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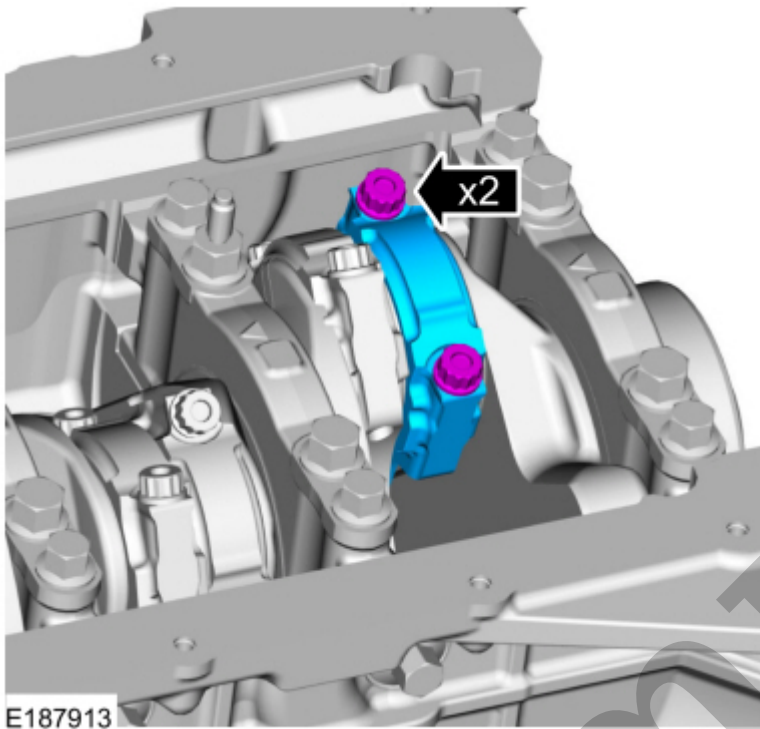
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2014 Ford E-350 Super Duty Service and Repair Manual

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Verify that the connecting rod and rod cap have orientation numbers cast into them. If not, number the connecting rod and rod cap for correct orientation. Failure to do so can result in engine damage.

Remove the bolts and the connecting rod cap.

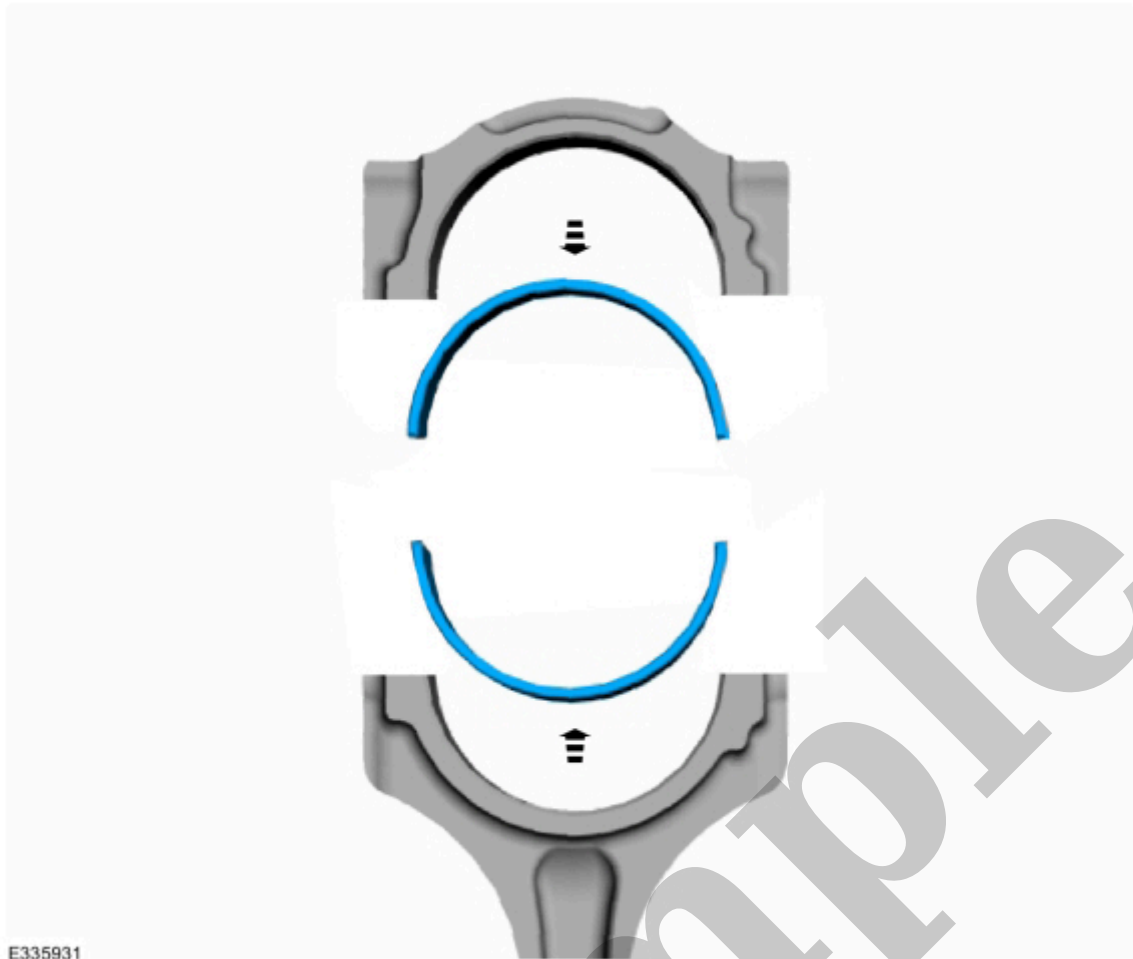


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107. **NOTICE**

Do not scratch the cylinder walls or crankshaft journals with the connecting rod or engine damage may occur.

Remove the piston through the top of the cylinder block



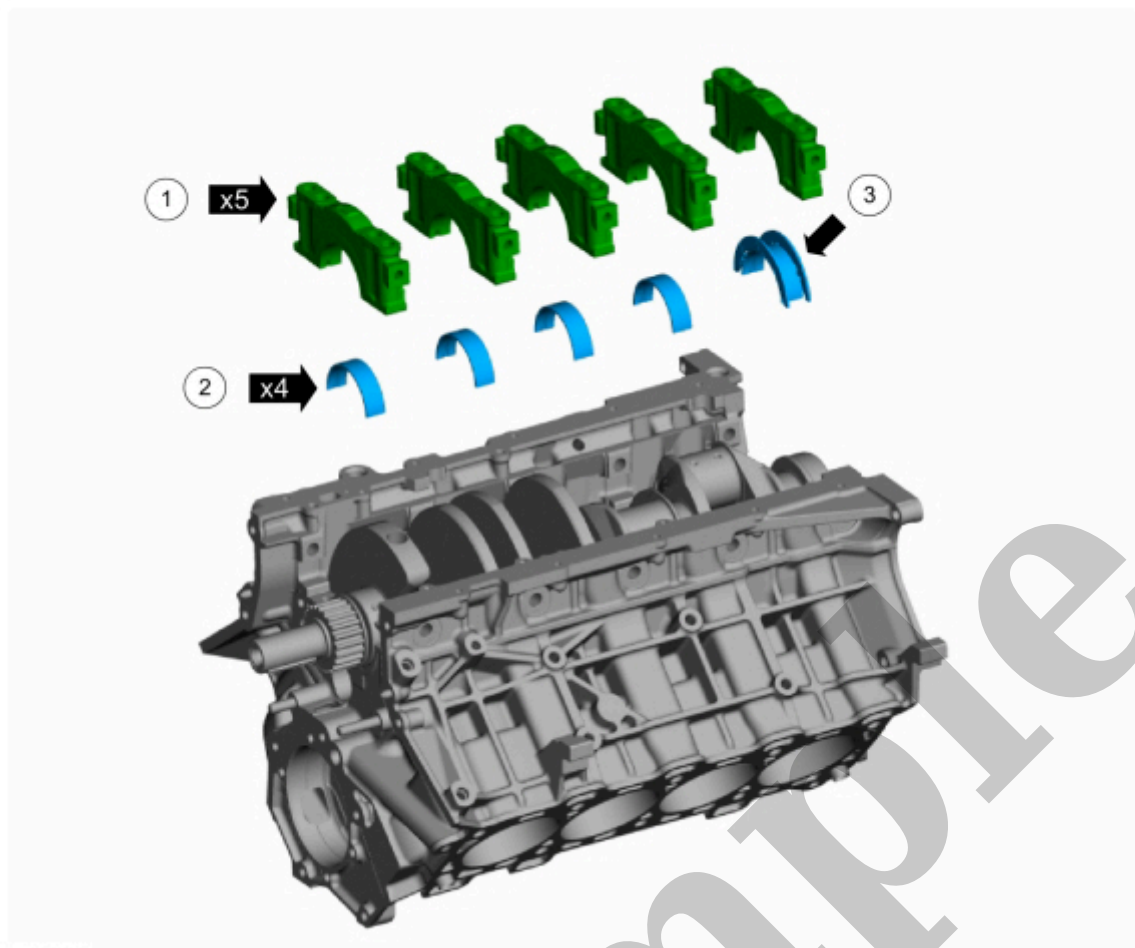
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109. Repeat the previous 3 steps for each of the remaining pistons.

110. Disassemble the 8 pistons.

Refer to: [Piston](#)(303-01E Engine - 5.0L 32V Ti-VCT, Disassembly and Assembly of Subassemblies).

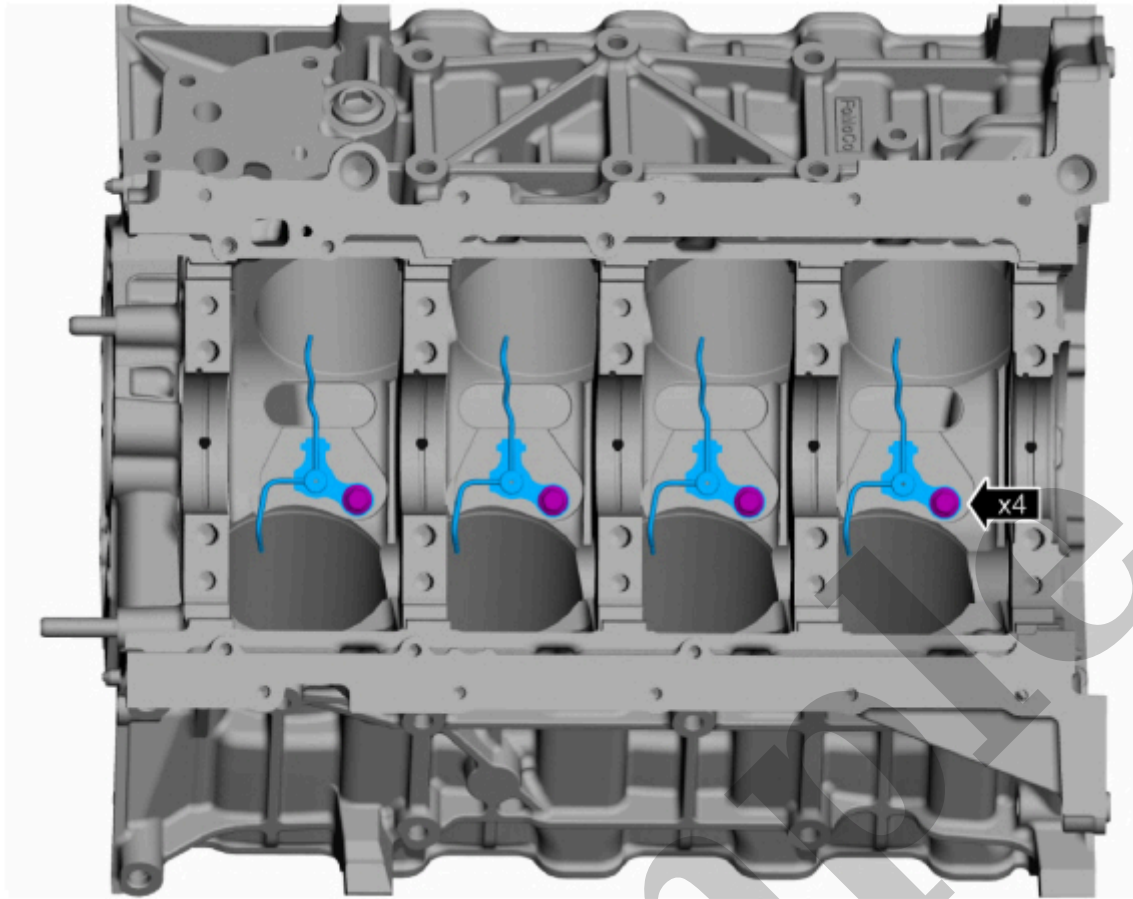
- 111.
1. Remove and discard the cross-mounted main cap bolts.
 2. Remove and discard the main bearing cap inner bolts.
 3. Remove and discard the main bearing cap outer bolts.



E335928

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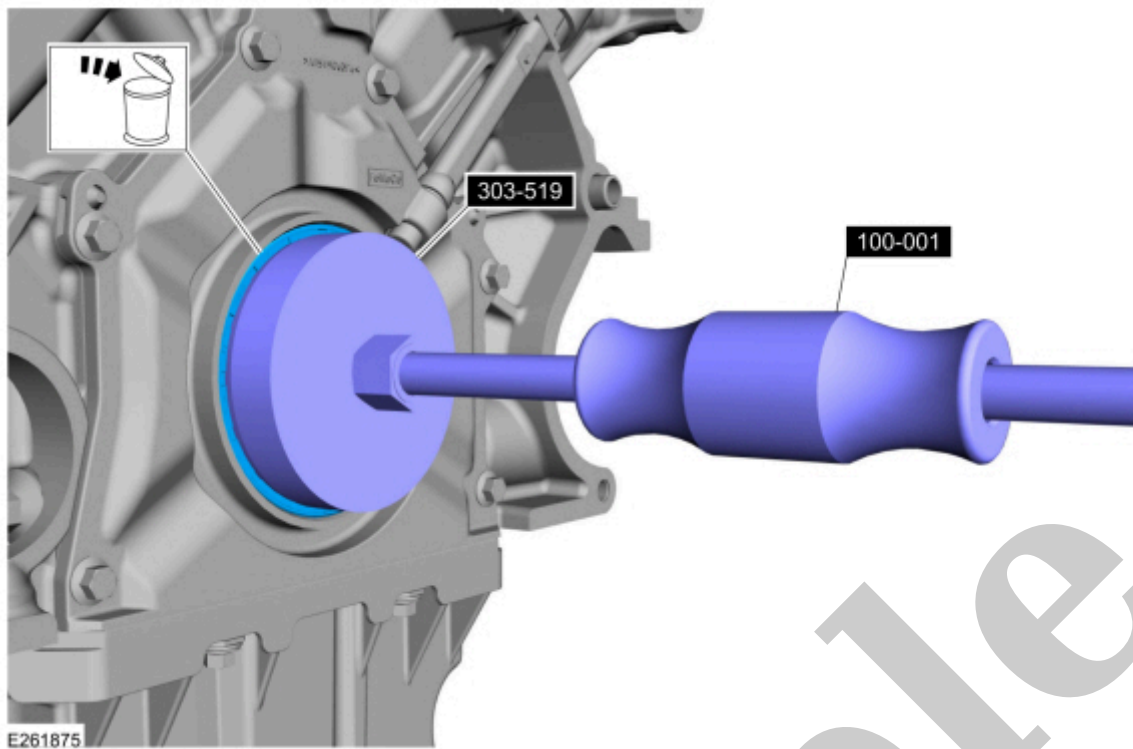
113. Remove the crankshaft (1), the upper crankshaft main bearings (2) and the upper thrust washer (3) from the cylinder block.



E335930

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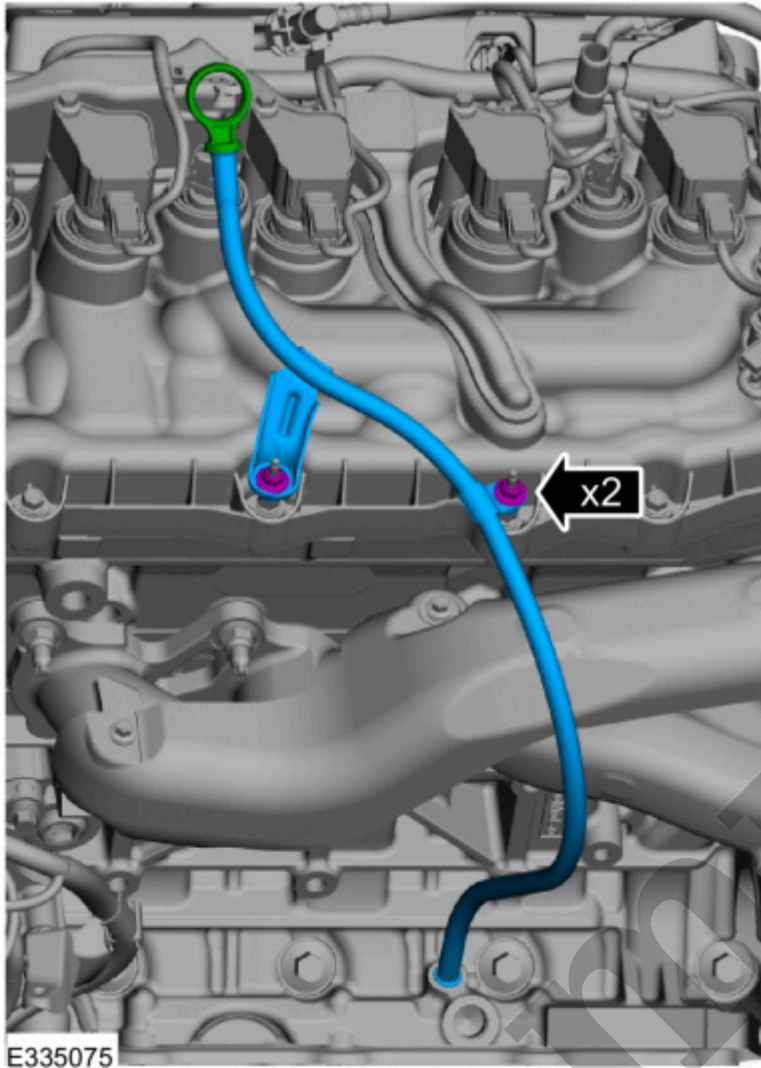
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2. Using a floor crane, install the engine on a mounting stand and remove the special tool.

Remove Special Service Tool : 303-F047 Lifting Bracket, Engine

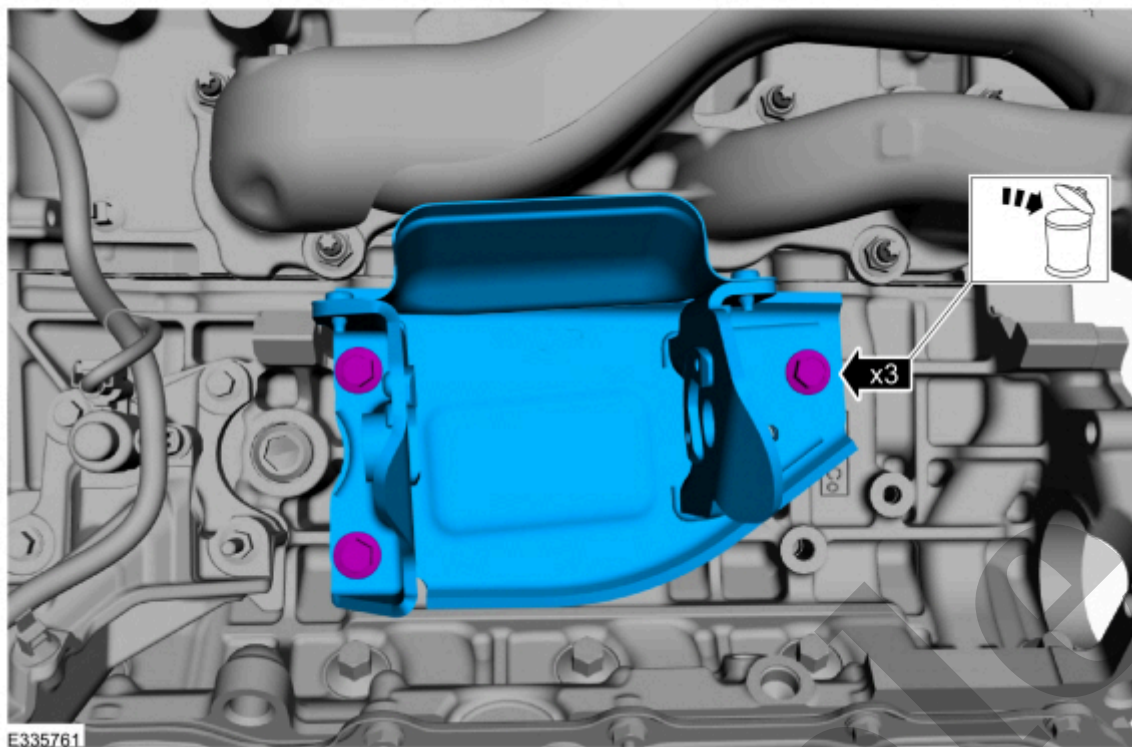
Use the General Equipment: Floor Crane

Use the General Equipment: Mounting Stand



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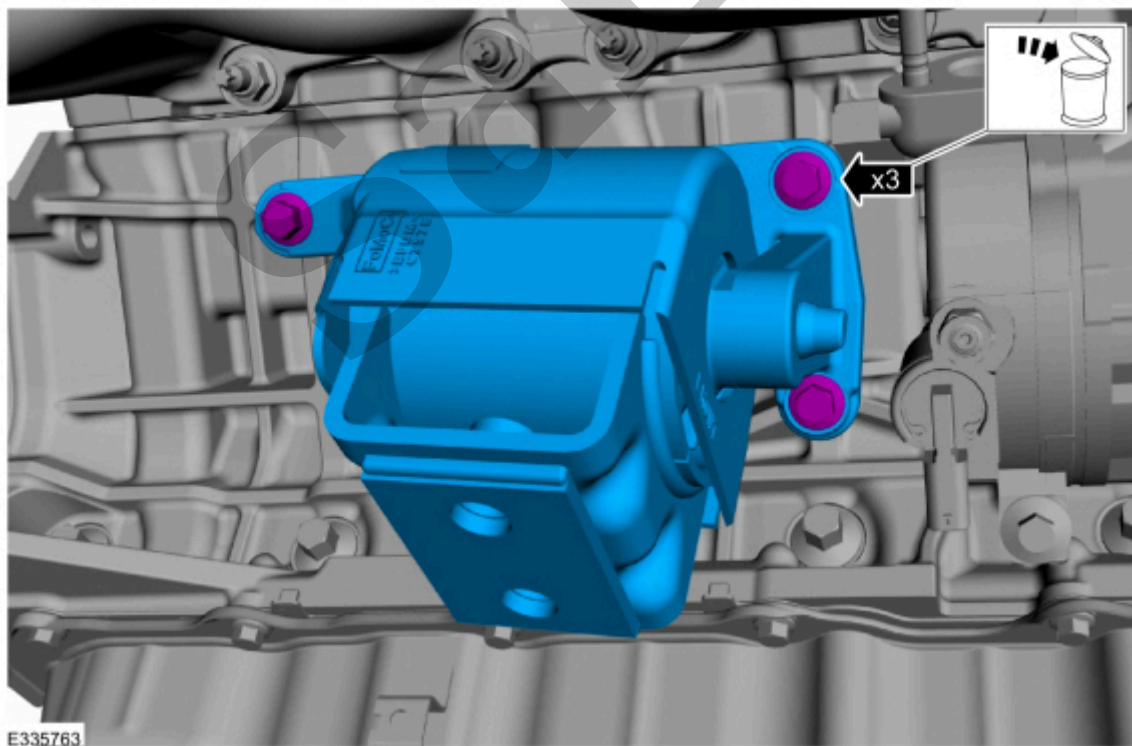
4. Inspect the O-ring seal and replace as necessary.



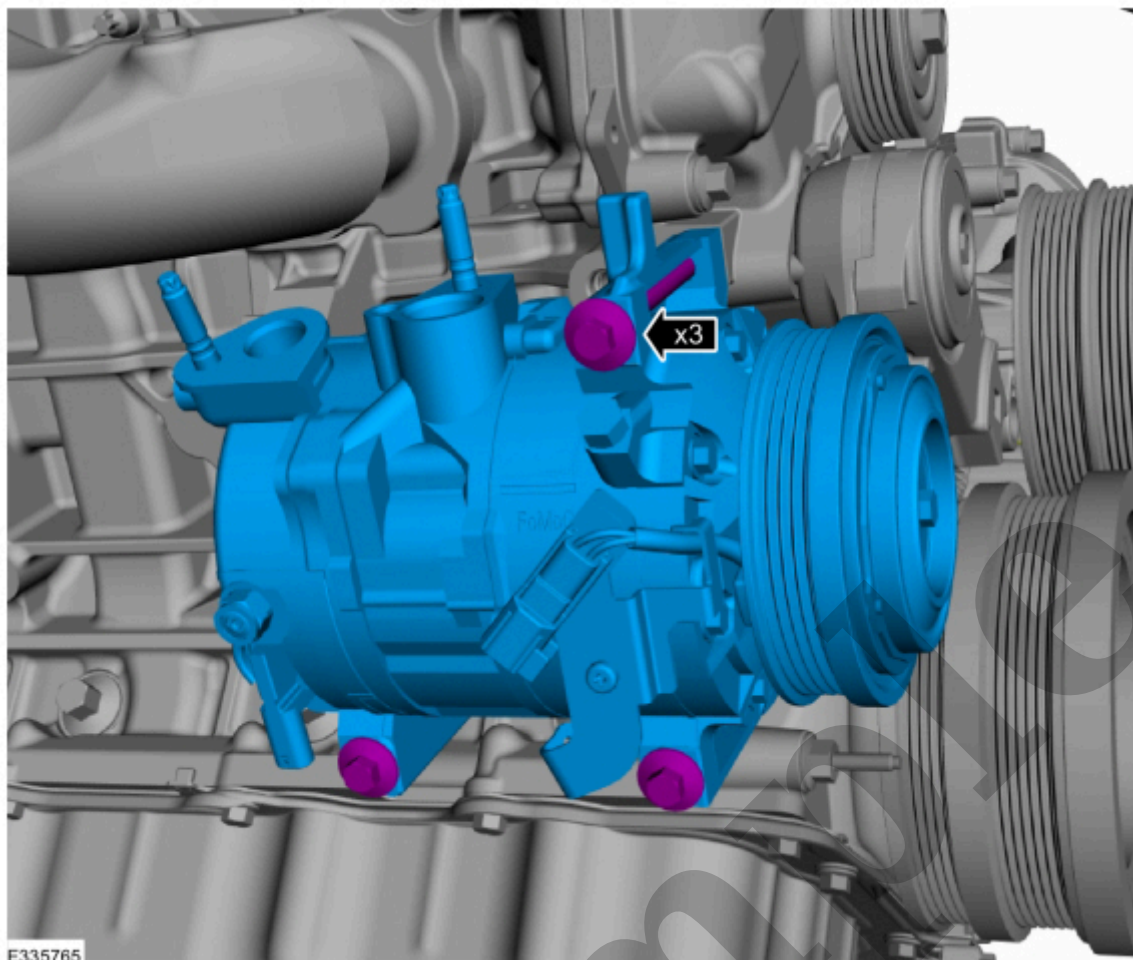
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6. Remove the bolts and the RH (right-hand) engine mount and bracket as an assembly.

- Discard the bolts.

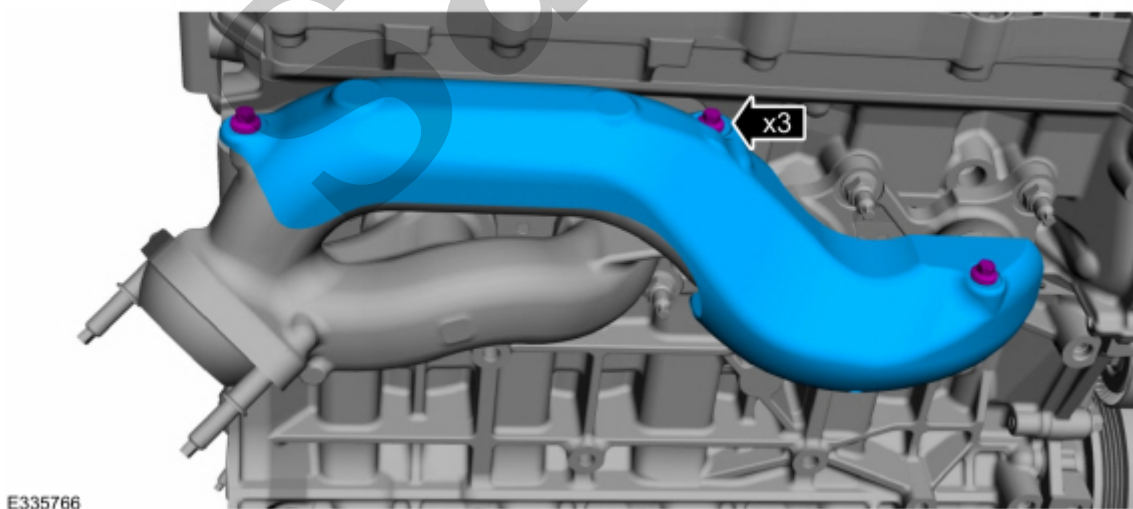


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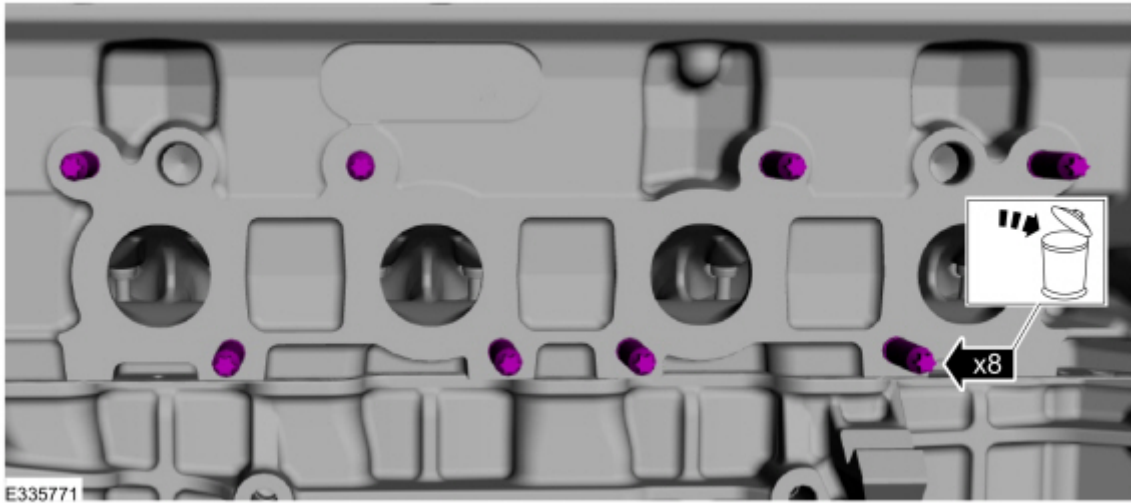
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9. Remove the bolts and the RH (right-hand) exhaust manifold heat shield.



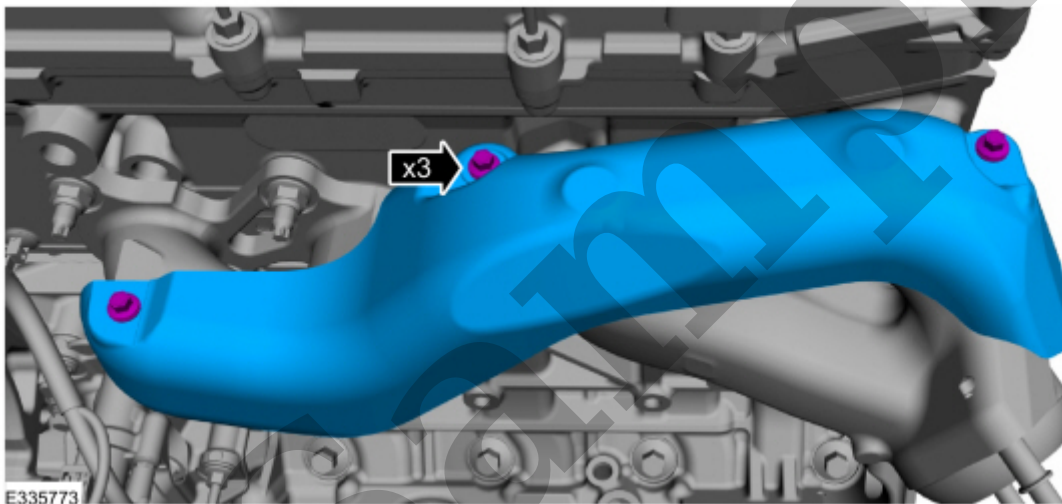
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10. Remove and discard the nuts.



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13. Remove the bolts and the LH (left-hand) exhaust manifold heat shield.



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14. Remove and discard the nuts.

- Remove the exhaust manifold.
- Clean and inspect the exhaust manifold.

Refer to: [Exhaust Manifold Cleaning and Inspection](#)(303-00 Engine System - General Information, General Procedures).