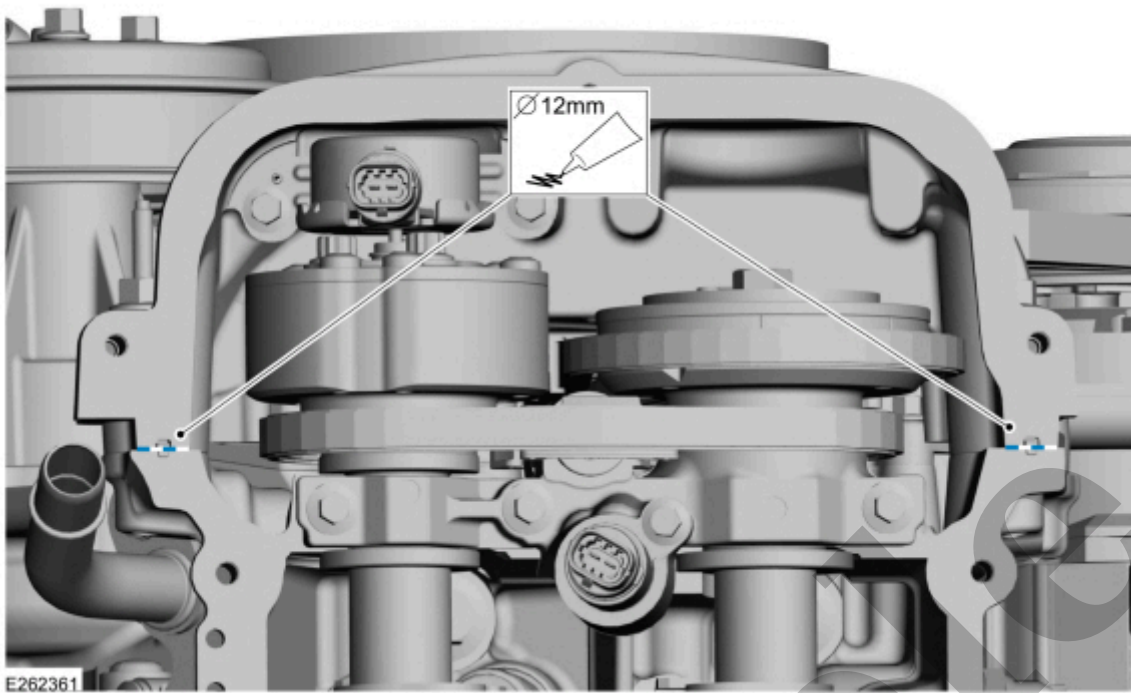


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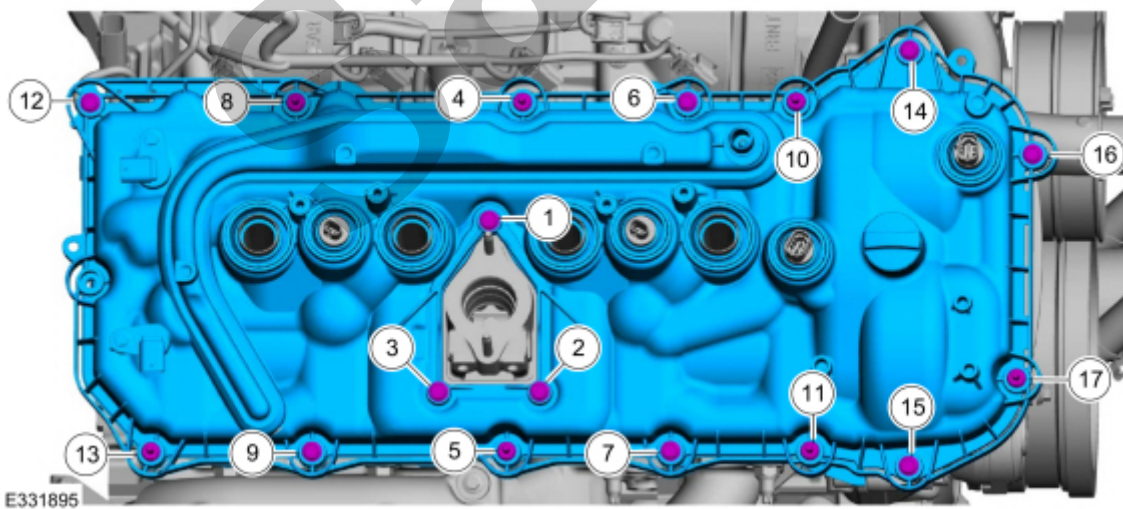
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101. Install the valve cover and tighten the bolts.

Torque :

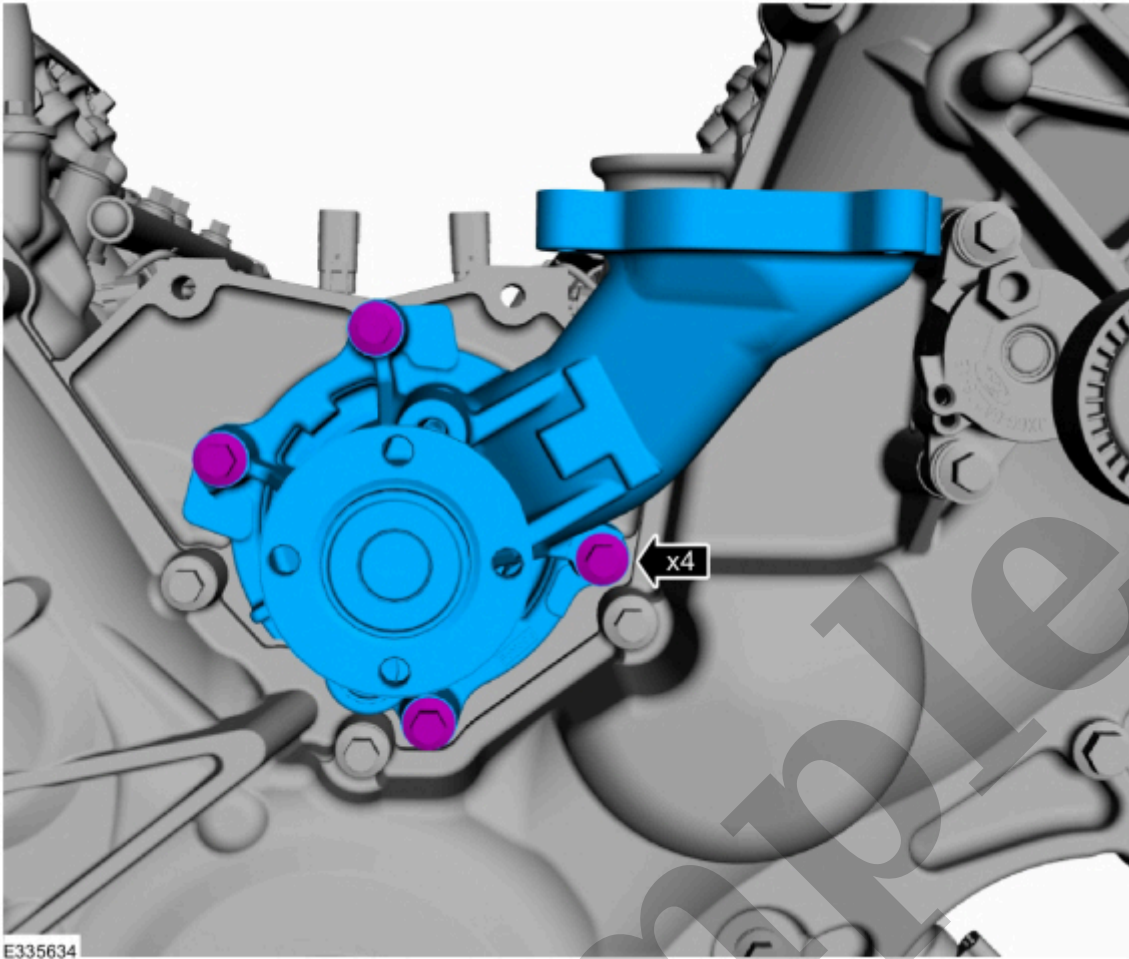
1-3: 89 lb.in (10 Nm)

4-17: 133 lb.in (15 Nm)



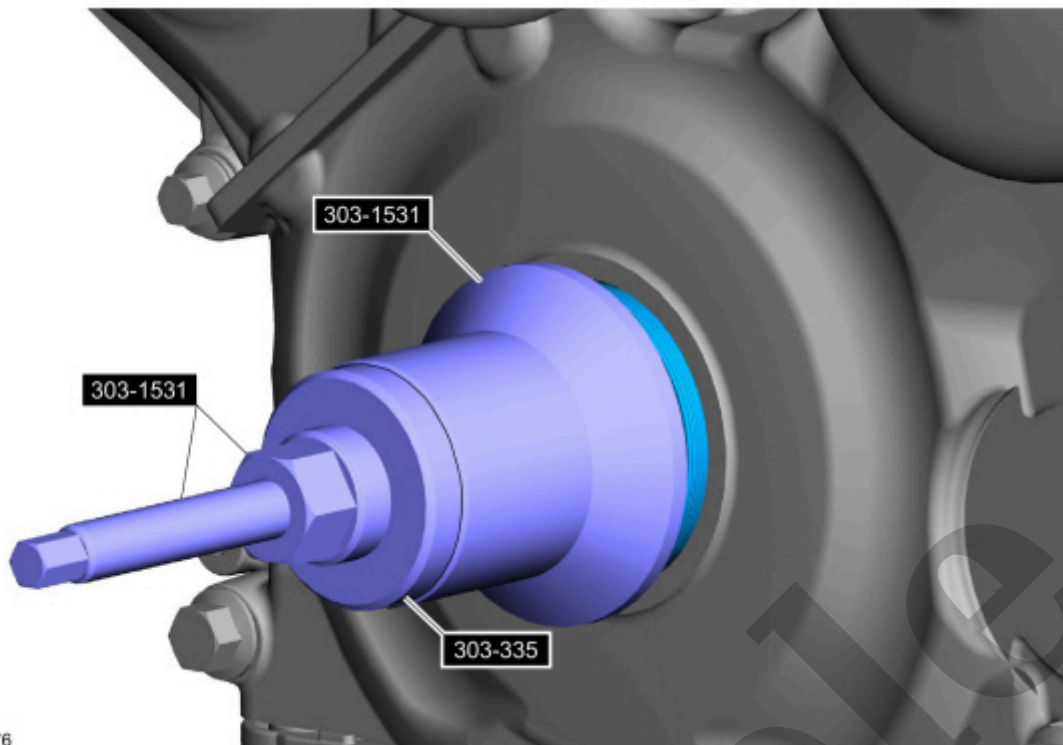
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102. Install a new coolant pump O-ring seal and lubricate with clean engine coolant.



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104. Lubricate the engine front cover bore and the crankshaft front oil seal inner lip with clean engine oil.



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106. 1. Clean off any residual sealer from the Woodruff key slot and the Woodruff key on the crankshaft (not shown).

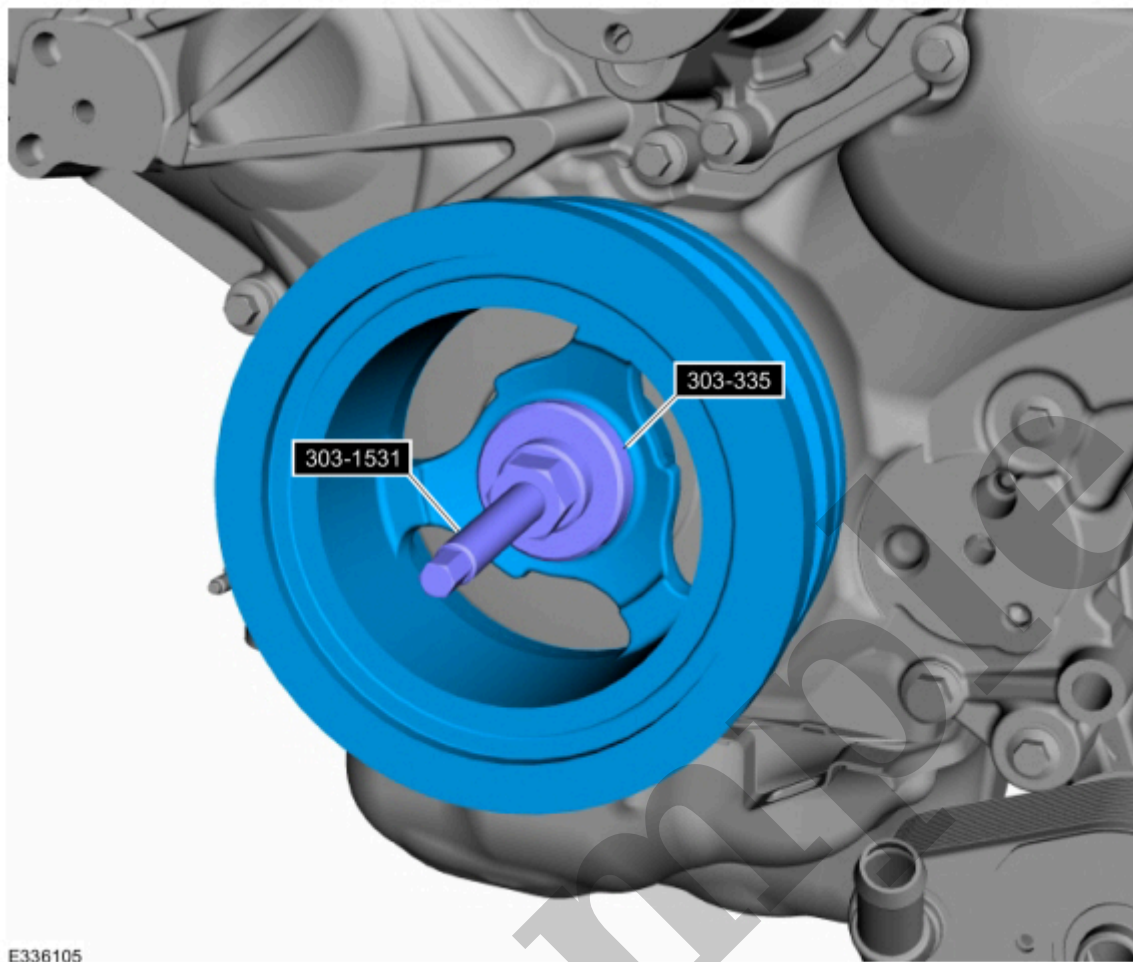
2. **NOTE**

If not secured within 5 minutes, the sealant must be removed and the sealing area cleaned. Failure to follow this procedure can cause future oil leakage.

Apply silicone gasket and sealant to the Woodruff key slot in the crankshaft pulley.

Material : Motorcraft® High Performance Engine RTV Silicone / TA-357 (WSE-M4G323-A6)

Use Special Service Tool : 303-335 (T88T-6701-A) Installer, Front Cover Oil Seal , 303-1531 Installer, Front Crank Seal and Damper



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109. With the aid of an assistant, use the Strap Wrench to install a new crankshaft pulley bolt and the original washer.

Use the General Equipment: Strap Wrench

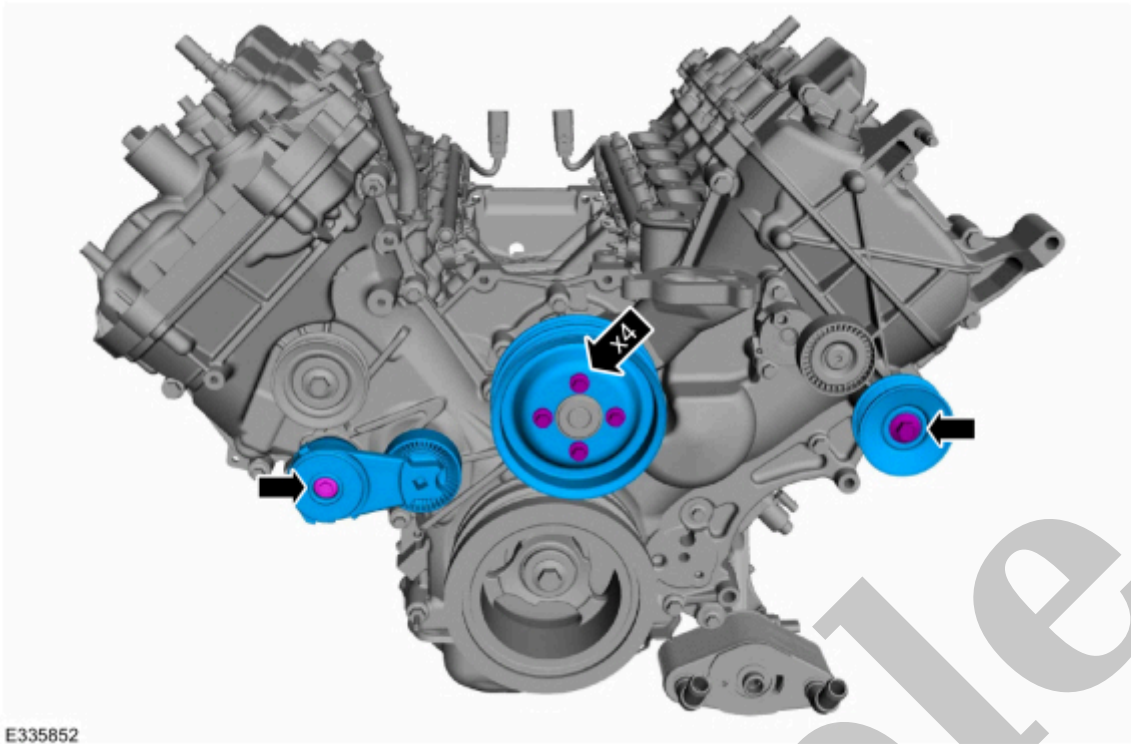
Torque :

Stage 1: 103 lb.ft (140 Nm)

Stage 2: Loosen: 360°

Stage 3: 74 lb.ft (100 Nm)

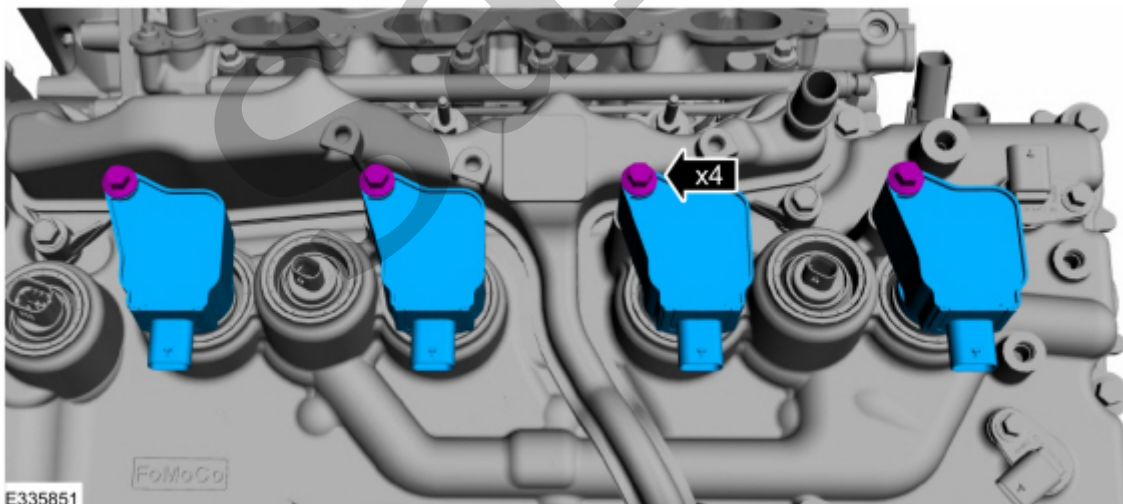
Stage 4: 90°



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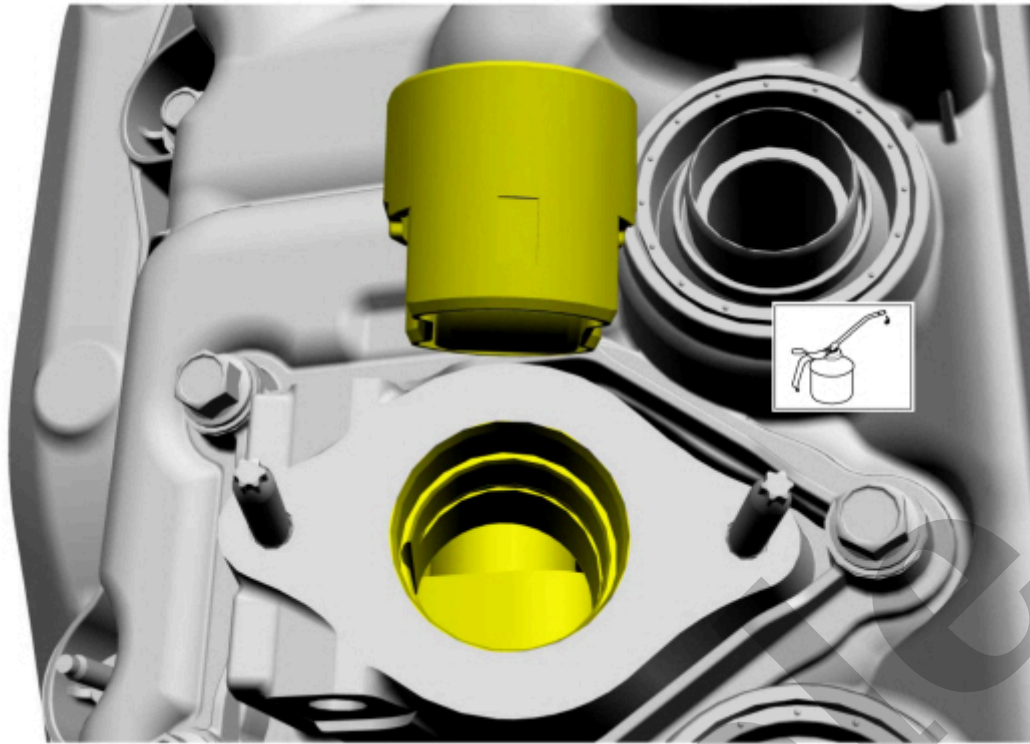
111. 1. Install the LH (left-hand) ignition coil-on-plugs.
2. Install the LH (left-hand) ignition coil-on-plug retaining bolts.

Torque : 89 lb.in (10 Nm)



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112. **NOTICE**



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114. **NOTICE**

The roller tappets roller goes down towards the camshaft.

NOTE

Align the notch on the high-pressure fuel pump tappet and with the groove in the high-pressure fuel pump drive unit bore.

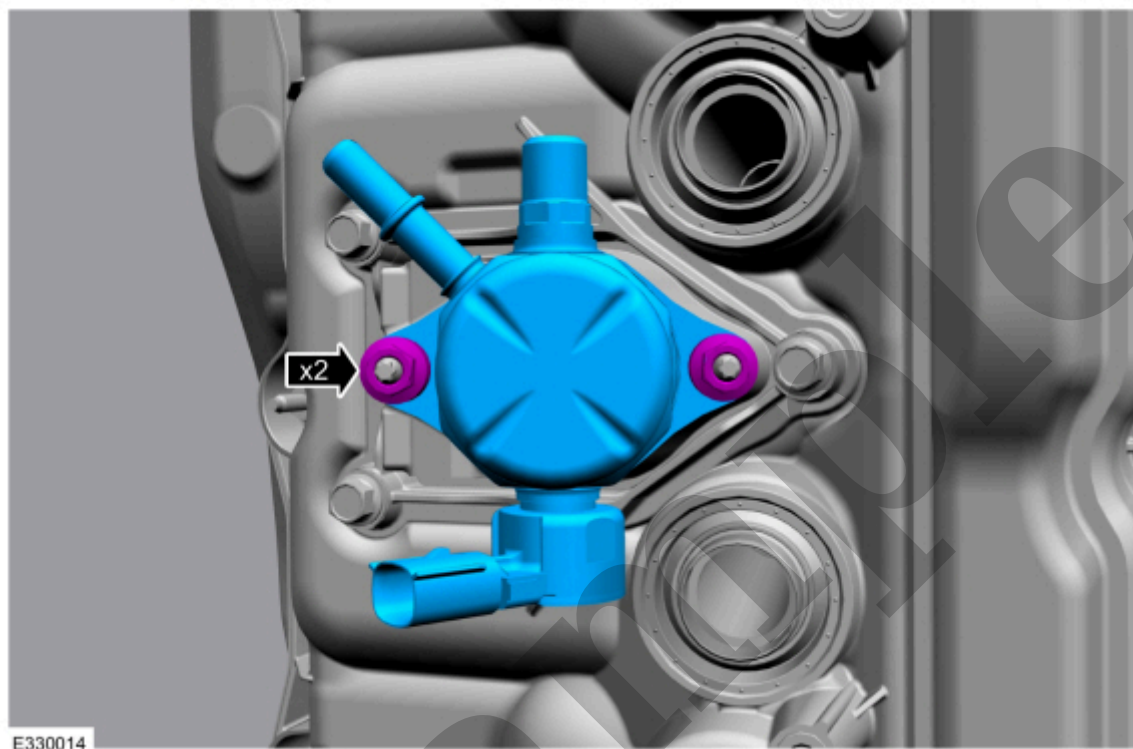
Install the high-pressure fuel pump roller tappet.

116. Install the high-pressure fuel pump, then install the mounting nuts finger tight. Alternately tighten each high-pressure fuel pump nut one complete revolution until seated. Tighten the fuel high-pressure fuel pump nuts in the following 2 stages.

Torque :

Stage 1: Tighten to : 89 lb.in (10 Nm)

Stage 2: Tighten an additional : 30°



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117. Install the spacer.

NOTE

Make sure that a new high-pressure fuel tube is installed.

Install the high-pressure fuel tube and retainers, tighten the high-pressure fuel tube flare nuts and retainers finger tight.

Torque :

Stage 1: Tighten the upper high-pressure fuel tube bolt to : 89 lb.in (10 Nm)

Stage 2: Tighten the upper high-pressure fuel tube bolt an additional : 30°

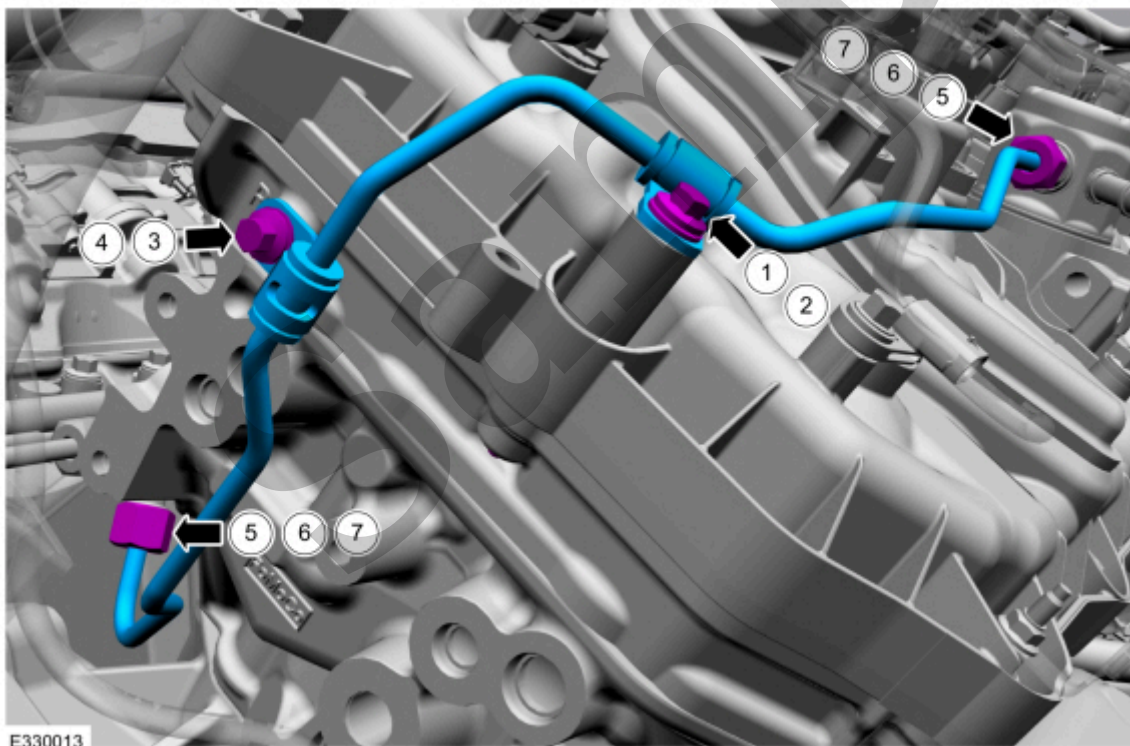
Stage 3: Tighten the lower high-pressure fuel tube bolt to : 89 lb.in (10 Nm)

Stage 4: Tighten the lower high-pressure fuel tube bolt an additional : 30°

Stage 5: Tighten the high-pressure fuel tube flare nuts to : 71 lb.in (8 Nm)

Stage 6: Tighten the high-pressure fuel tube flare nuts to : 89 lb.in (10 Nm)

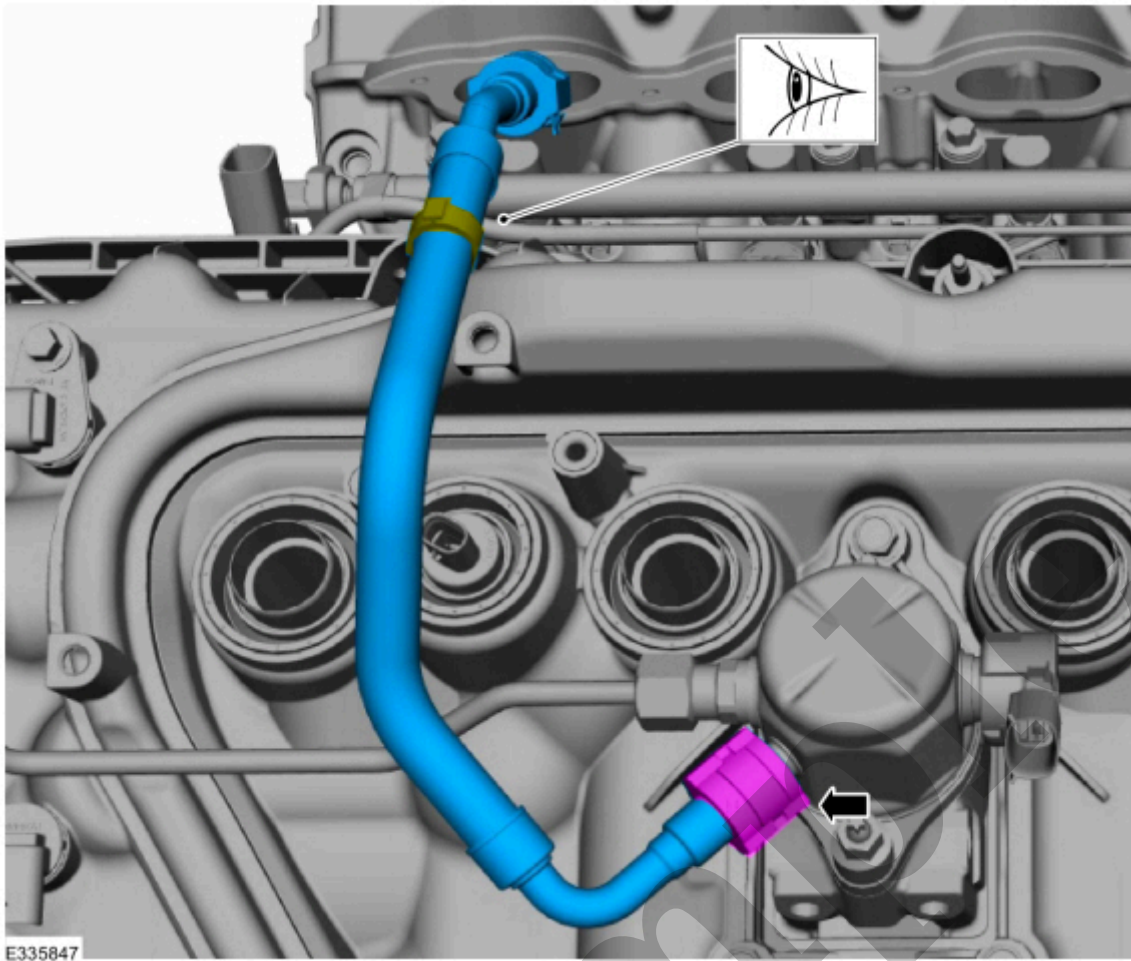
Stage 7: Tighten the high-pressure fuel tube flare nuts an additional : 25°



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119. Install the high-pressure fuel tube shield and the fasteners.

Torque : 89 lb.in (10 Nm)



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121. 1. Install the RH (right-hand) ignition coil-on-plugs.
2. Install the RH (right-hand) ignition coil-on-plug retaining bolts.

Torque : 89 lb.in (10 Nm)

