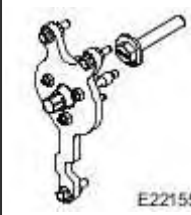
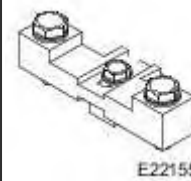
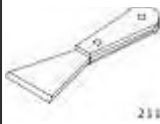
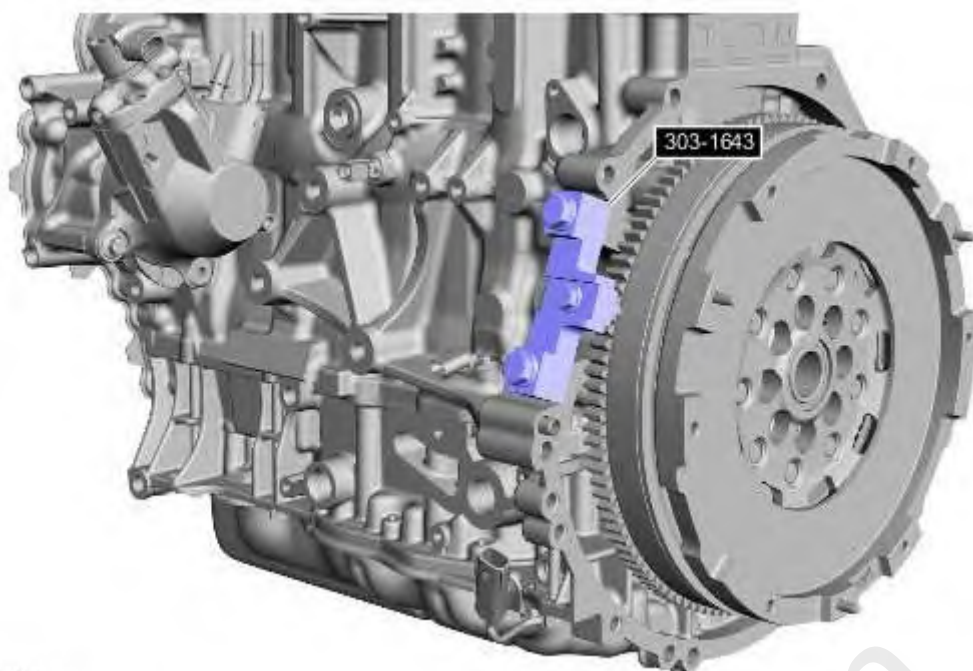


Disassembly

Special Tool(s) / General Equipment

	204-158-01 Adapter for 204-158 (Thrust Pad)
	303-1635 Remover/Installer, Fuel Injection Pump
	303-1637 Holding Tool, Crankshaft
	303-1643 Locking Tool, Flywheel
	303-428 Separator, Oil Pan
4 mm Drill Bit	
6 mm Drill Bit	
Adhesive Tape	
Fluid Container	
Two Leg Puller	

1. Install Special Service Tool: [303-1643](#).



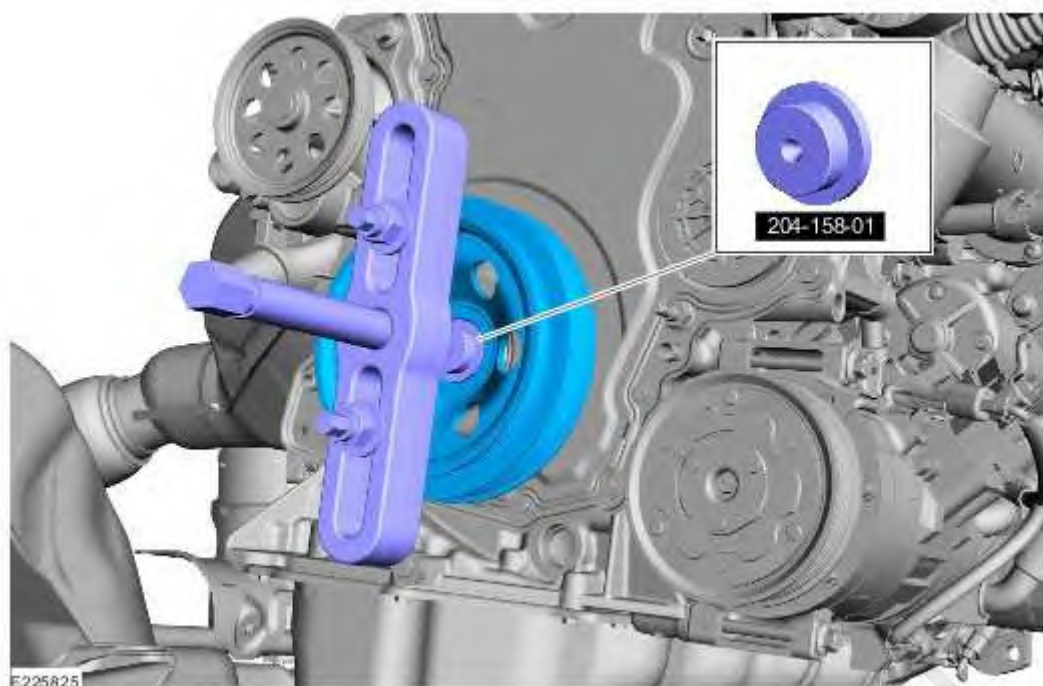
E227375

2.

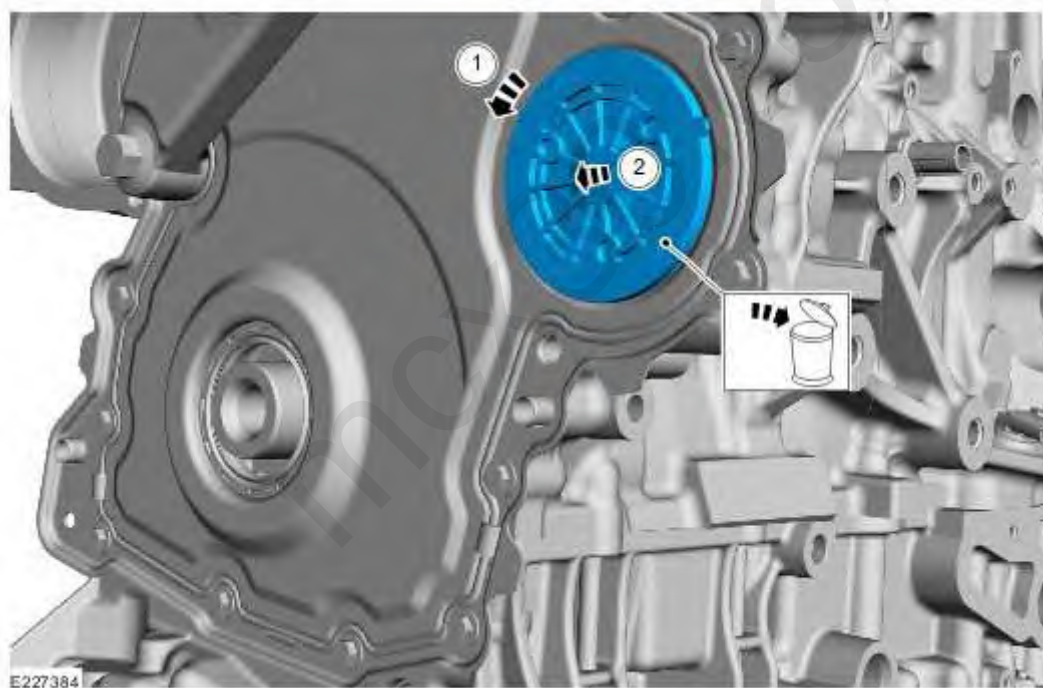


E227376

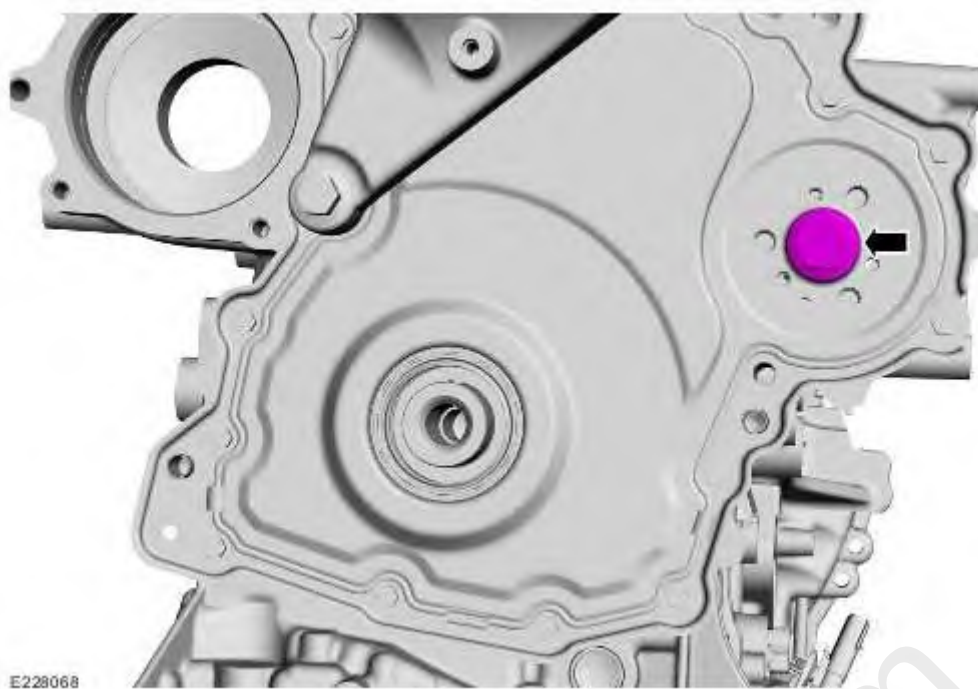
3. Use Special Service Tool: [204-158-01](#).
Use the General Equipment: [Two Leg Puller](#)



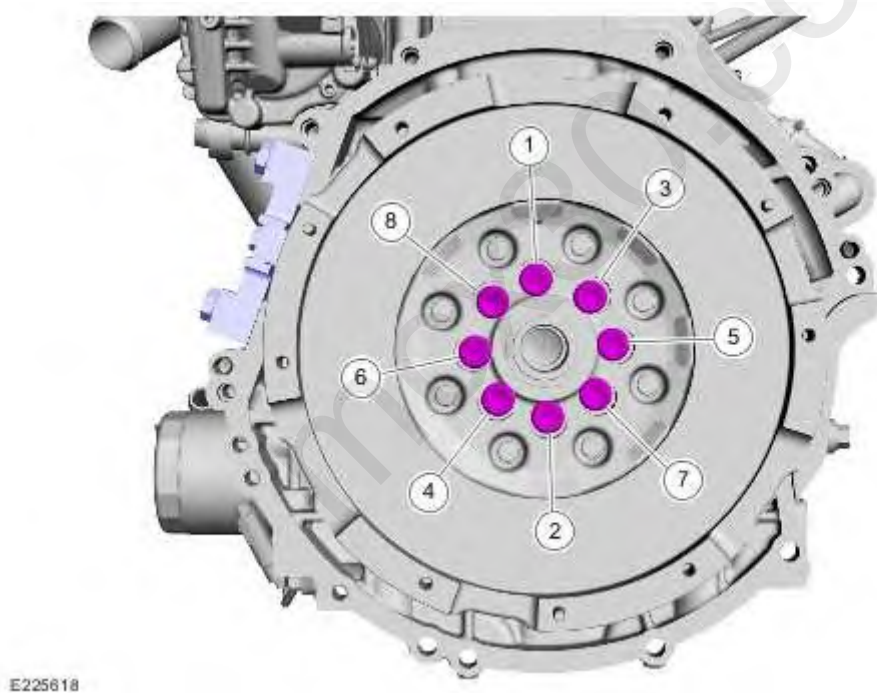
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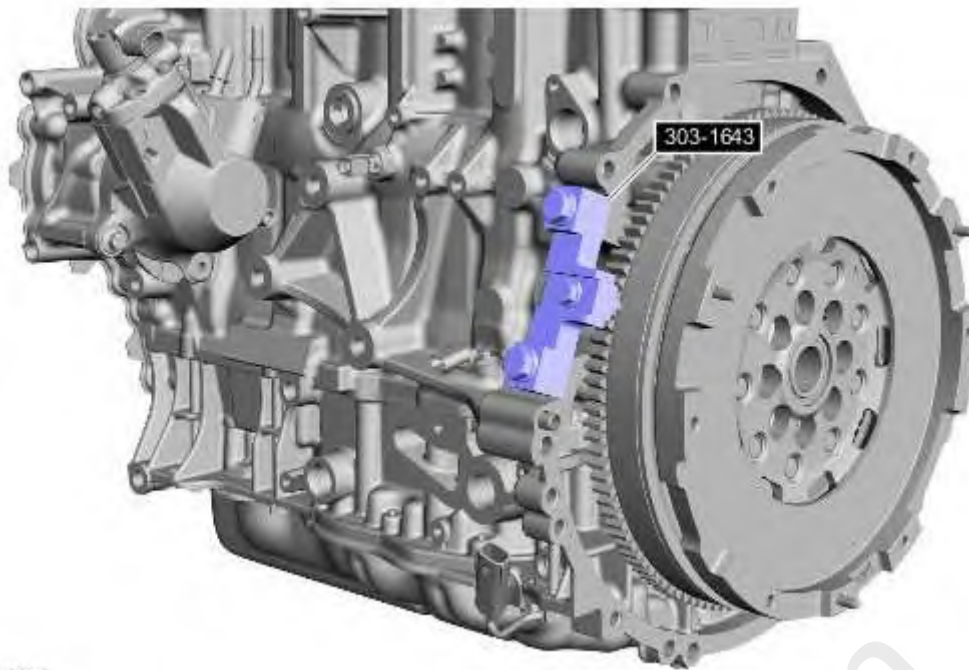
5. Loosen: 180°



6. Loosen: 6 turn(s)

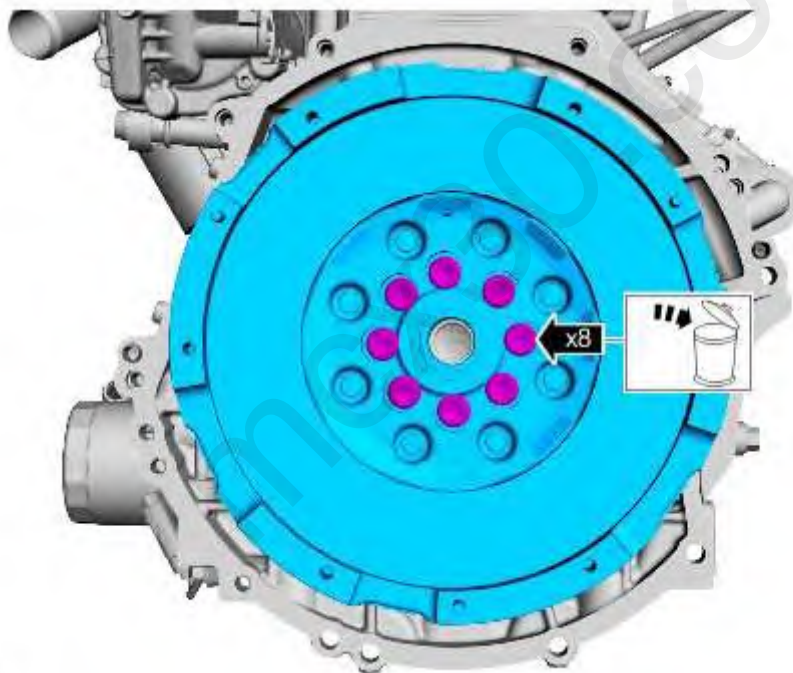


7. Remove Special Service Tool: [303-1643](#).



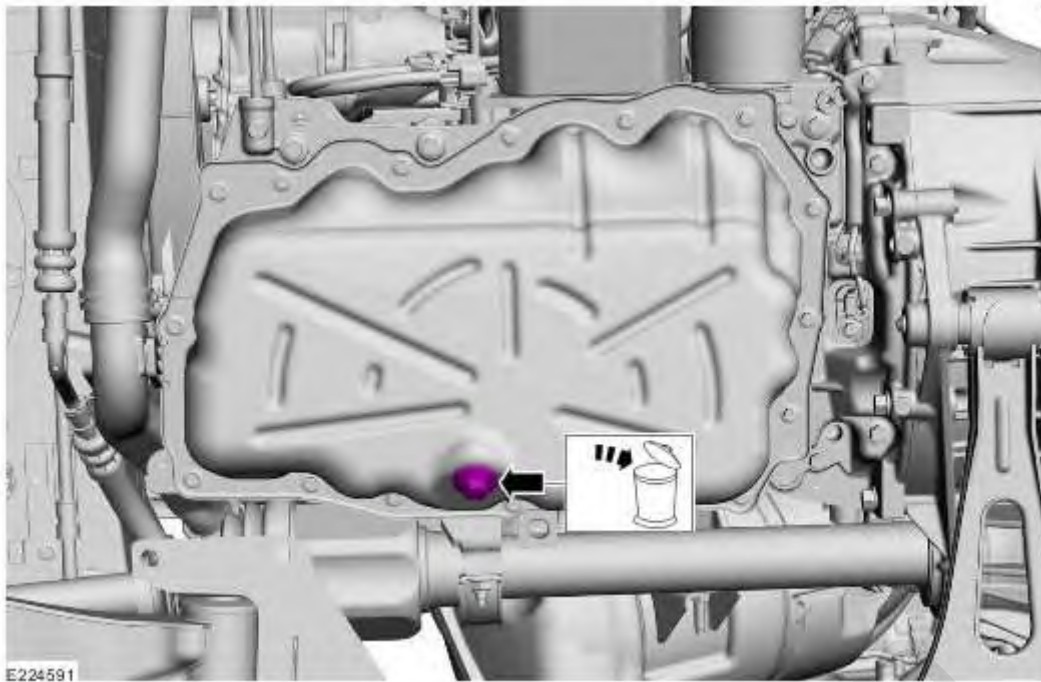
E227375

8.

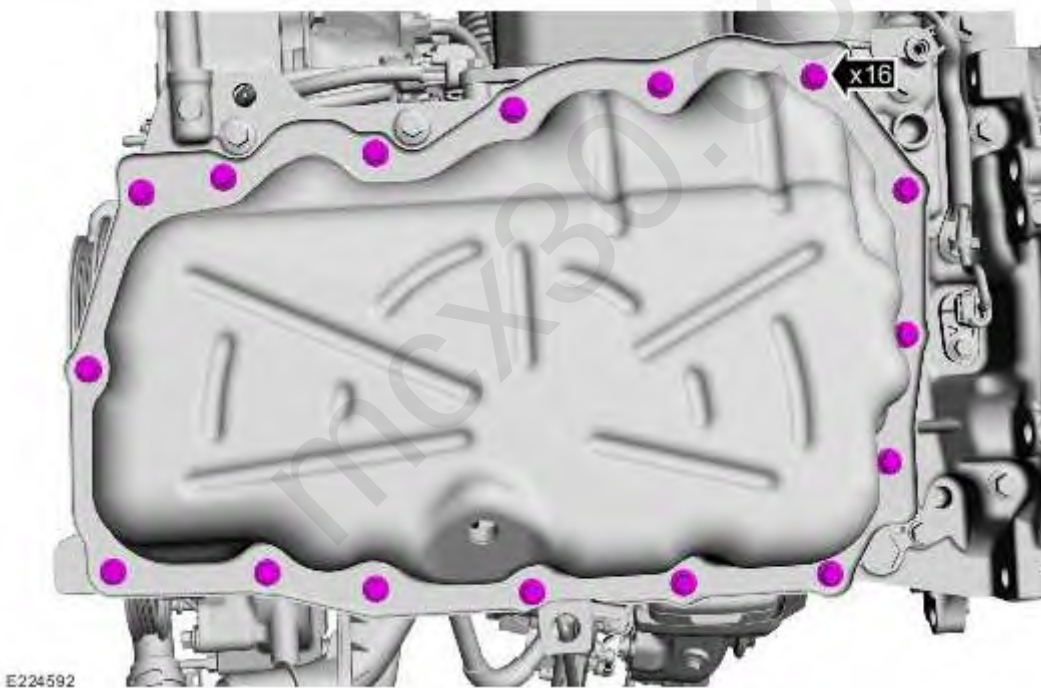


E225696

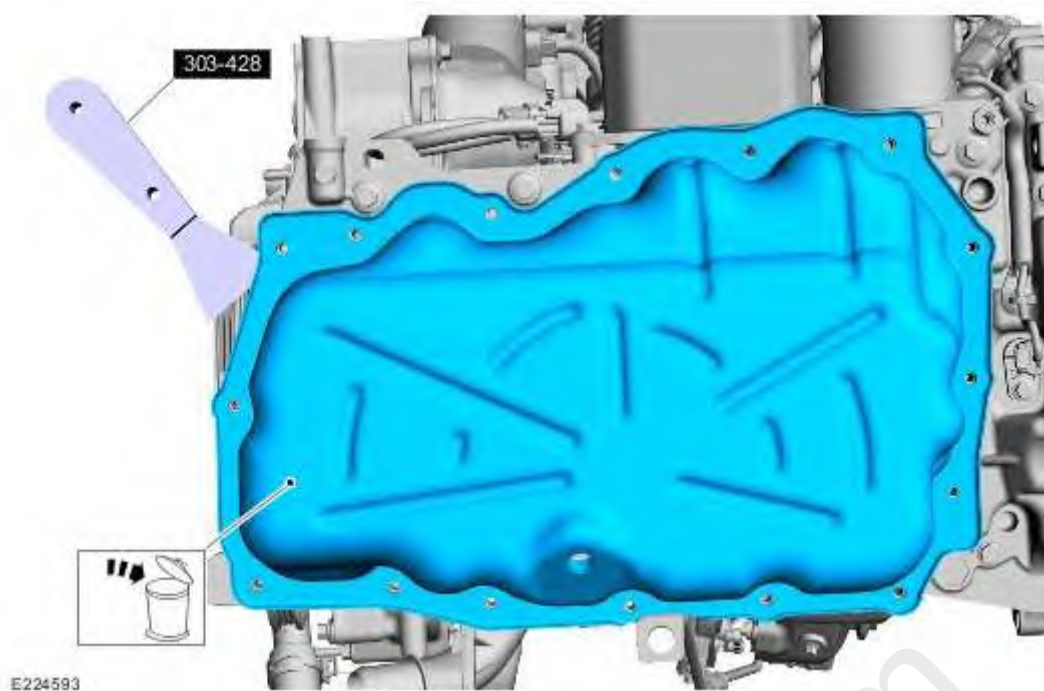
9. **NOTE:** Be prepared to collect escaping fluid.
Use the General Equipment: [Fluid Container](#)



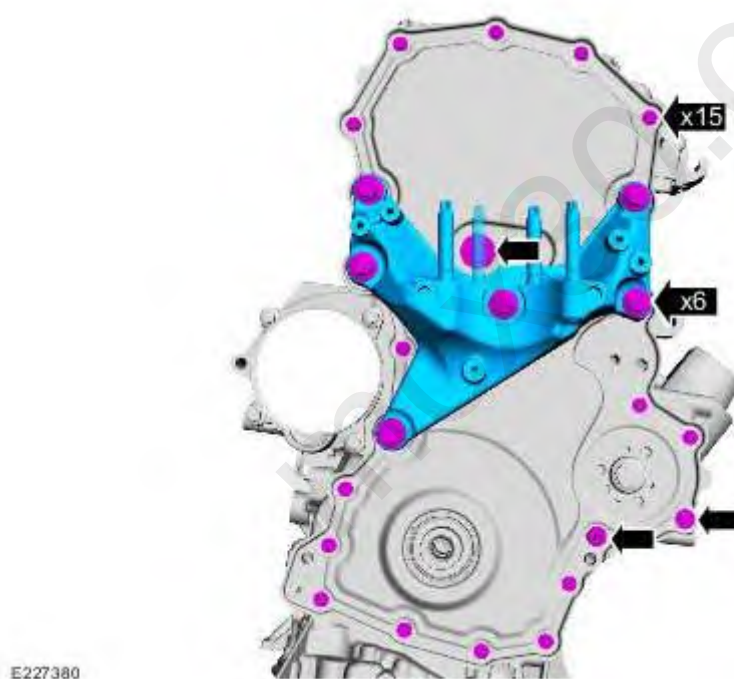
10. NOTE: Use suitable paper to absorb any escaping fluid.



11.   NOTE: Use suitable paper to absorb any escaping fluid.
Use Special Service Tool: [303-428](#).



12.

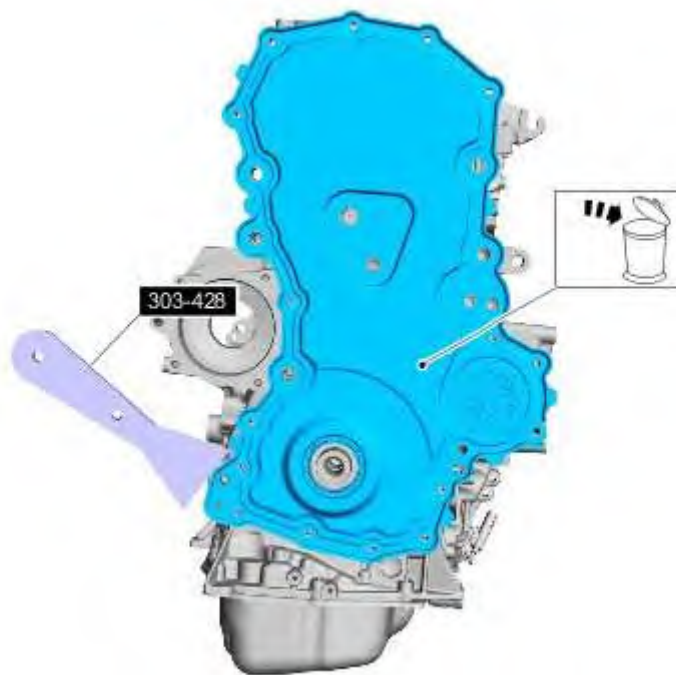


13.



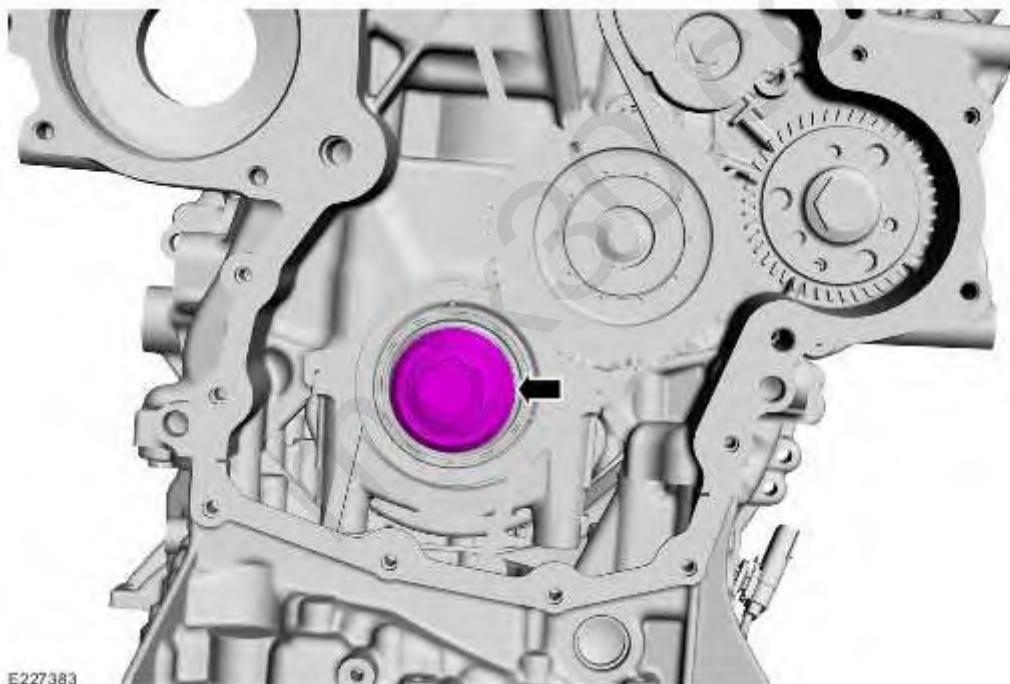
NOTE: Be prepared to collect escaping fluid.

Use Special Service Tool: [303-428](#).



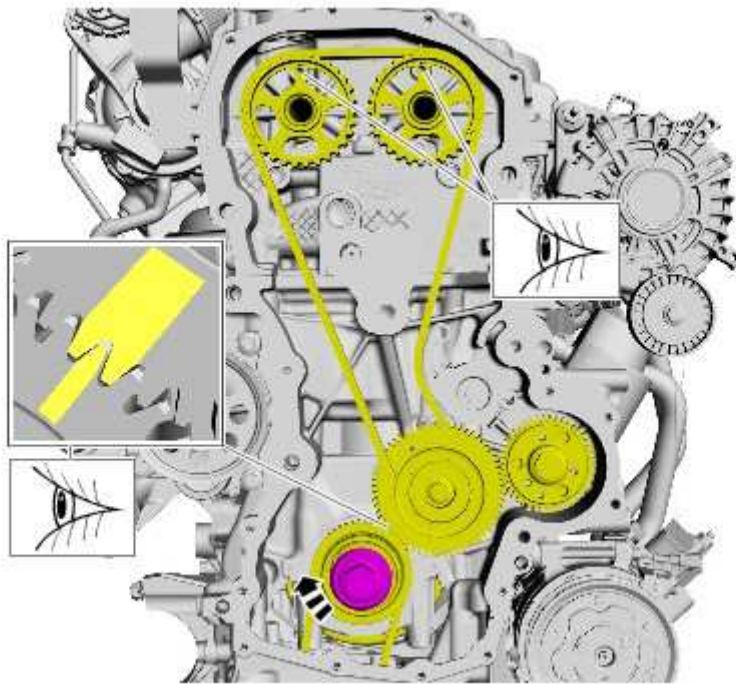
E227378

14. **NOTE:** Only tighten the bolt finger tight at this stage.

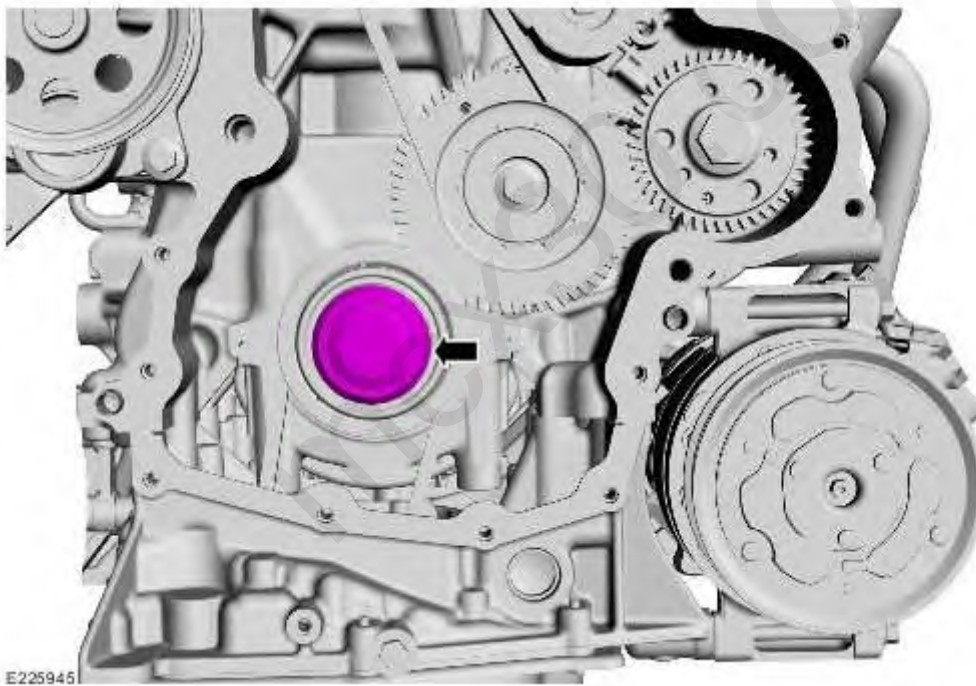


E227383

15. **⚠ NOTICE:** Only rotate the crankshaft clockwise.
Rotate the crankshaft until piston No. 1 is at top dead center (TDC).

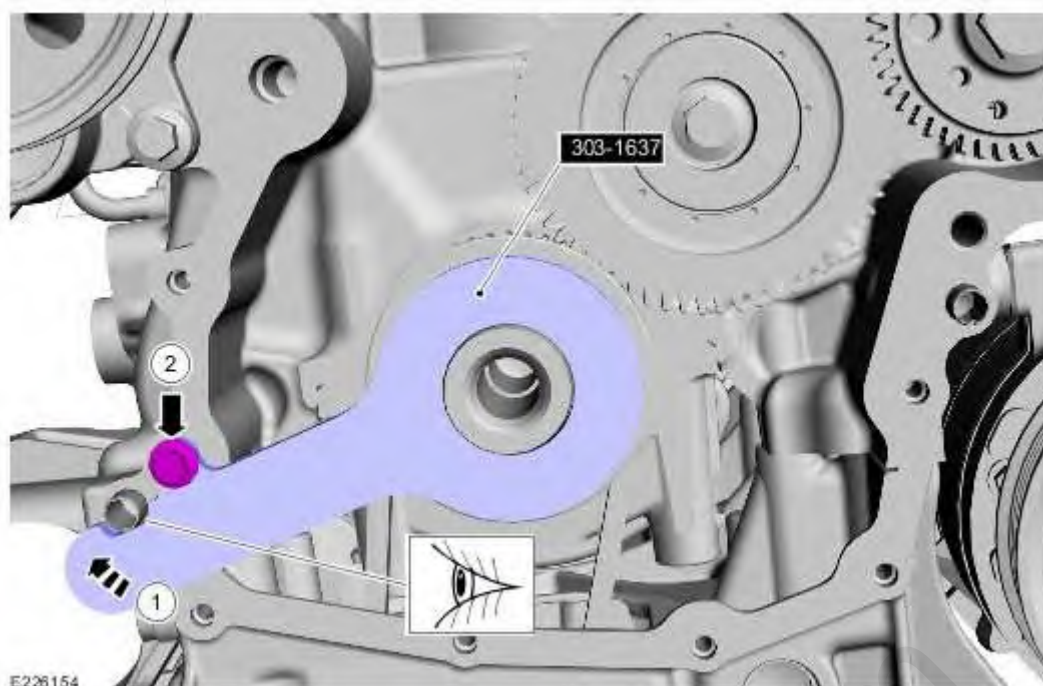


16. Remove the component.



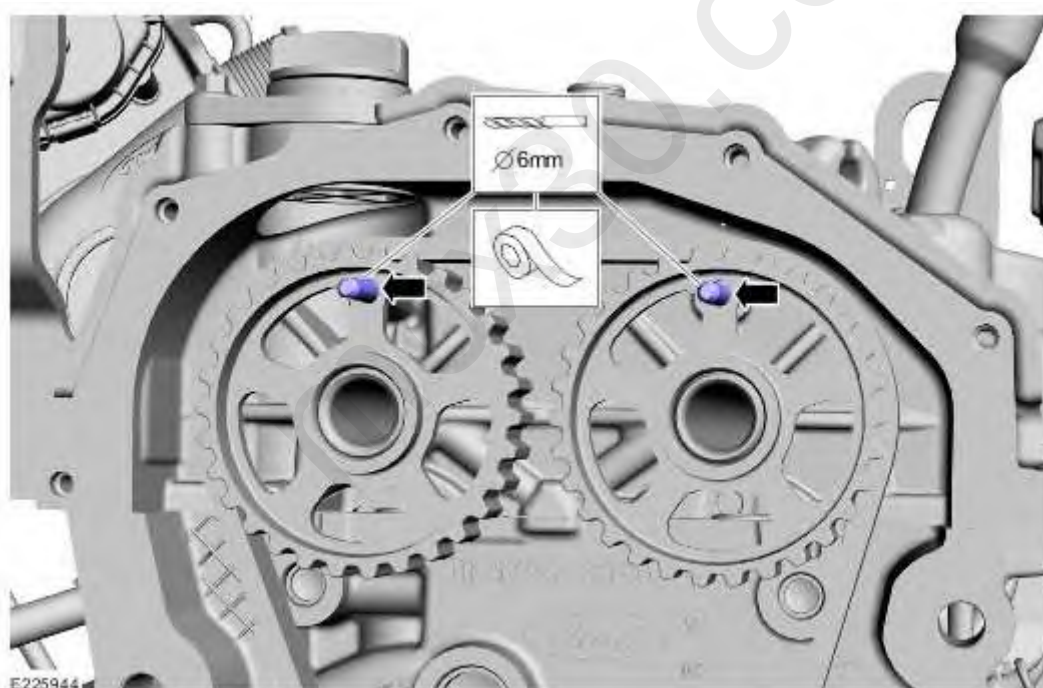
17.  **NOTICE:** The special tool must only be used to align the crankshaft timing.
NOTE: Only tighten the bolt finger tight at this stage.

Install Special Service Tool: [303-1637](#).

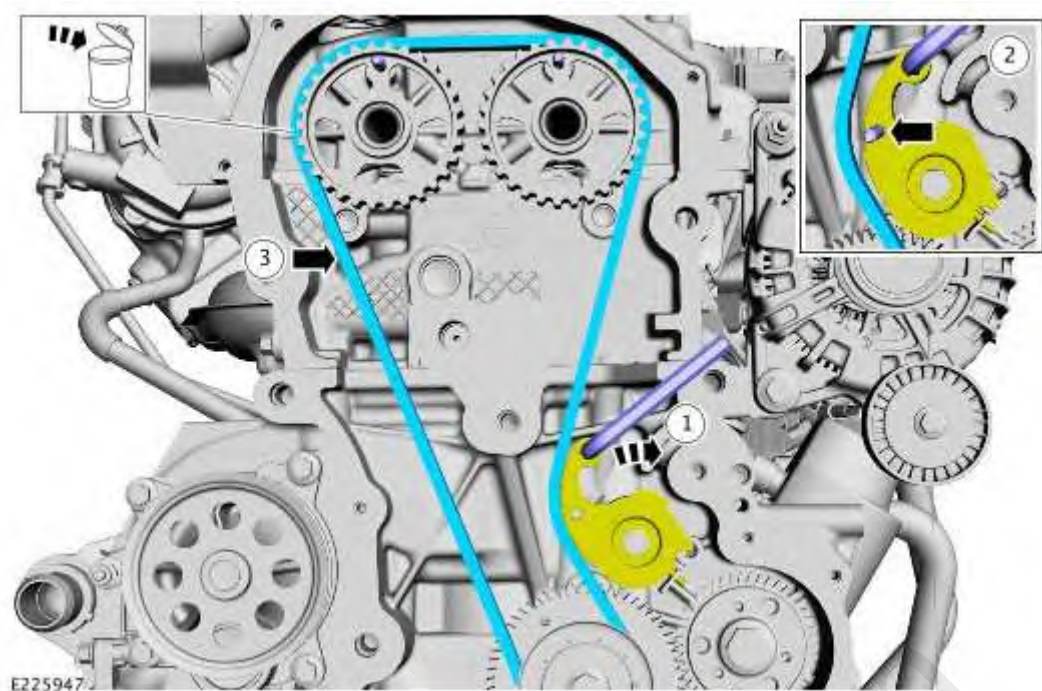


18. Install the following items:

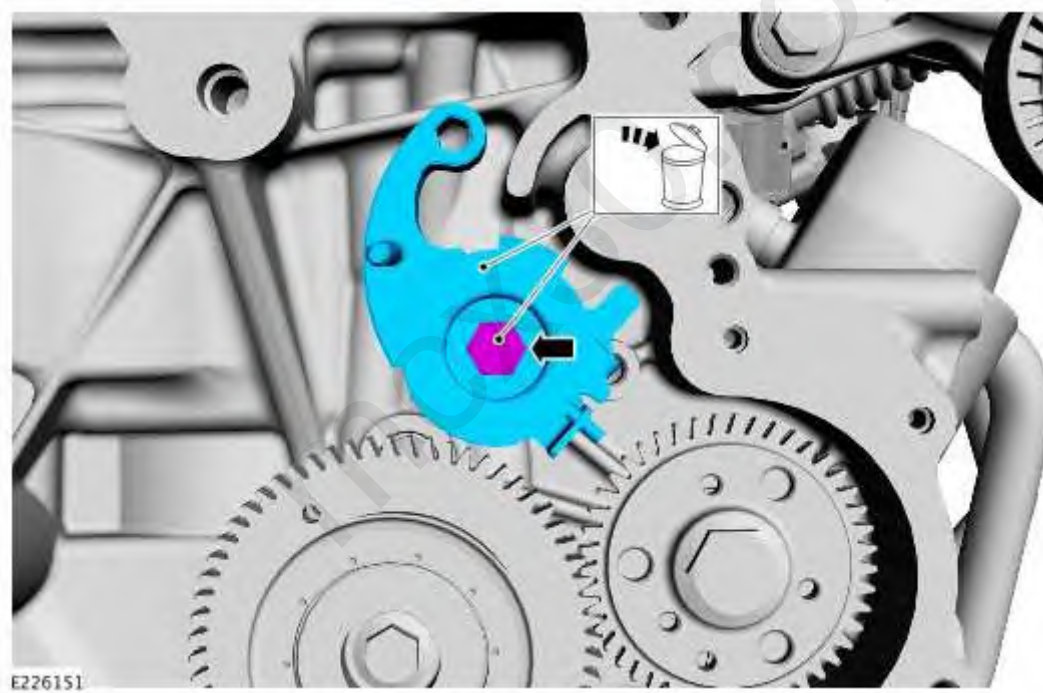
1. Use the General Equipments: [6 mm Drill Bit](#), [Adhesive Tape](#)



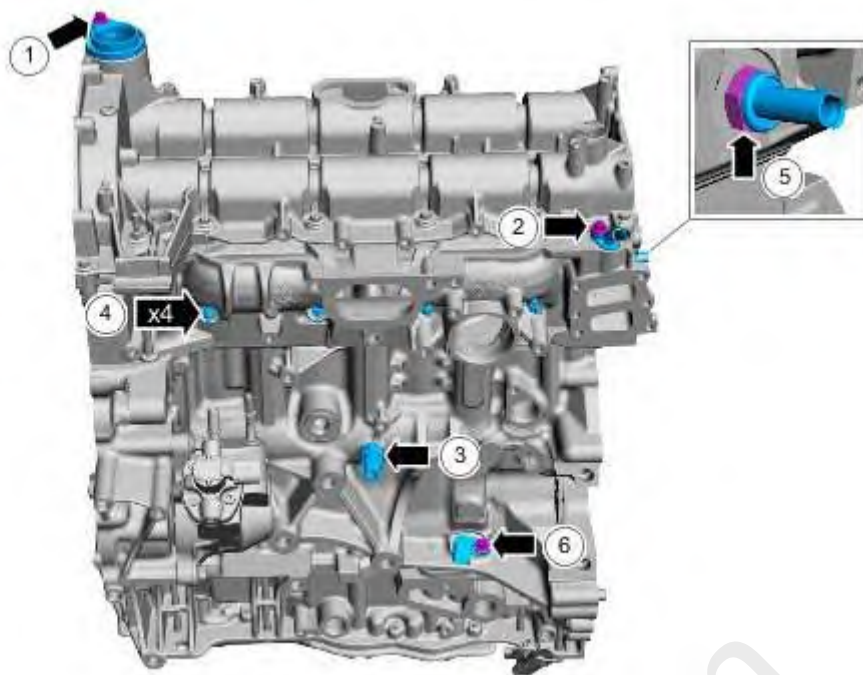
19. Use the General Equipment: [6 mm Drill Bit](#)



20.

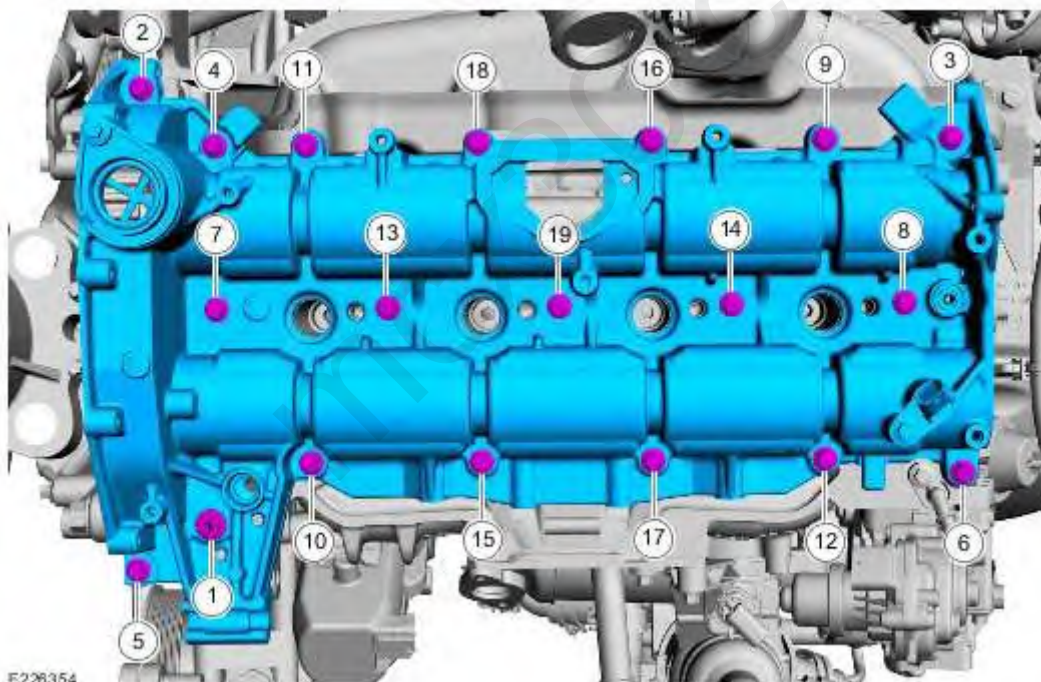


21.



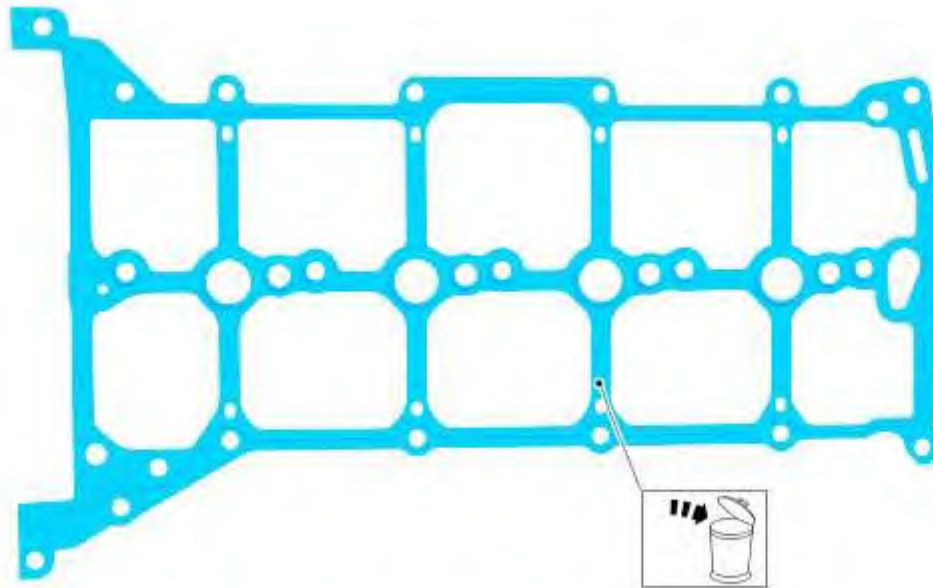
E228072

22. NOTE: Make sure that the component is at ambient air temperature.
 NOTE: Make sure that no components catch.
 Loosen each bolt 2 turns at a time until all bolts are removed.



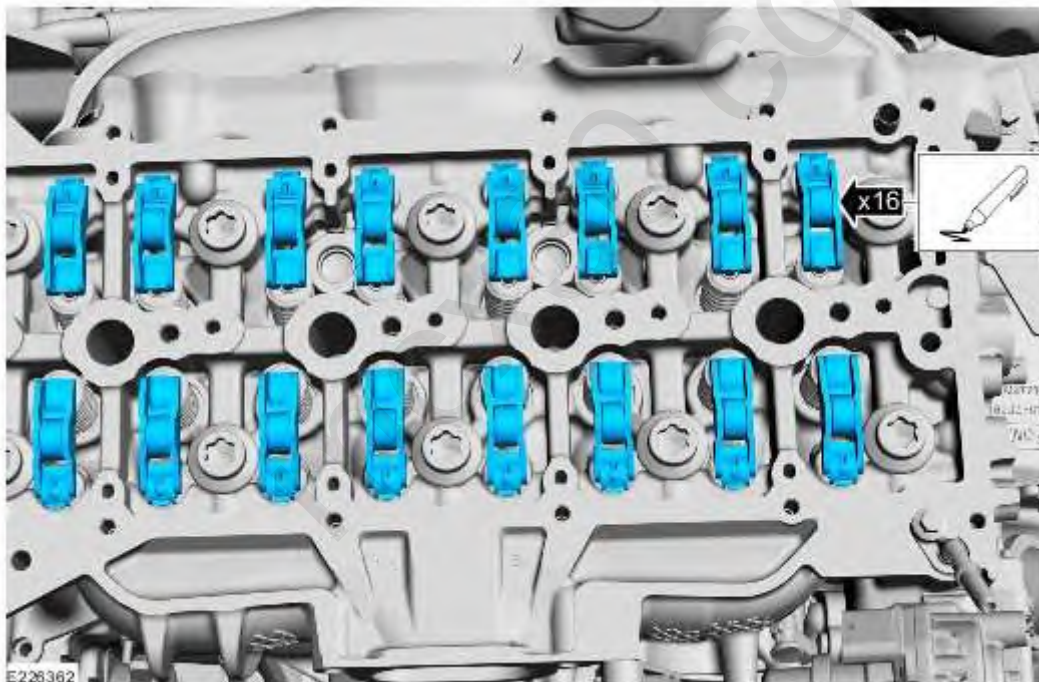
E228354

- 23.

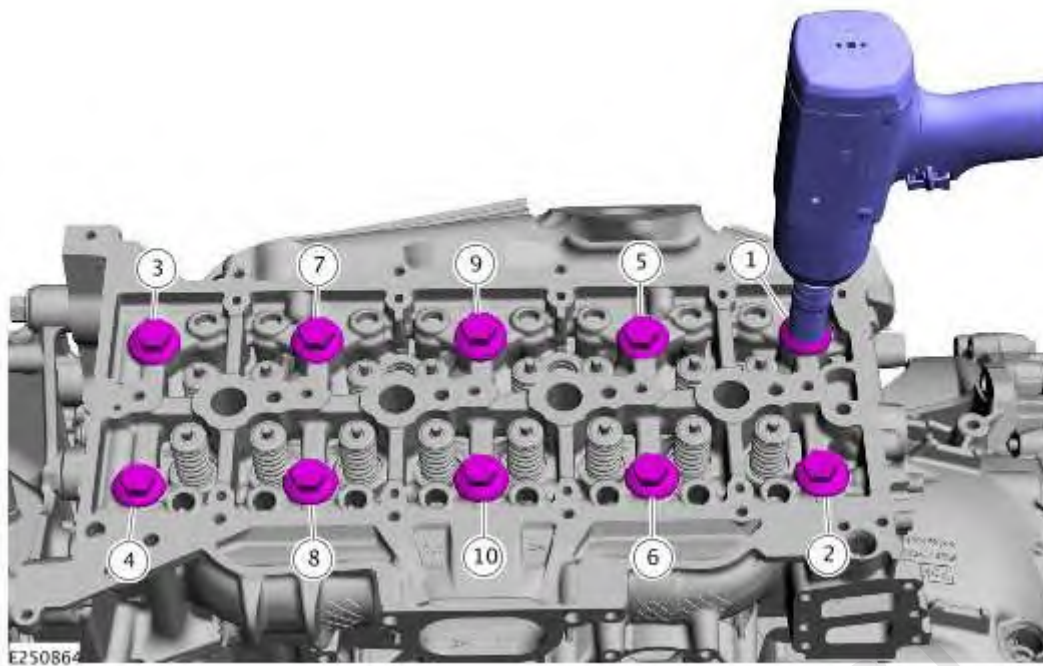


E226359

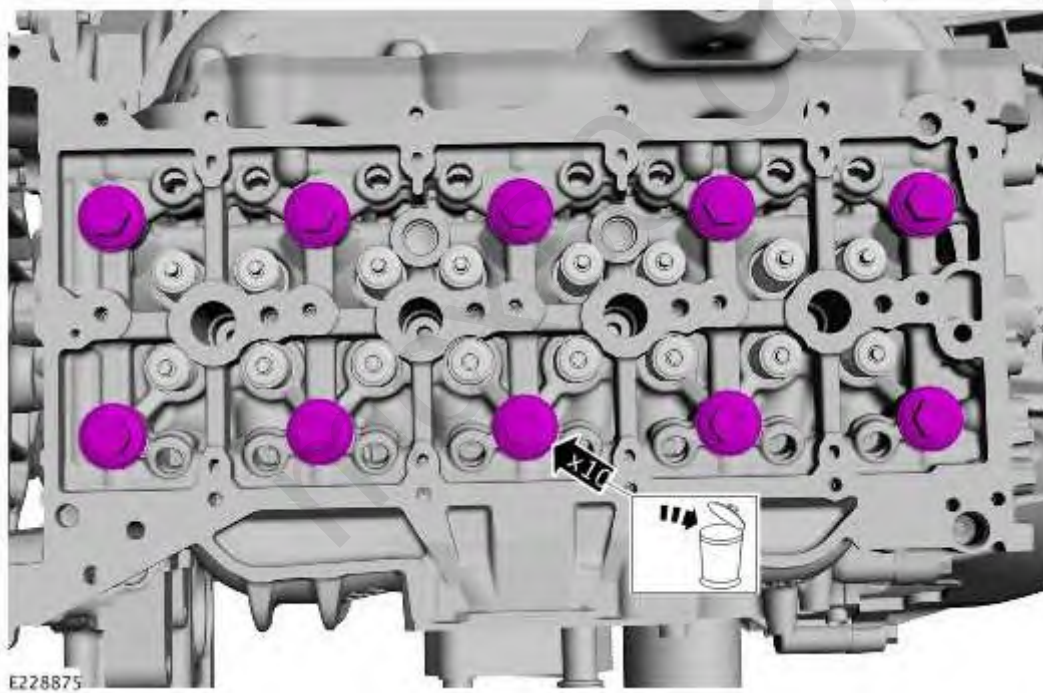
24. NOTE: Note the position of the components before removal.



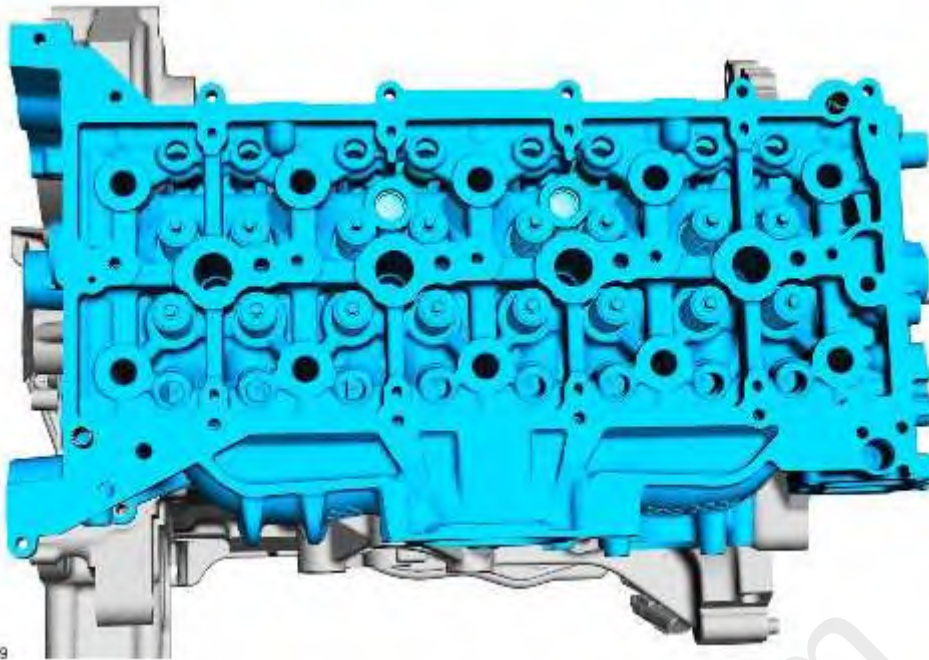
25.  NOTICE: Make sure that the cylinder head is at ambient air temperature before removing the cylinder head bolts.
Use Power Tool only.



26.

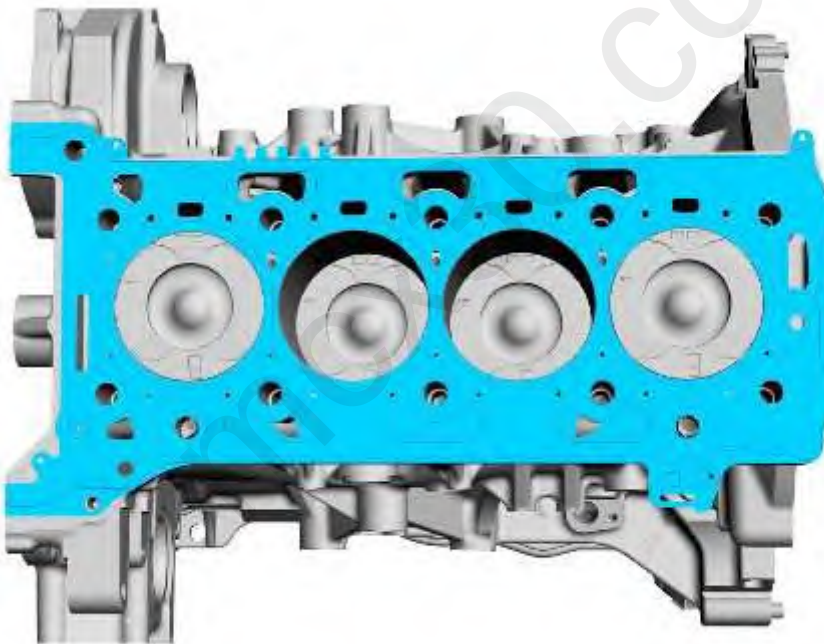


27. NOTE: Make sure that no components catch.



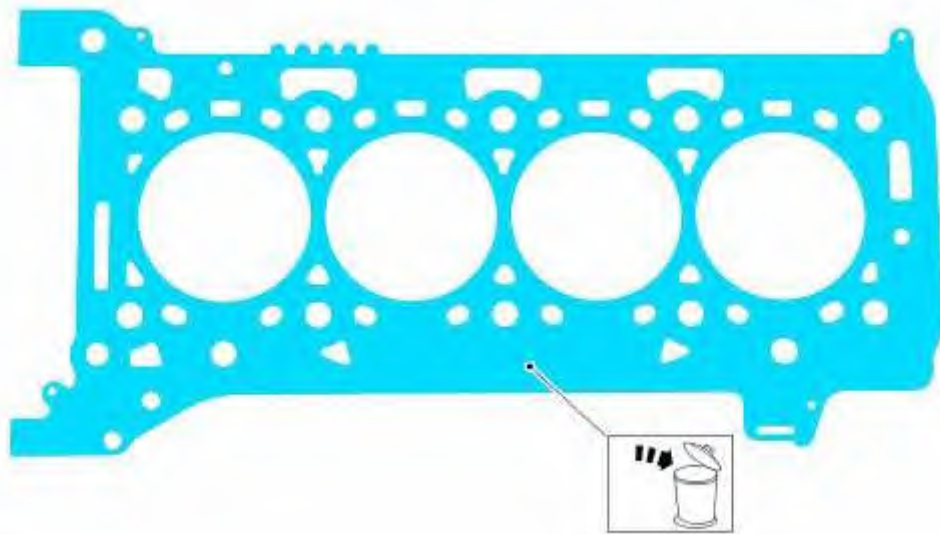
E228069

28.



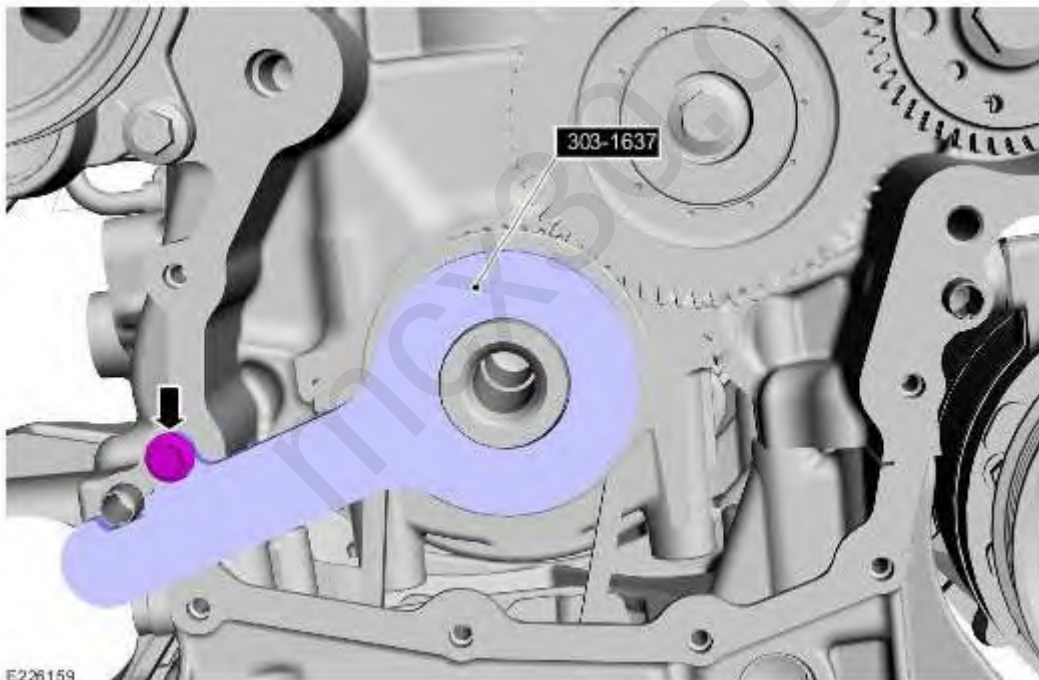
E228071

29. Refer to: [Specifications](#) (303-01A Engine, Specifications).



E226718

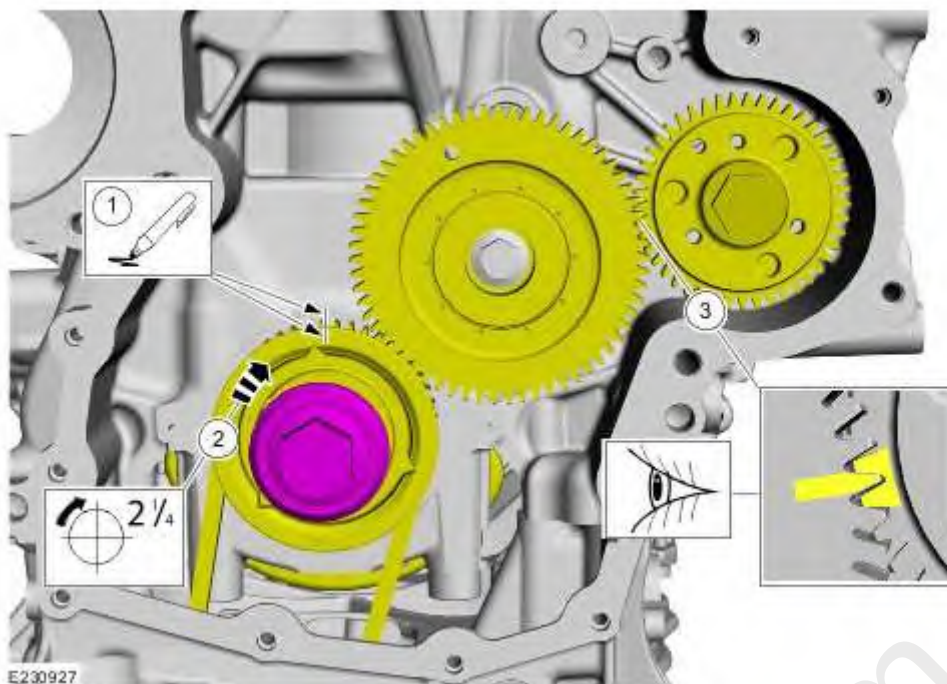
30. Remove Special Service Tool: 303-1637.



E226159

31.

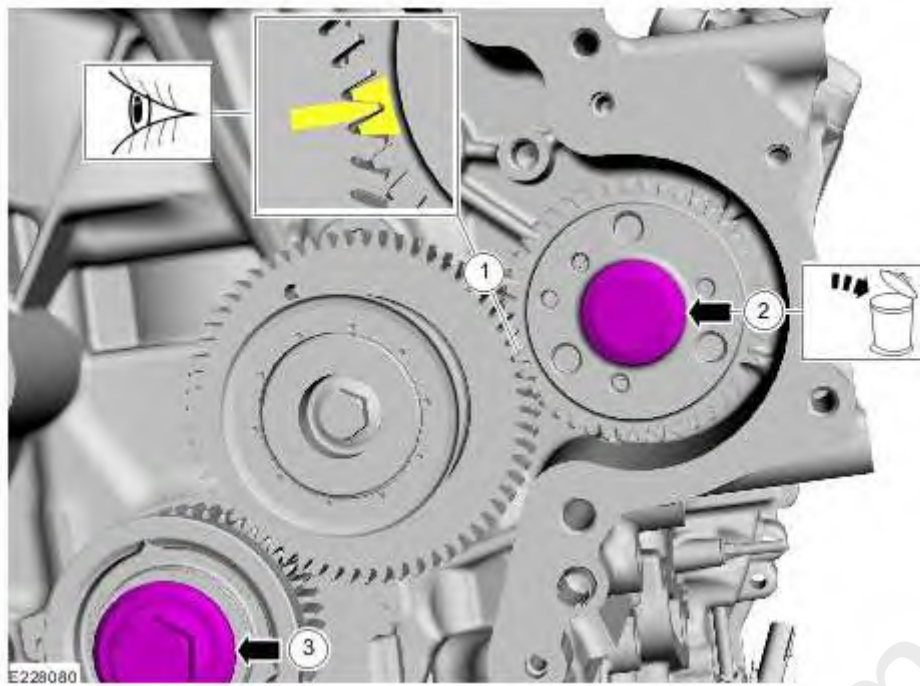
1.  **NOTICE:** Make sure that the crankshaft is not rotated
Mark the position of the component.
2.  **NOTICE:** Only rotate the crankshaft clockwise.
3. **NOTE:** Make sure that the installation marks are aligned.



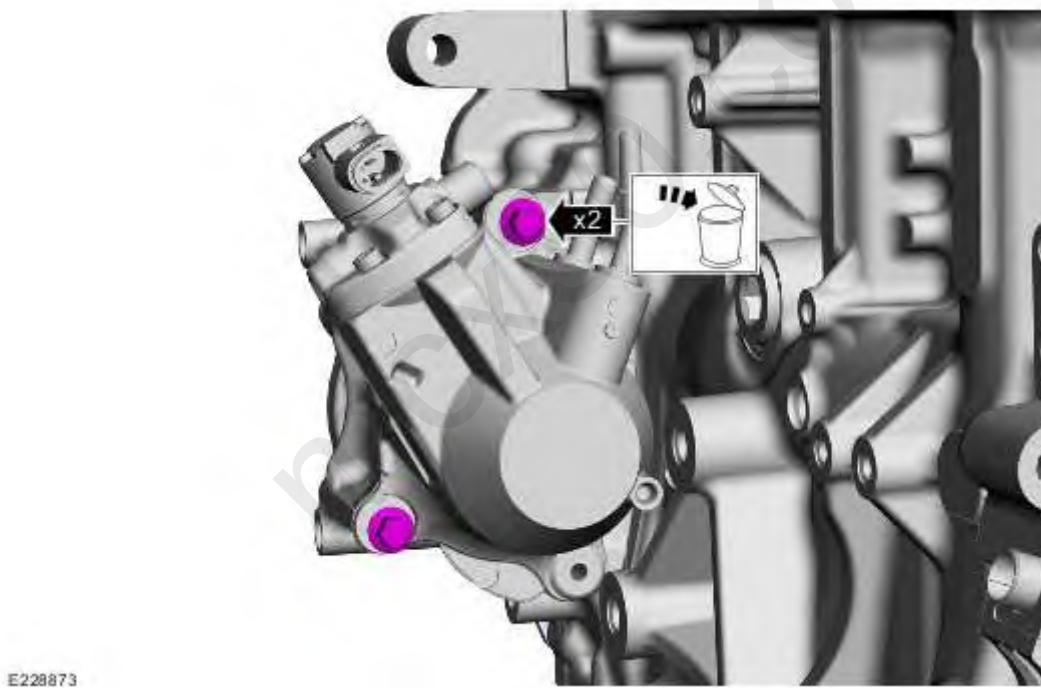
32. Install the General Equipments: 4 mm Drill Bit, Adhesive Tape



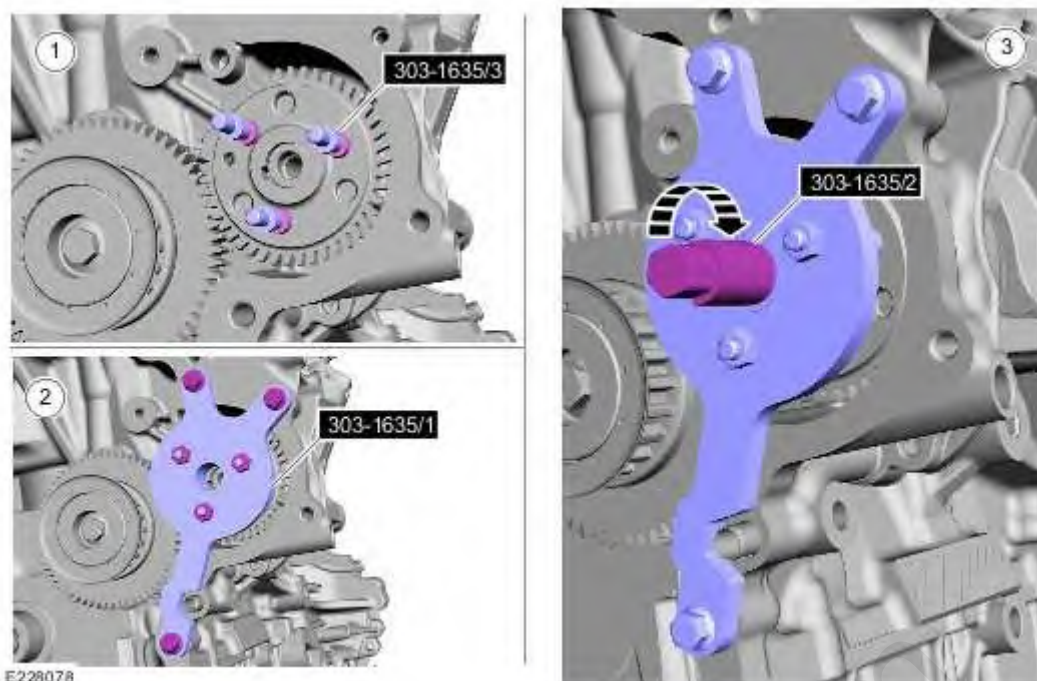
33.  **NOTICE:** Make sure that the crankshaft is not rotated
1. **NOTE:** Make sure that the installation marks are aligned.
 - 2.
 - 3.



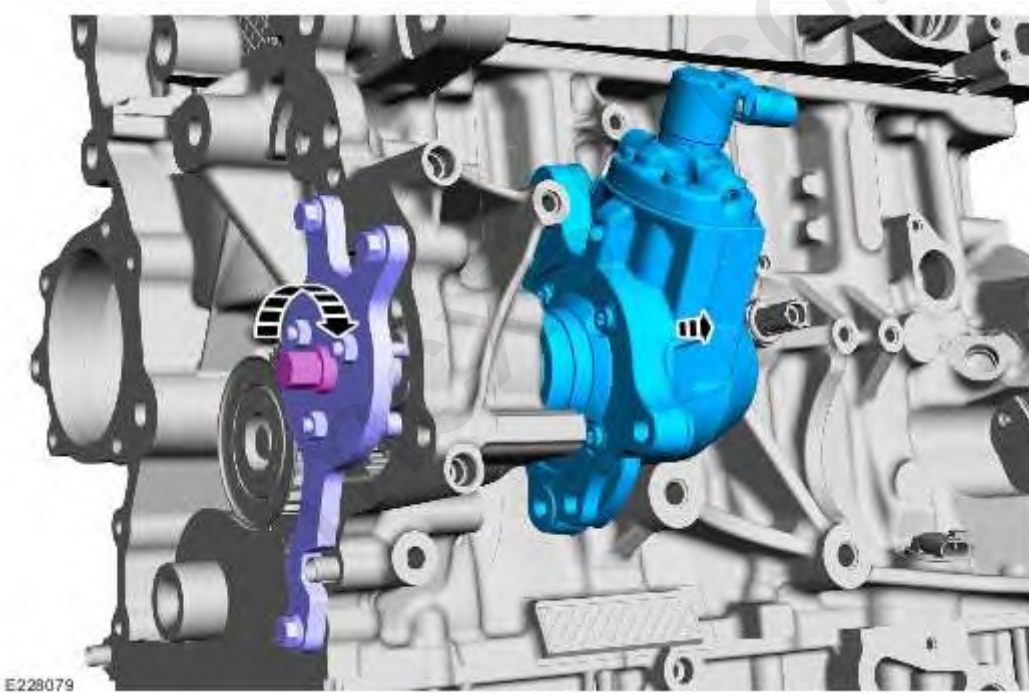
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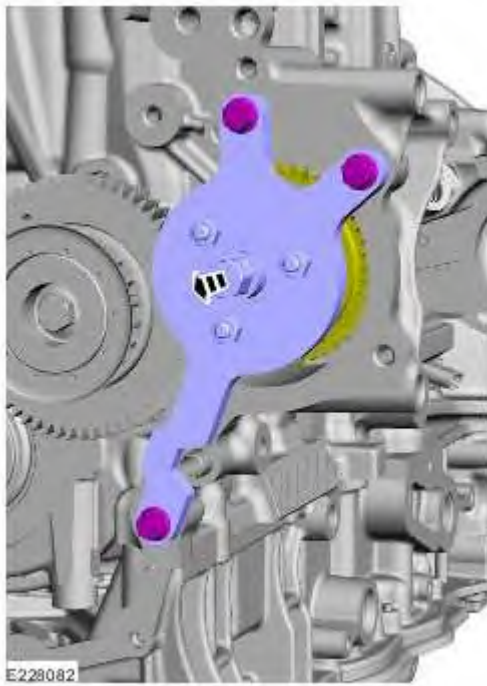
35. **NOTE:** Only tighten the nuts and bolts finger tight at this stage.
Install Special Service Tool: [303-1635](#).



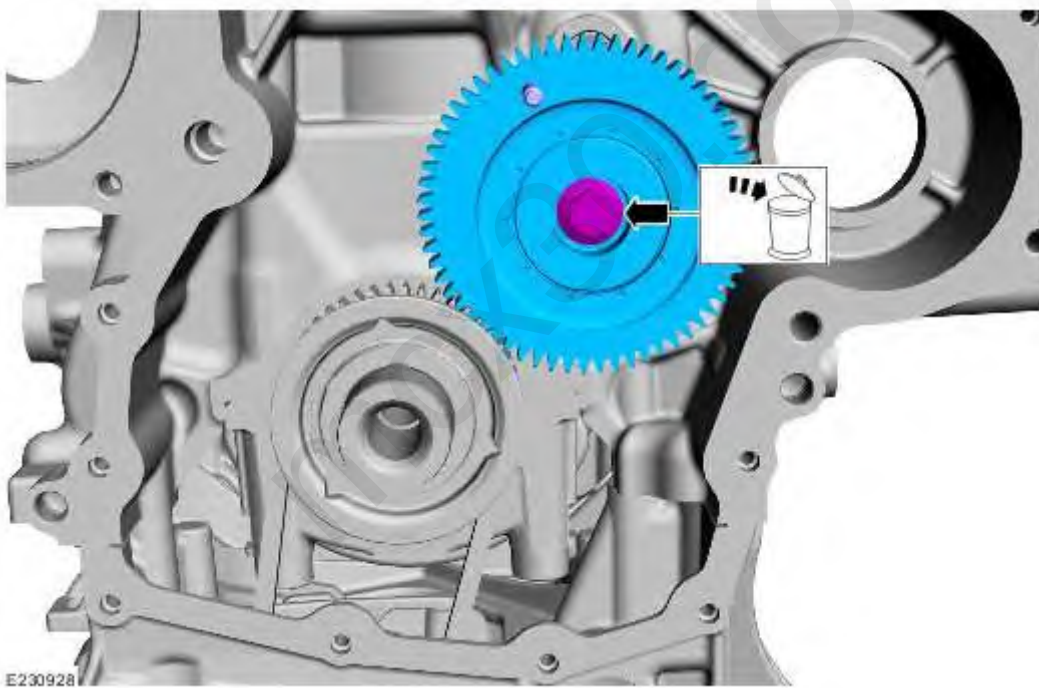
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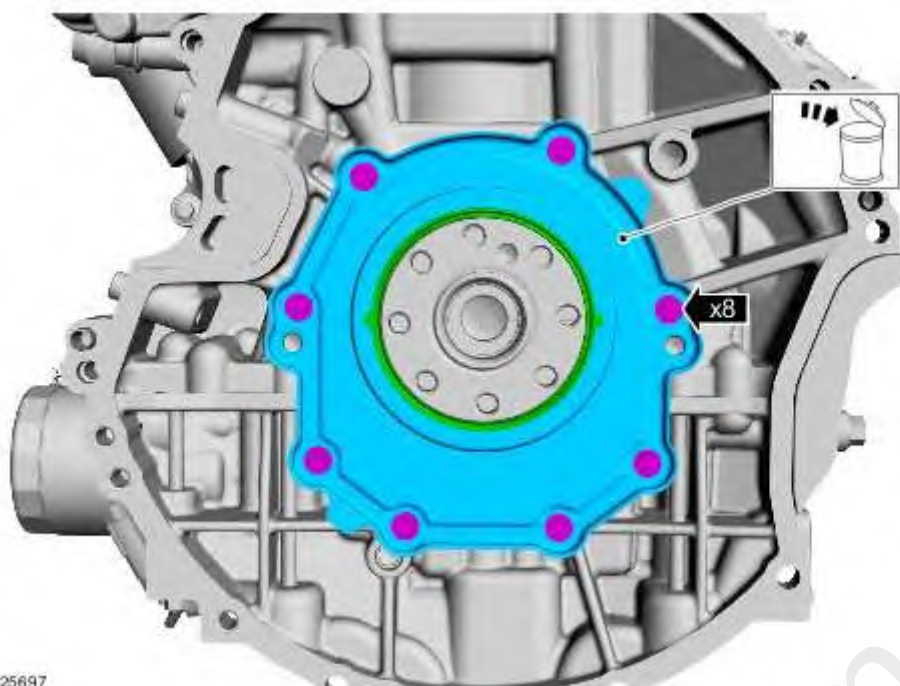
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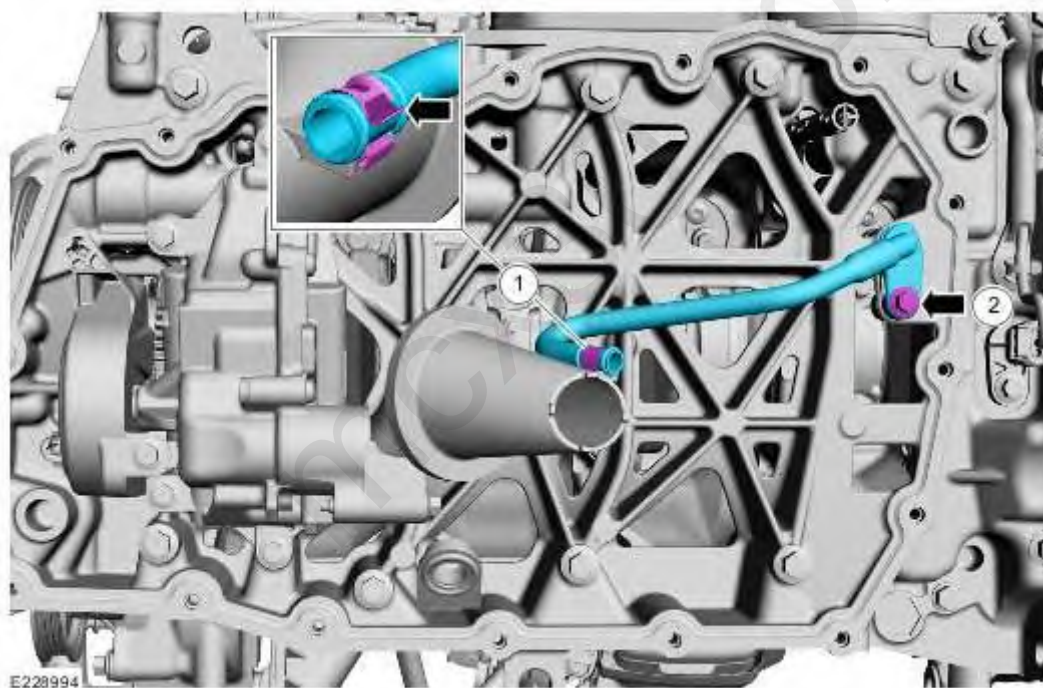
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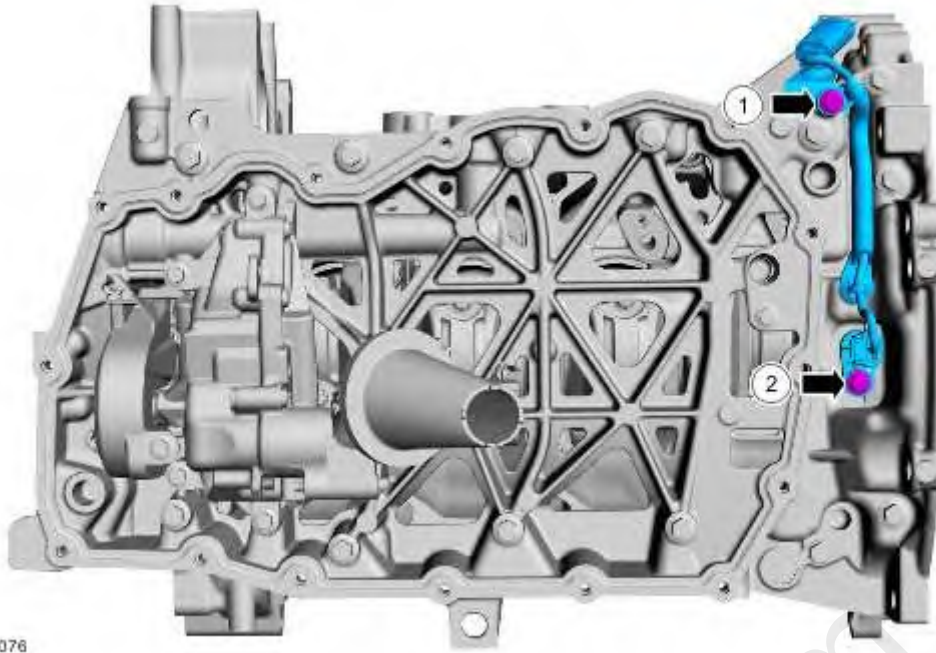
39. NOTE: Use suitable paper to absorb any escaping fluid.



40.

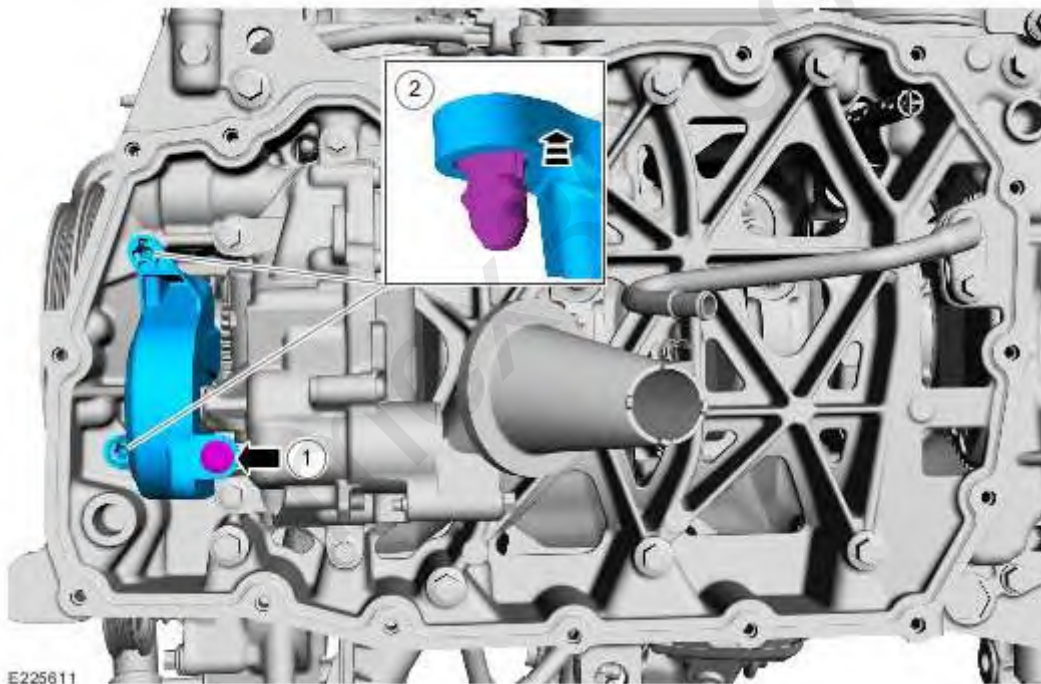


41.



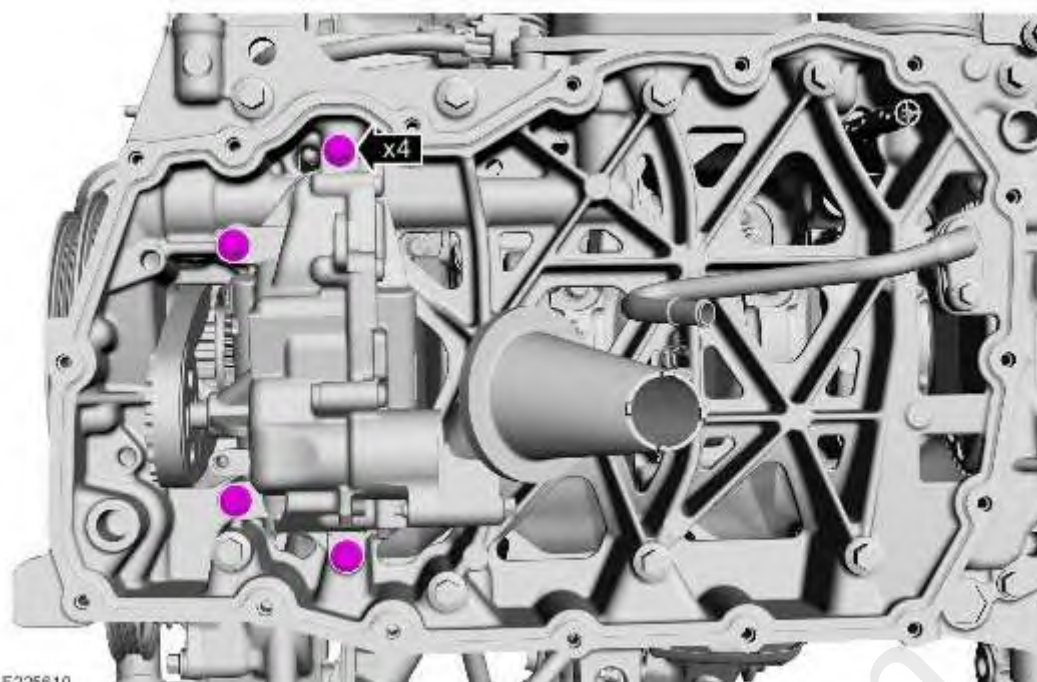
E228076

42.



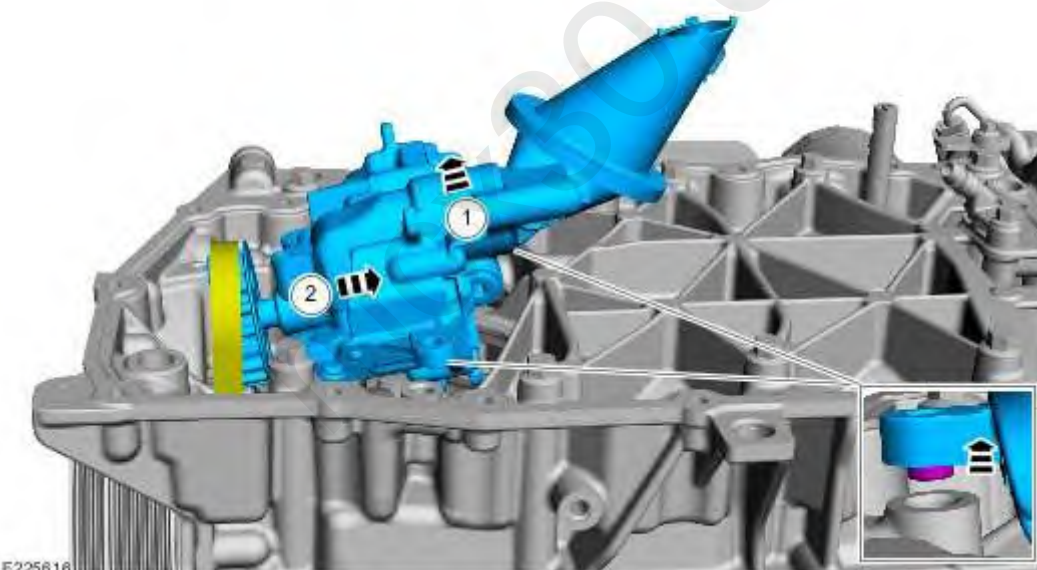
E225611

43.



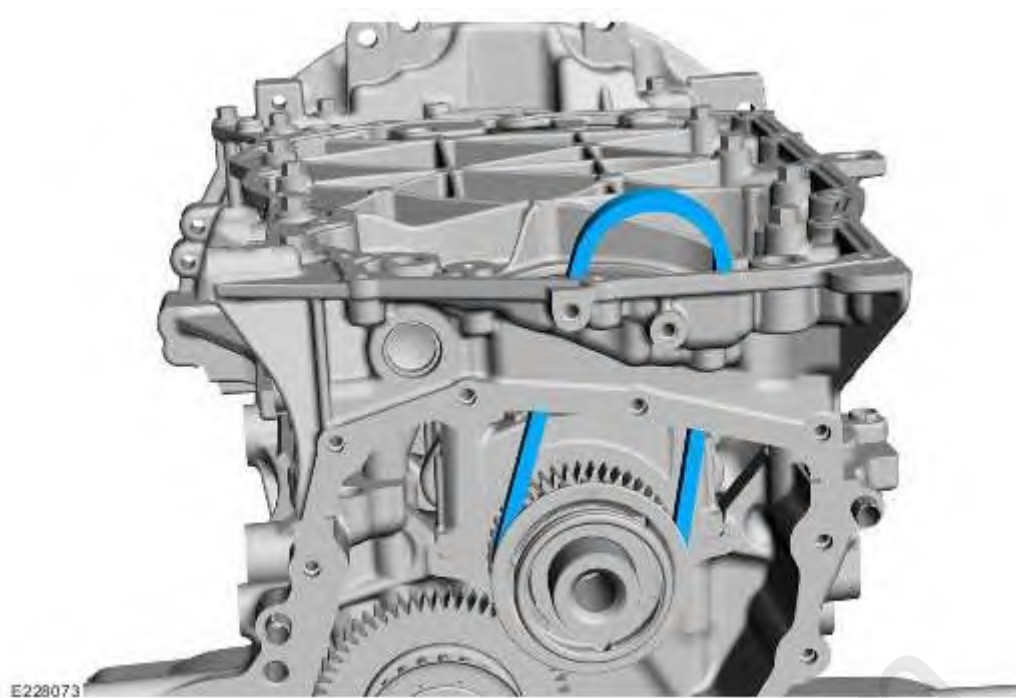
E225610

44.

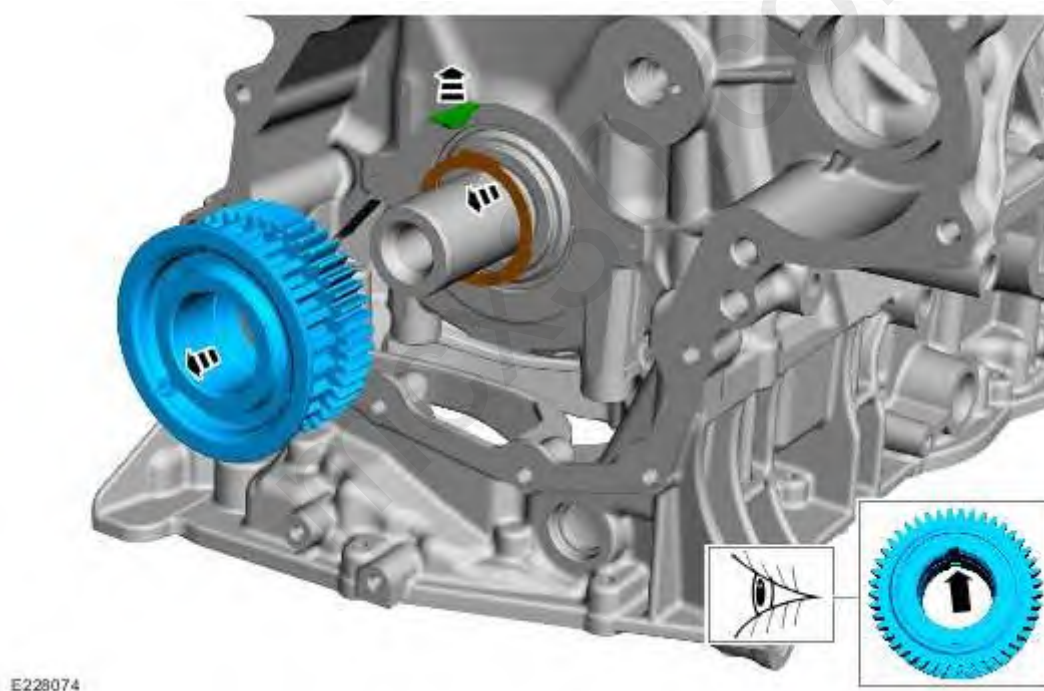


E225616

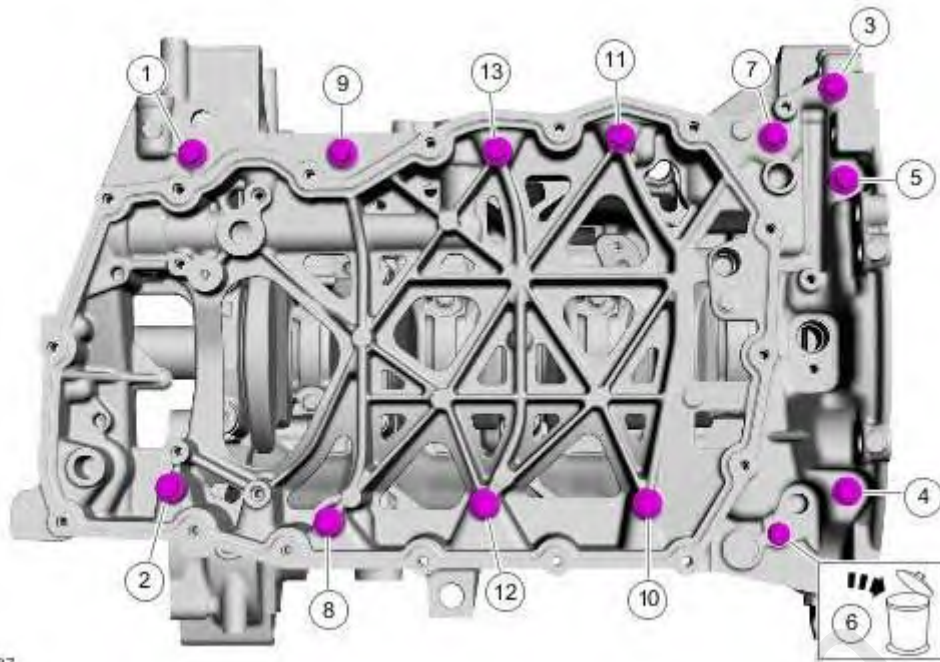
45.



46.

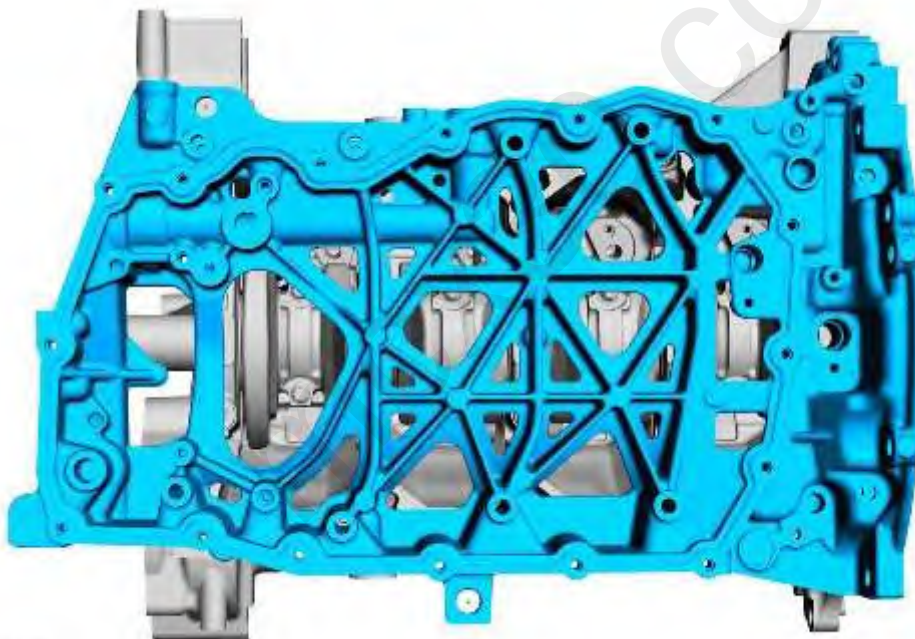


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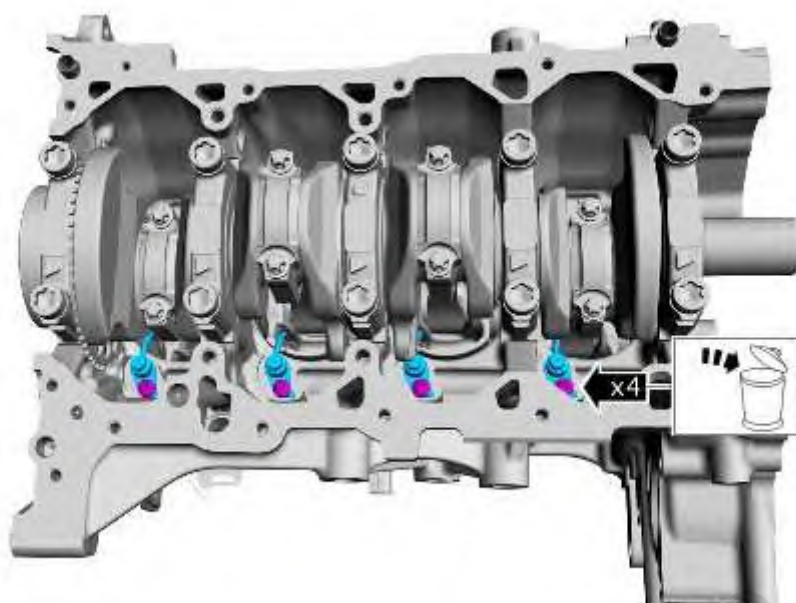
E228087

48.



E228572

49. NOTE: Note the position of the components before removal.
NOTE: Discard the bolts.



E282388

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