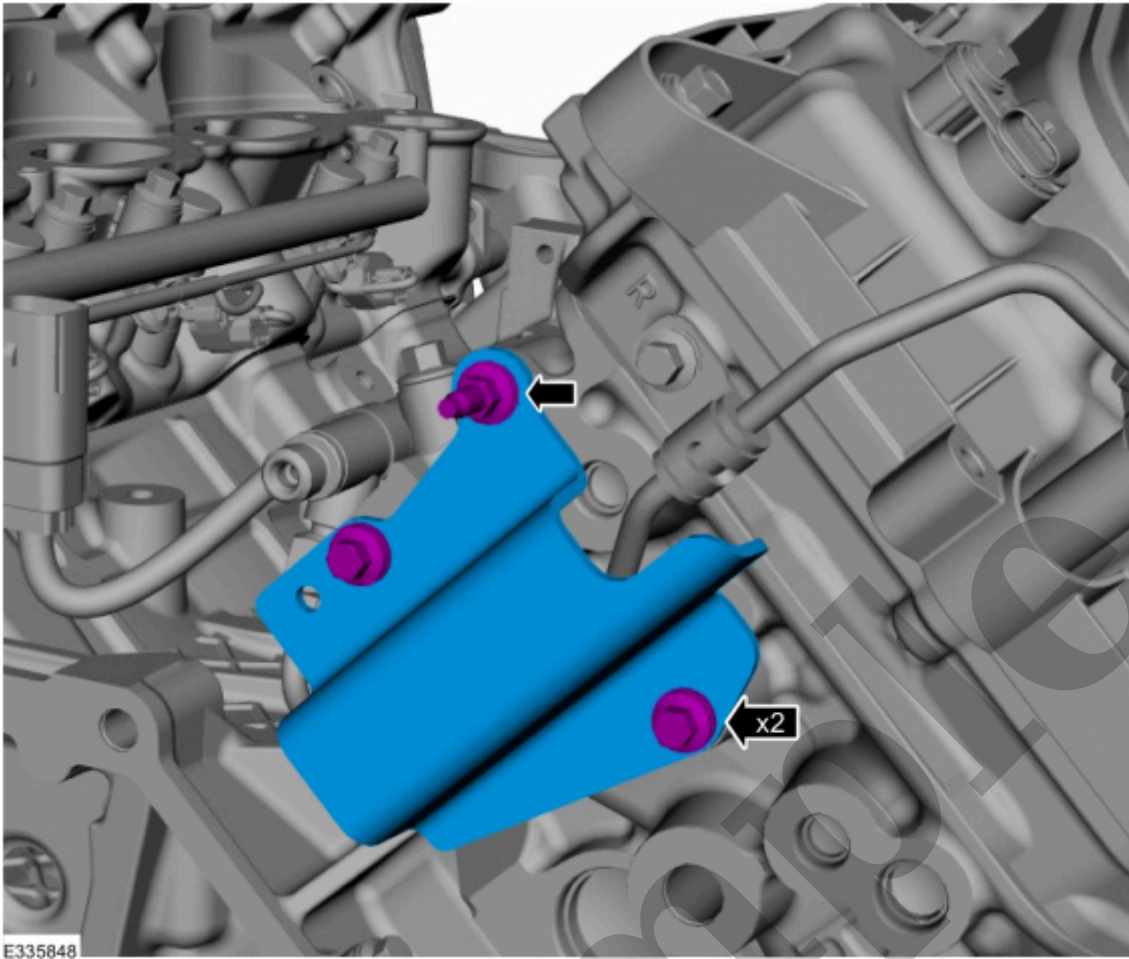


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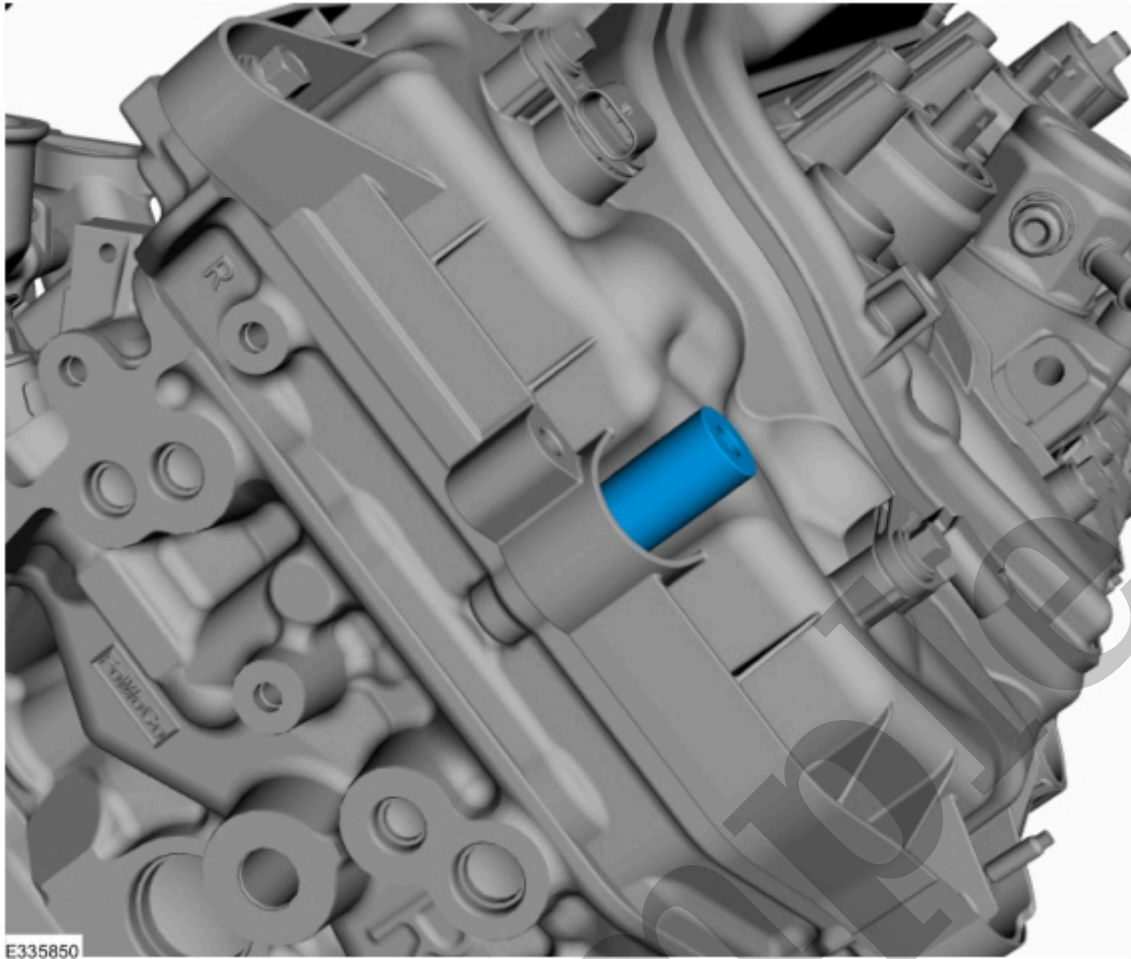


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33. NOTICE

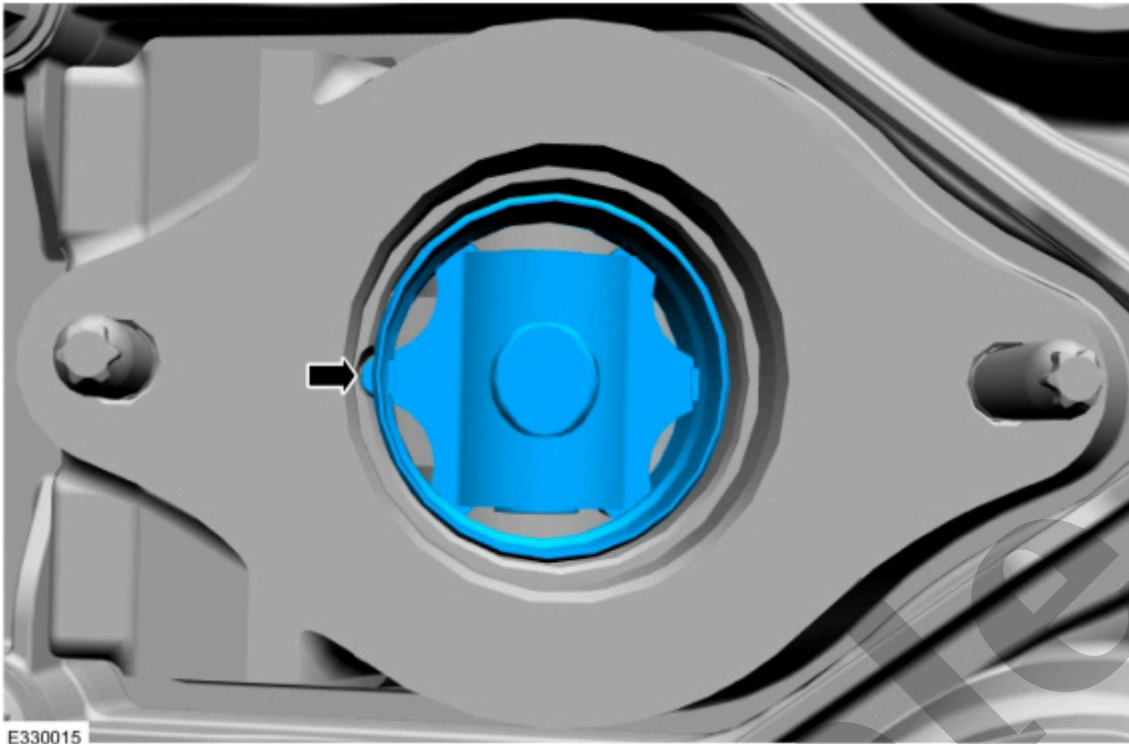
To release the fuel pressure in the high-pressure fuel tube, wrap the high-pressure fuel tube flare nuts with a shop towel to absorb any residual fuel pressure during the loosening of the high-pressure fuel tube flare nuts.

1. Remove the high-pressure fuel tube fasteners.
2. Loosen the high-pressure fuel tube flare nuts,
3. Remove and discard the high-pressure fuel tube.



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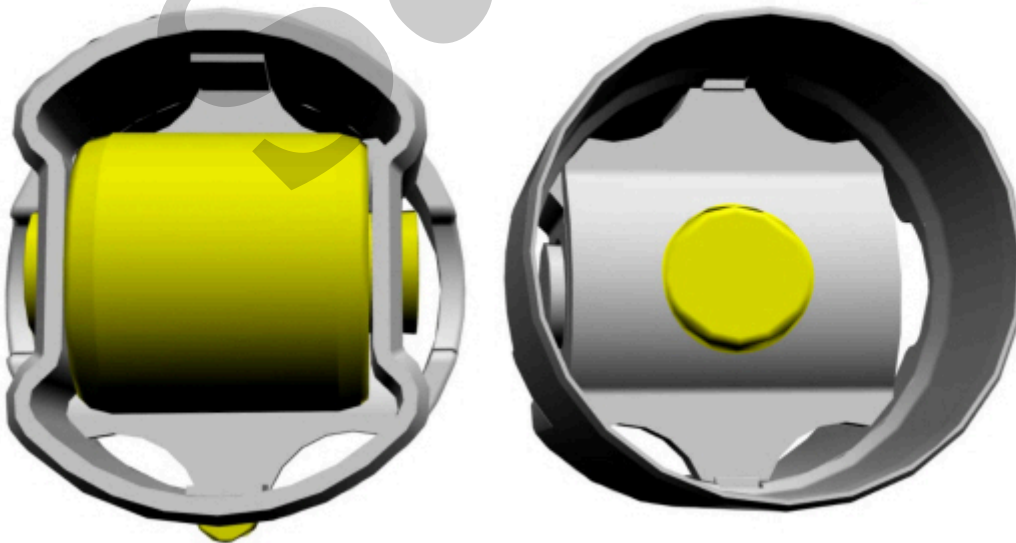
35. Alternately loosen the high-pressure fuel pump nuts one complete revolution at a time and remove, then remove the high-pressure fuel pump.



E330015

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38. Inspect the high-pressure fuel pump roller tappet. If any flat spots or scoring are found, especially in the indicated areas, then inspect the high-pressure fuel pump and the high-pressure fuel pump roller tappet drive lobe. Install new components as needed.



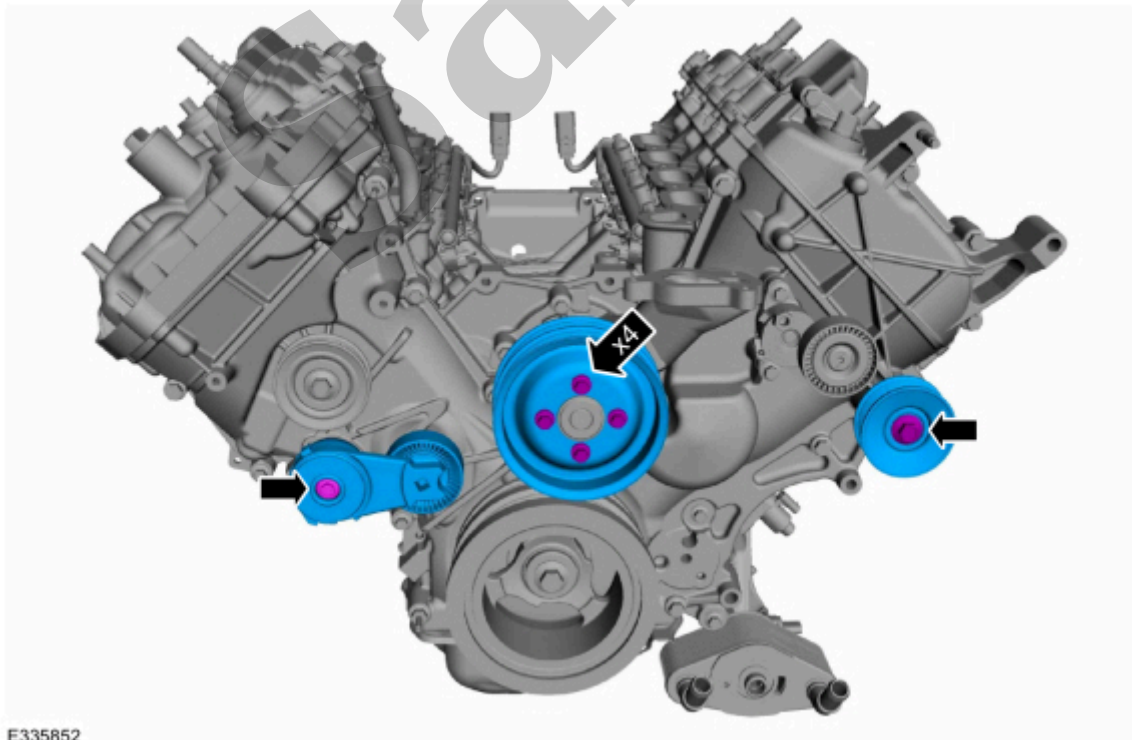
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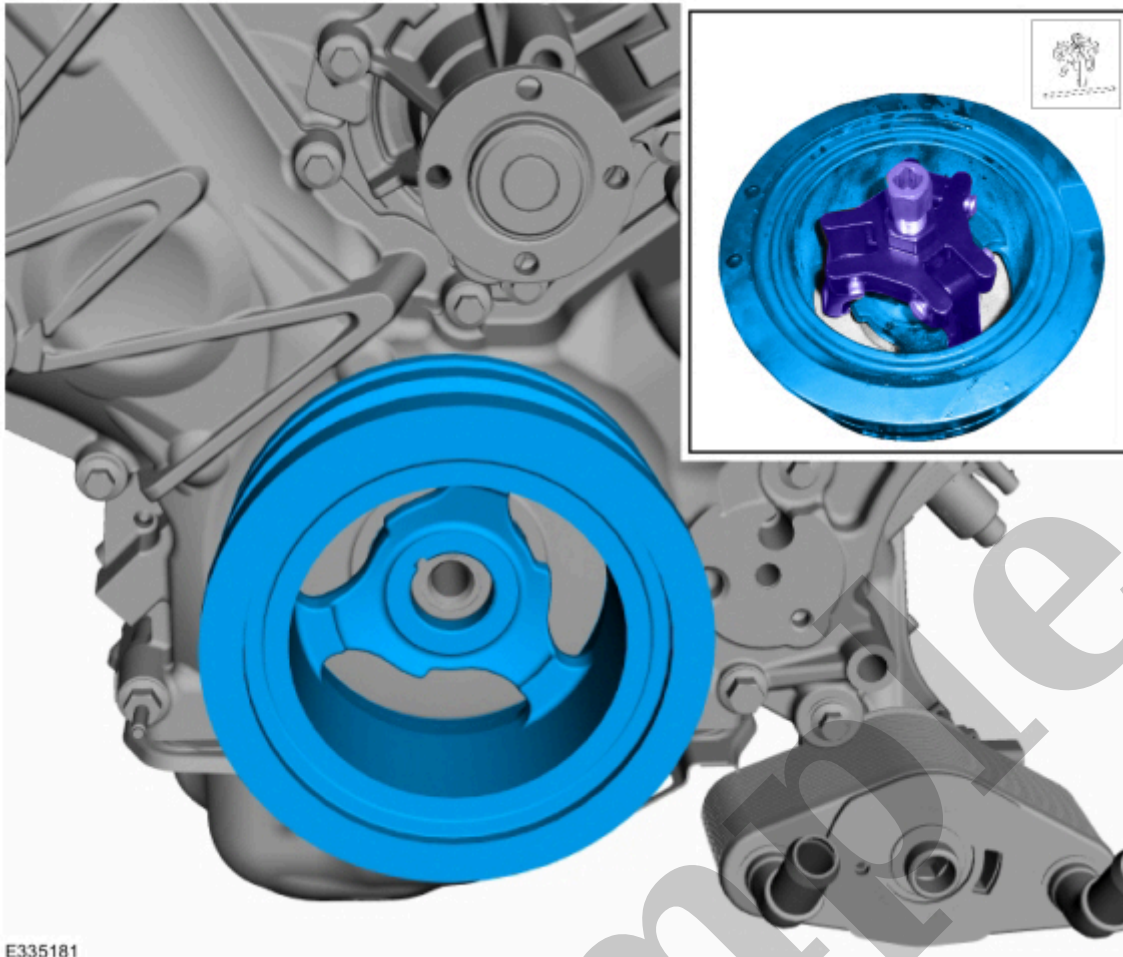
E332255

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41. 1. Remove the bolt and the secondary generator drive belt idler pulley.
2. Remove the bolt and the A/C (air conditioning) compressor drive belt tensioner.
3. Remove the bolts and the coolant pump pulley.



E335852



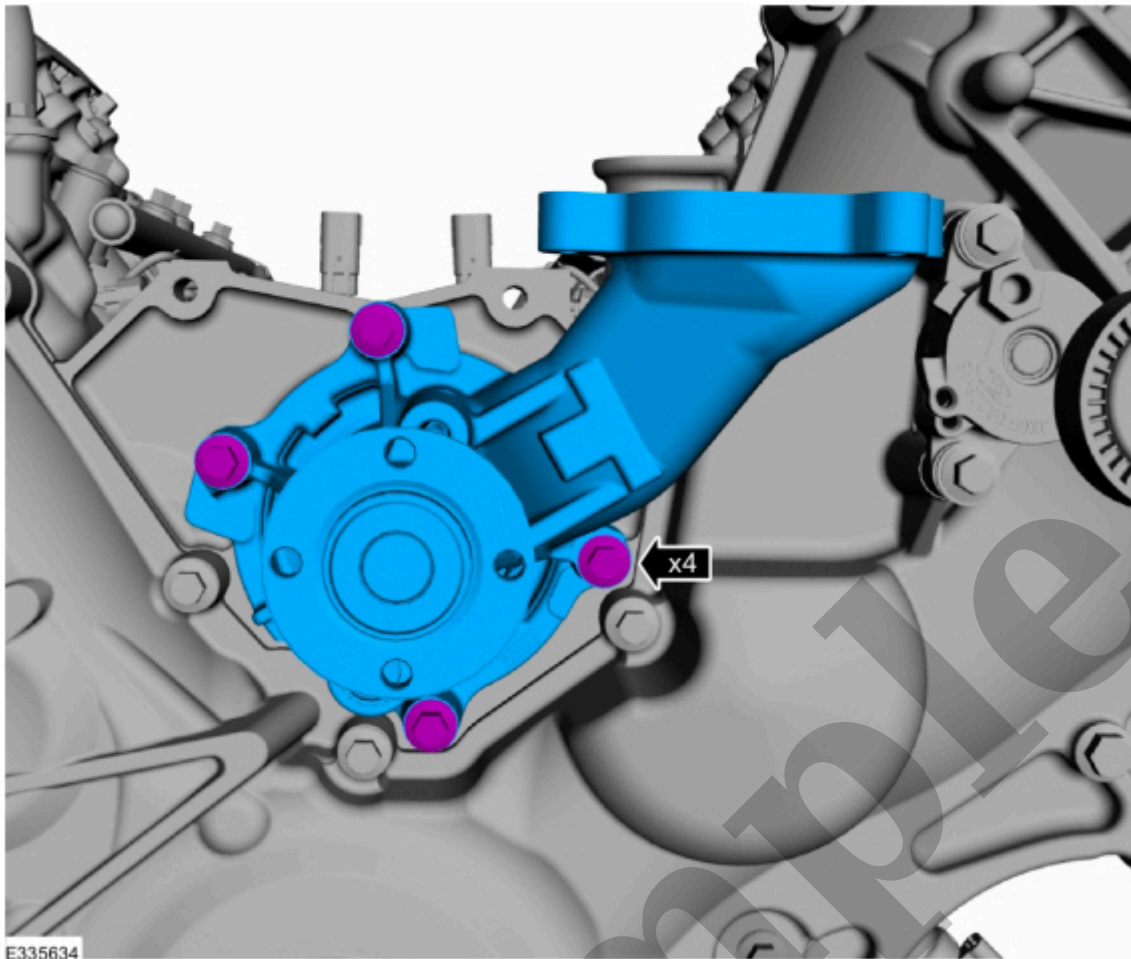
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44. NOTICE

Use care not to damage the engine front cover or the crankshaft when removing the seal.

Install the original crankshaft pulley bolt and use the special tool to remove the crankshaft front oil seal.

- Discard the seal.
- Discard the bolt.



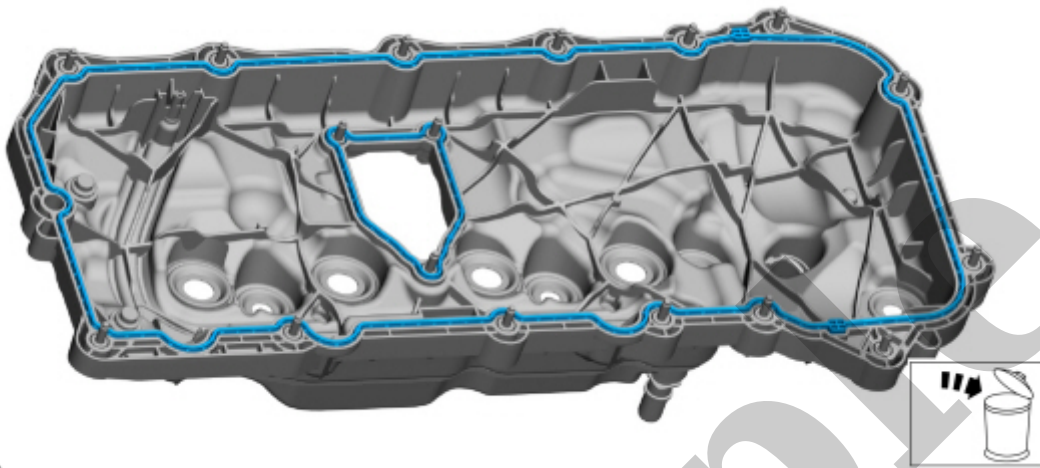
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46. Remove and discard the coolant pump O-ring seal.

48. **NOTE**

Clean the valve cover gasket groove with soap and water or a suitable solvent.

Remove and discard the gaskets.

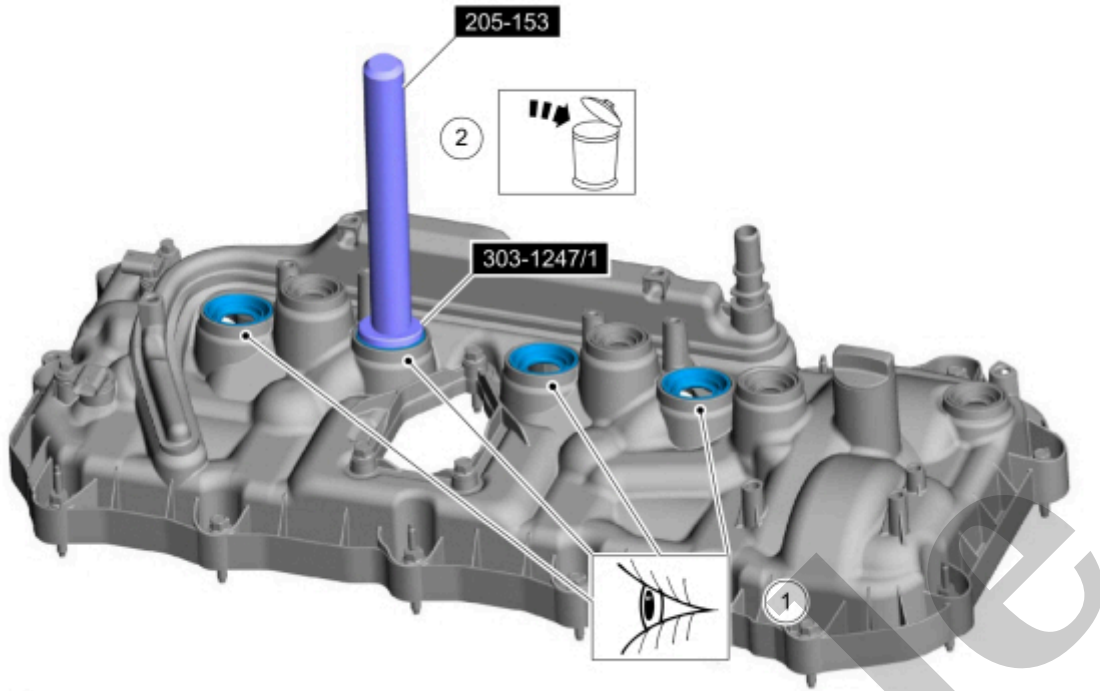


E331782

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49. 1. Inspect the VCT (variable camshaft timing) variable force solenoid seal, the VCT (variable camshaft timing) oil control solenoid seal and the cylinder deactivation solenoid seals.
2. Remove and discard any damaged seals using the special tools.

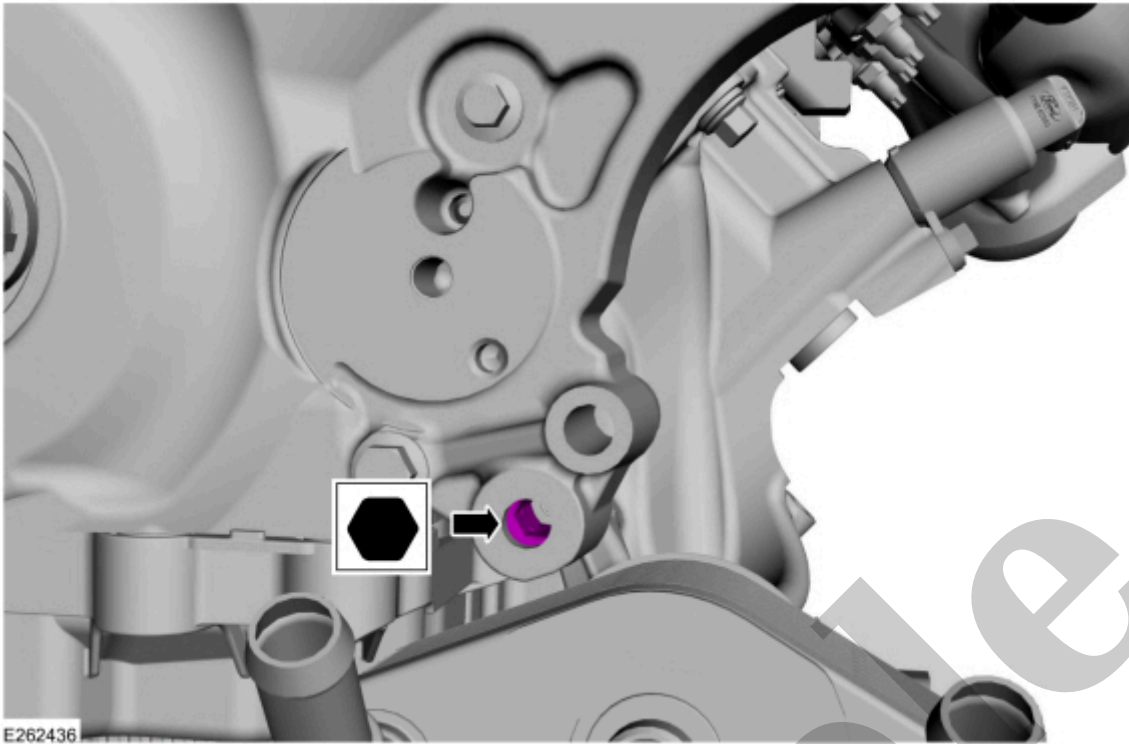
Use Special Service Tool : 205-153 (T80T-4000-W) Handle , 205-142 (T80T-4000-J) Installer,
Differential Bearing Cone



E331784

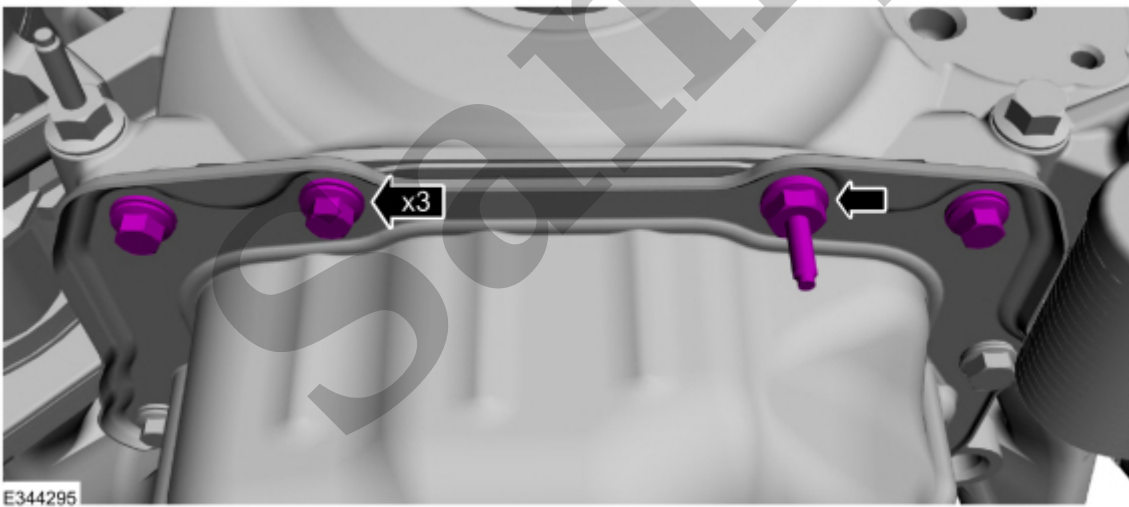
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51. Remove the engine front cover-to-oil filter adapter bolt.



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53. Remove the fasteners.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

54. **NOTE**

There are 3 different fasteners used, note the location of fasteners for assembly.

Remove the bolts and stud bolts.