

Installation

Special Tool(s) / General Equipment

	303-1502 Lifting Device Engine
	303-393A Locking Tool, Flywheel
	303-435 Mounting Stand
	303-435-06 Mounting Bracket for 303-435
	303-435-13C Mounting Plate for 303-435-06
	310-128 Installer Set, Teflon Seal
Floor Crane	
Hose Clamp Remover / Installer	
Lifting Bracket	

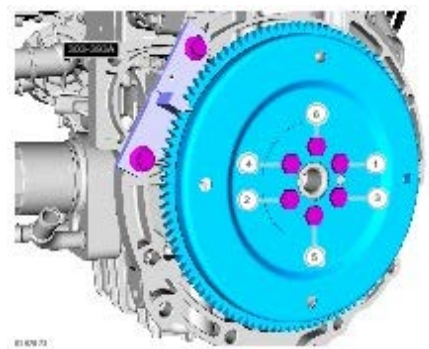
Materials

Name	Specification
Engine Oil - SAE 5W-20	WSS-M2C948-B

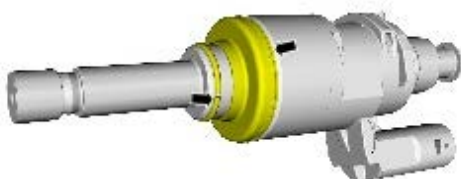
1. **NOTE:** Make sure that new bolts are installed.

- Torque:
- Stage 1:[15 Nm](#)
 - Stage 2:[25 Nm](#)
 - Stage 3:[30 Nm](#)
 - Stage 4:[90°](#)

2. Remove Suggested Tool: [303-393A](#).



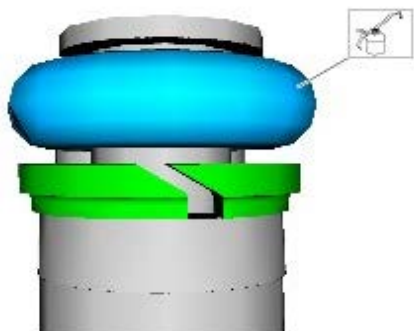
3. **NOTE:** The component should be reused unless damaged or has excessive wear.



81 974 00

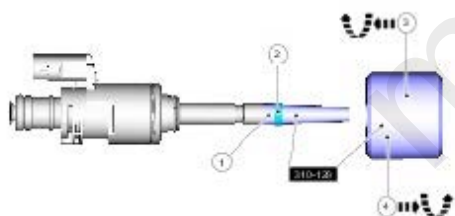
4.  **NOTICE:** Make sure that the area around the component is clean and free of foreign material.
NOTE: Make sure that new components are installed.

Material: WSS-M2C948-B (Engine Oil - SAE 5W-20)



81 974 00

5. *Use Suggested Tool:* 310-128. Tool shown or a commercially available equivalent can be used.

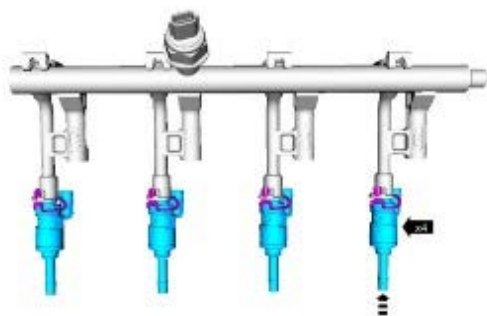


81 974 00

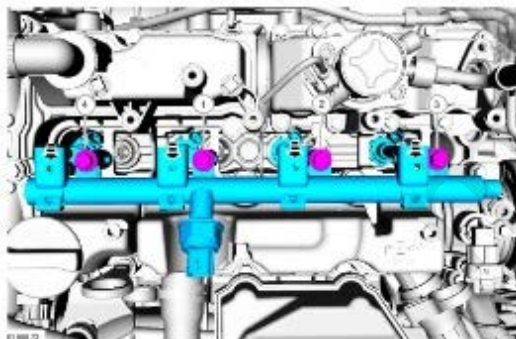
6.  **NOTICE:** Make sure that the area around the component is clean and free of foreign material.
NOTE: Make sure that new components are installed.



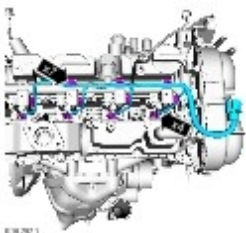
7.  **NOTICE:** Make sure that the area around the component is clean and free of foreign material.
NOTE: Only use moderate force.



8.  **NOTICE:** Make sure that the area around the component is clean and free of foreign material.
Torque: 23 Nm



9.



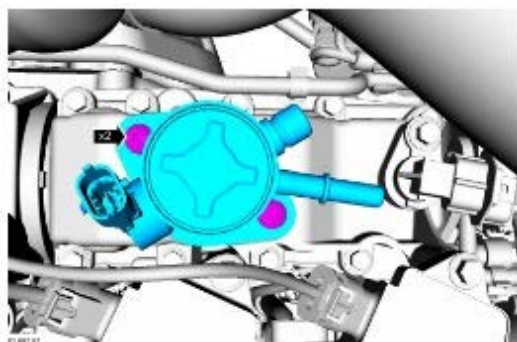
10. **Material:** WSS-M2C948-B (Engine Oil - SAE 5W-20)



11. **NOTE: Make sure that new bolts are installed.**

Tighten each bolt 0.5 turn at a time.

Torque: 9 Nm



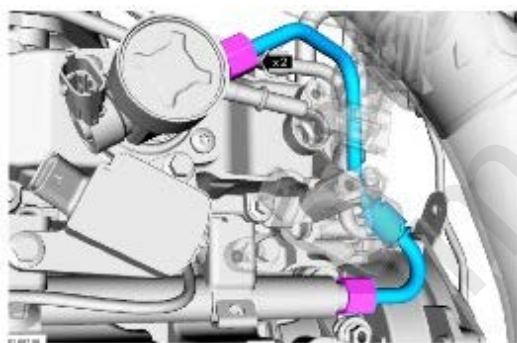
12. **NOTE: Make sure that a new component is installed.**
NOTE: Only tighten the nuts finger tight at this stage.

13. *Torque:*

Stage 1: 21 Nm

Stage 2: Wait 5 min

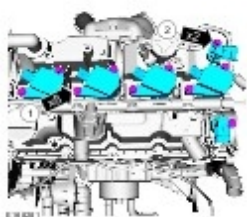
Stage 3: 21 Nm



14.

1. *Torque: 10 Nm*

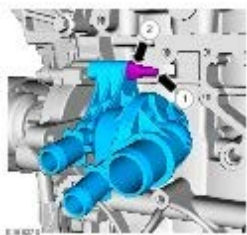
2. *Torque: 9 Nm*



15.

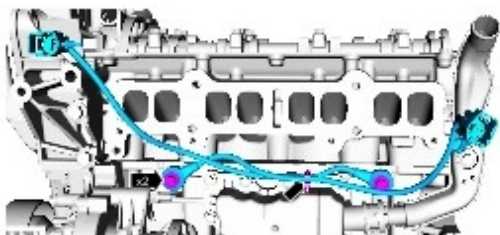
1. *Torque: 5 Nm*

2. Torque: 23 Nm



16. **NOTE:** Make sure that the component is installed to the position noted before removal.

Torque: 18 Nm

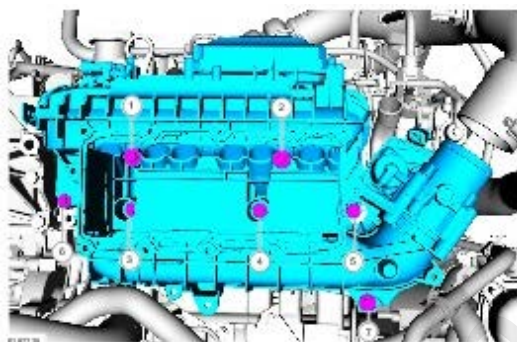


17. Torque:

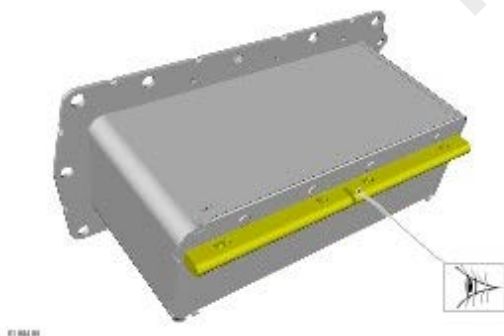
1,2 18 Nm

3,4,5,6 10 Nm

7 18 Nm



18.

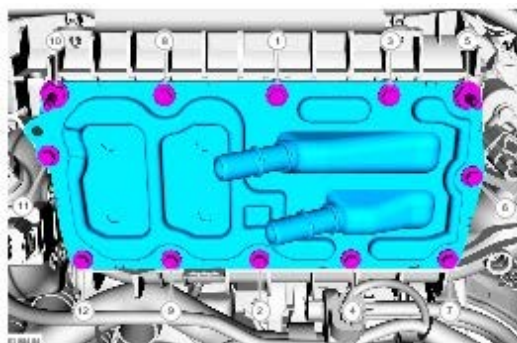


19. Torque:

7, 10 1 turn(s)

1-12 10 Nm

1-12 10 Nm



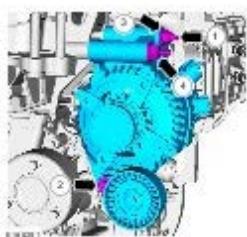
20.

1. Torque: 10 Nm

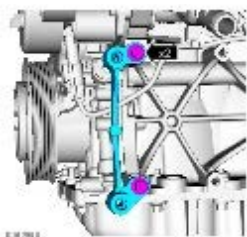
2. Torque: 48 Nm

3. Torque: 48 Nm

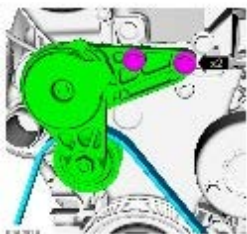
4. Torque: 48 Nm



21. Torque: 25 Nm



22. Torque: 48 Nm



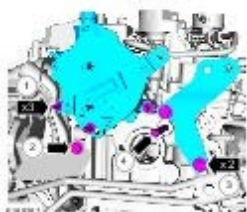
23.

1. Torque: 10 Nm

2. Torque: 18 Nm

3. Torque: 19 Nm

4. Torque: 5 Nm

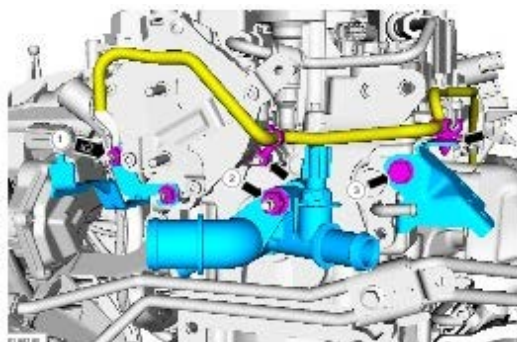


24.

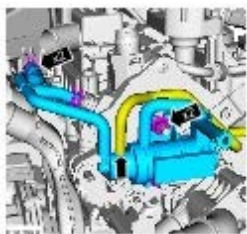
1. Torque: 7 Nm

2. Torque: 23 Nm

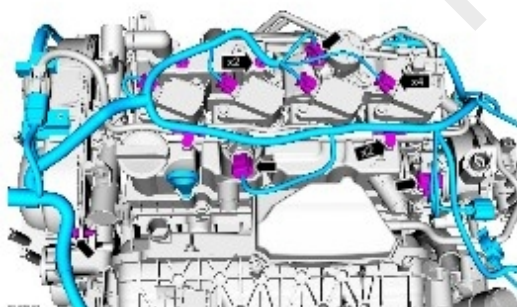
3. Torque: 23 Nm



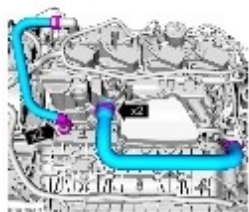
25. Torque: 7 Nm



26.



27. Use the General Equipment: **Hose Clamp Remover / Installer**



28.



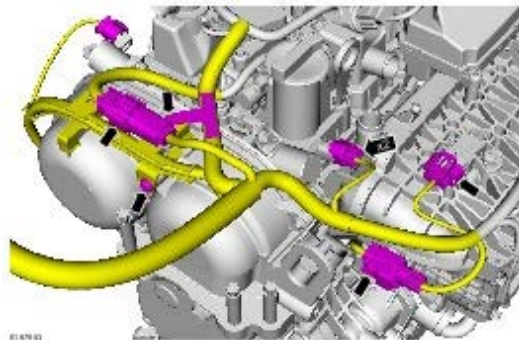
29.



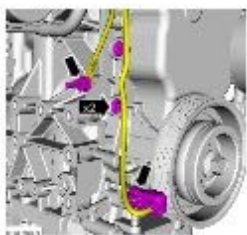
30.



31.



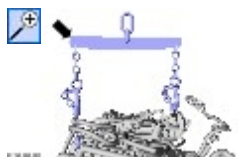
32.



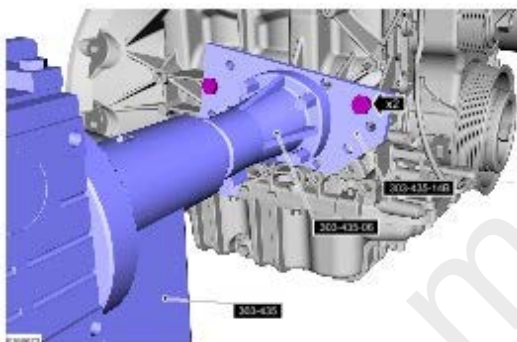
33. **Install Special Service Tool: 303-1502.**



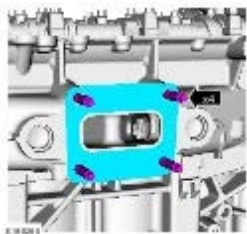
34. **Use the General Equipments: Floor Crane, Lifting Bracket**



35. **Remove Special Service Tools: 303-435, 303-435-06, 303-435-13C.**



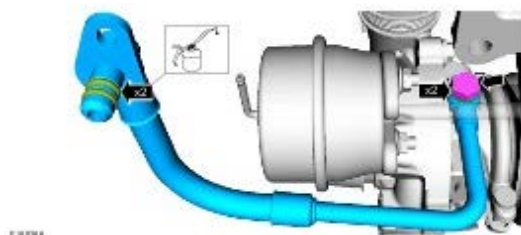
36. **Torque: 10 Nm**



37. **NOTE: Make sure that a new component is installed.**

Material: WSS-M2C948-B (Engine Oil - SAE 5W-20)

Torque: 26 Nm

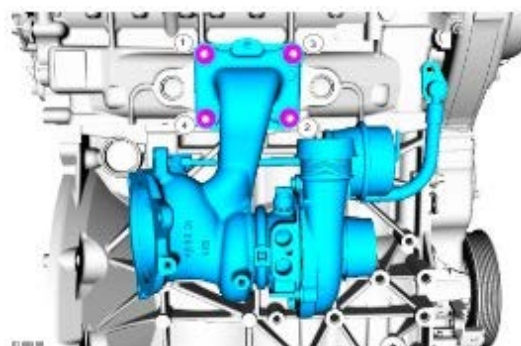


38. Torque:

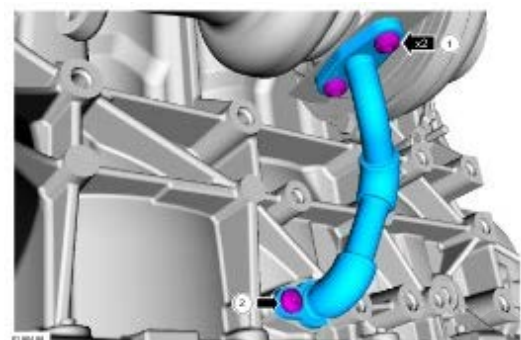
Stage 1: 4 Nm

Stage 2: 19 Nm

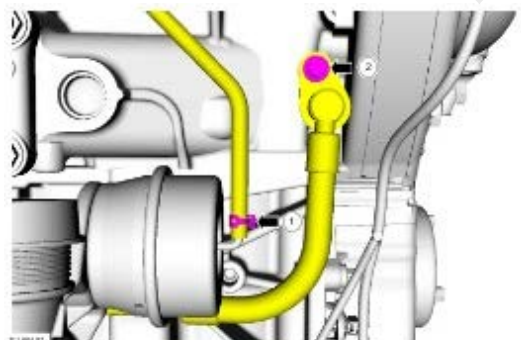
Stage 3: 24 Nm



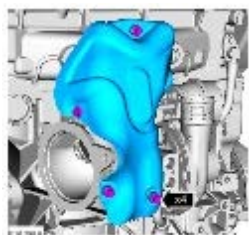
39. Torque: 10 Nm



40. Torque: 10 Nm

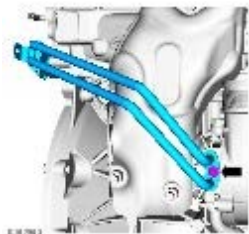


41. Torque: 10 Nm



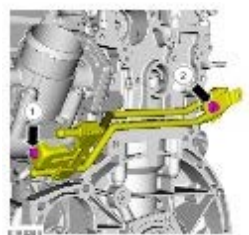
42. **NOTE:** Make sure that a new component is installed.

Torque: 10 Nm



43. 1. *Torque:* 10 Nm

2. *Torque:* 23 Nm



44. *Use the General Equipment:* Hose Clamp Remover/ Installer

