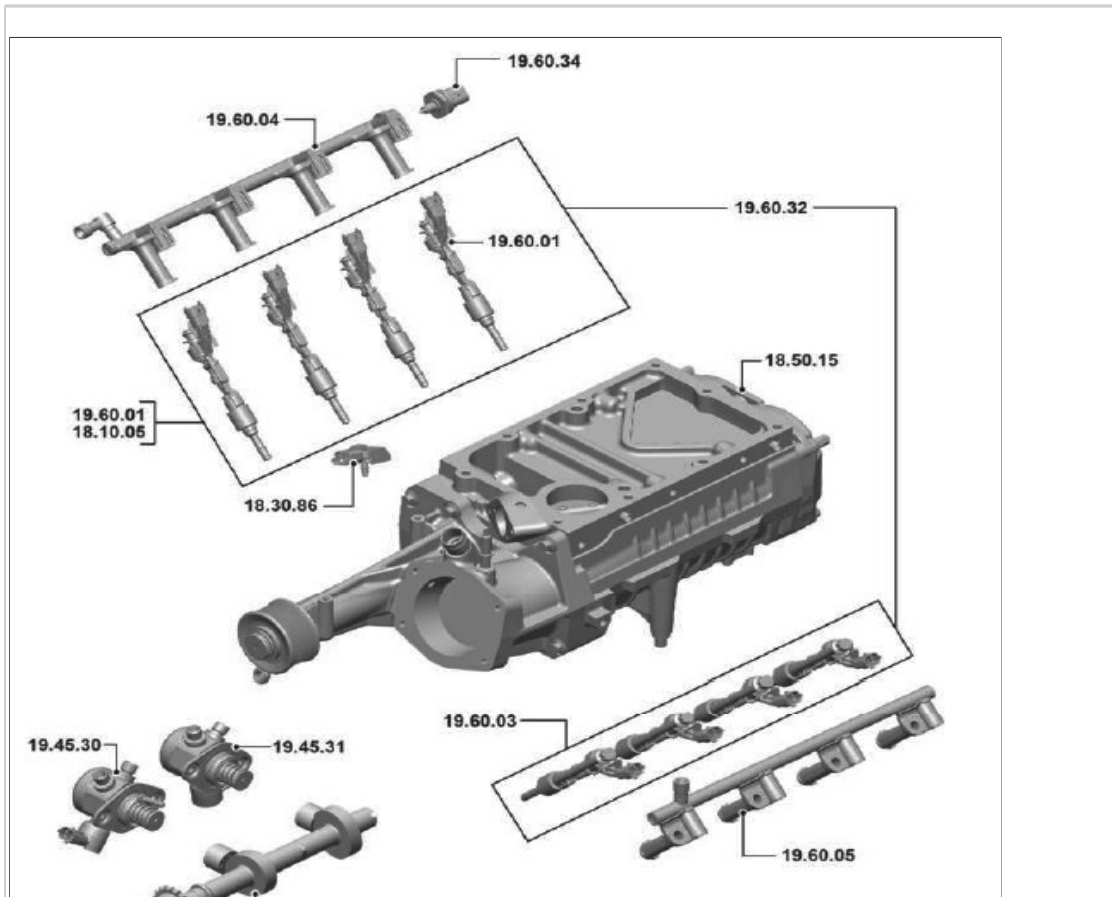


## INSTALLATION

1. To install, reverse the removal procedure.

### SUPERCHARGER (G1580354)

|          |                               |                        |     |
|----------|-------------------------------|------------------------|-----|
| 18.50.15 | SUPERCHARGER ASSEMBLY - RENEW | 3000 CC, AJ V6 (AJ126) | 3.2 |
|----------|-------------------------------|------------------------|-----|





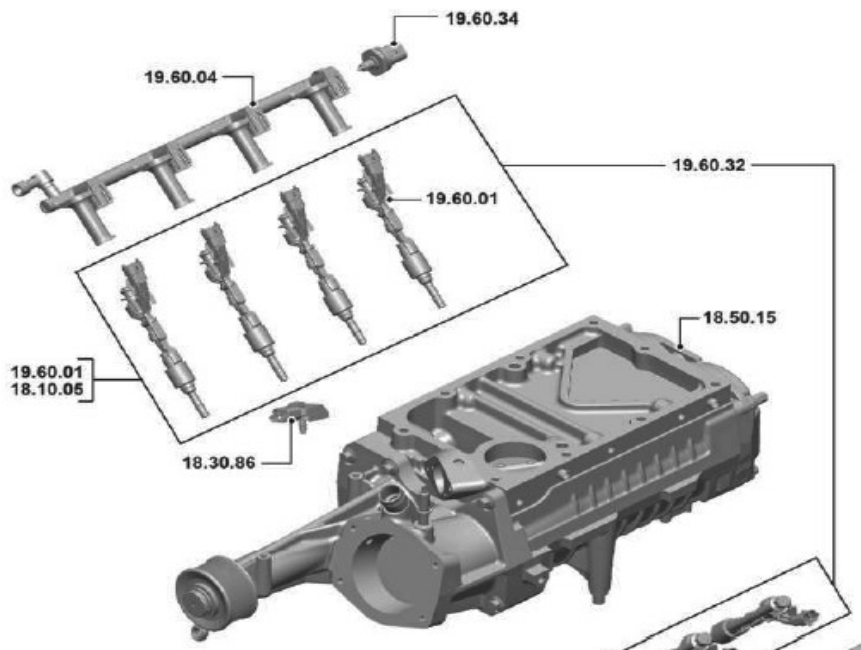
JRT1216A

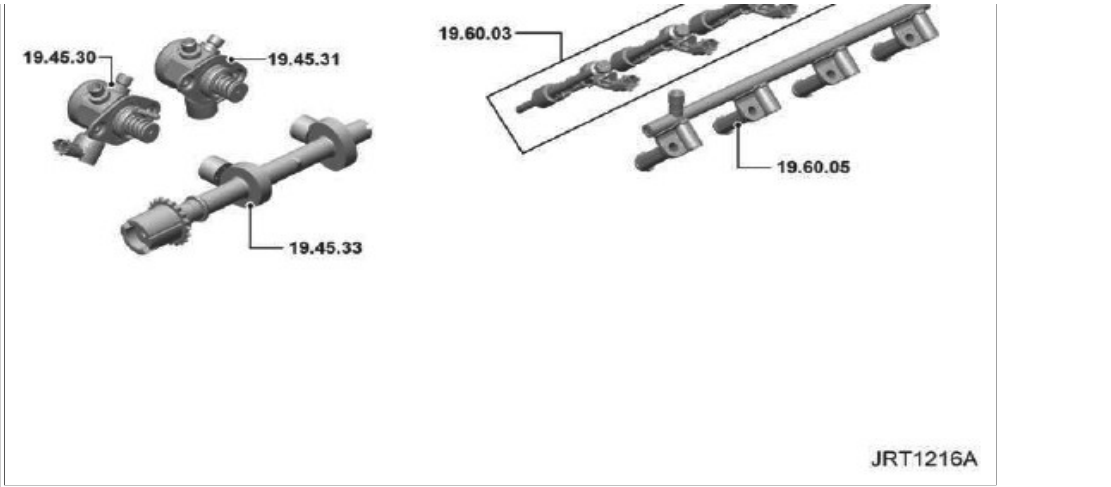
18.50.15

SUPERCHARGER ASSEMBLY - RENEW

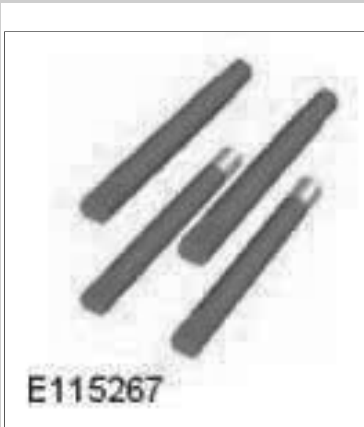
5000 CC, AJ V8

3.3





**SPECIAL TOOL(S)**



**303-1449-01**  
Supercharger Installation Guide Pins - Threaded



**303-1449-02**  
Supercharger Installation Guide Pins - Unthreaded


#### REMOVAL

**⚠ CAUTION:** *If a new cylinder head has been installed, then new taptite bolts must be used to install the supercharger.*

**📄 NOTE:**

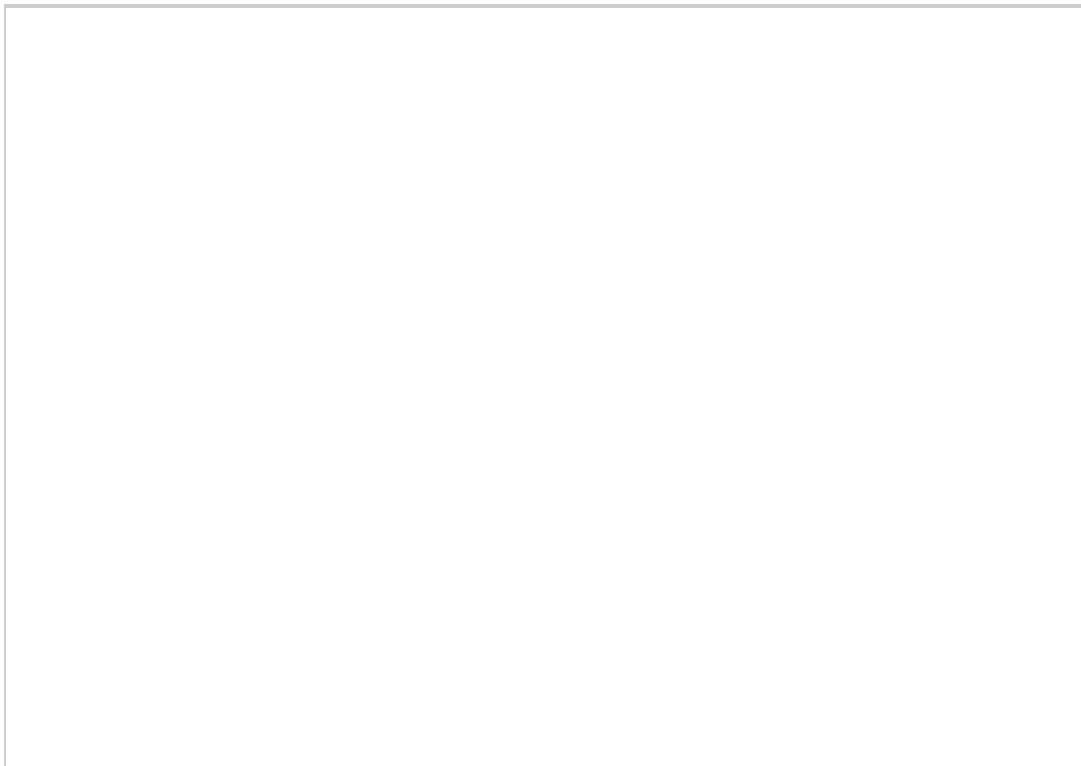
- *New taptite bolts when used cut their own threads on the first application.*
- *Some variation in the illustrations may occur, but the essential information is always correct.*

1. Refer to: Battery Disconnect and Connect (General Procedures).

2.  **WARNING:** *Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.*

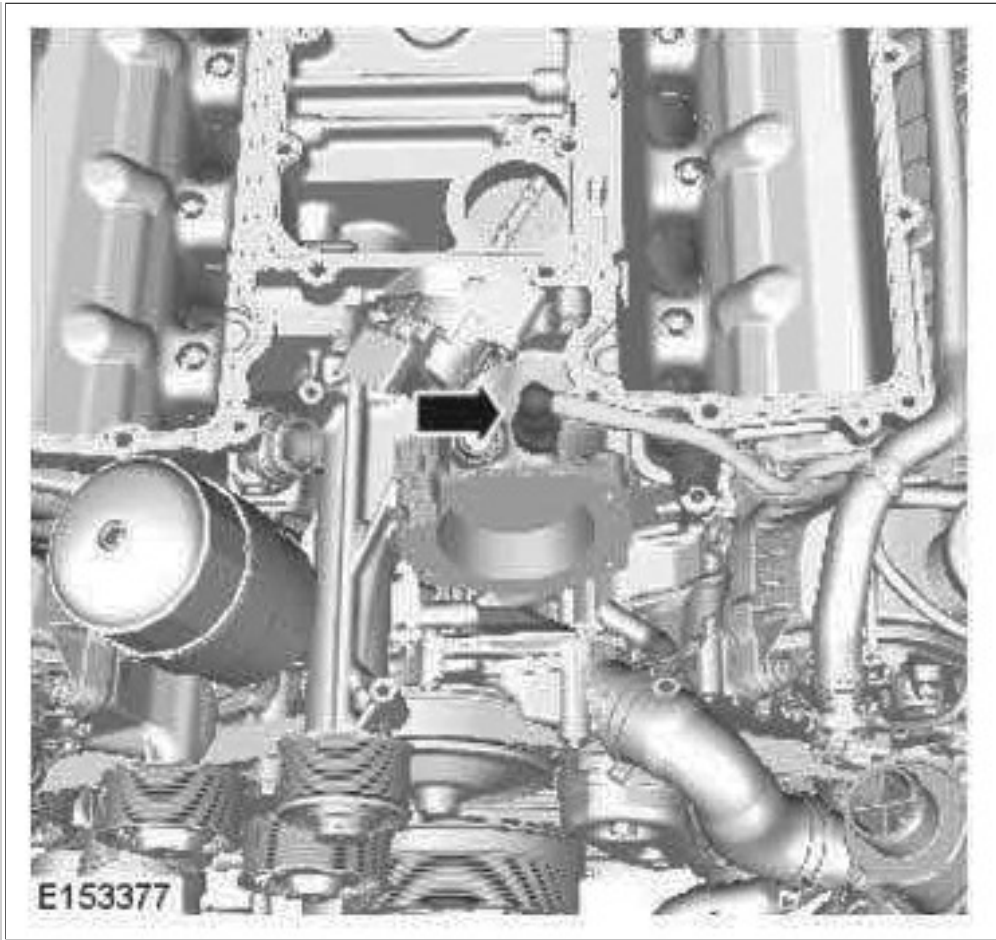
Raise and support the vehicle.

3. Refer to: Charge Air Cooler (Removal and Installation).
4. Refer to: Throttle Body (Removal and Installation).
5. Refer to: Supercharger Belt (Removal and Installation).

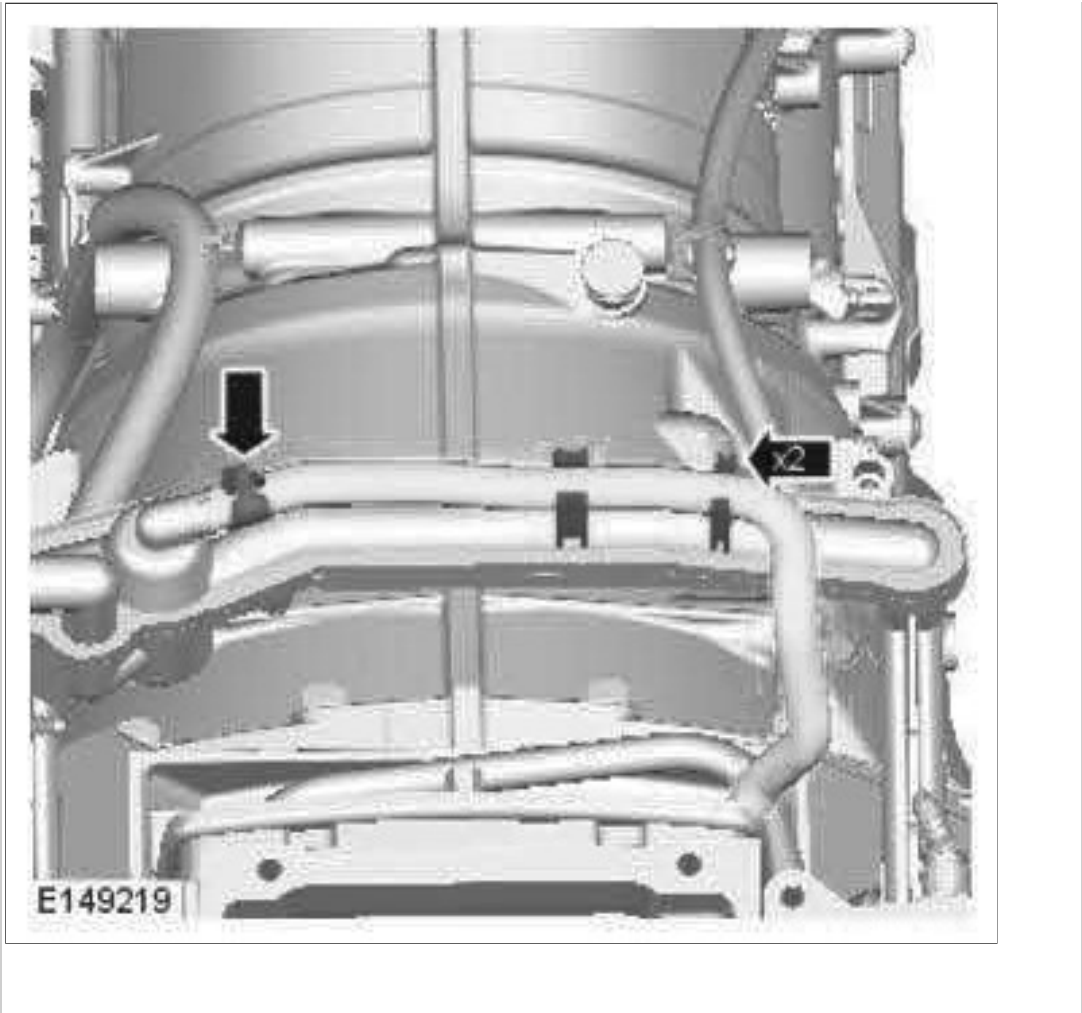




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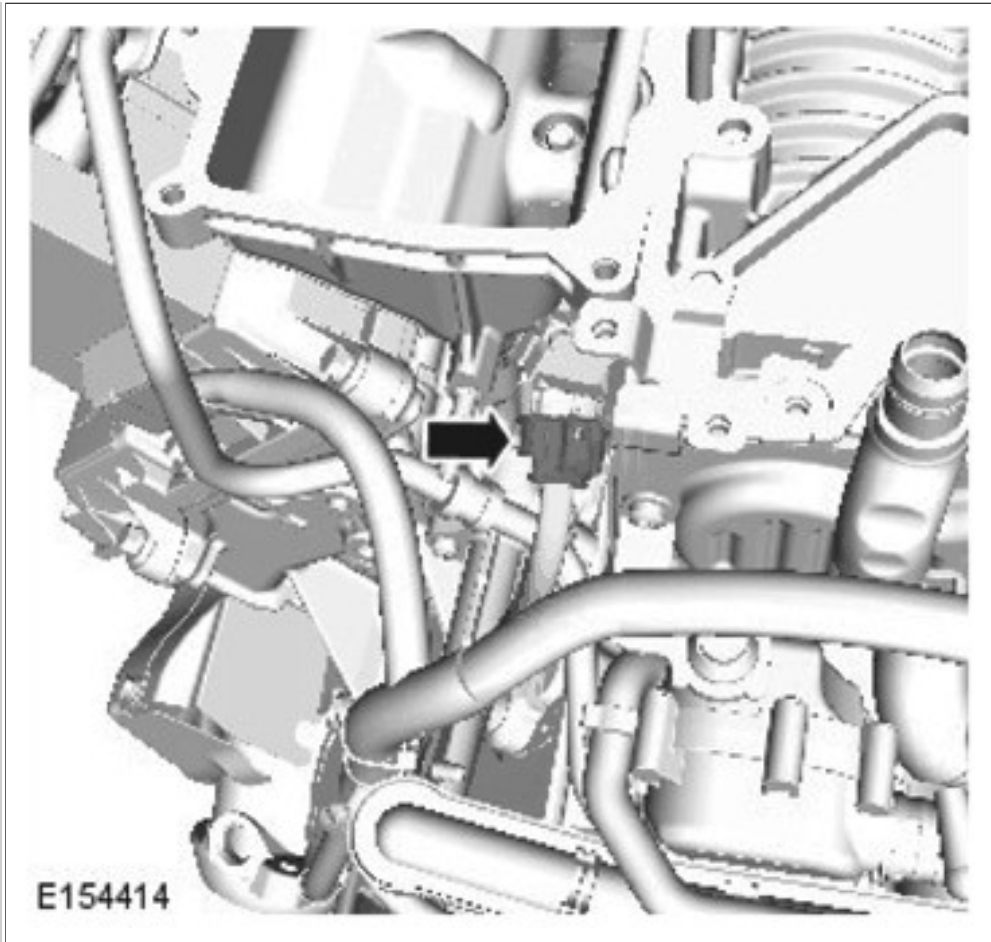


7.

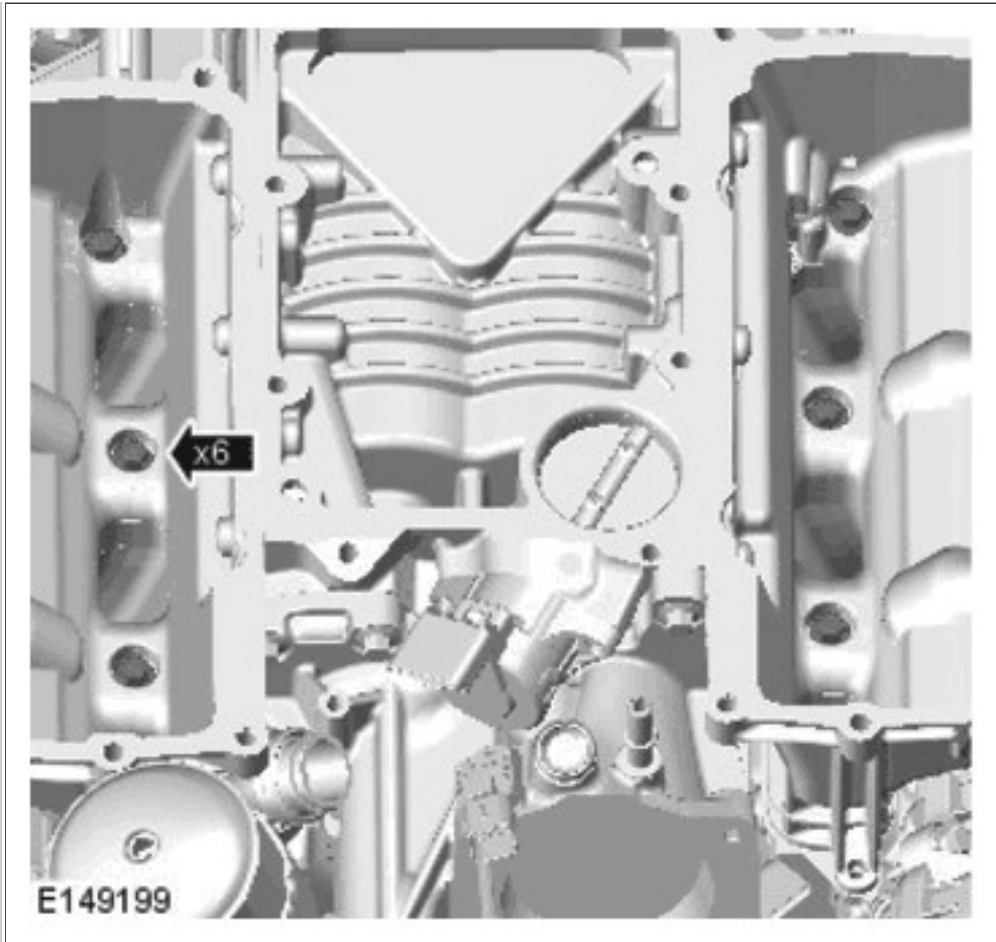


8.

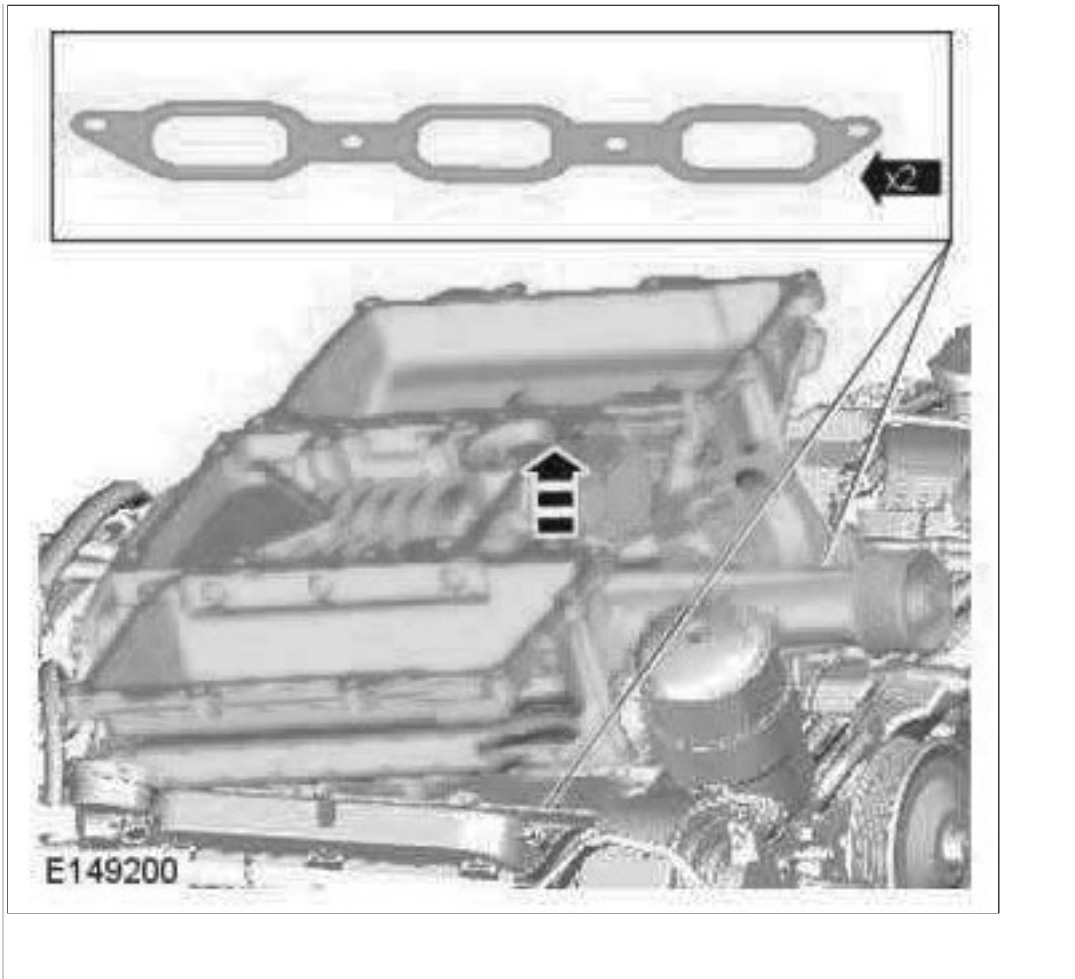




9.




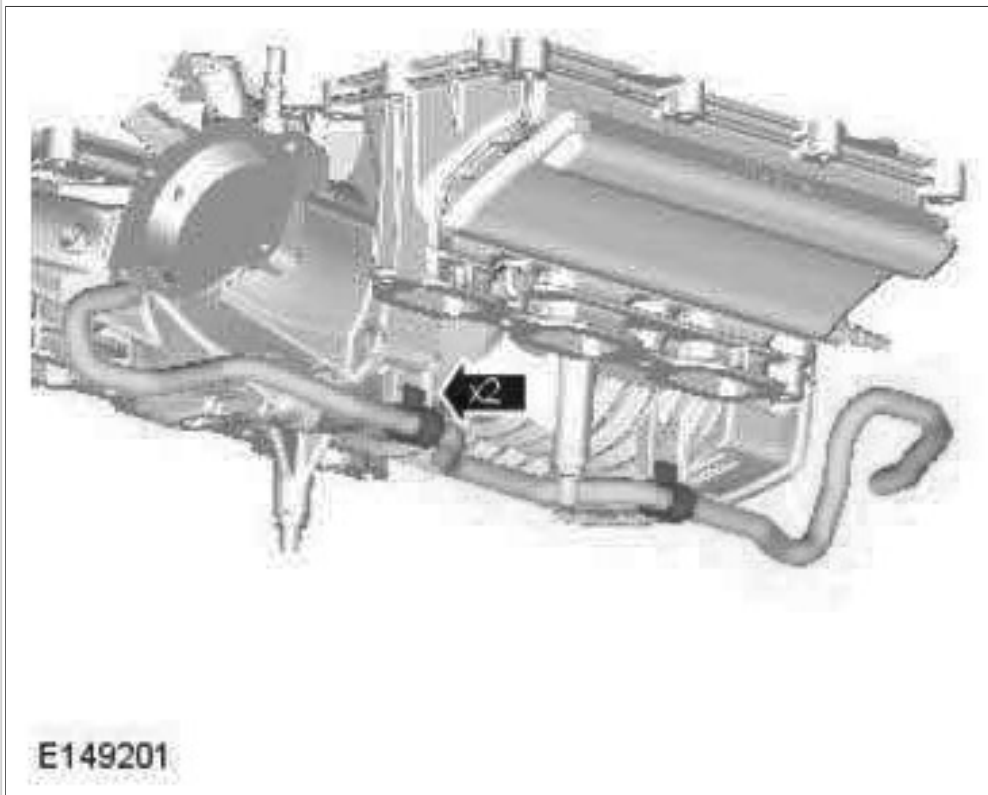
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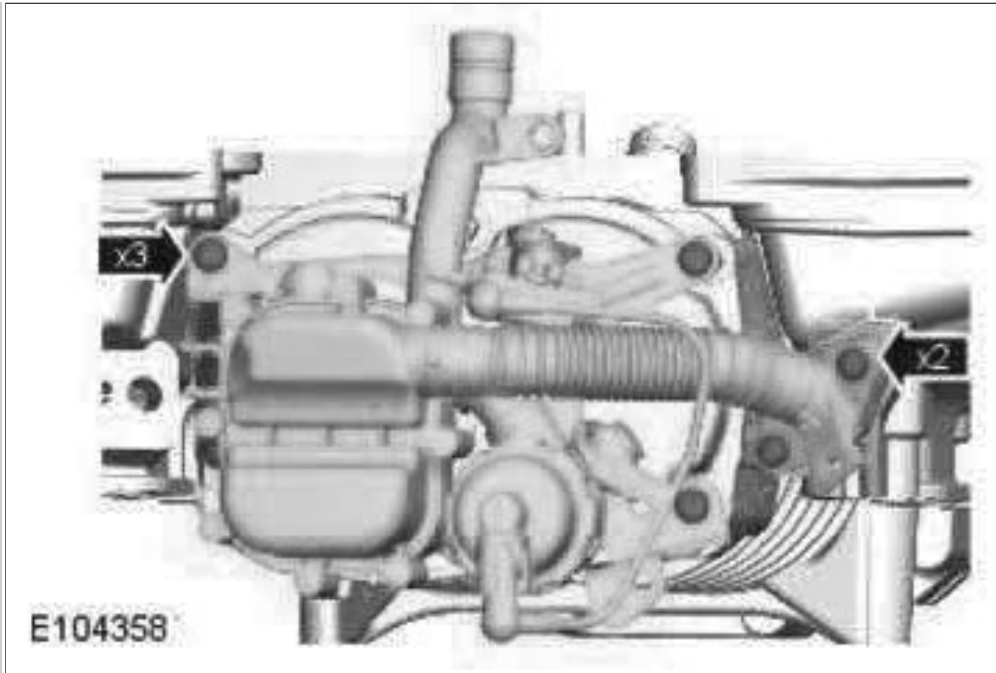


11.

1. Discard the gaskets.

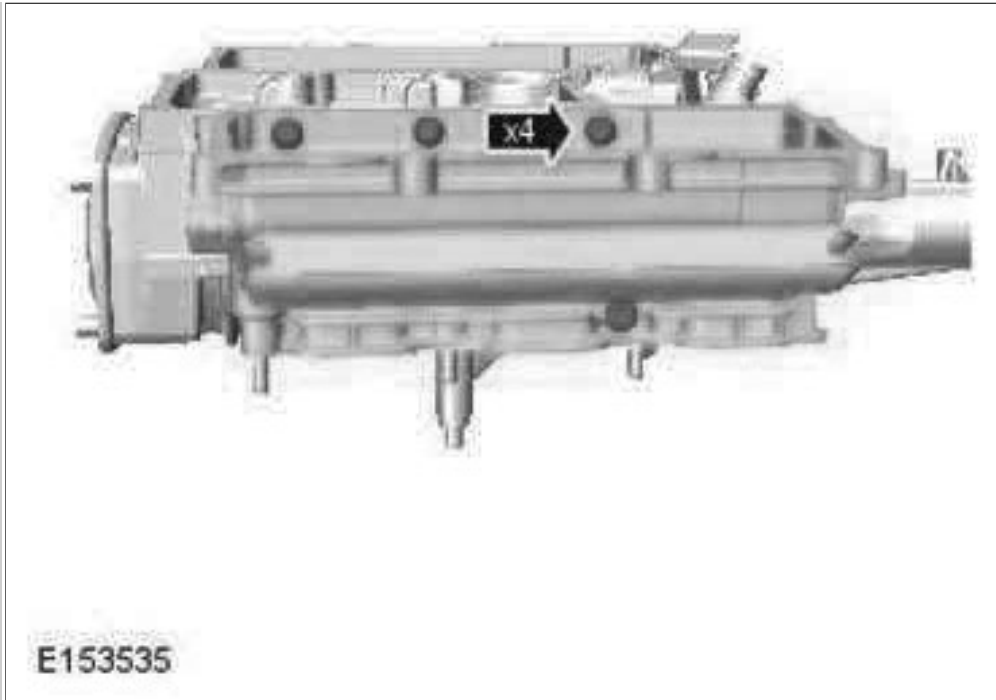
12.  **NOTE:** Do not disassemble further if the component is removed for access only.





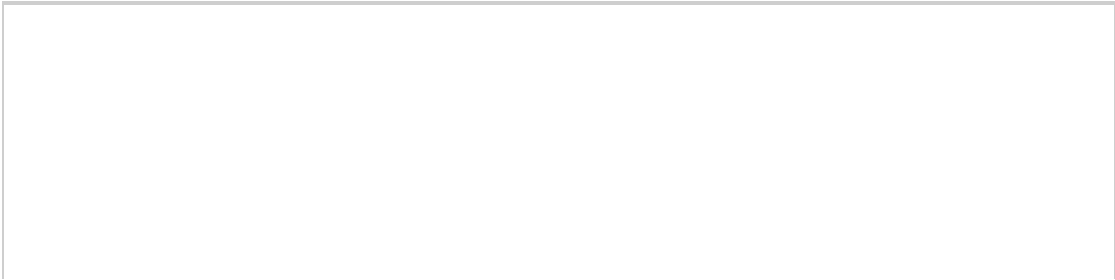
13.

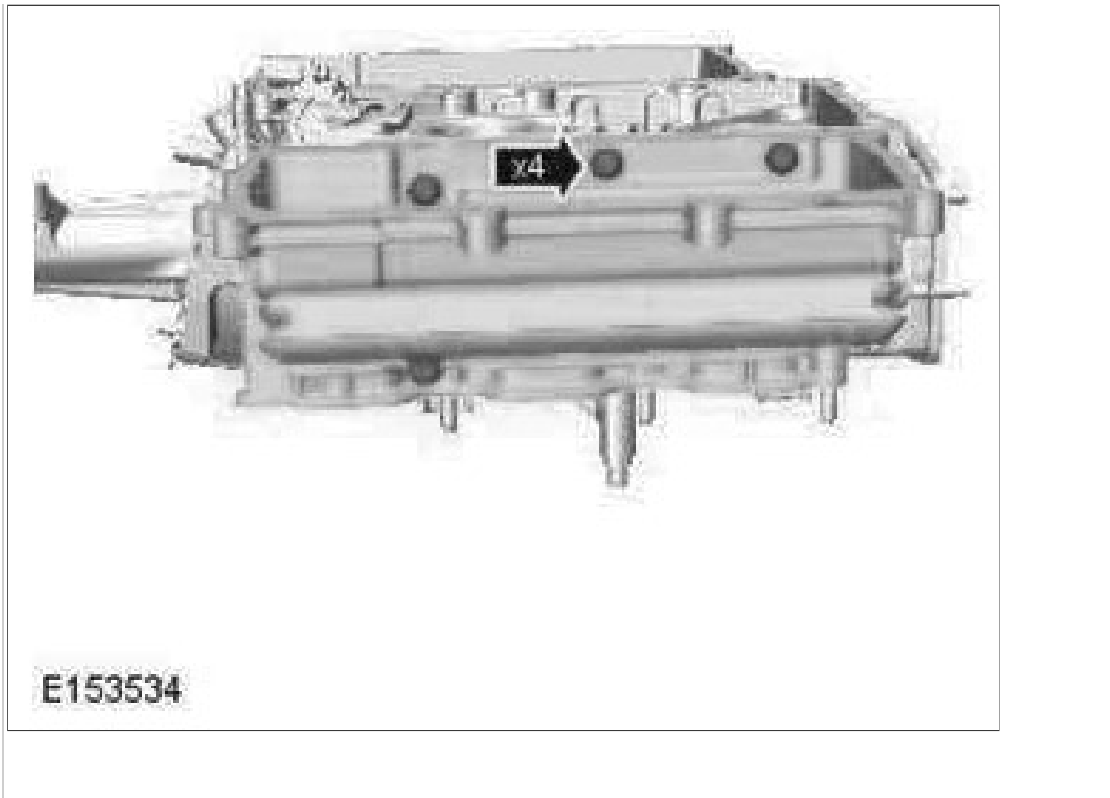




14.


15.





#### INSTALLATION

**⚠ CAUTION:** *If a new cylinder head has been installed, then new taptite bolts must be used to install the supercharger.*

 **NOTE:** *New taptite bolts when used cut their own threads on the first application.*

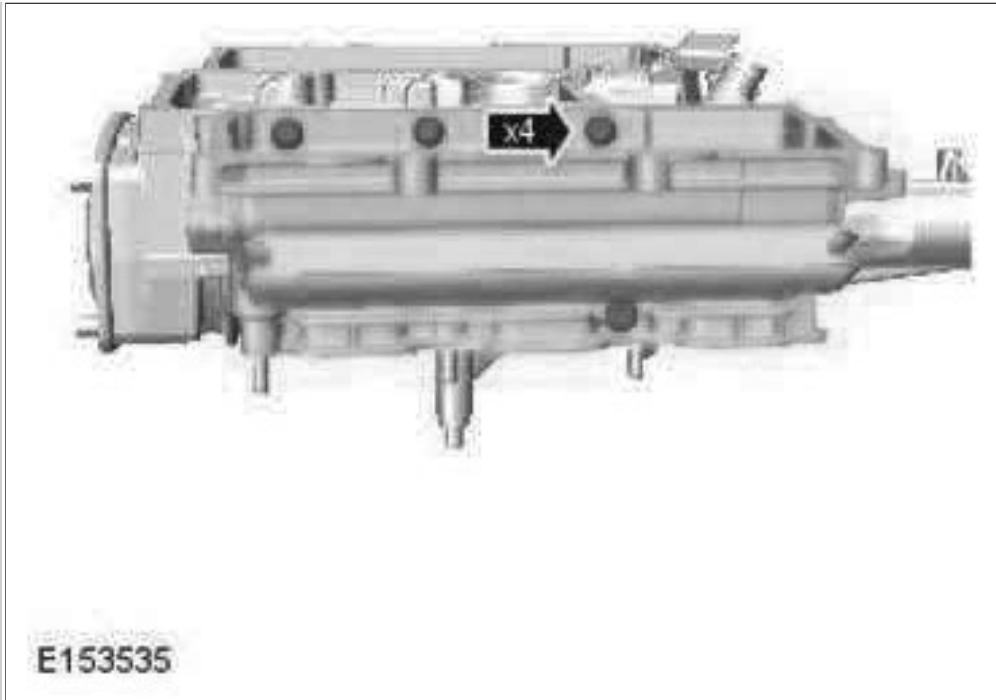


1.

Torque Specification: **25 Nm**

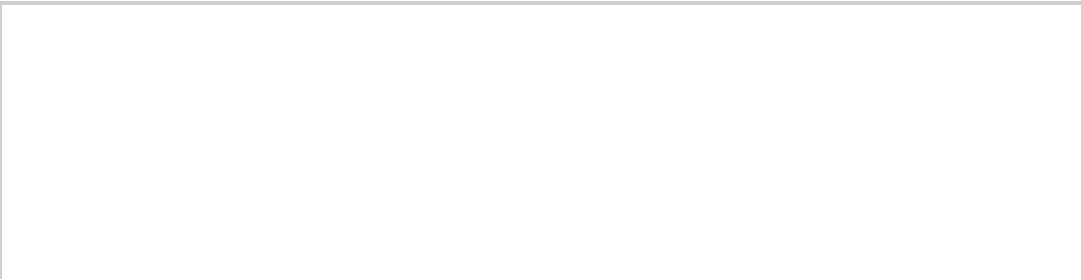


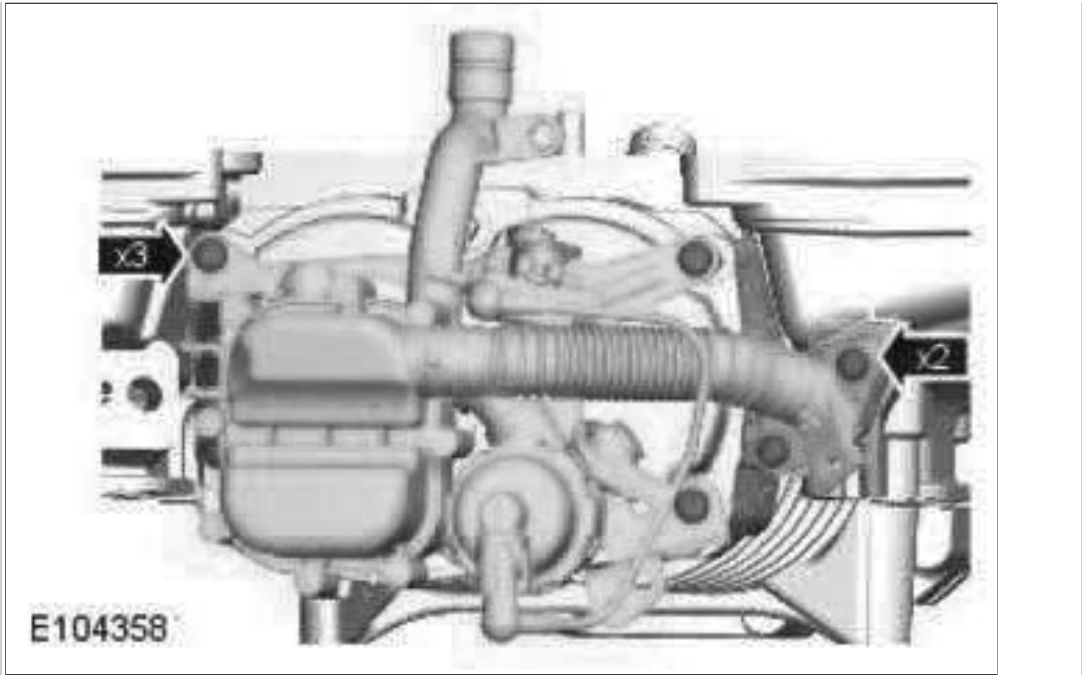




2.

Torque Specification: 25 Nm

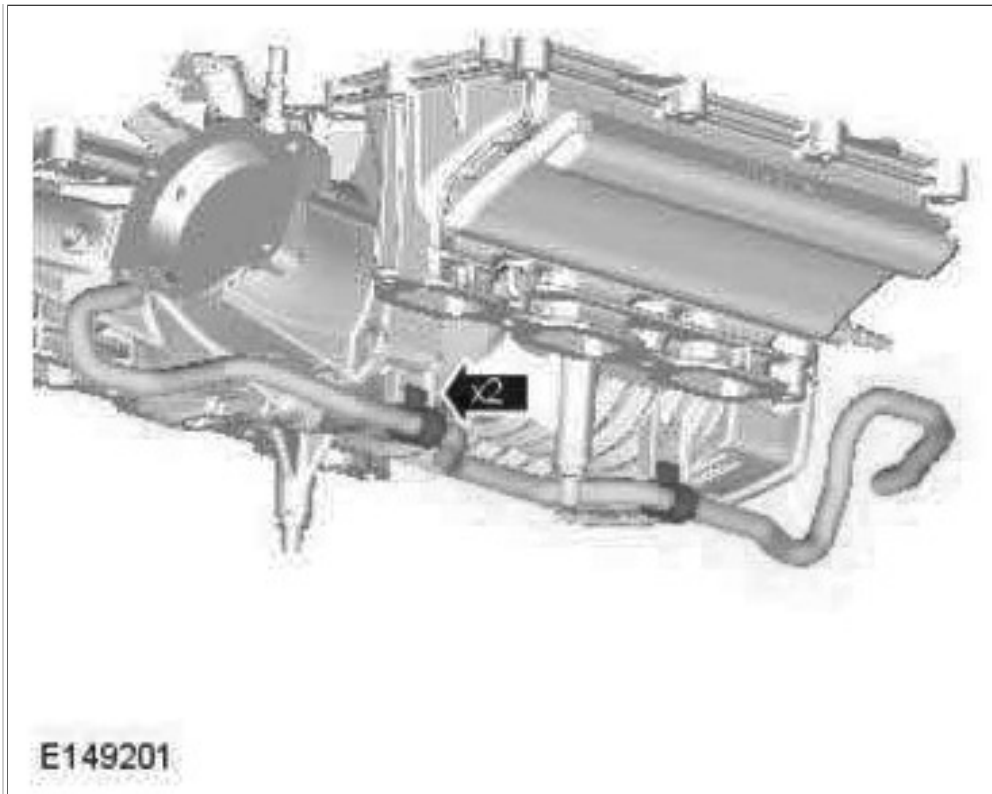




3.

Torque Specification: 10 Nm






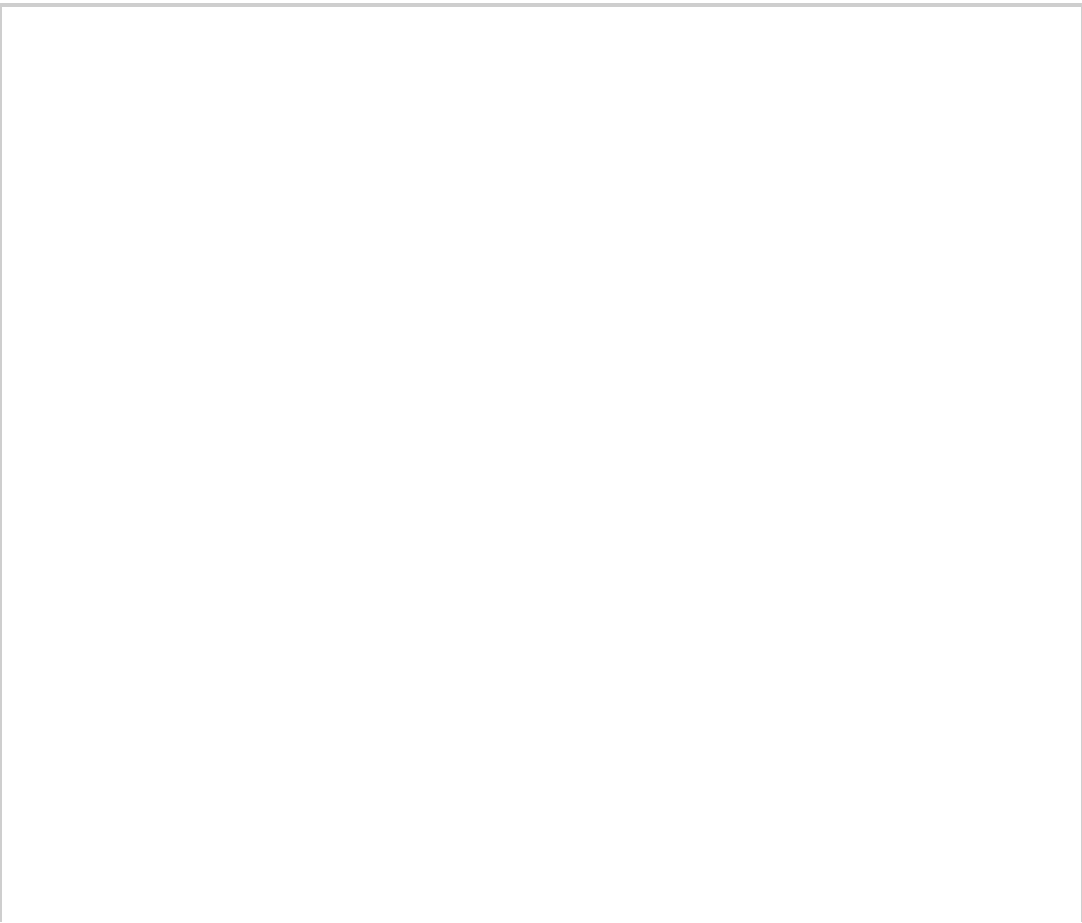
4.

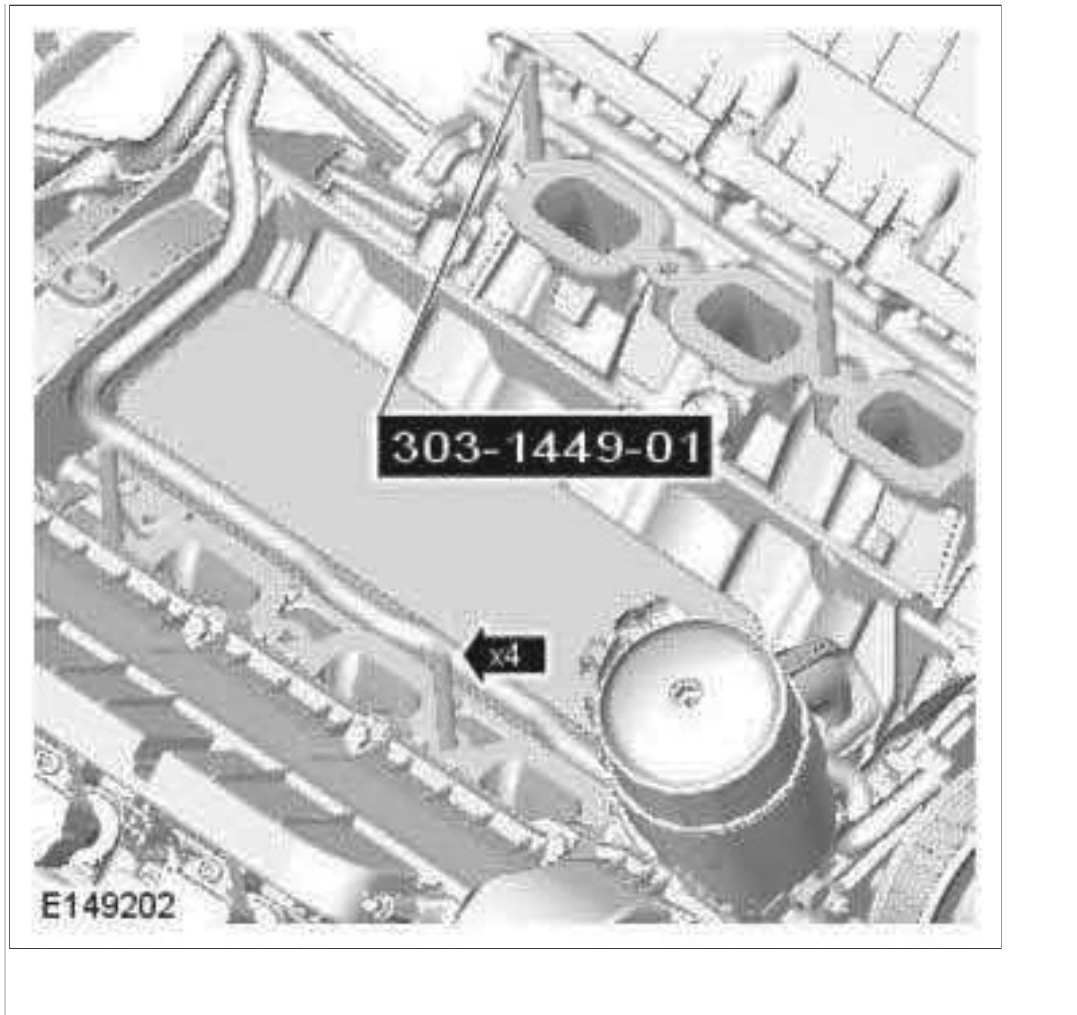
5. **⚠ CAUTION:**

1. *If a new cylinder head has been installed then the special tool 303-1449-02 without the thread must be used to install the supercharger.*
2. *If a new cylinder head has been installed, then new taptite bolts must be used to install the supercharger.*




 **NOTE:** *New taptite bolts when used cut their own threads on the first application.*

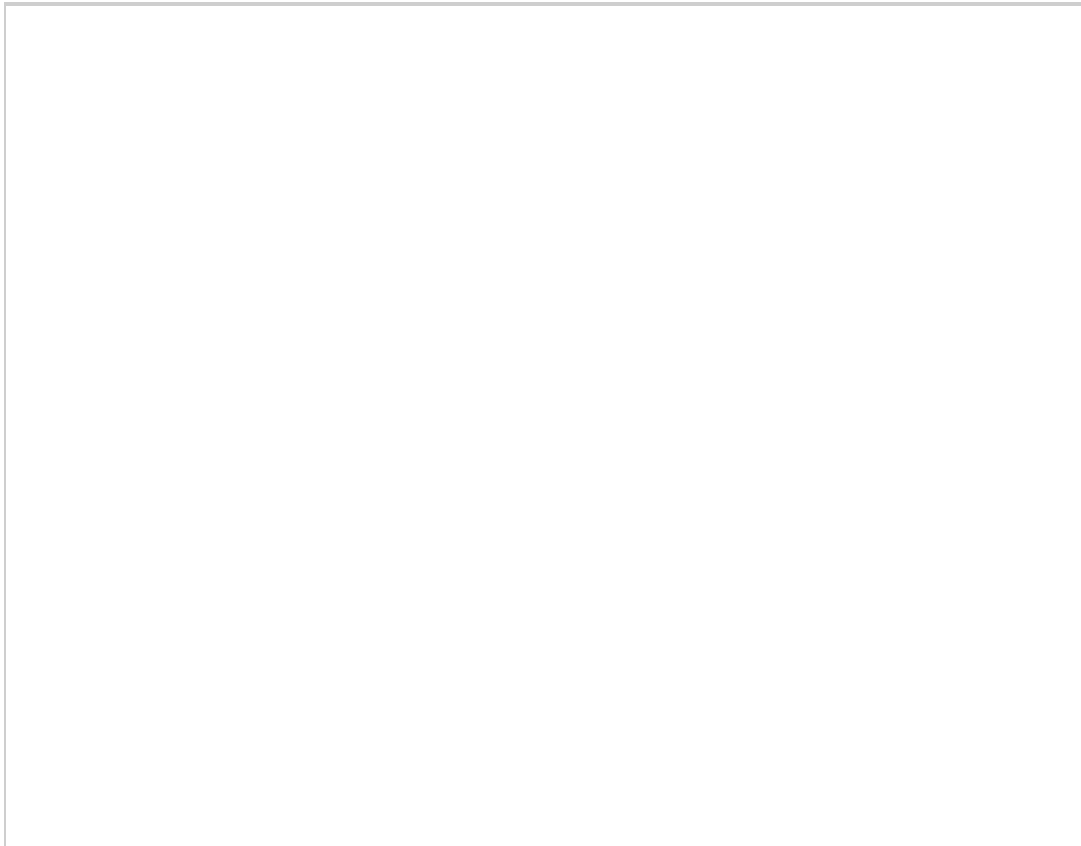


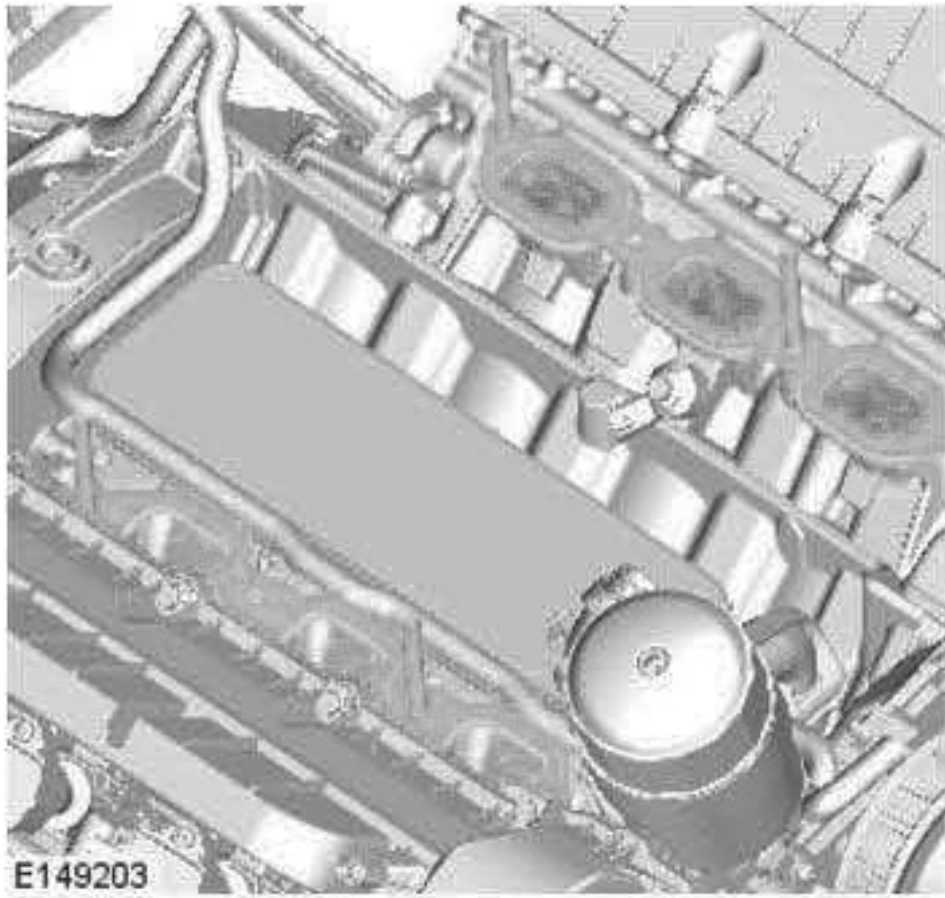



Special Tool(s): 303-1449-01, 303-1449-02

6.  **CAUTION:** Make sure that the mating faces are clean and free of foreign material.

 **NOTE:** Install new gaskets.

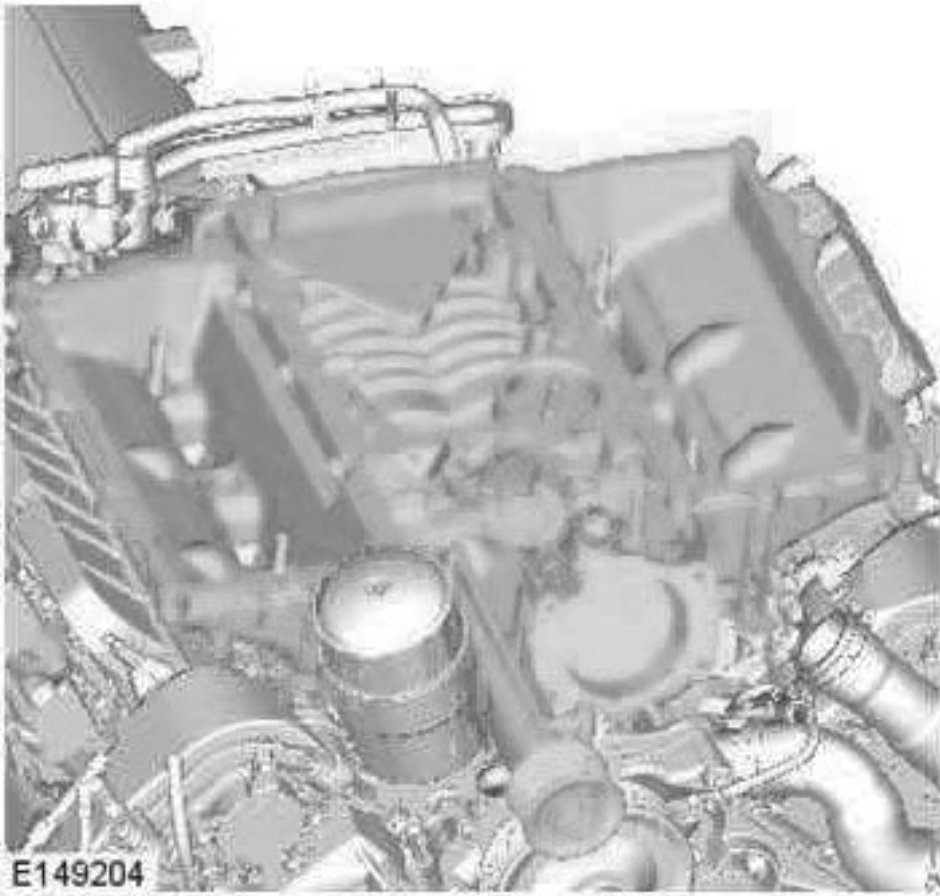


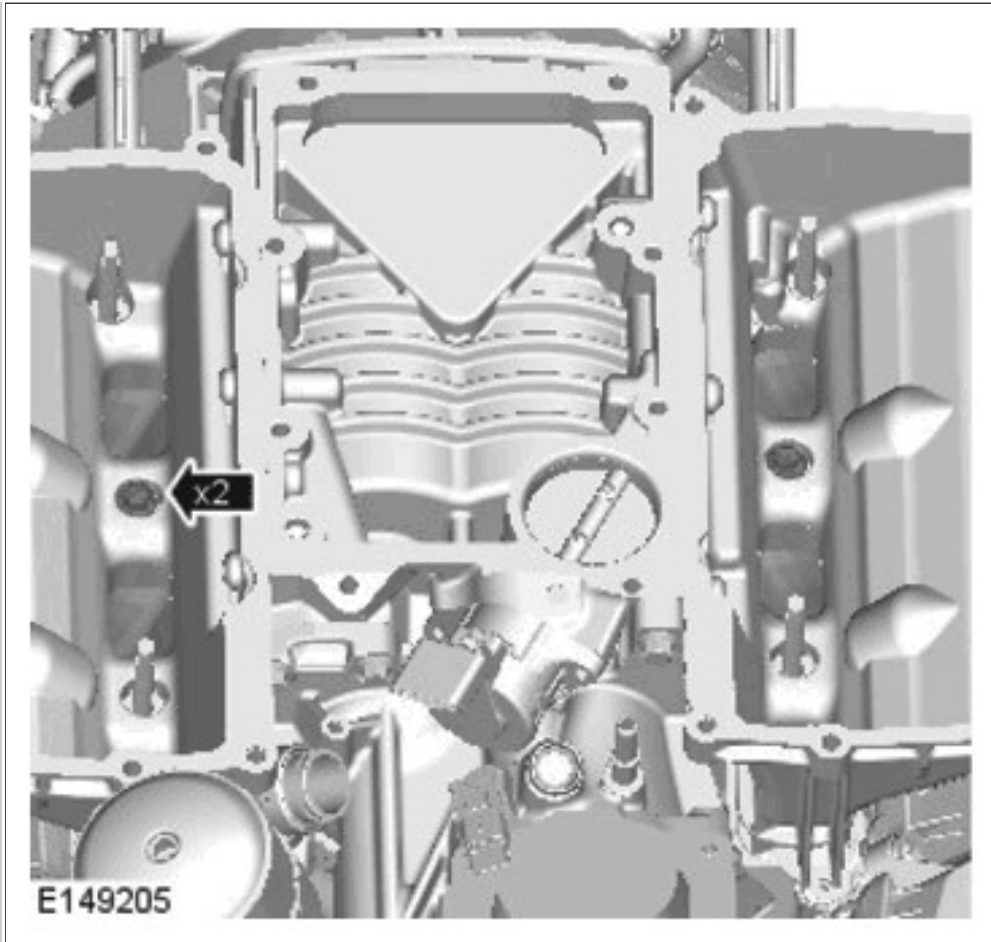


7.  **CAUTION:** *Make sure that the mating faces are clean and free of foreign material.*





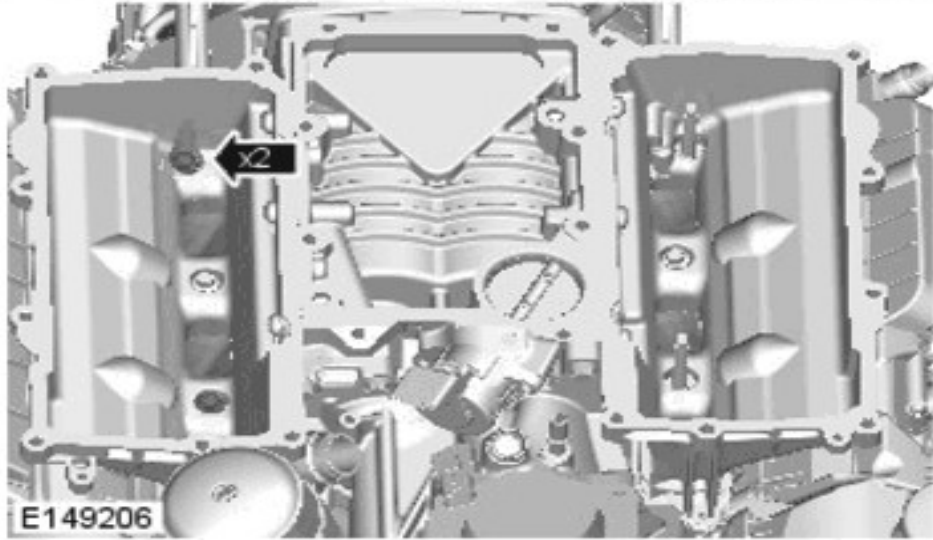
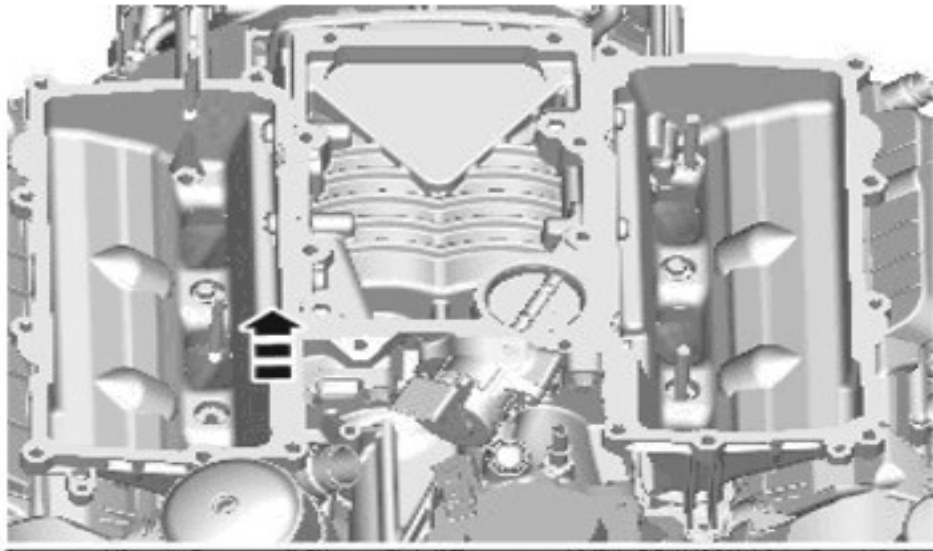




8.

Torque Specification: 25 Nm

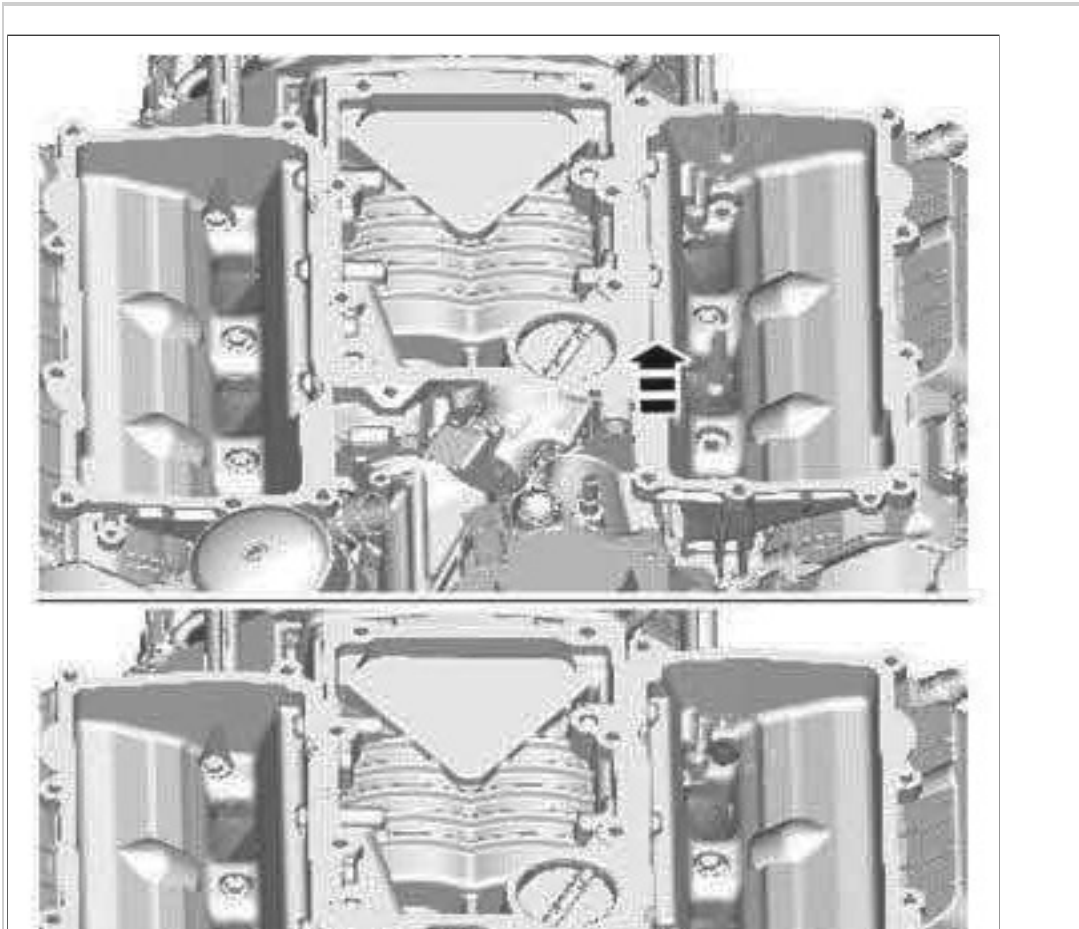
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9.

Special Tool(s): 303-1449-01, 303-1449-02  
Torque Specification: 25 Nm

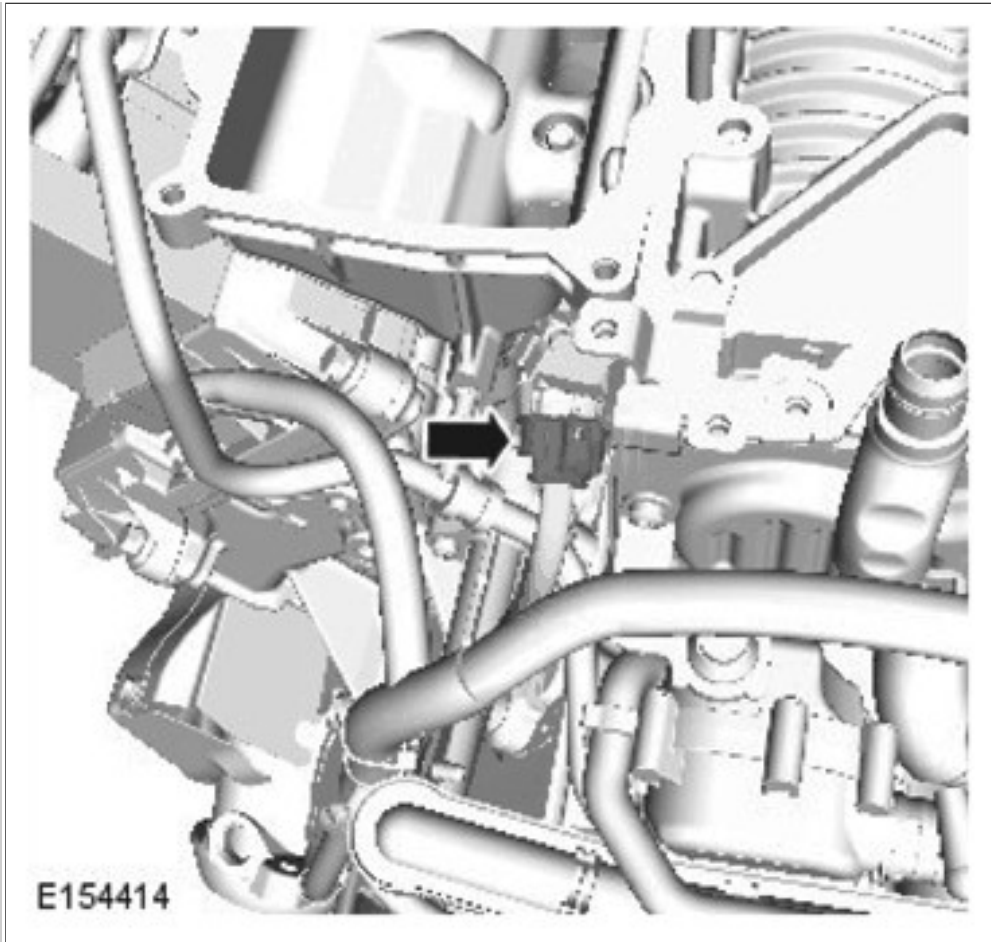




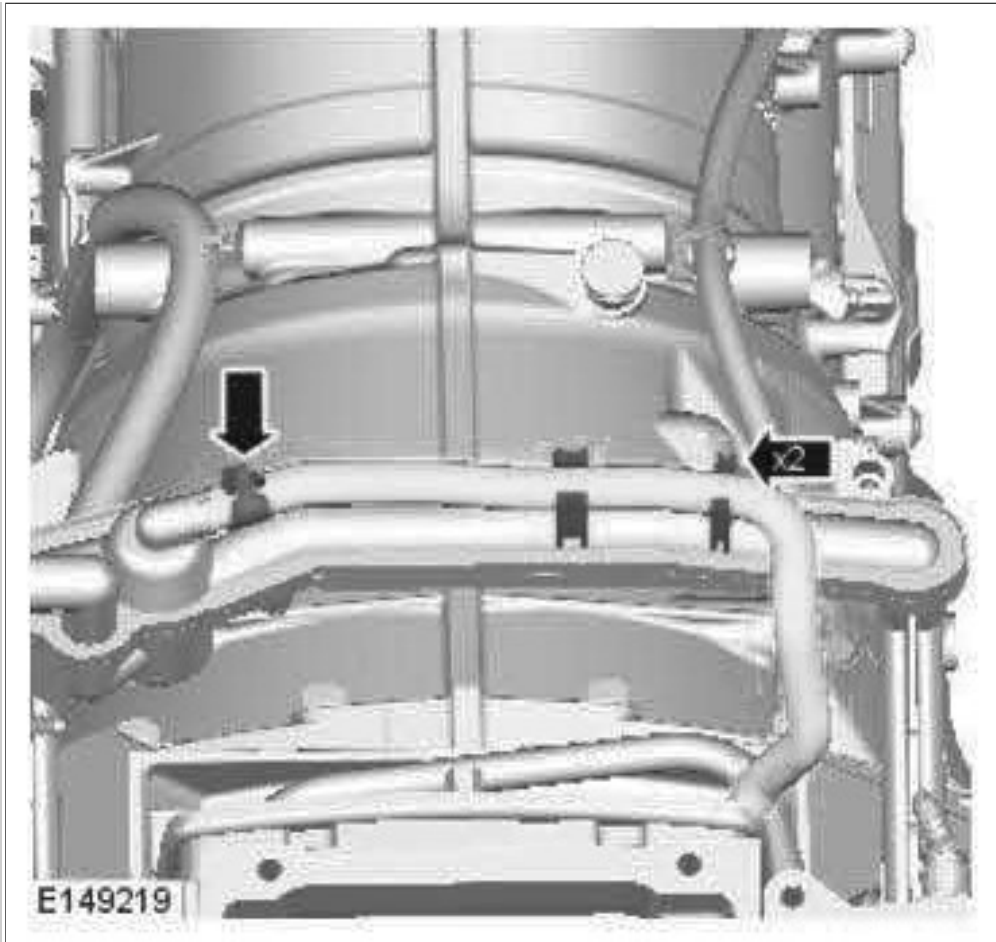
10.

Special Tool(s): 303-1449-01, 303-1449-02  
Torque Specification: **25 Nm**

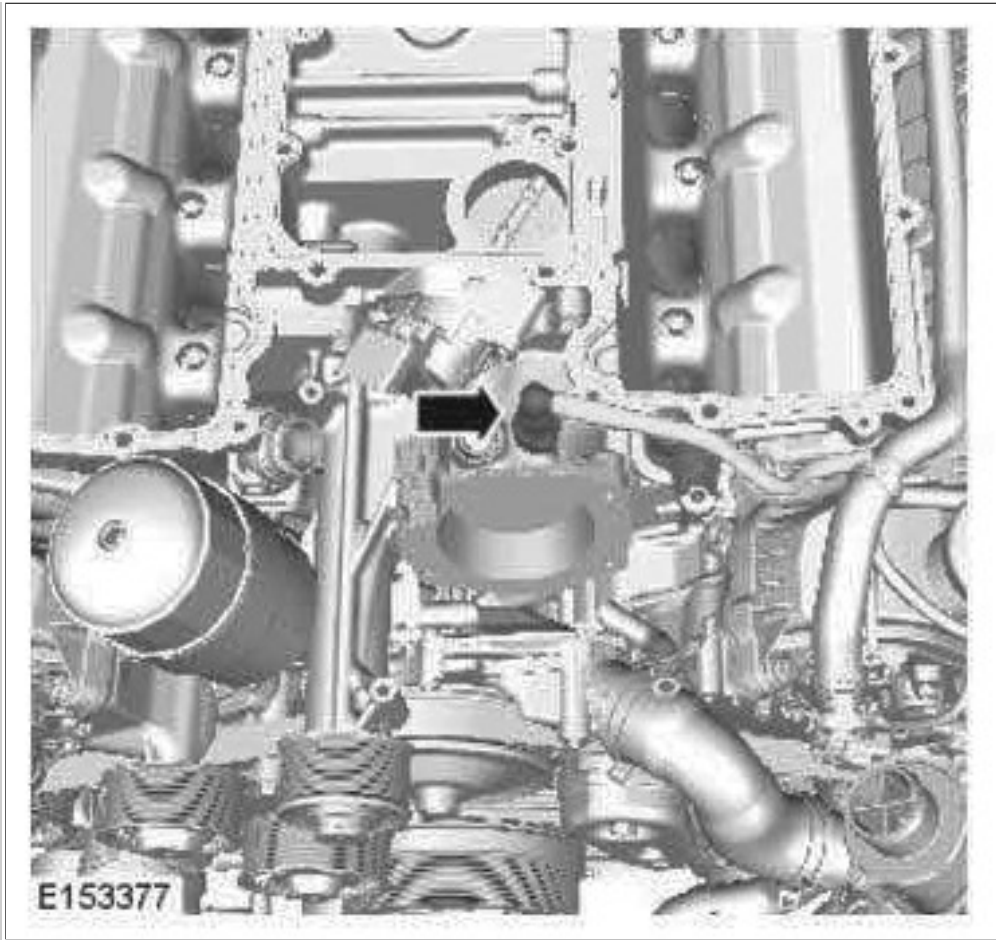




11.

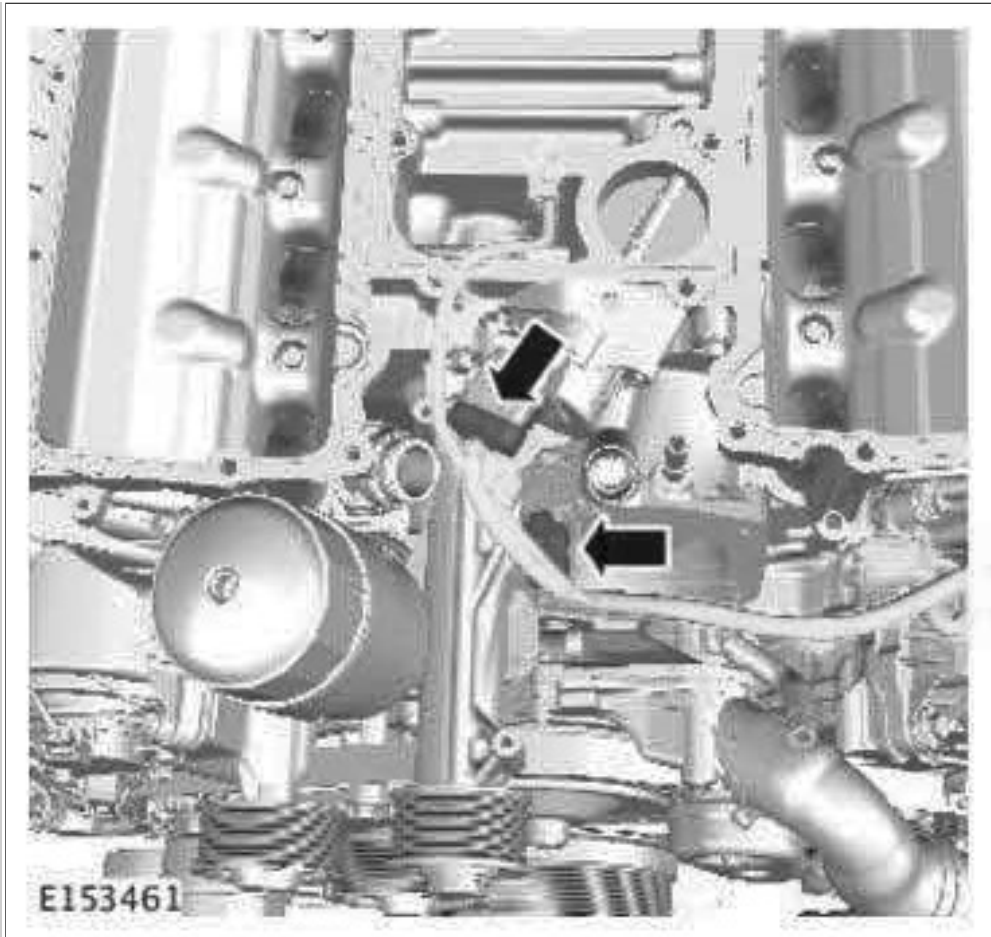


12.



13.





14.


15. Refer to: Supercharger Belt (Removal and Installation).


16. Refer to: Throttle Body (Removal and Installation).

17. Refer to: Charge Air Cooler (Removal and Installation).

18. Refer to: Battery Disconnect and Connect (General Procedures).

## INSPECTION AND VERIFICATION

 **WARNING: DO NOT** remove the coolant expansion tank cap when the engine is hot. Failure to follow this instruction may result in personal injury.

 **CAUTION:** Diagnosis by substitution from a donor vehicle is **NOT** acceptable. Substitution of control modules does not guarantee confirmation of a fault, and may also cause additional faults in the vehicle being tested and/or the donor vehicle.

 **NOTE:**

- If a control module or a component is suspect and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual, or determine if any prior approval program is in operation, prior to the installation of a new module/component.
- When performing voltage or resistance tests, always use a digital multimeter accurate to three decimal places, and with an up-to-date calibration certificate. When testing resistance always take the resistance of the digital multimeter leads into account.
- Check and rectify basic faults before beginning diagnostic routines involving pinpoint tests.

### Visual Inspection

1. Verify the customer concern

2. Visually inspect for obvious signs of damage and system integrity

| MECHANICAL   | ELECTRICAL  |
|--|---|
| <ol style="list-style-type: none"><li>1. Coolant level</li><li>2. Coolant leaks</li><li>3. Coolant hoses/pipes</li><li>4. Coolant expansion tank</li><li>5. Coolant expansion tank cap</li><li>6. Charge air coolant pump</li><li>7. Left charge air cooler</li><li>8. Right charge air cooler</li><li>9. Charge air cooler</li><li>10. Electric fan</li></ol> | <ol style="list-style-type: none"><li>1. Fuses</li><li>2. Wiring harnesses and connectors</li><li>3. Powertrain control module</li><li>4. Engine coolant temperature sensor</li><li>5. Charge air temperature sensor</li><li>6. Charge air coolant pump</li></ol> |

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step
4. If the cause is not visually evident, verify the symptom and refer to the Symptom Chart, alternatively check for Diagnostic Trouble Codes (DTCs) and refer to the DTC Index
5. Check DDW for open campaigns. Refer to the corresponding bulletins and SSMs which may be valid for the specific customer complaint and carry out the recommendations as required