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2015 Ford Transit-250 Service and Repair Manual

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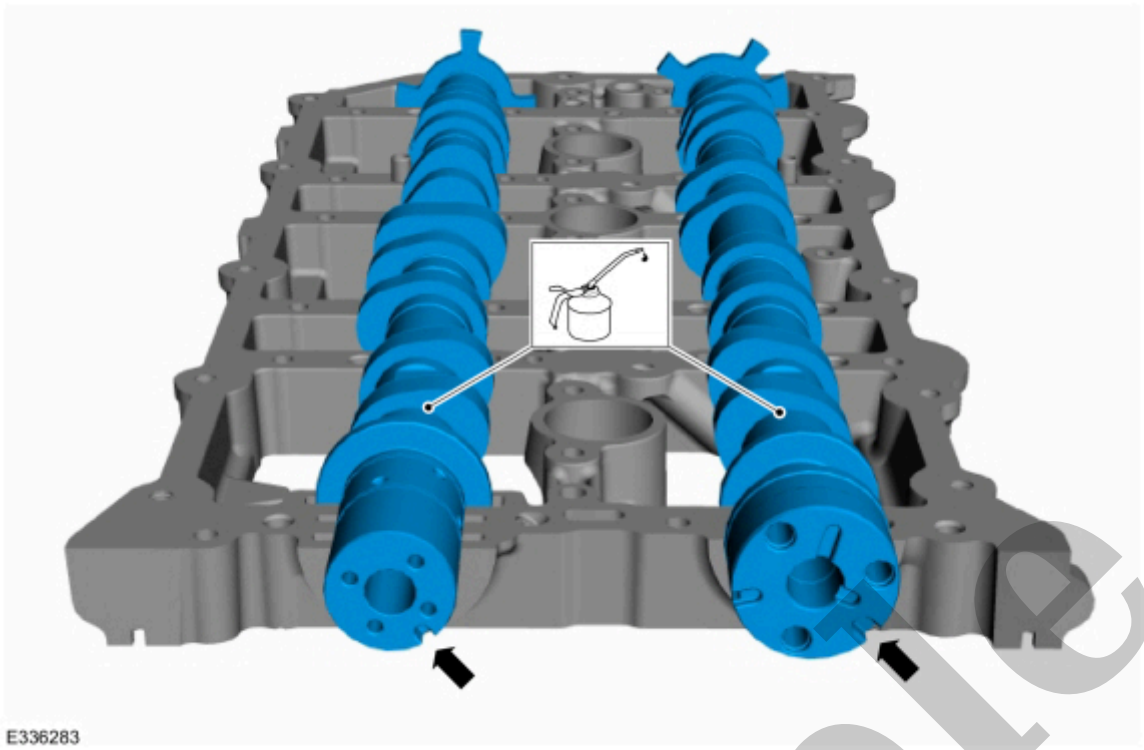

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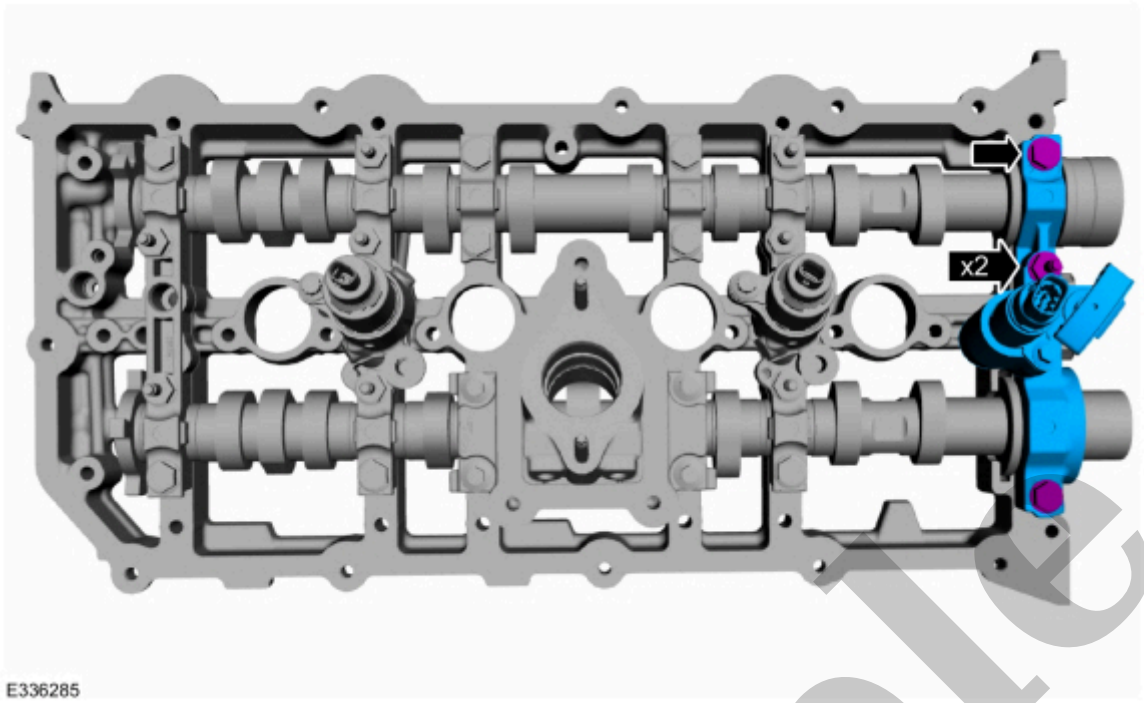
13. **NOTE**

    Do not tighten at this time.

    Install the camshaft bearing caps and the bolts.



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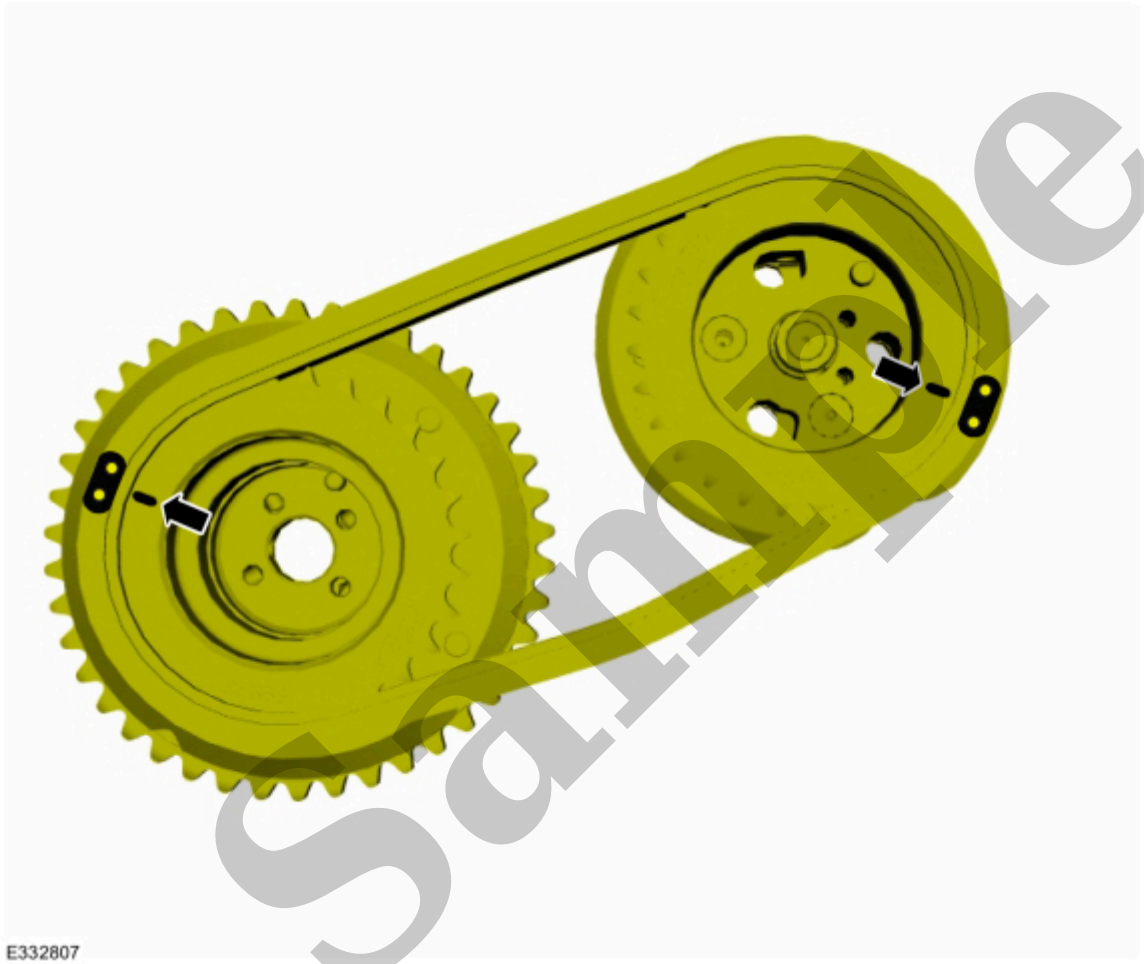
15. Tighten the bolts in sequence.

    Torque :

    Stage 1: Bolts 1-23: 53 lb.in (6 Nm)

    Stage 2: Bolts 1-2, 5-6, 9-23: 45° Bolts 3-4, 7-8: 90°

17. Position the secondary timing chain onto the VCT (variable camshaft timing) assemblies. Align the colored links on the secondary timing chain with the timing marks on the VCT (variable camshaft timing) assemblies as shown in the illustration.
    - The timing mark on the intake VCT (variable camshaft timing) assembly should align with the colored link.
    - The timing mark on the exhaust VCT (variable camshaft timing) assembly should align with the colored link.



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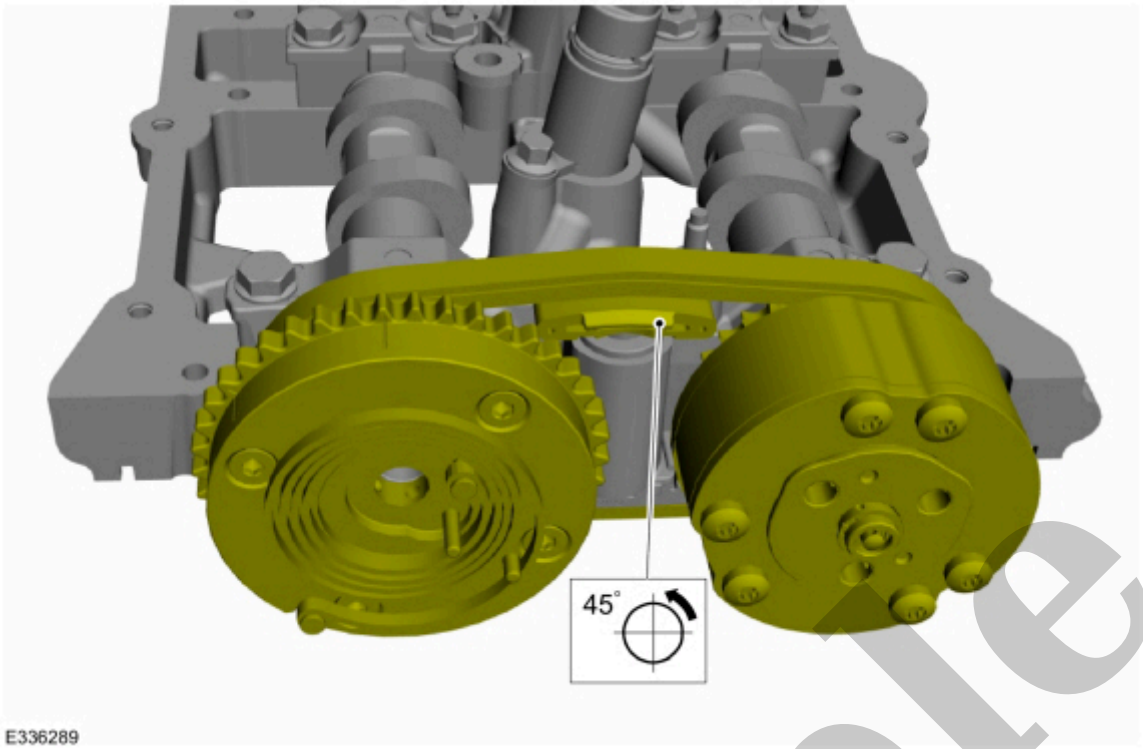
18. Install the VCT (variable camshaft timing) assemblies and the secondary timing chain onto the camshafts. The timing mark on the exhaust VCT (variable camshaft timing) assembly should be in the position shown.



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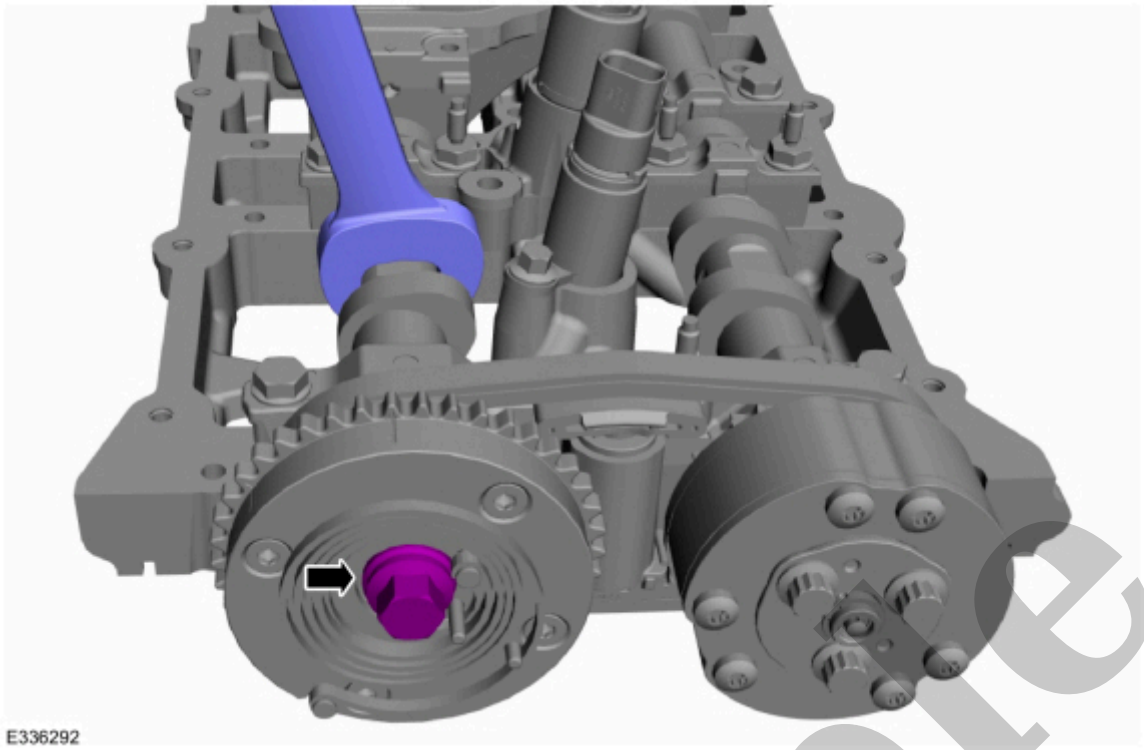
20. **NOTE**

Do not tighten the bolts at this time.

- Install a new exhaust VCT (variable camshaft timing) assembly bolt.
- Install new intake VCT (variable camshaft timing) assembly bolts.



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22. **NOTE**

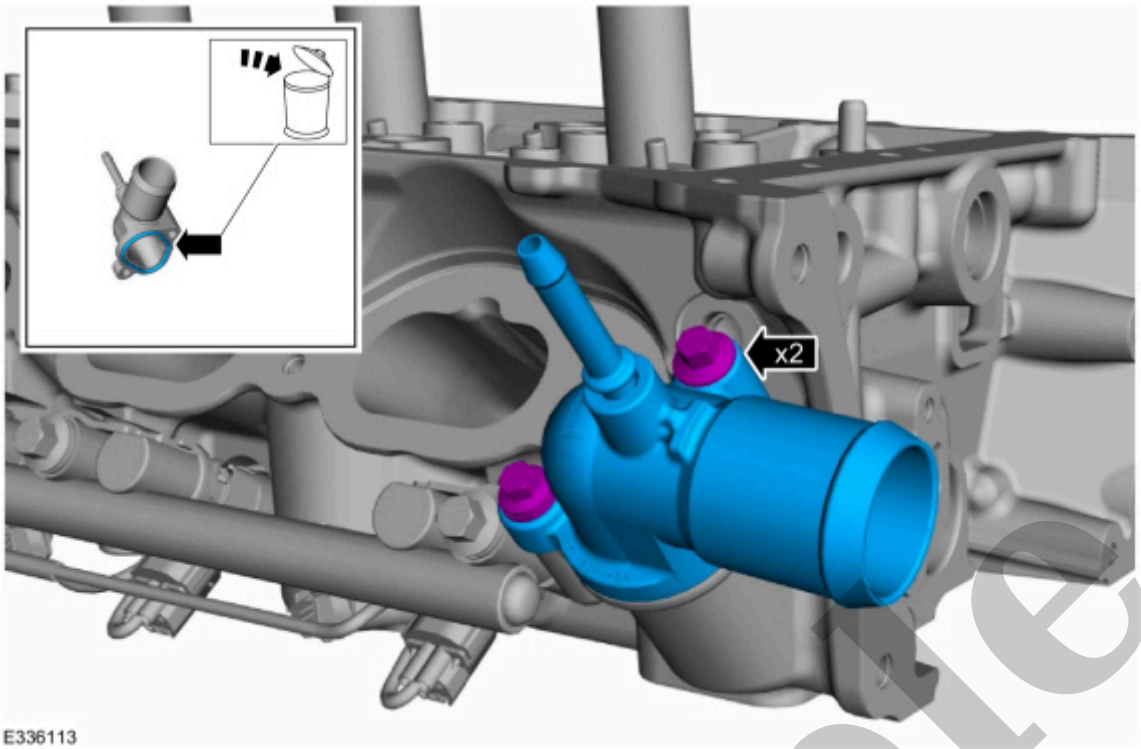
Use a wrench on the flats of the camshaft to hold the camshafts while tightening the VCT (variable camshaft timing) assembly bolts.

Tighten the intake VCT (variable camshaft timing) assembly bolts.

Torque :

Stage 1: 133 lb.in (15 Nm)

Stage 2: 90°



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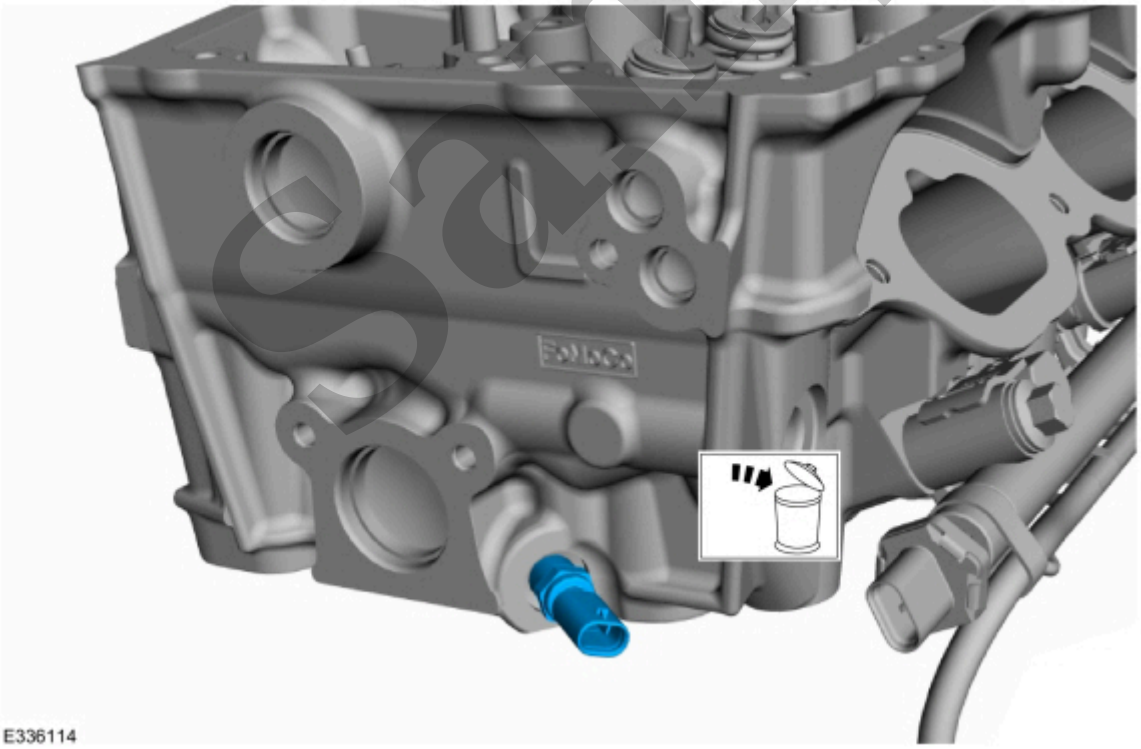
2. Remove and discard the CHT (cylinder head temperature) sensor.



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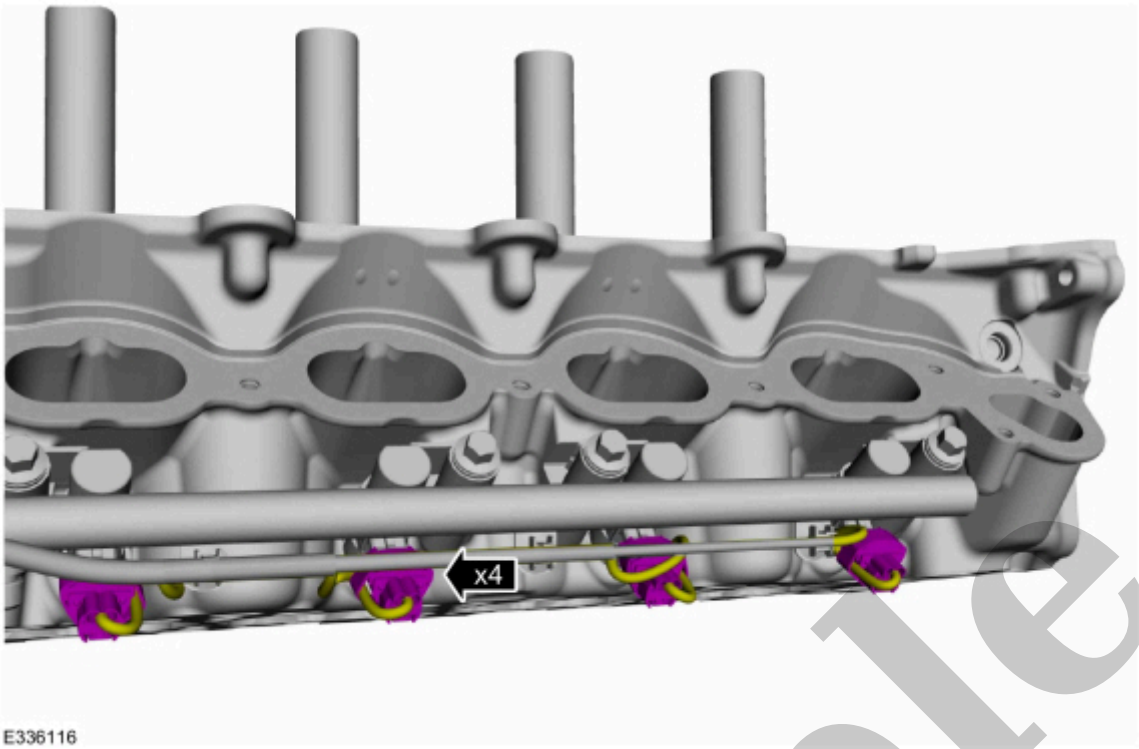
RH cylinder heads



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5. **NOTICE**

   Pull out the fuel rails in the direction of the fuel injector axis or damage may occur to the fuel injectors.

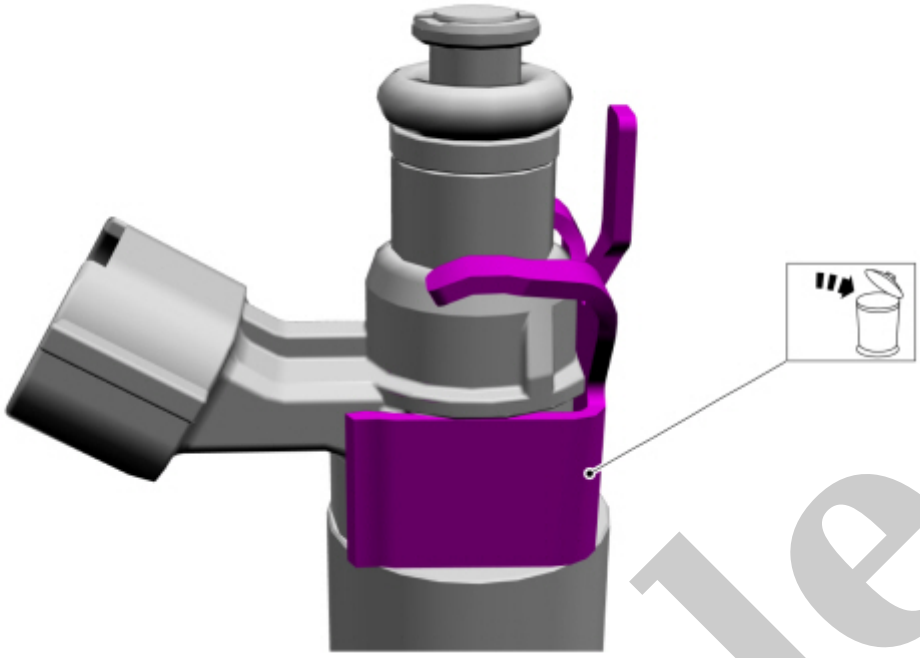
   NOTE

   Use compressed air and remove any dirt or foreign material from the cylinder head, block and general surrounding area of the fuel rail and injectors.

   NOTE

   When removing the fuel rails, the fuel injectors may remain in the cylinder heads and require the use of a Fuel Injector Remover tool to extract. Wiggling the injector by hand to break it loose may allow the injector to be removed by hand.

   Remove the fuel rail bolts, then remove the fuel rail.



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8. **NOTICE**

   Use minimal force to remove the fuel injectors that remained in the cylinder head with the Fuel Injector Remover tool or damage to the fuel injector assembly may occur. Wiggling the injector by hand to break it loose may allow the injector to be removed by hand.

   Using the special tools, remove any of the fuel injectors that remained in the cylinder head.

   Use Special Service Tool : 307-005 (T59L-100-B) Slide Hammer , 310-206 Remover, Fuel Injector