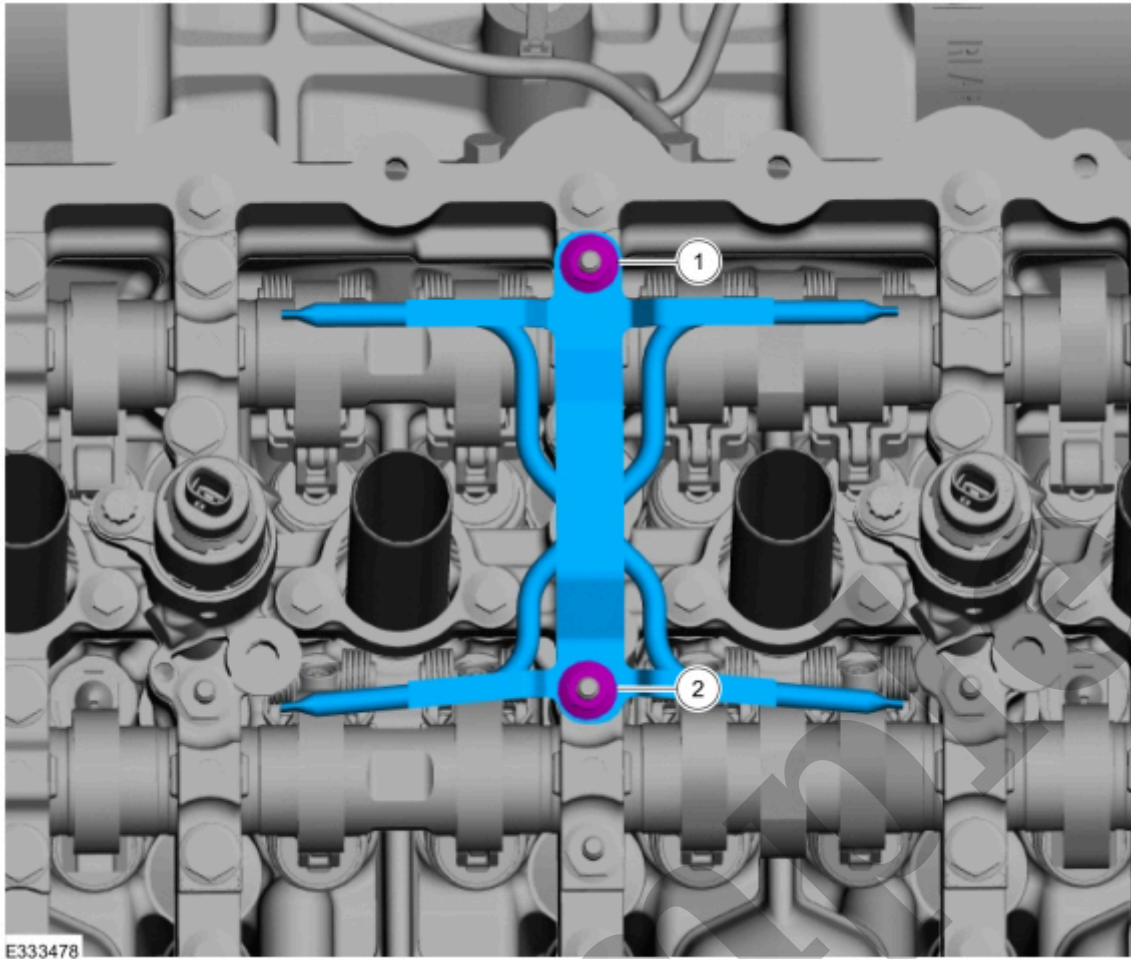


Your Ultimate Source for OEM Repair Manuals

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.

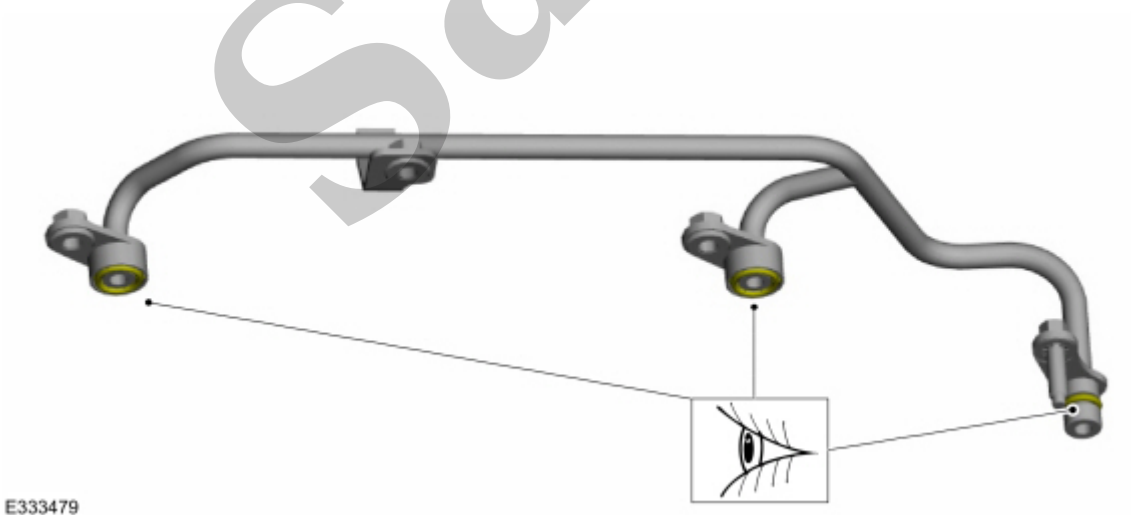
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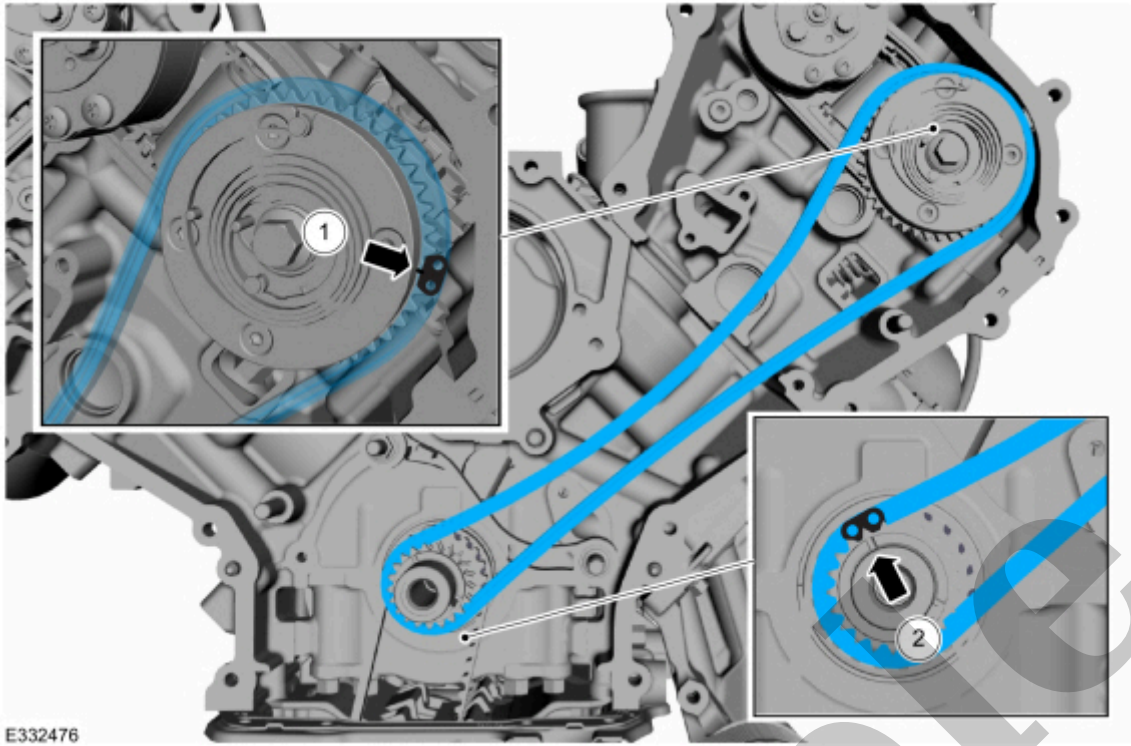
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50. Inspect the seals. If damaged, discard the oil tube assembly.



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



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54. **NOTE**

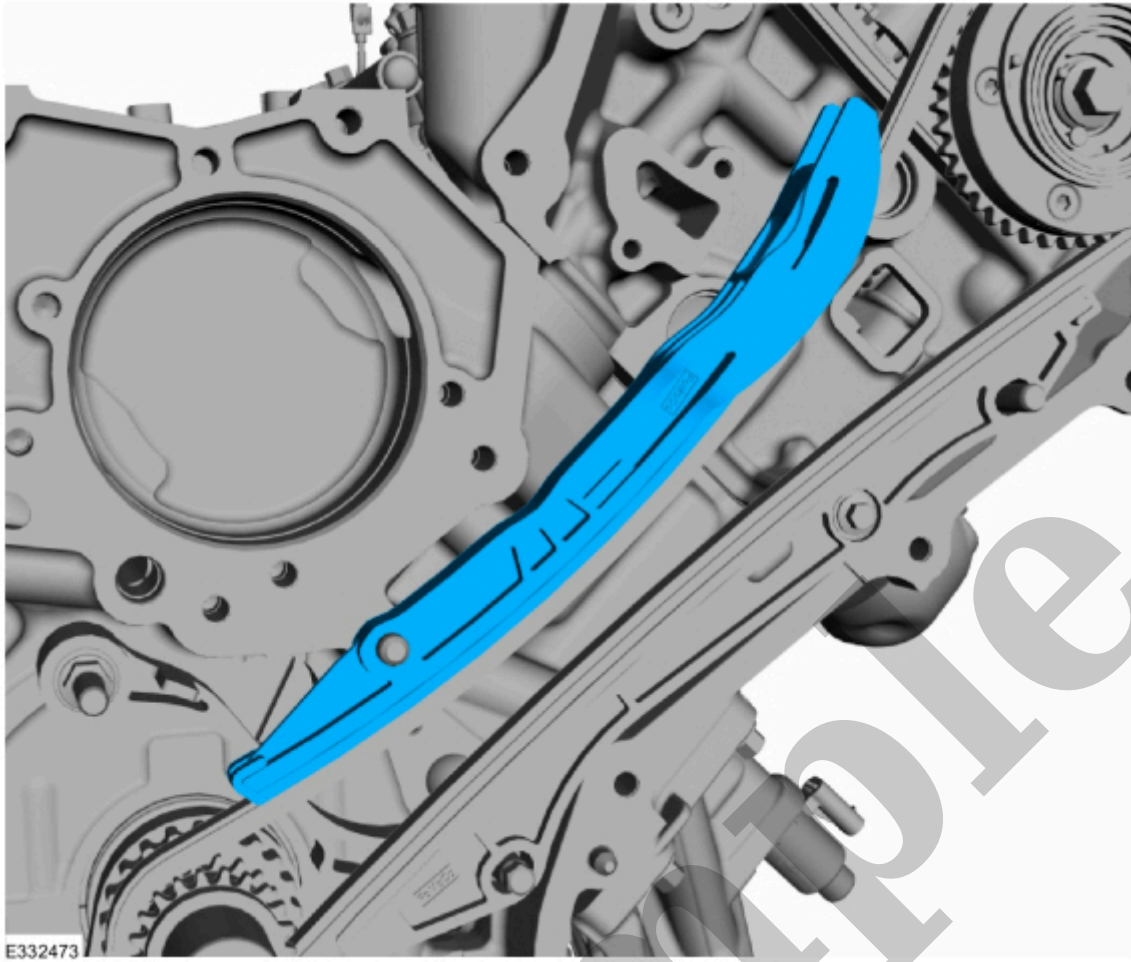
It may be necessary to rotate the crankshaft slightly to provide enough slack in the chain to install the LH (left-hand) timing chain guide. Return the crankshaft keyway to the 4:00 position after installing the LH (left-hand) timing chain guide.

Install the LH (left-hand) timing chain guide and bolt.

Torque :

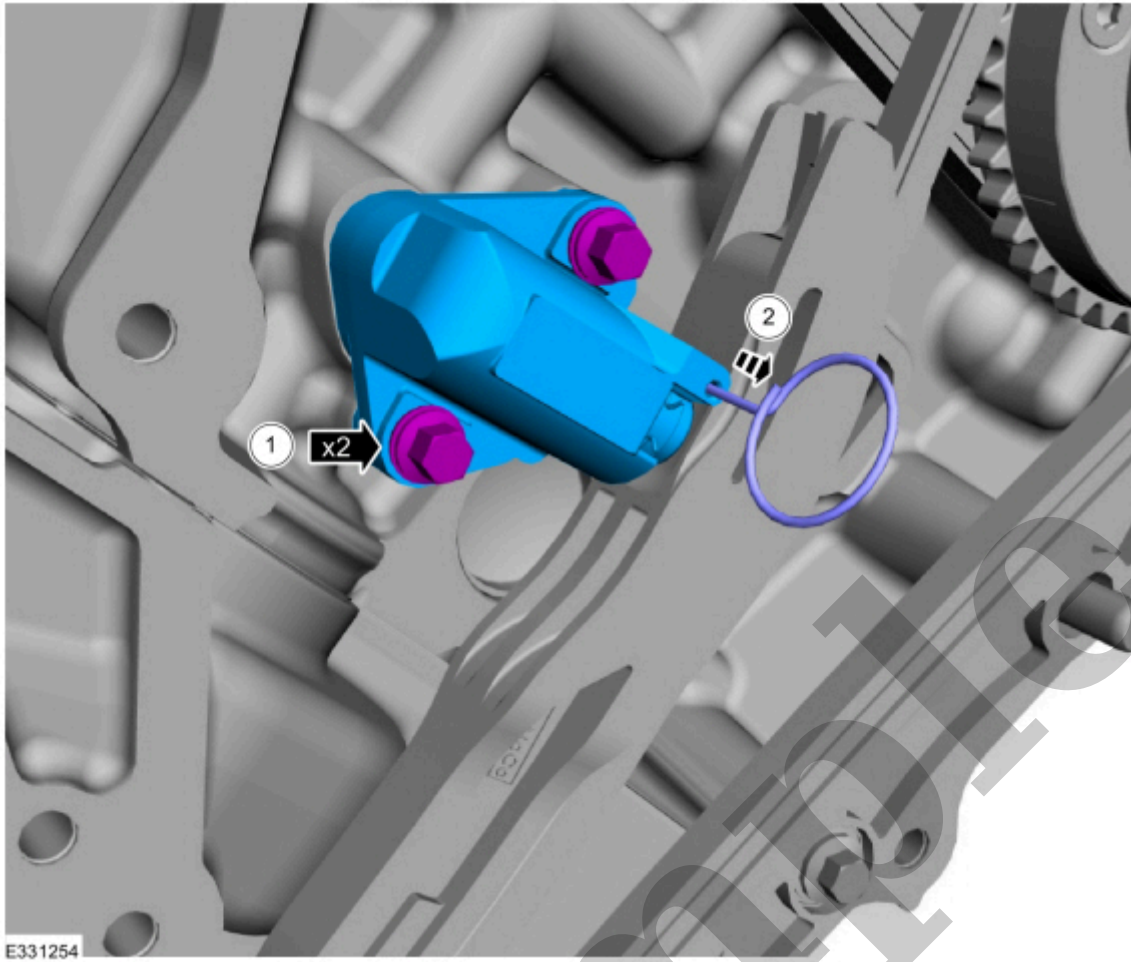
Stage 1: 89 lb.in (10 Nm)

Stage 2: 25°



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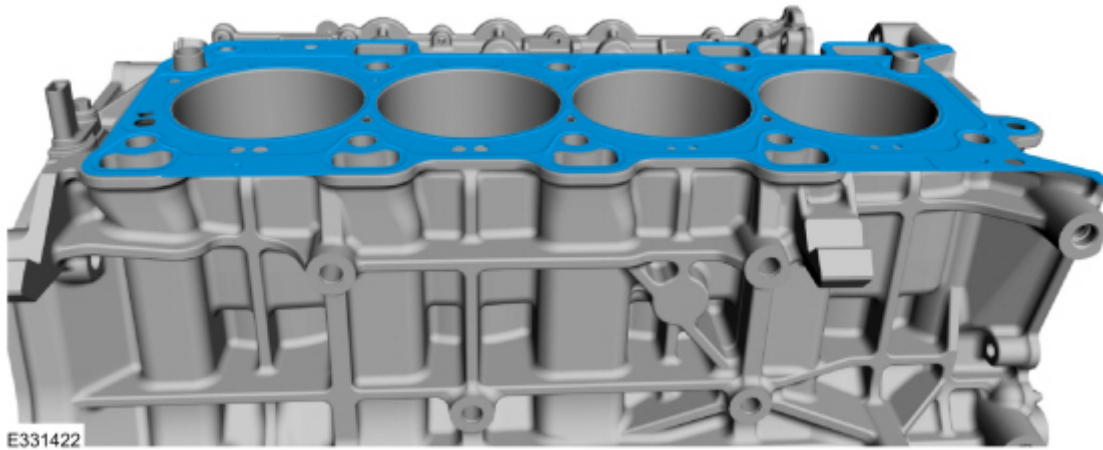
56.
 1. Compress the primary timing chain tensioner plunger, using an edge of a vise.
Use the General Equipment: Vise
 2. Install a suitable pin into the hole of the tensioner housing to hold the plunger in place during installation.



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58. Using the special tool, rotate the crankshaft clockwise until the keyway is at the 9:00 position.

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



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61. **NOTE**

The cylinder head bolts are torque-to-yield and must not be reused. New cylinder head bolts must be installed.

1. Install the cylinder head and the new bolts.

Torque :

Stage 1: Bolts 1-10 in sequence: 18 lb.ft (25 Nm)

Stage 2: Bolts 1-10 in sequence: 55 lb.ft (75 Nm)

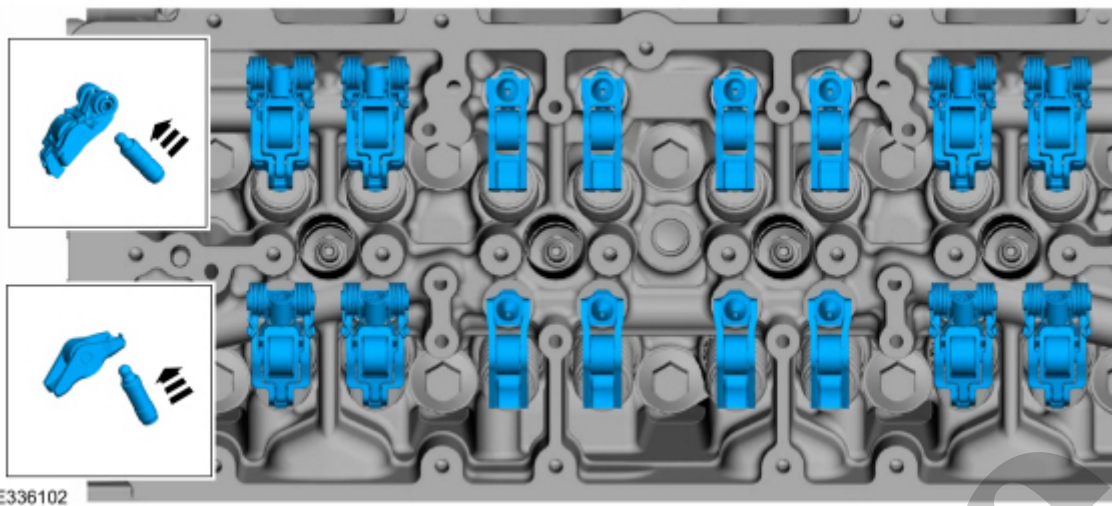
Stage 3: Bolt 1: Loosen: 180°

Stage 4: Bolt 1: 37 lb.ft (50 Nm)

Stage 5: Bolt 1: 240°

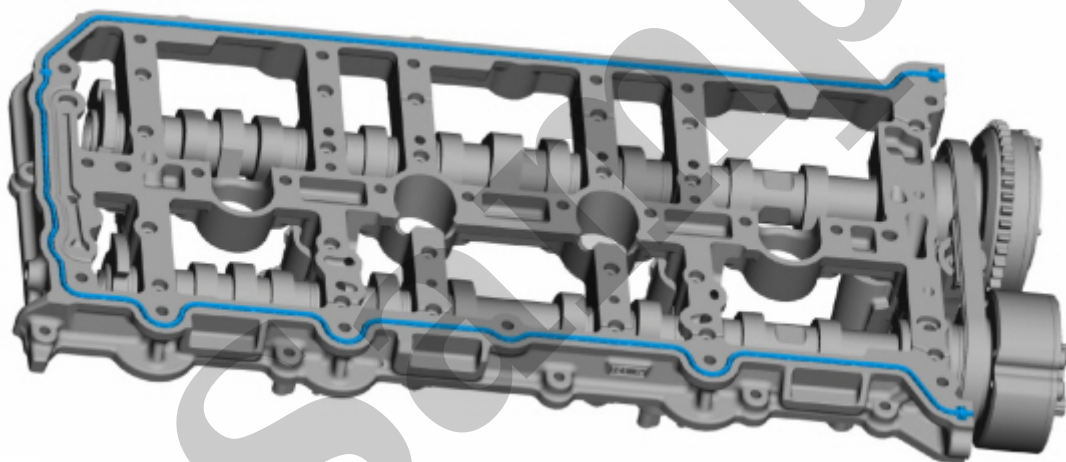
2. Perform stages 3, 4 and 5 on bolts 2 through 10 (complete all three stages to each bolt before moving on to the next bolt in sequence).

2. Install the camshaft roller follower and hydraulic lash adjuster assemblies.



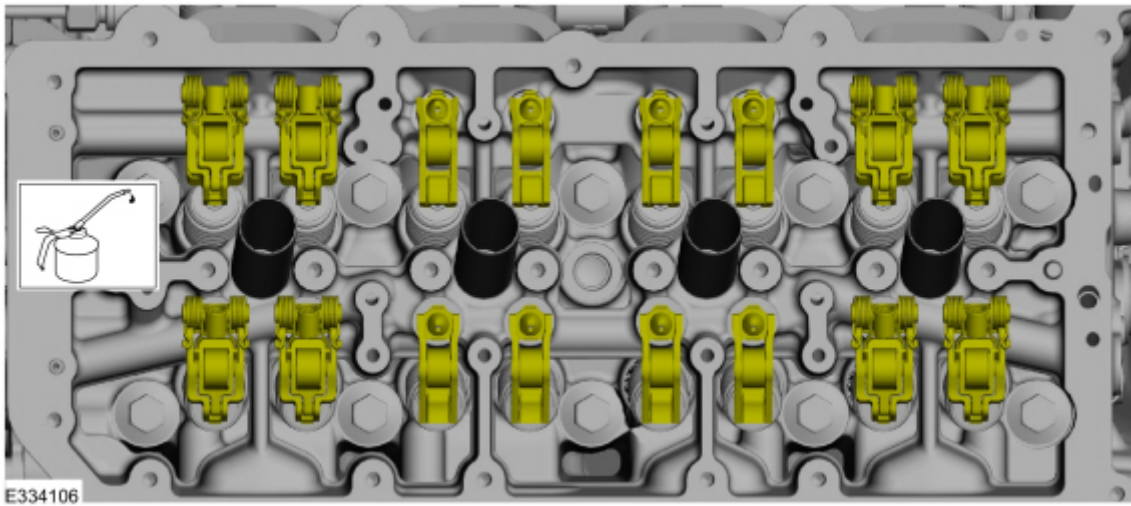
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64. Install a new gasket.



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65. Make sure the timing mark is in the position shown.



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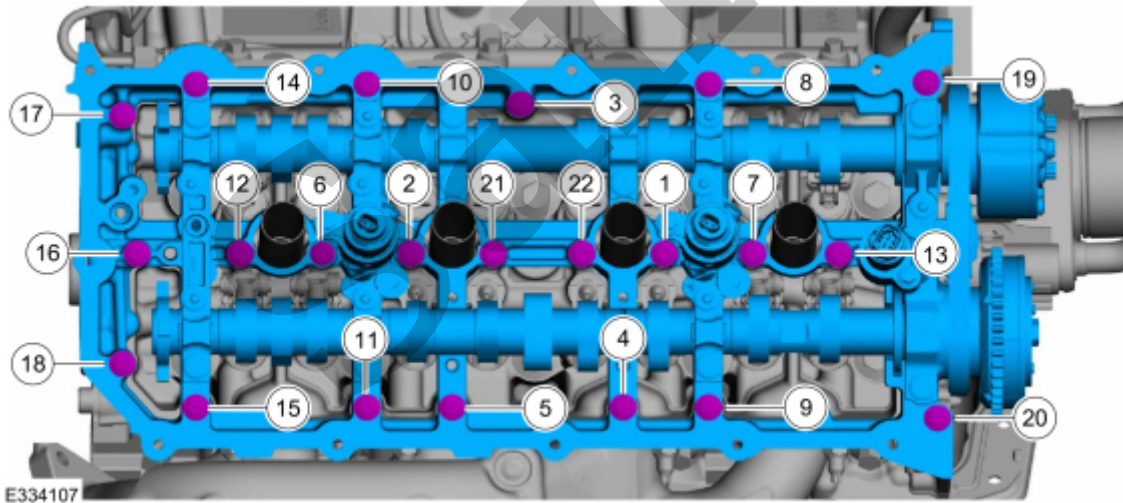
68. Install the camshaft and carrier assembly.

Torque :

Stage 1: 106 lb.in (12 Nm)

Stage 2: 106 lb.in (12 Nm)

Stage 3: 60°



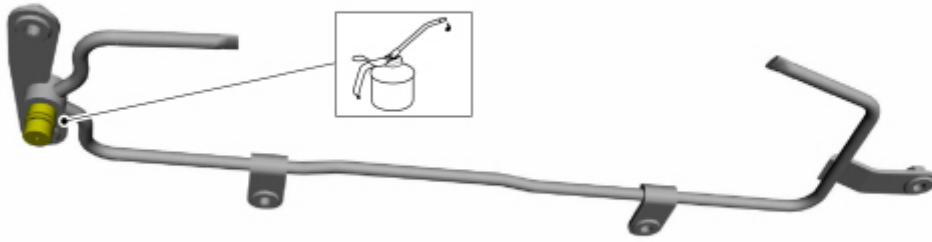
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69. Install the camshaft cap and bolts.

Torque :

Stage 1: 53 lb.in (6 Nm)

Stage 2: 90°

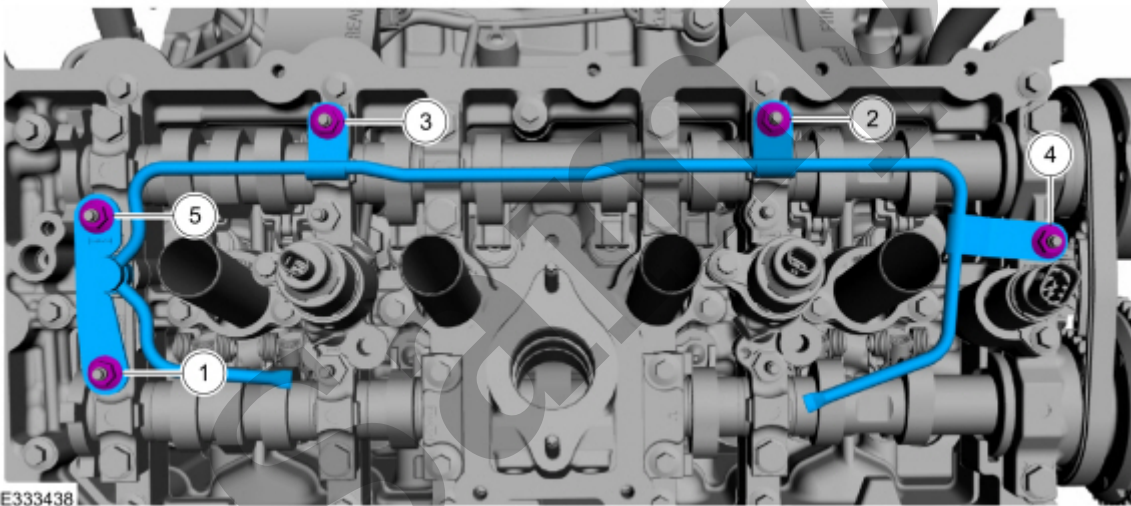


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72. Install the oil tube and tighten the fasteners in sequence.

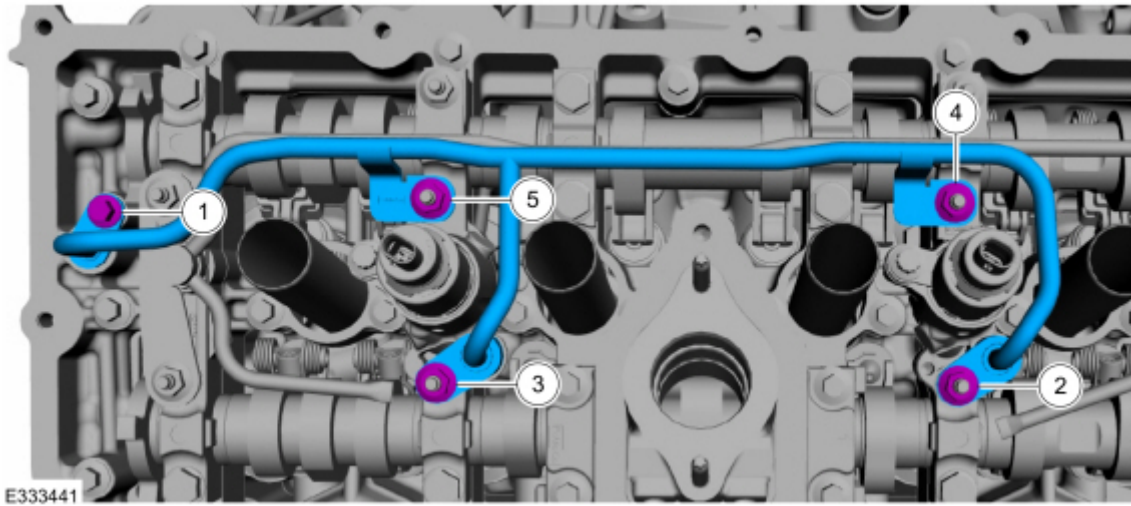
Torque : 89 lb.in (10 Nm)



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

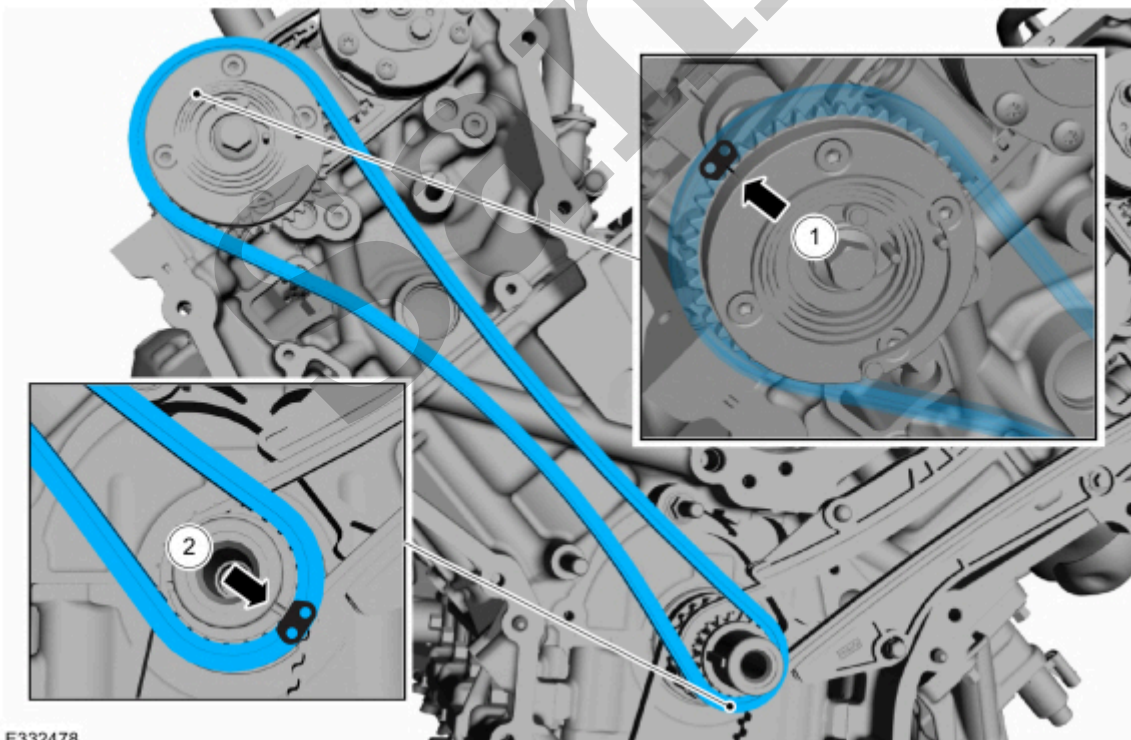


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76. Install the RH (right-hand) timing chain.

1. Align the colored link on the timing chain with the timing mark on the RH (right-hand) VCT (variable camshaft timing) assembly.
2. Align the remaining colored link on the timing chain with the timing mark on the crankshaft sprocket.



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