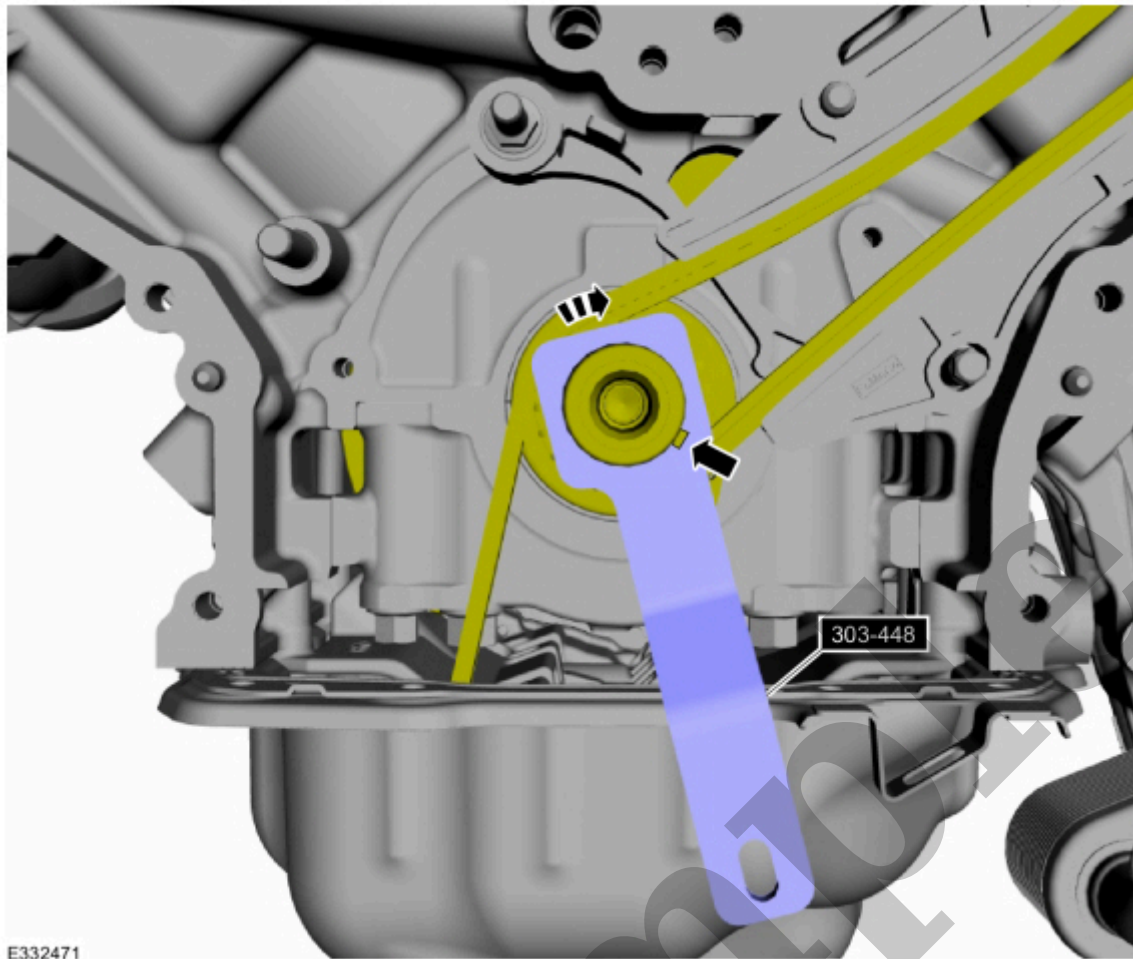


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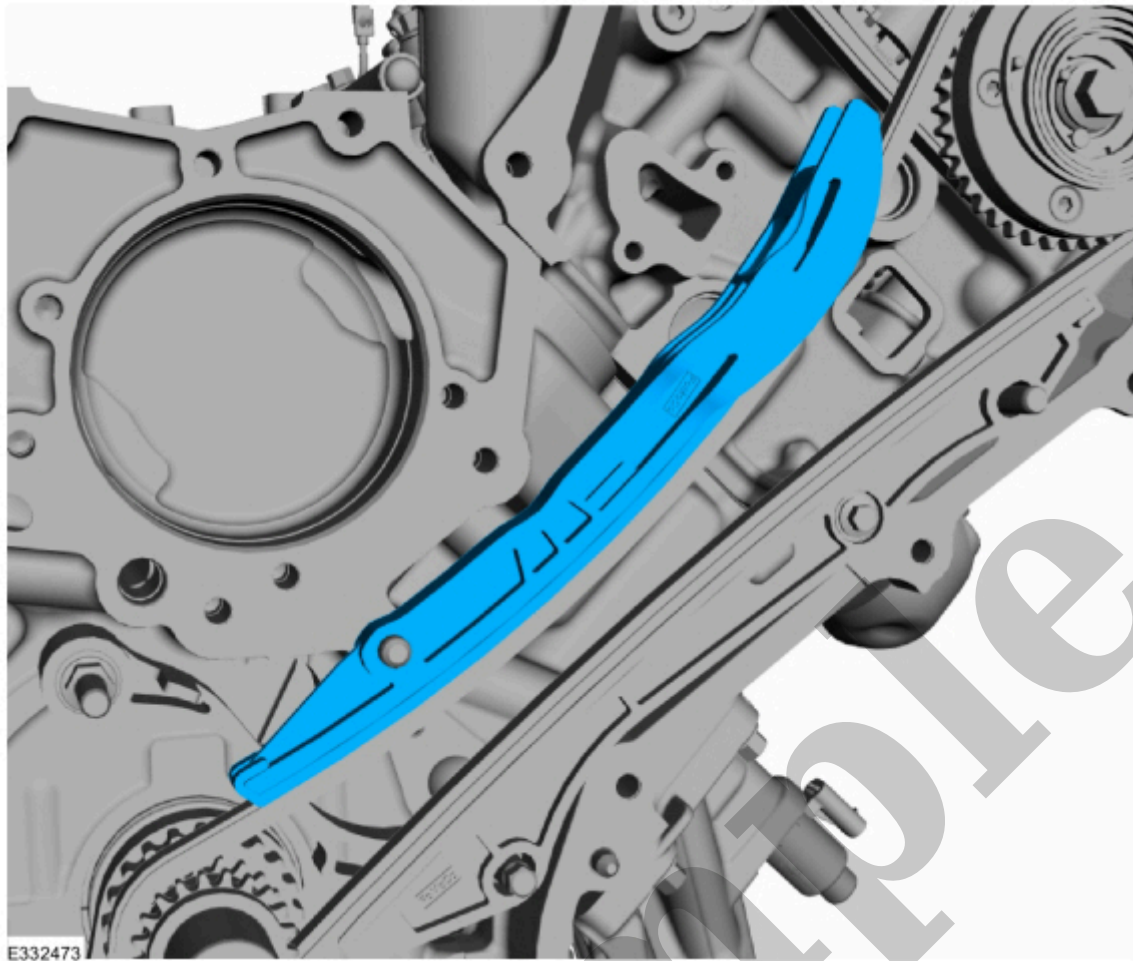
2014 Ford E-450 Super Duty Service and Repair Manual

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82. Remove the bolts and the LH (left-hand) primary timing chain tensioner.

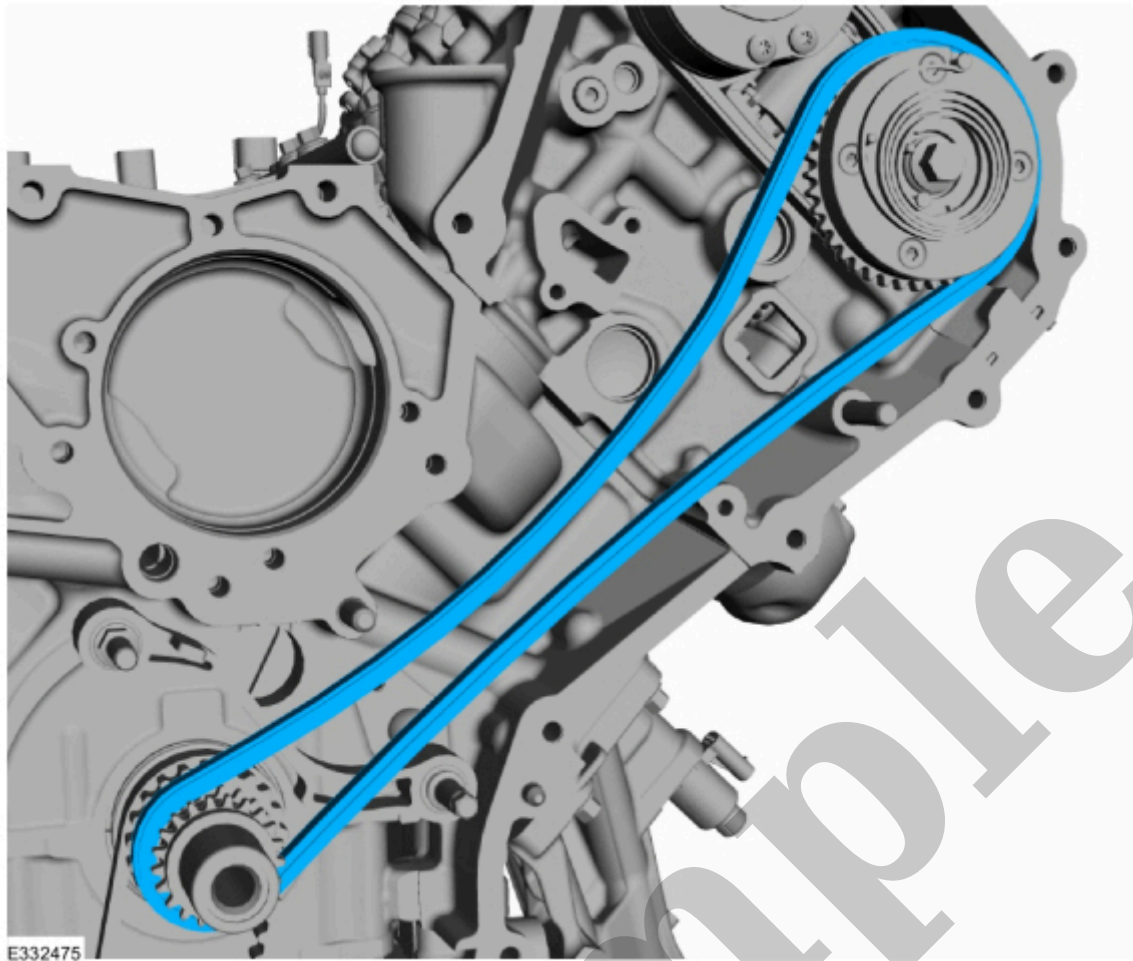


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84. **NOTE**

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

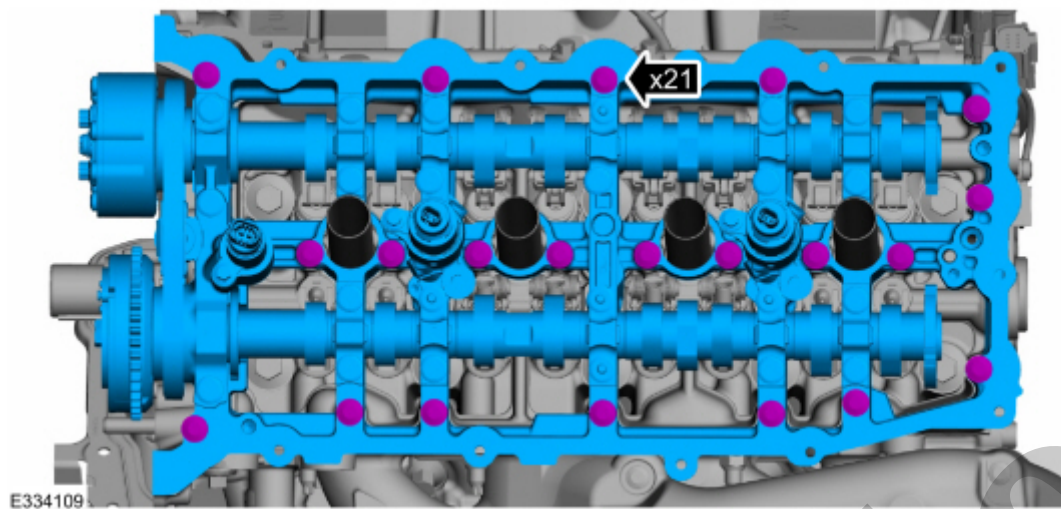
Remove the bolt and the LH (left-hand) timing chain guide.



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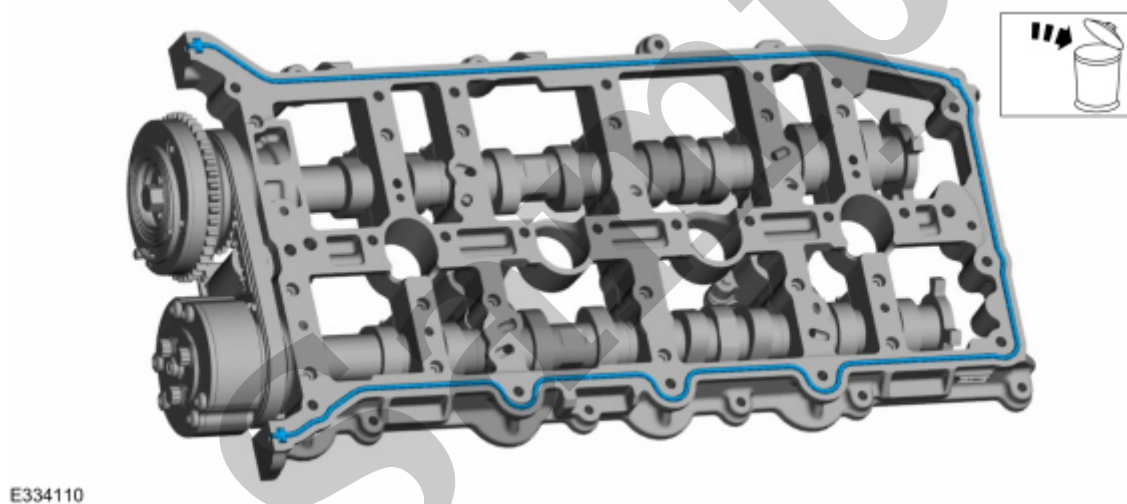
86. Remove the timing chain sprocket.

88. Remove the bolts and the camshaft and carrier assembly.



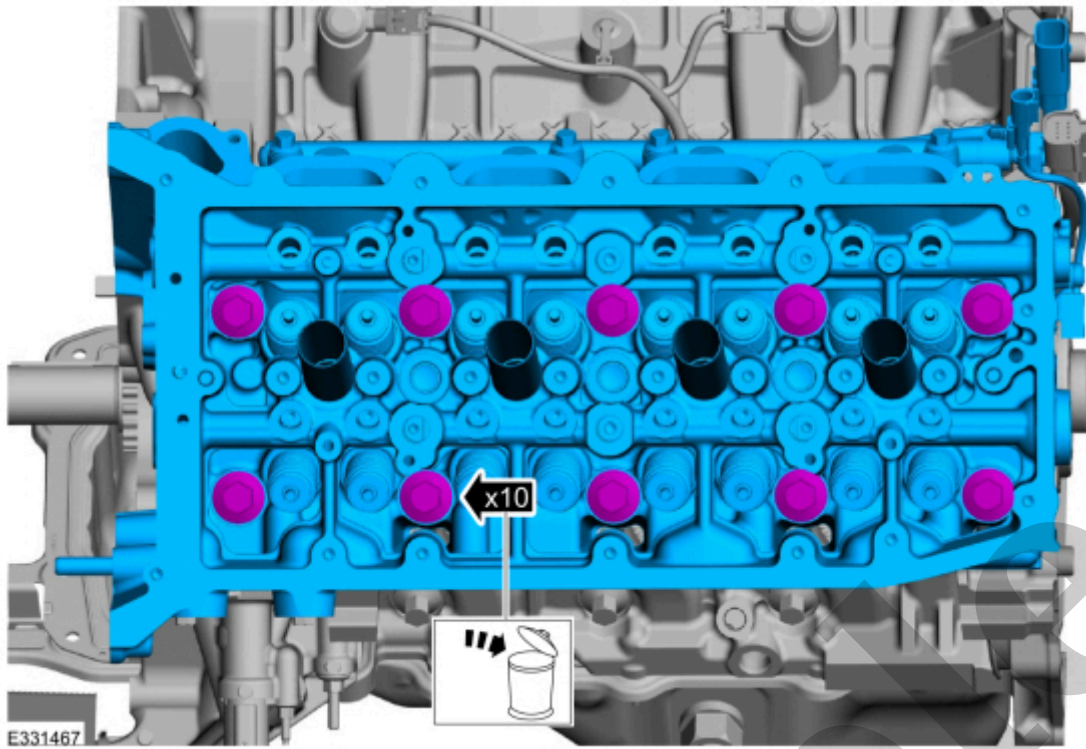
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89. Remove and discard the gasket.



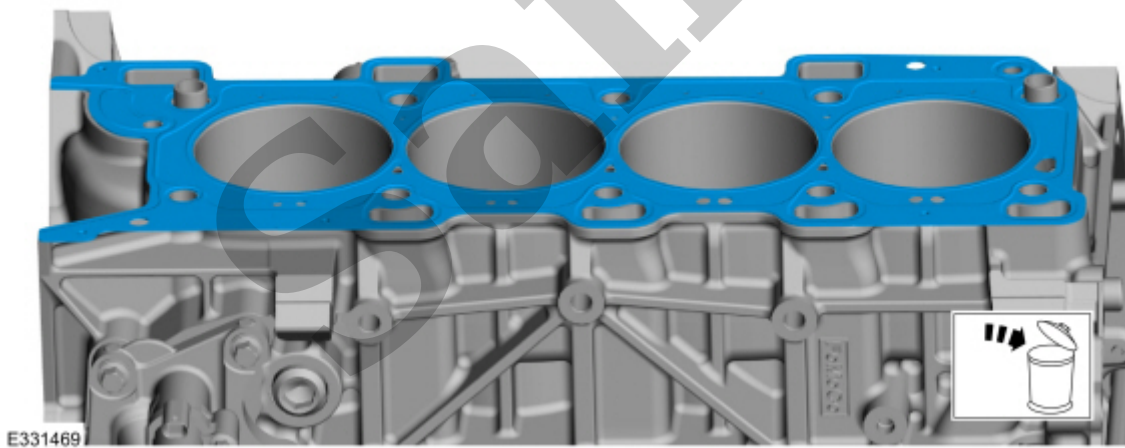
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- 90.
1. Remove the camshaft roller follower and hydraulic lash adjuster assemblies.
 2. Separate the hydraulic lash adjusters from the spring clips on the camshaft roller followers.



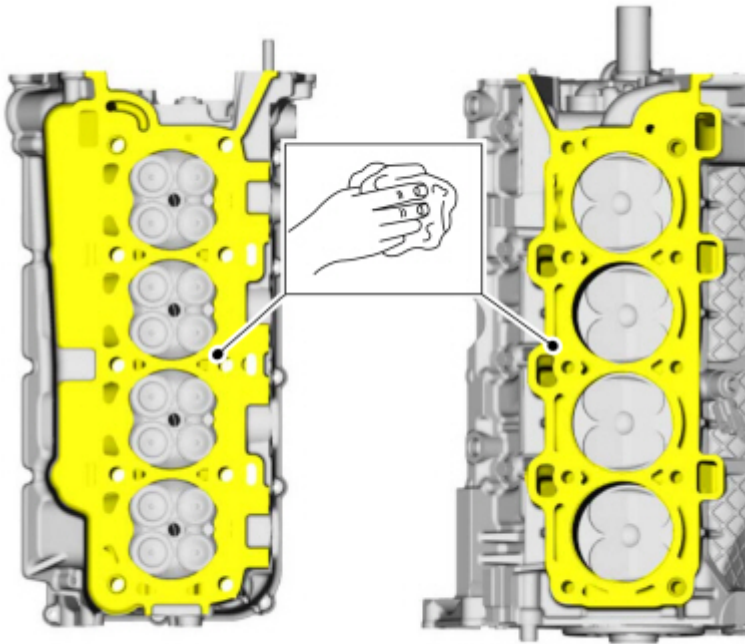
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93. Discard the cylinder head gasket.



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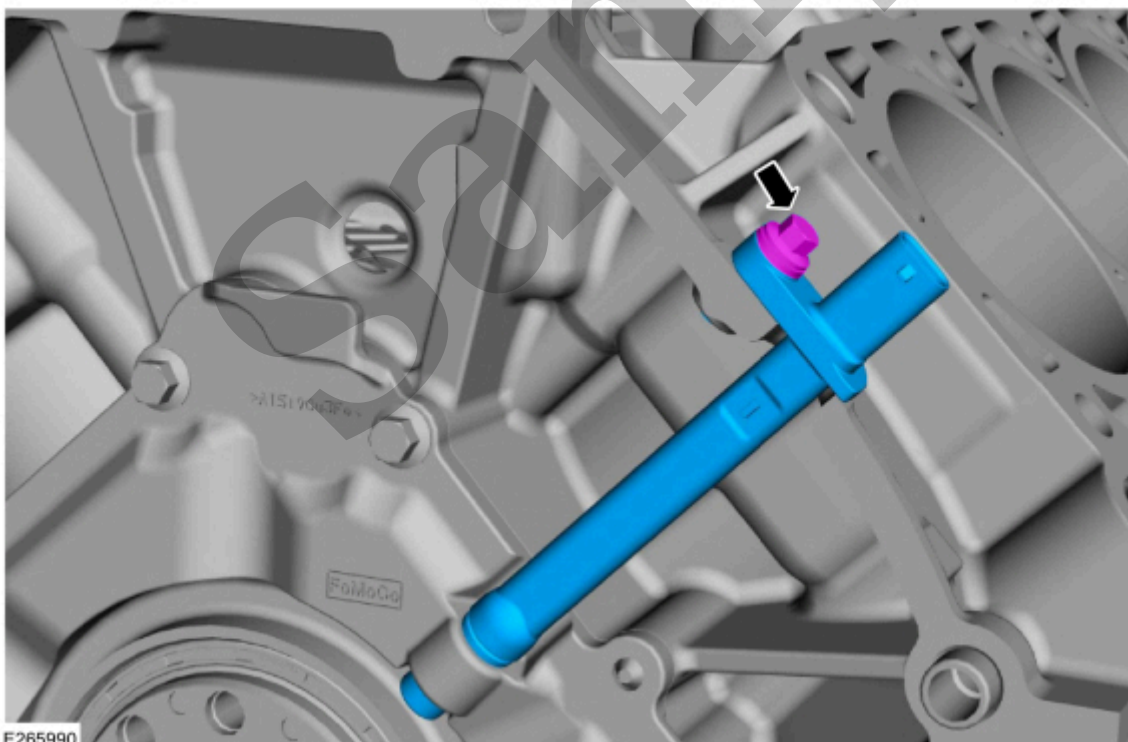
94. Remove the dowels.



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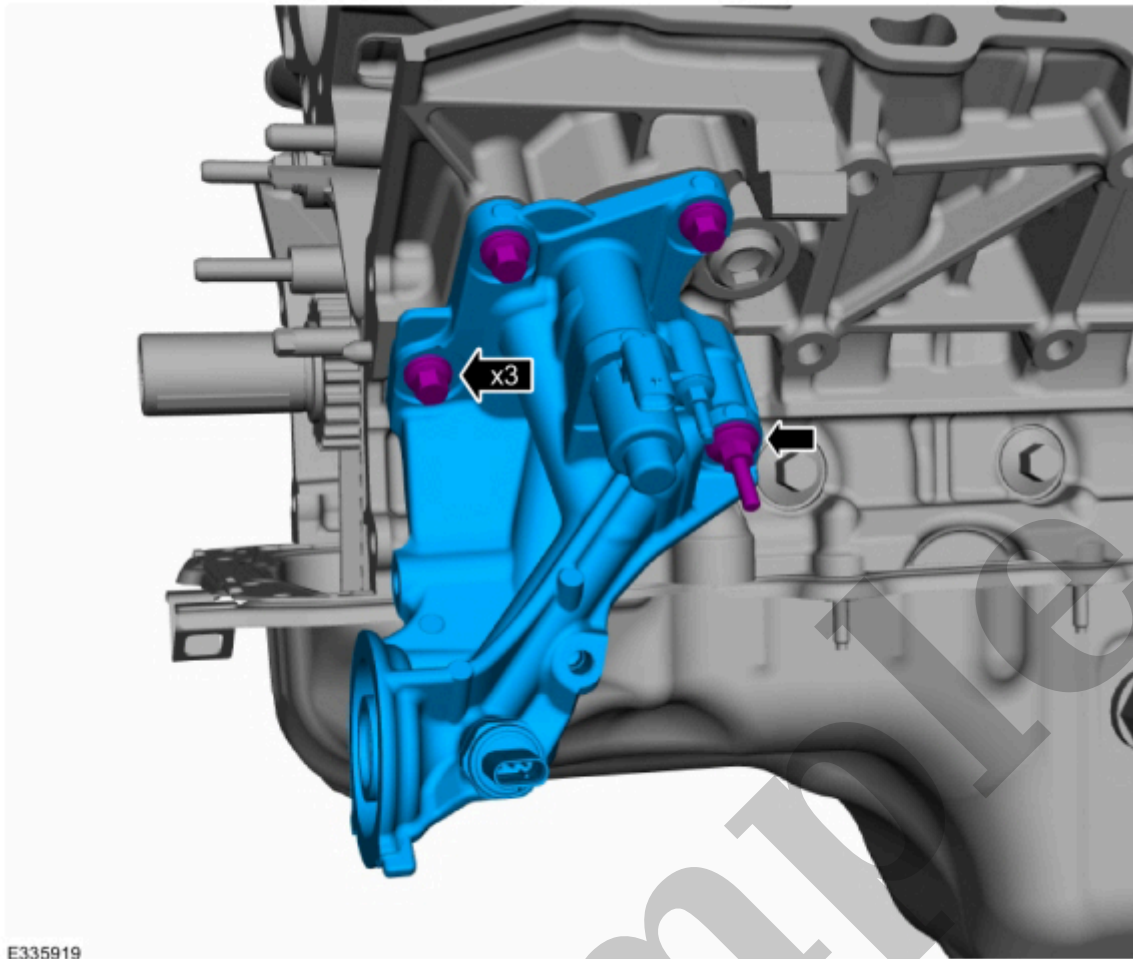
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96. Remove the bolt and the CKP (crankshaft position) sensor.



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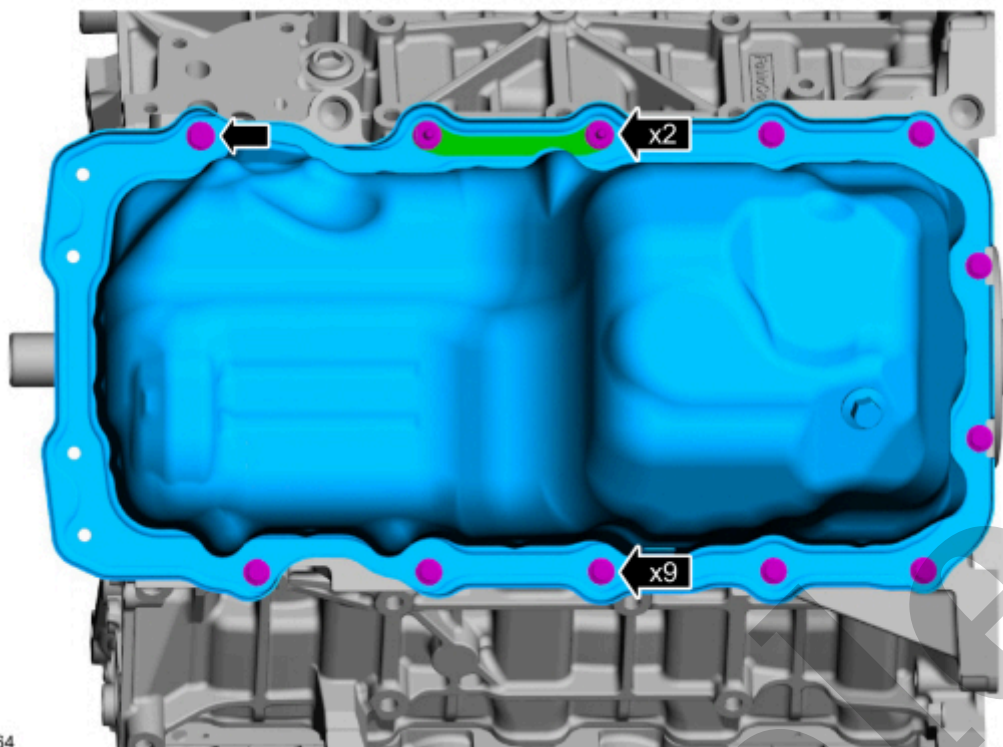
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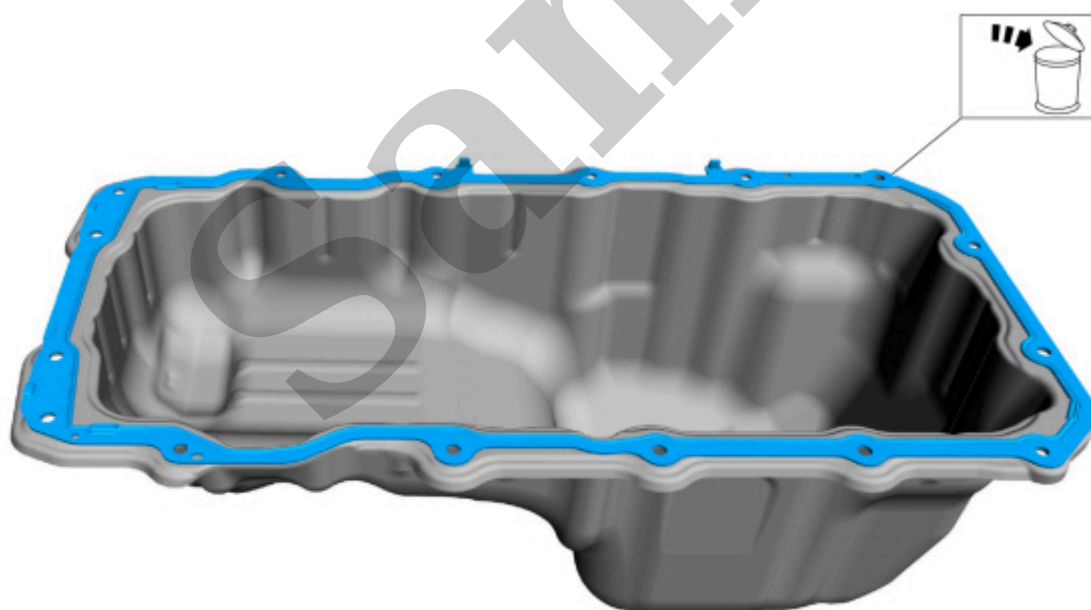
99. Remove and discard the oil filter adapter gasket.



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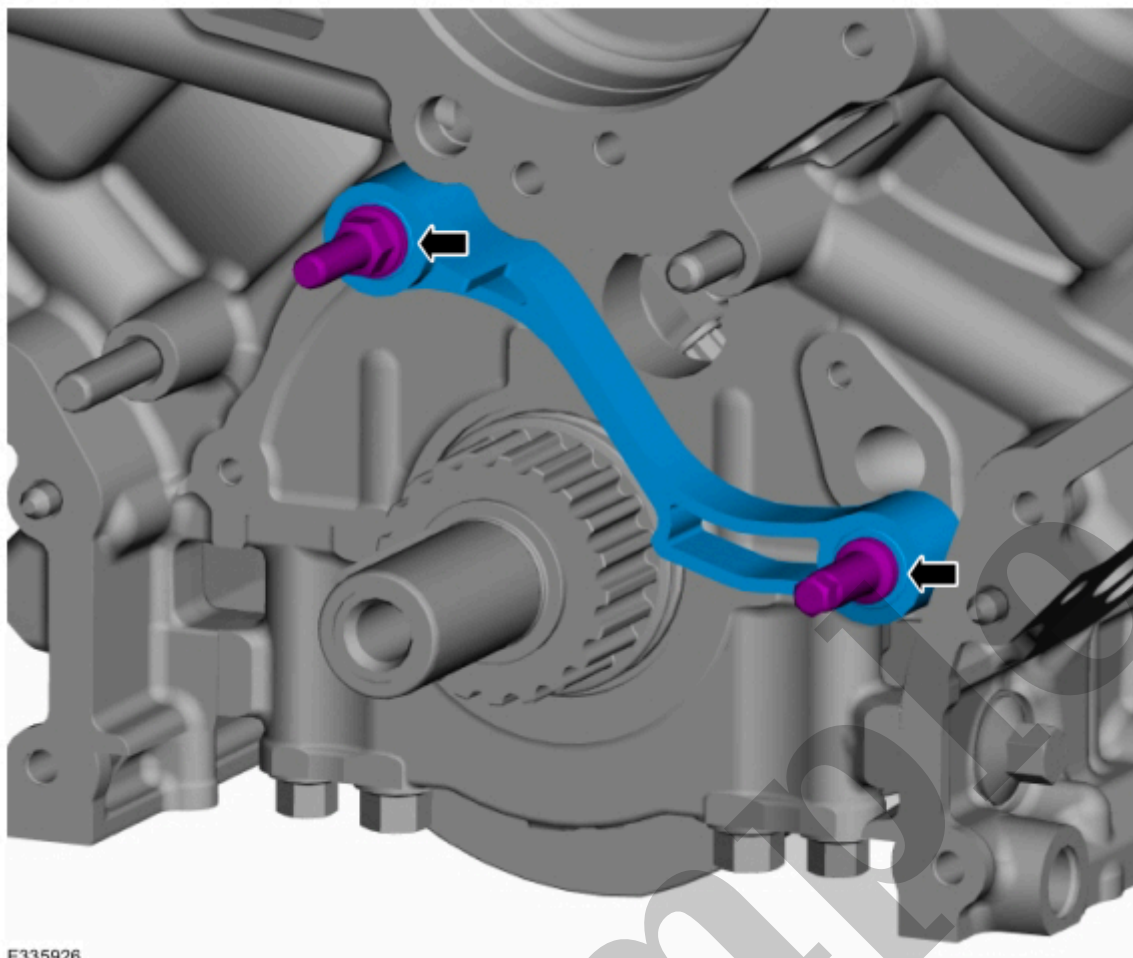
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101. Remove and discard the oil pan gasket.



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104. Remove the bolts and the crankshaft rear seal retainer plate.