

Heating and Ventilation

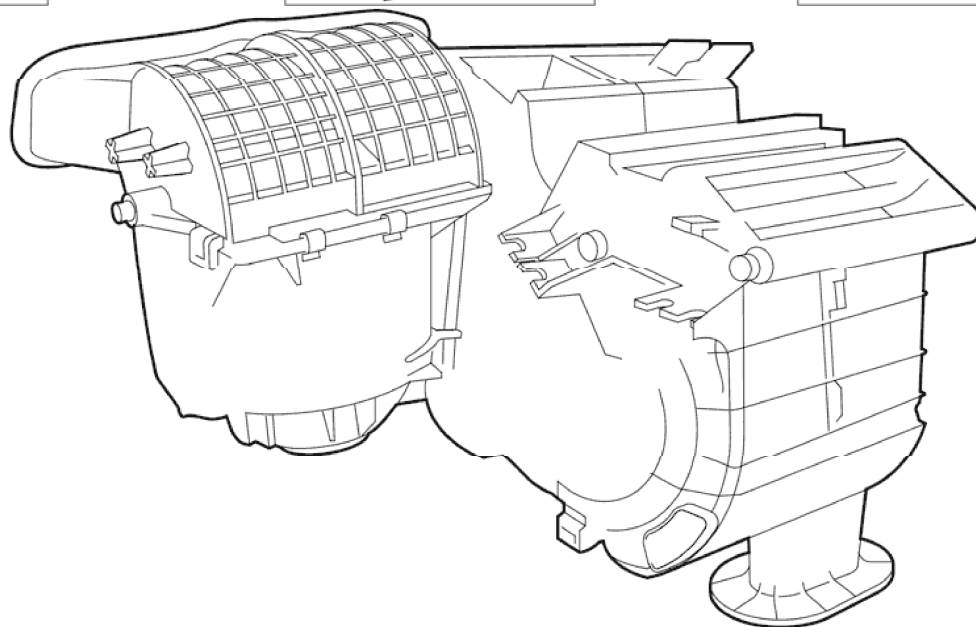
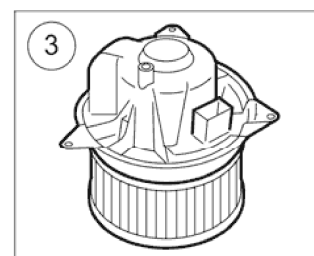
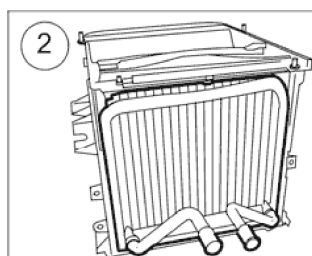
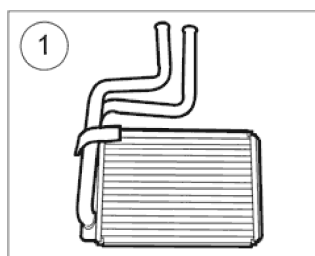
The heating and defrosting system is a blended air system and consists of a heater core, a blower motor, distribution doors and an evaporator core.

Air is directed through the heater core for heating and around for cooling, mixed and discharged through outlets in the plenum assembly to the floor, instrument panel registers or defrost nozzles as required

The heating and defrosting system:

- controls the vehicle air temperature and, during A/C operation, reduces the relative humidity of the air inside the vehicle.
- delivers heated or cooled air to maintain the vehicle interior temperature and comfort level.
- controls the A/C blower motor speed.

The blower motor draws outside air through the air inlet filter and duct during all system operations except for MAX A/C cooling (when recirculated air is used).



VUJ0004590

Item	Description
1	Heater core
2	Evaporator core
3	Blower motor

Heater Core

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The heater core consists of fins and tubes arranged to extract heat from the engine coolant and transfer it to air passing through the heater core. Air passing through the heater core is then directed to the relevant register.

Blower Motor

The HVAC blower motor pulls air from the air inlet and forces it into the evaporator housing and plenum assembly which is attached to the instrument panel where it is mixed and distributed.

DIAGNOSIS & TESTING

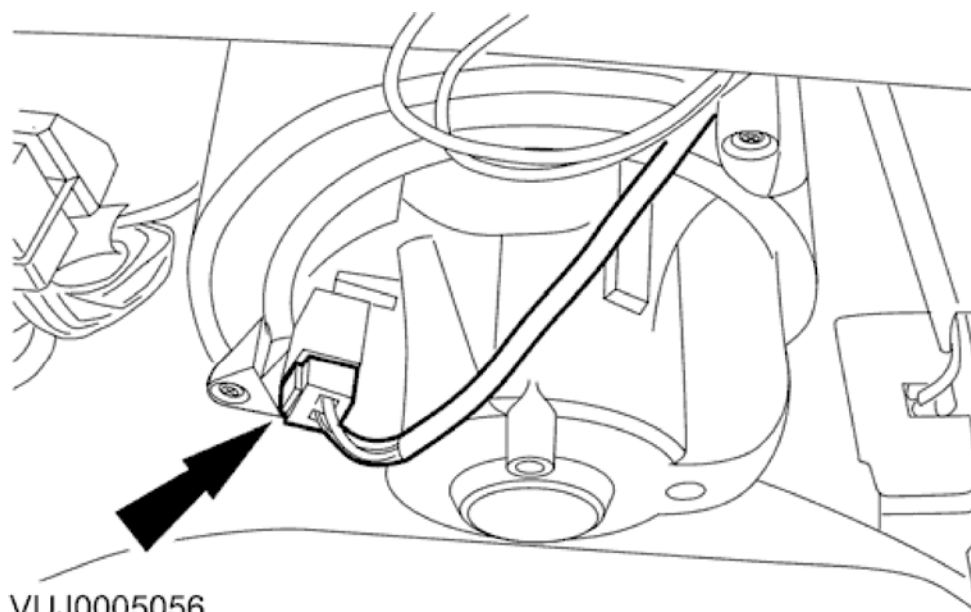
Heating and Ventilation

For additional information, refer to <<412-00>>.

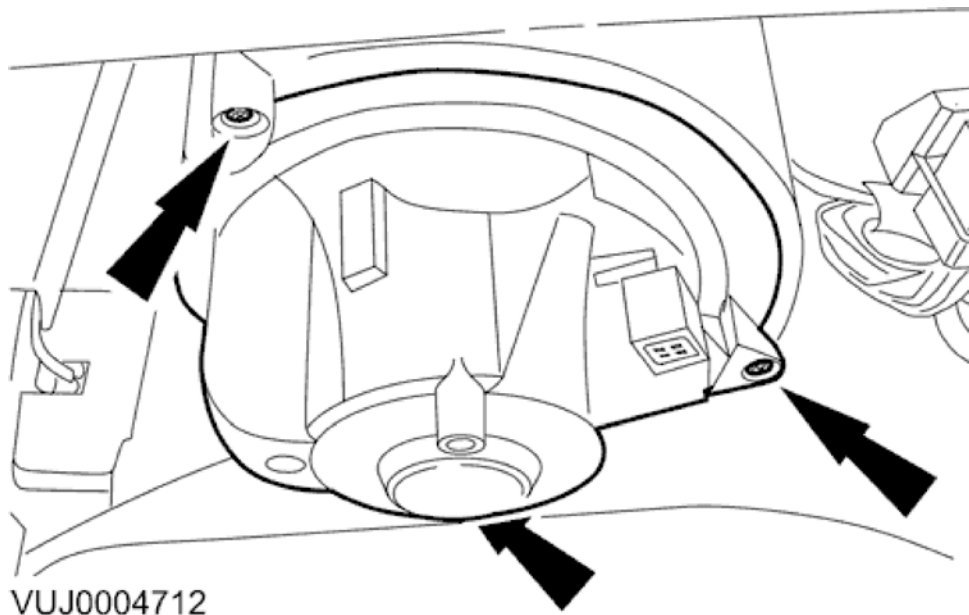
Blower Motor 82.25.66

Removal

1. Remove the blower motor lower cover.



2. Disconnect the electrical connector.



3. Remove the blower motor.
 - Remove the blower motor retaining screws.

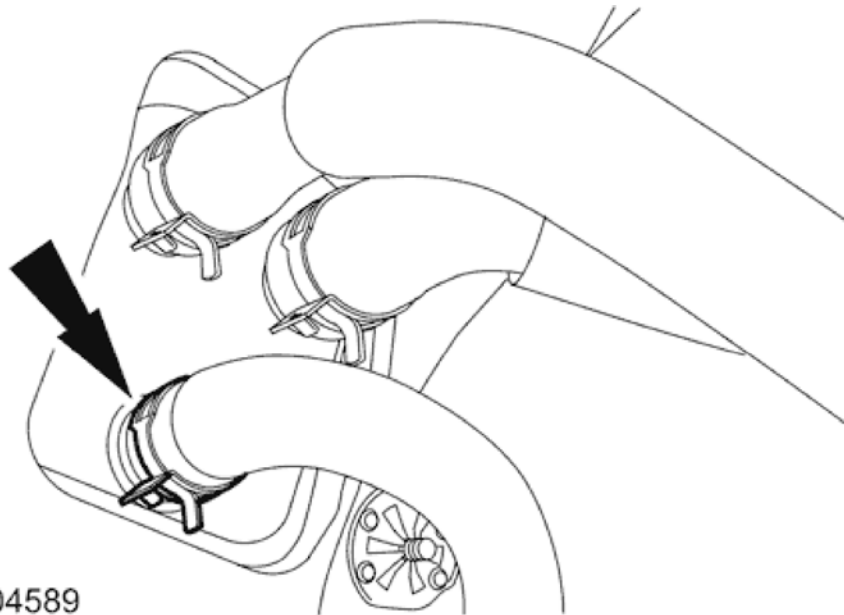
Installation

1. To install, reverse the removal procedure.

Evaporator Core Housing 80.20.01

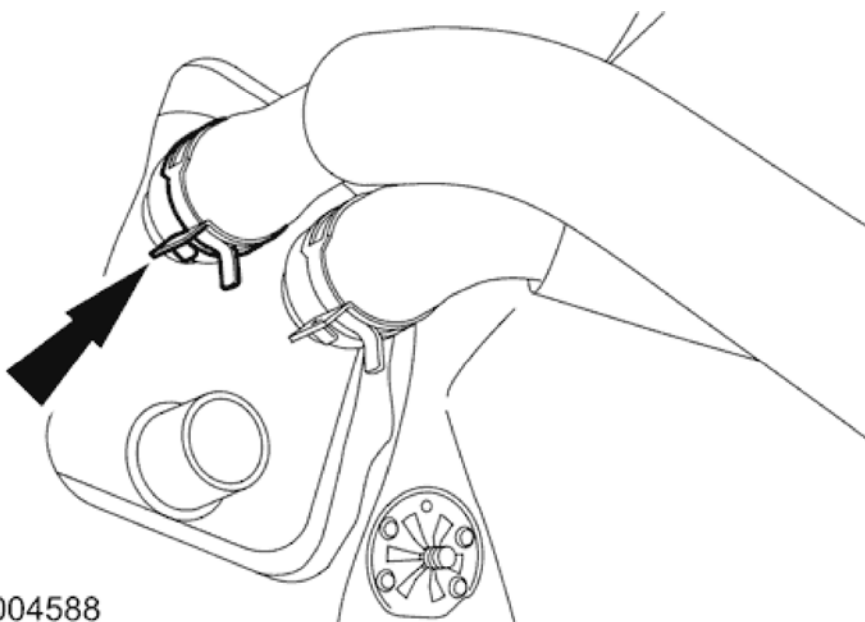
Removal

1. Disconnect the battery ground cable.
2. Recover the refrigerant. For additional information, refer to <<412-00>>.
3. Drain the cooling system. For additional information, refer to <<303-03>>.



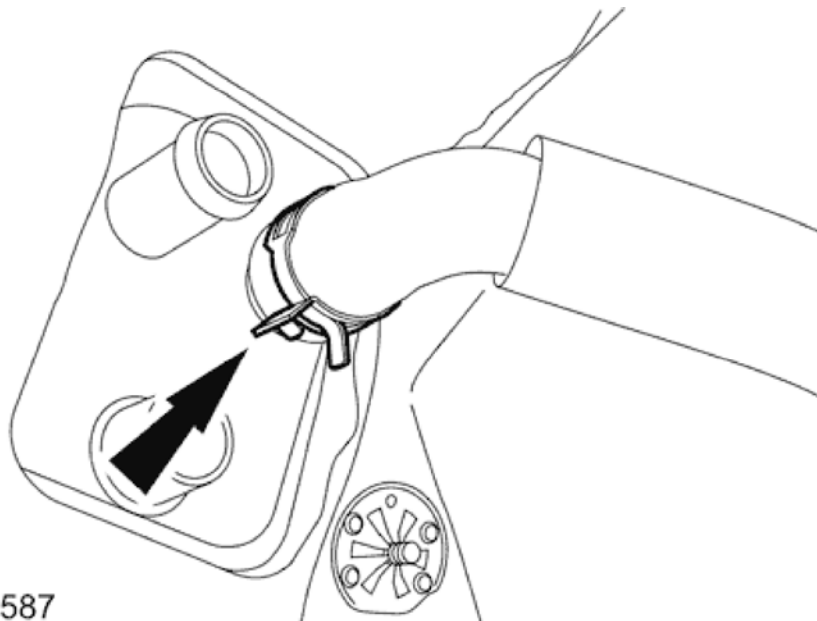
VUJ0004589

4. Disconnect the drain tube from the heater core.



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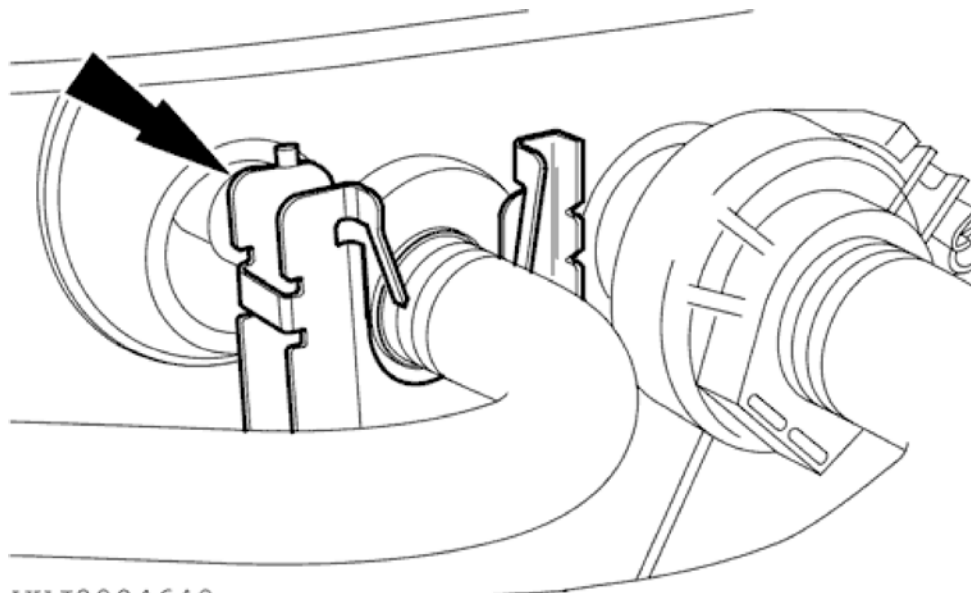
5. Disconnect the heater hose from the heater core.



VUJ0004587

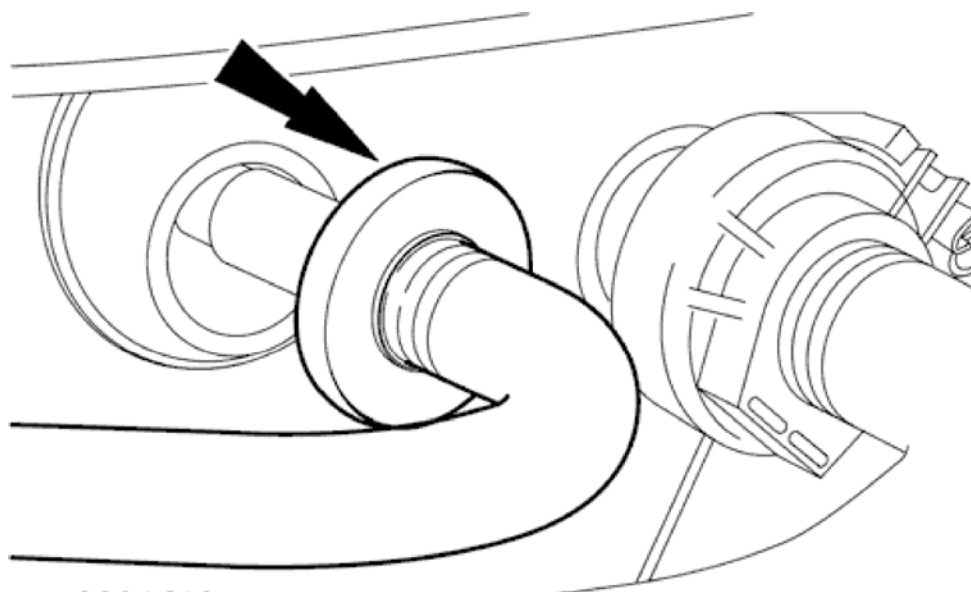
6. Disconnect the heater hose from the heater core.

7. Lower the vehicle.



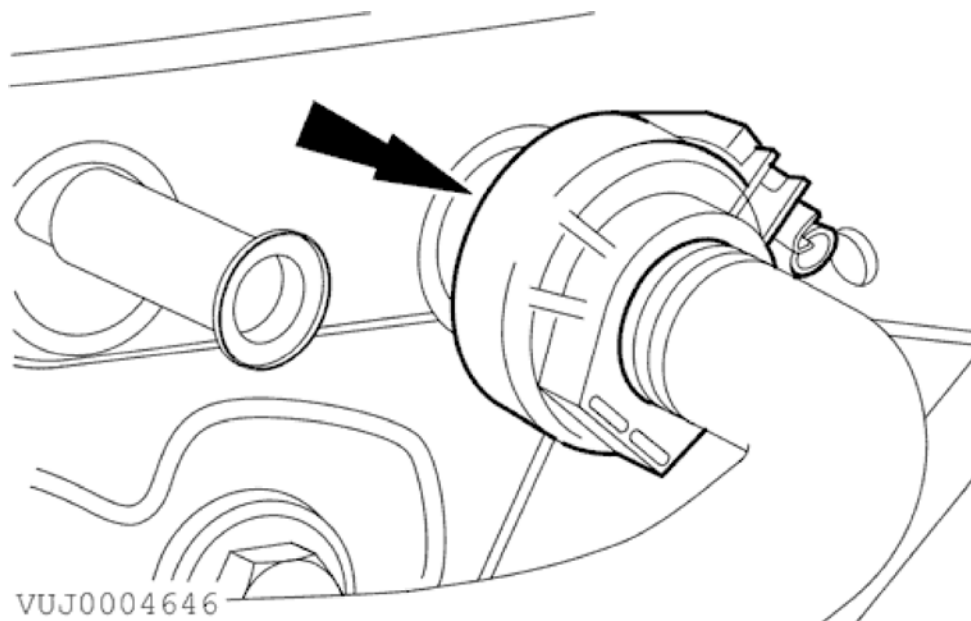
VUJ0004649

8. Remove the refrigerant line retaining clip.



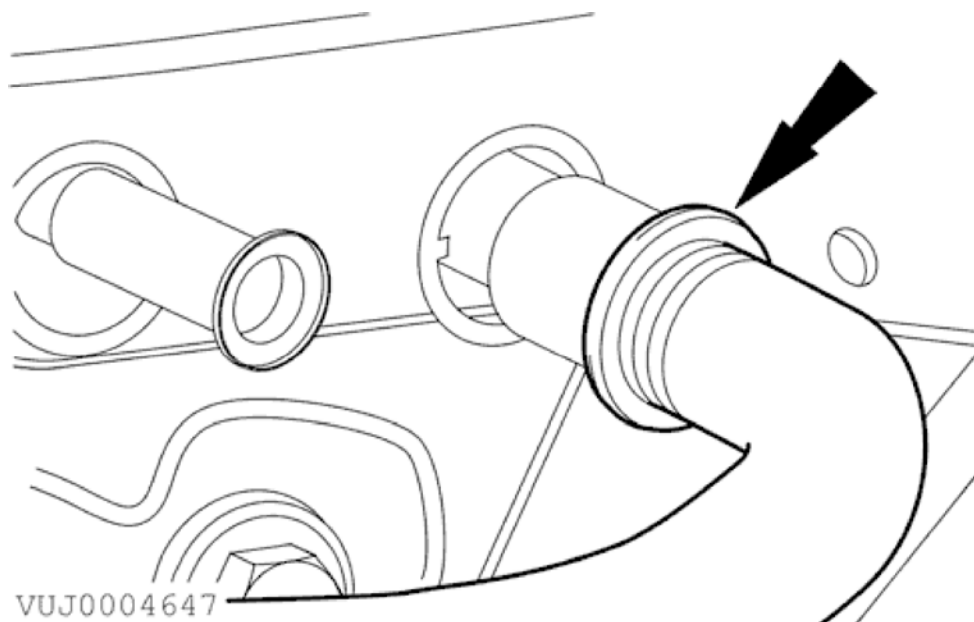
VUJ0004648

9. Using a suitable tool disconnect the refrigerant line.

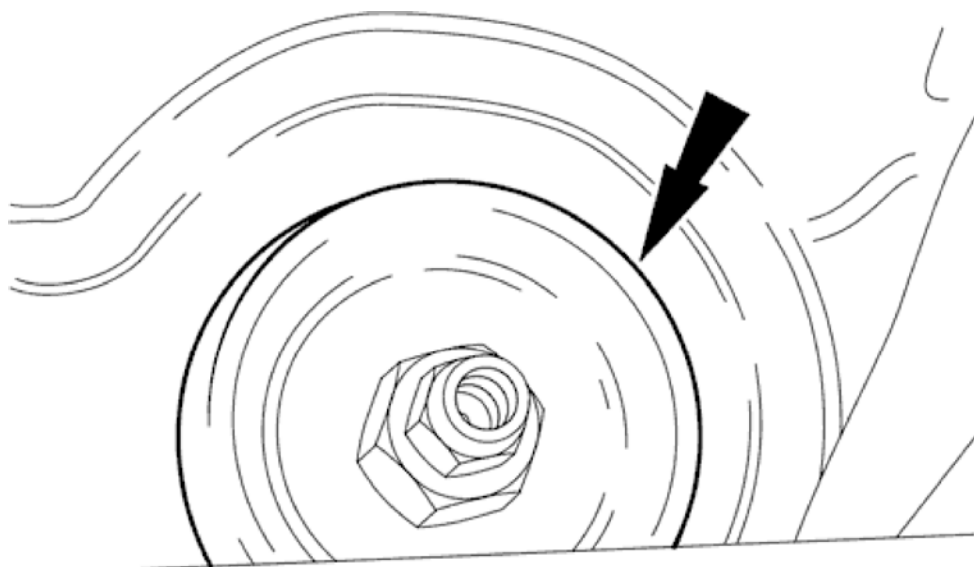


VUJ0004646

10. Remove the refrigerant line retaining clip.

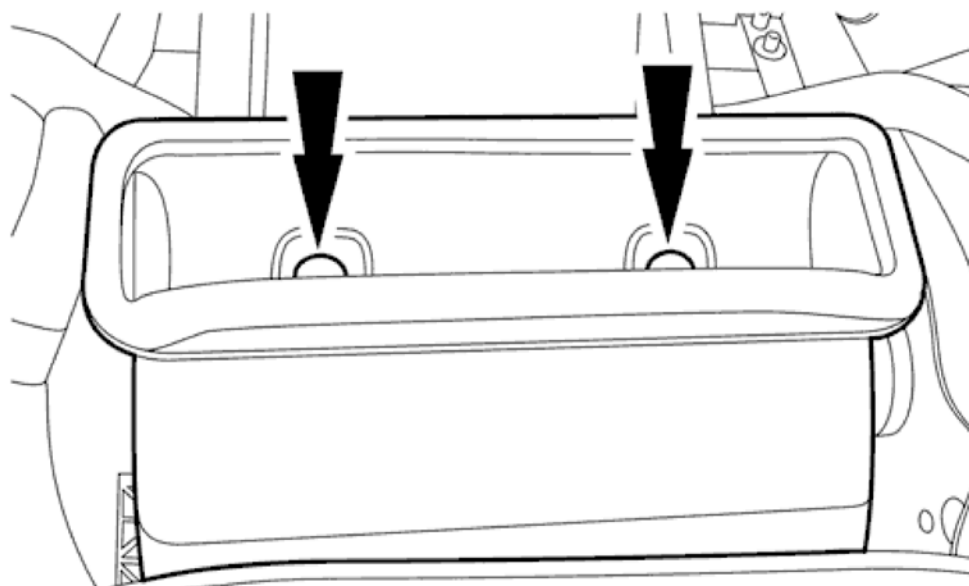


11. Using a suitable tool disconnect the refrigerant line.



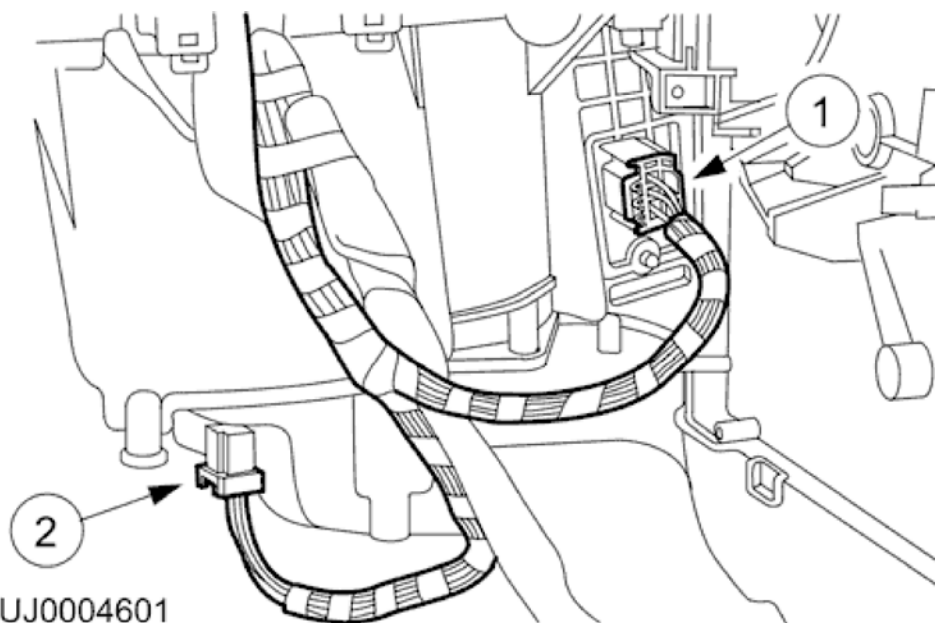
12. Remove the evaporator core housing lower securing nut.

13. Remove the instrument panel. For additional information, refer to <<501-12>>.



VUJ0004595

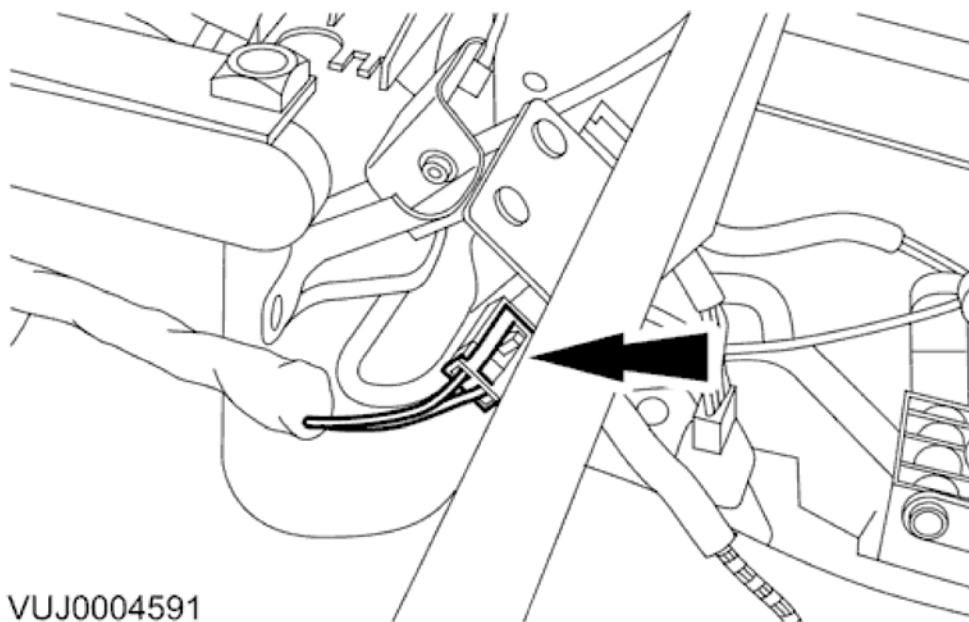
14. Remove the center register air duct.



VUJ0004601

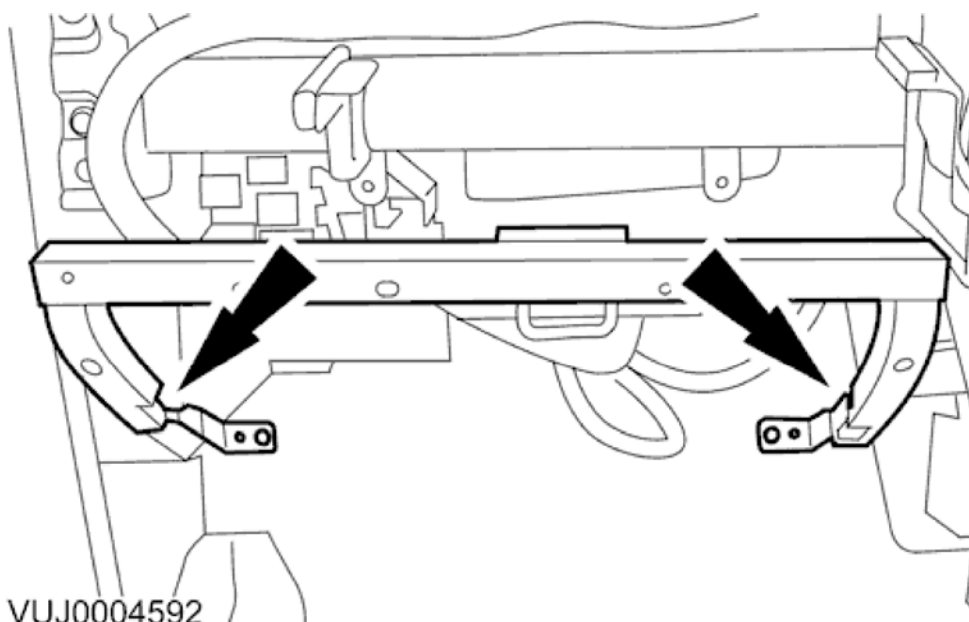
15. Disconnect the electrical connectors.
1. On manual A/C only.
2. All vehicles.

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VUJ0004591

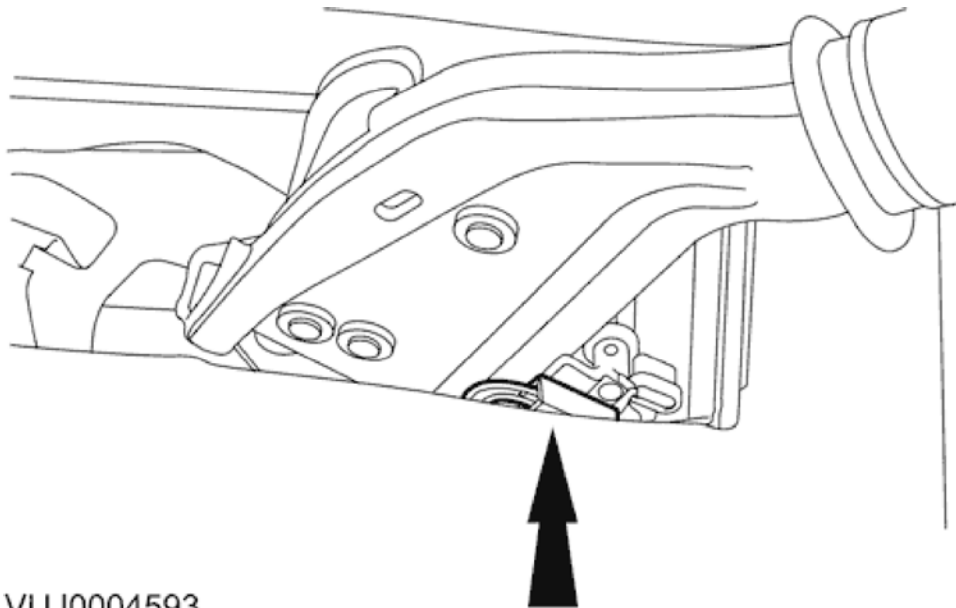
16. Disconnect the electrical connector.



VUJ0004592

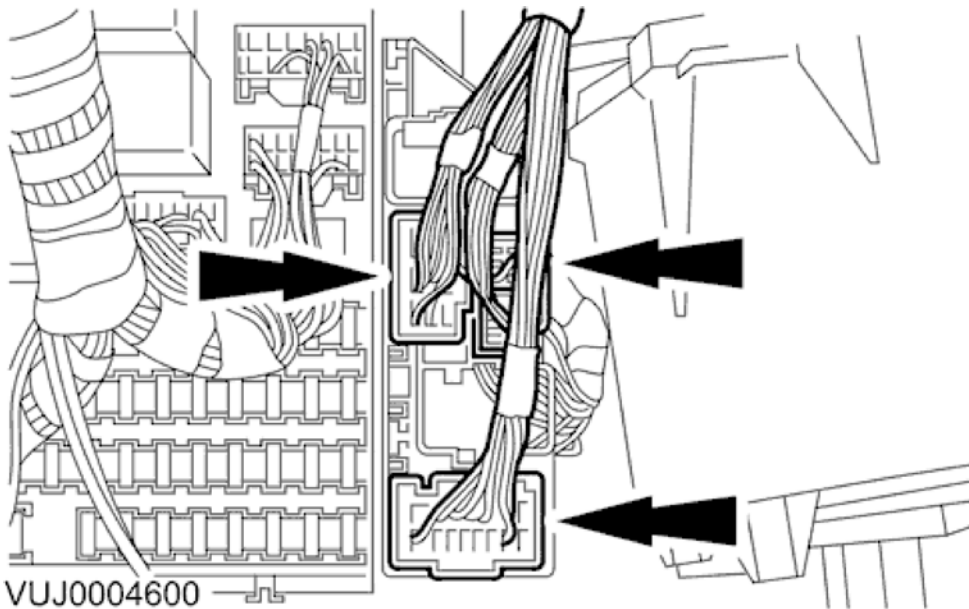
17. Remove the glove box mounting frame.

- Remove the retaining bolts.



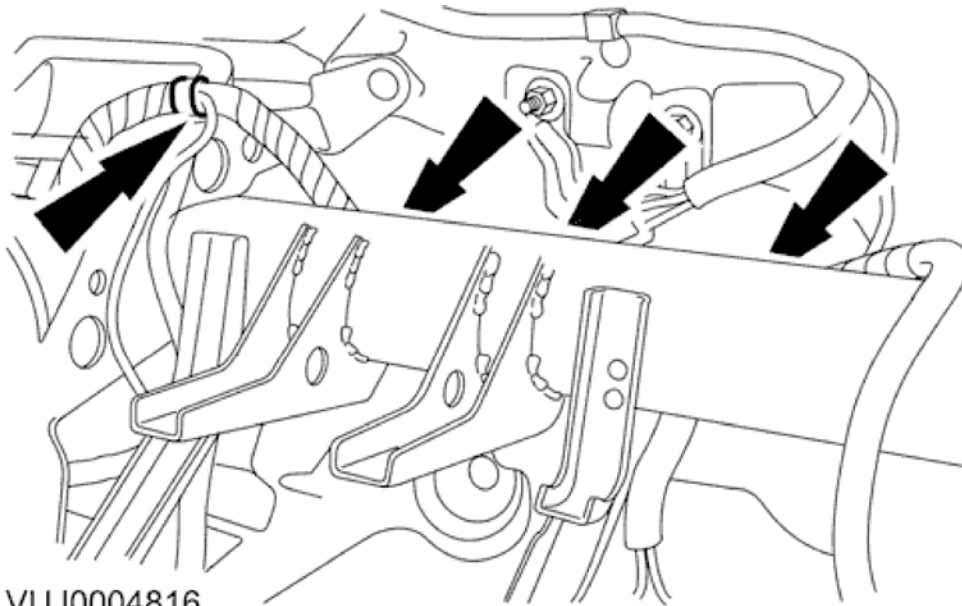
VUJ0004593

18. Disconnect the electrical connector.



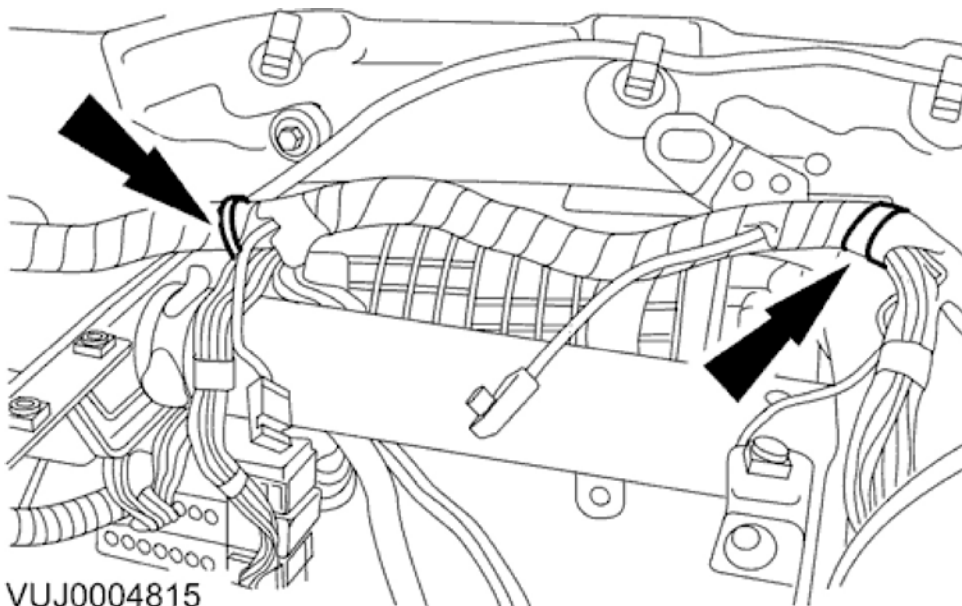
VUJ0004600

19. Disconnect the electrical connectors.



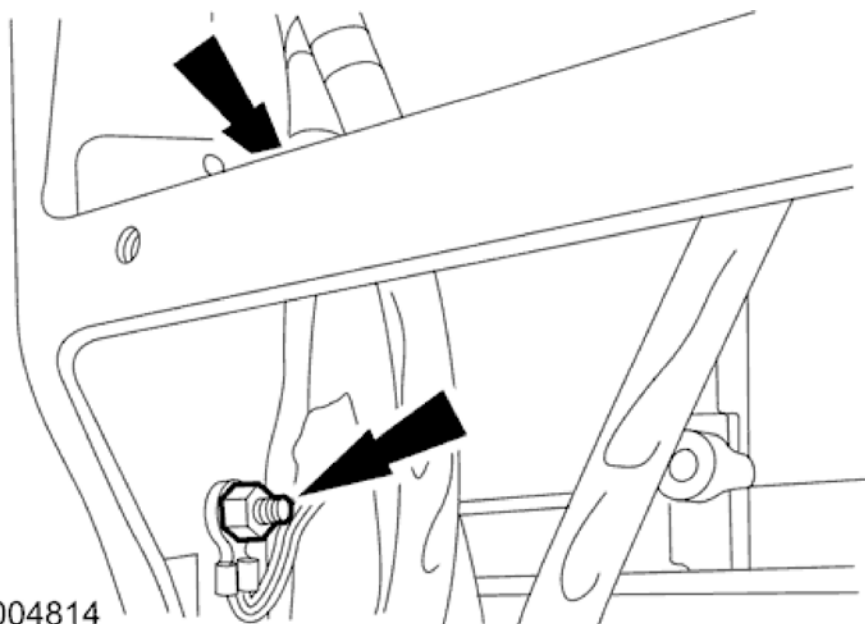
VUJ0004816

20. Detach the wiring harness.



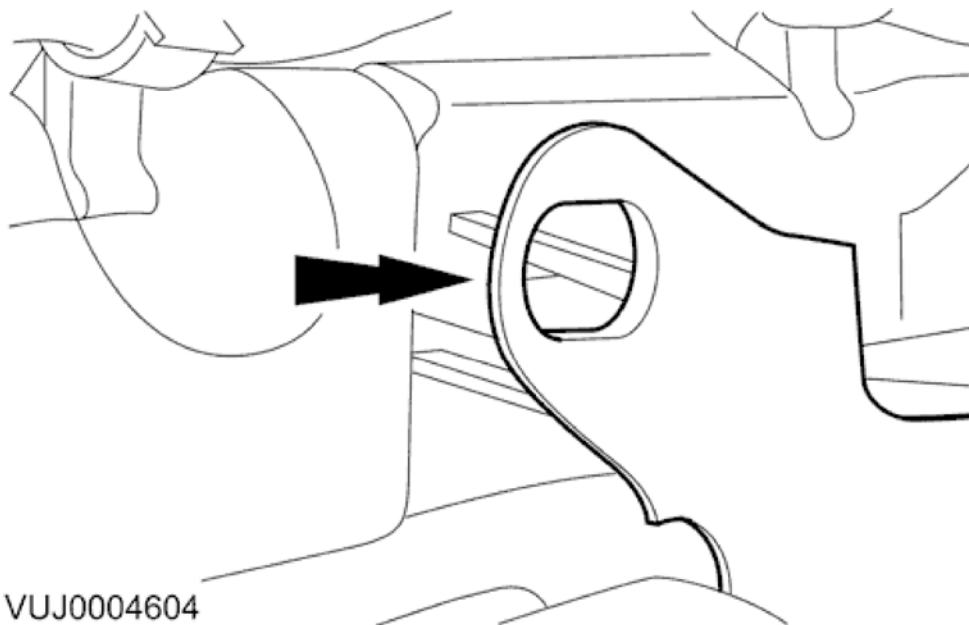
VUJ0004815

21. Detach the wiring harness.



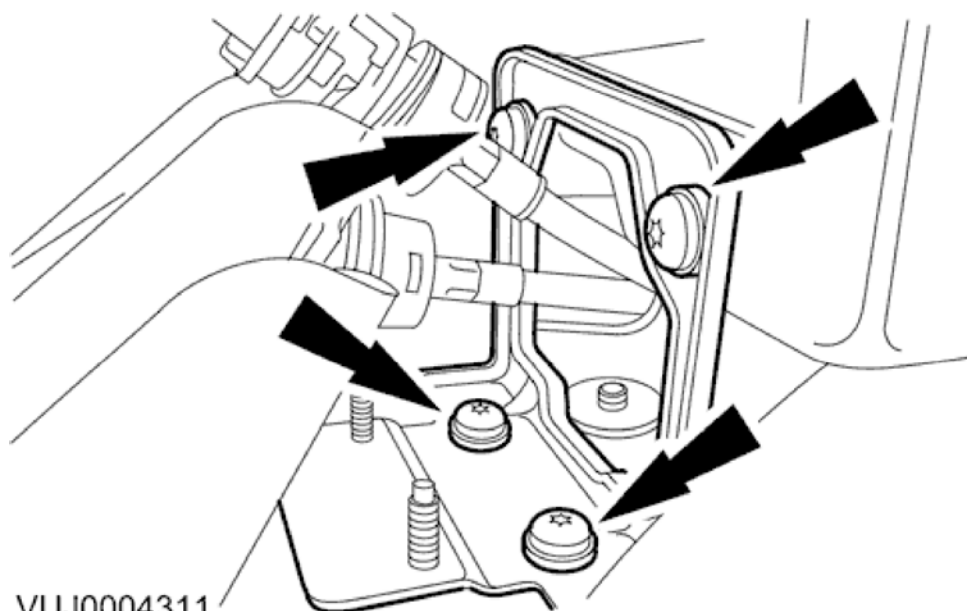
VUJ0004814

22. Detach the wiring harness.
- Remove the earth lead retaining bolt.
 - Detach the wiring harness.



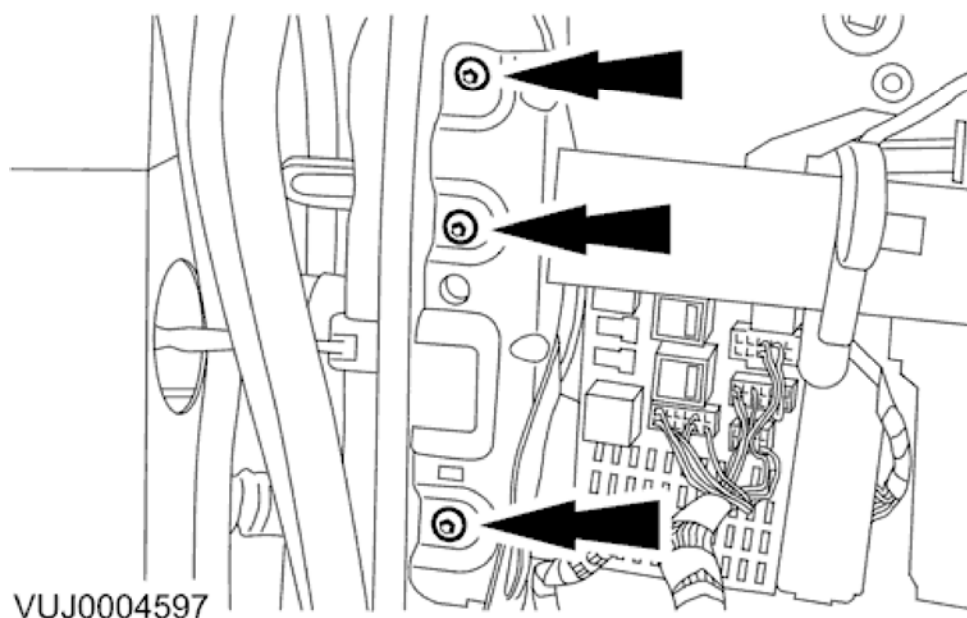
VUJ0004604

23. Using a suitable tool cut the bonding on the in vehicle cross beam.
- Left-hand side shown, right-hand side similar.



VUJ0004311

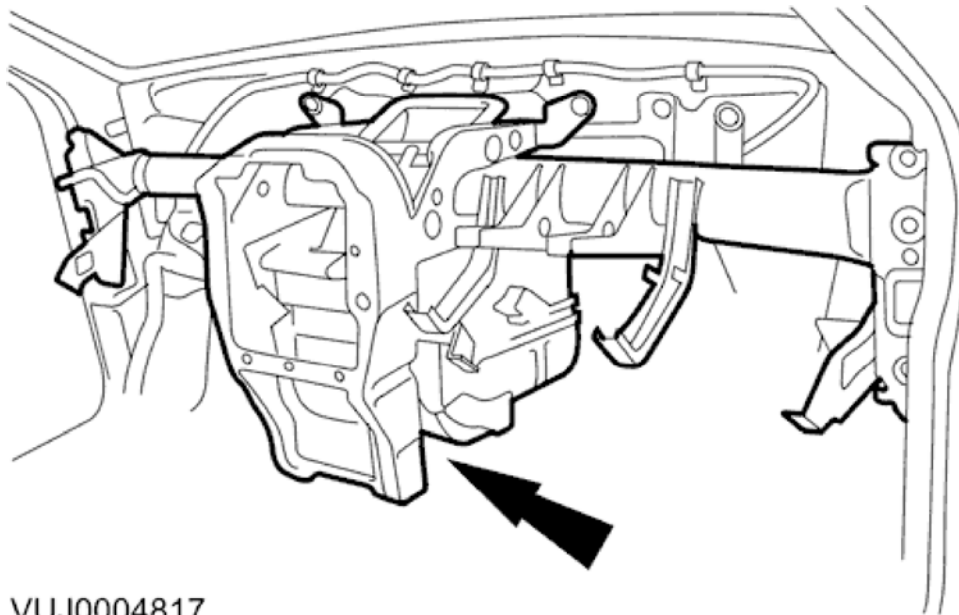
24. Detach the center of the in vehicle cross beam.



VUJ0004597

25. Remove the in vehicle cross beam retaining bolts.

- Left-hand side shown, right-hand side similar.



VUJ0004817

26. Remove the in vehicle cross beam and the evaporator core housing.

Installation

1. **NOTE:**

Remove the PU bonding from the in vehicle cross beam.

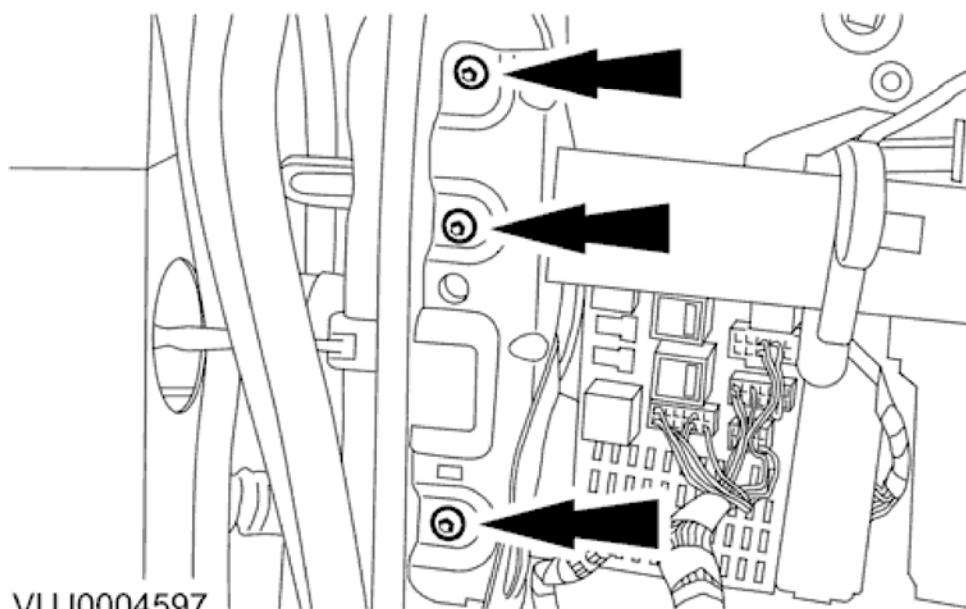
NOTE:

Clean the in vehicle cross beam locator and the vehicle body locating pegs with a solvent wipe, part number WSKM14J251-A1.

NOTE:

Apply the PU bonding, part number WSKM2G379-A1 to the in vehicle cross beam locating pegs.

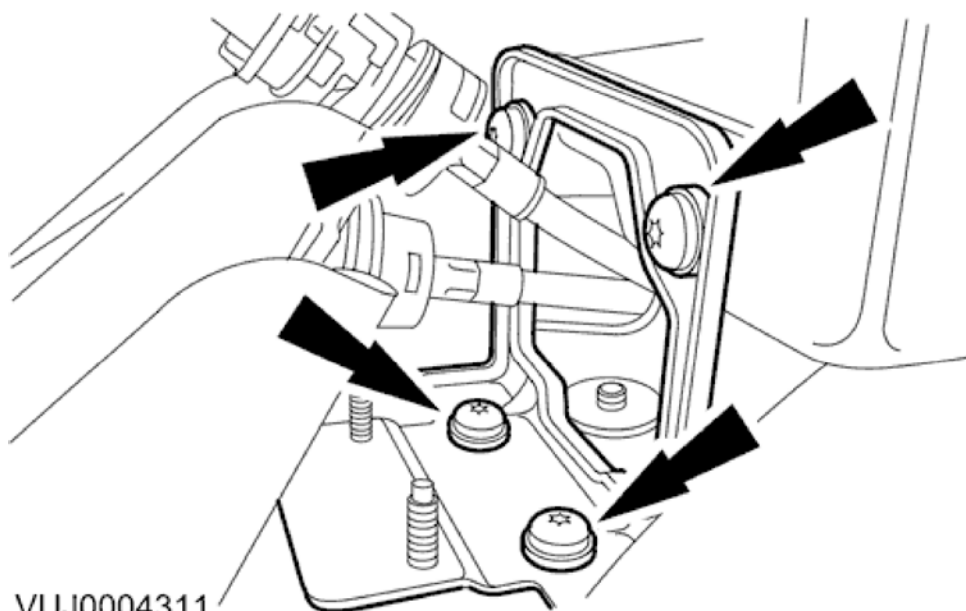
To install, reverse the removal procedure.



VUJ0004597

2. Tighten to 25 Nm.

- Left-hand side shown, right-hand side similar.



VUJ0004311

3. Tighten to 25 Nm.

Heater Core 80.20.29

Removal

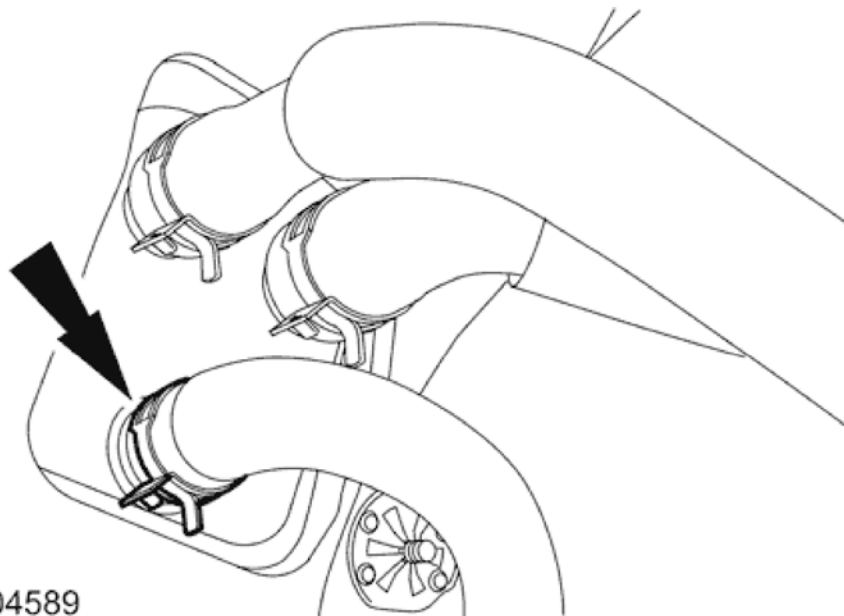
1. **NOTE:**

If a leak is suspected, the heater core must be leak tested in the vehicle before removal. For additional

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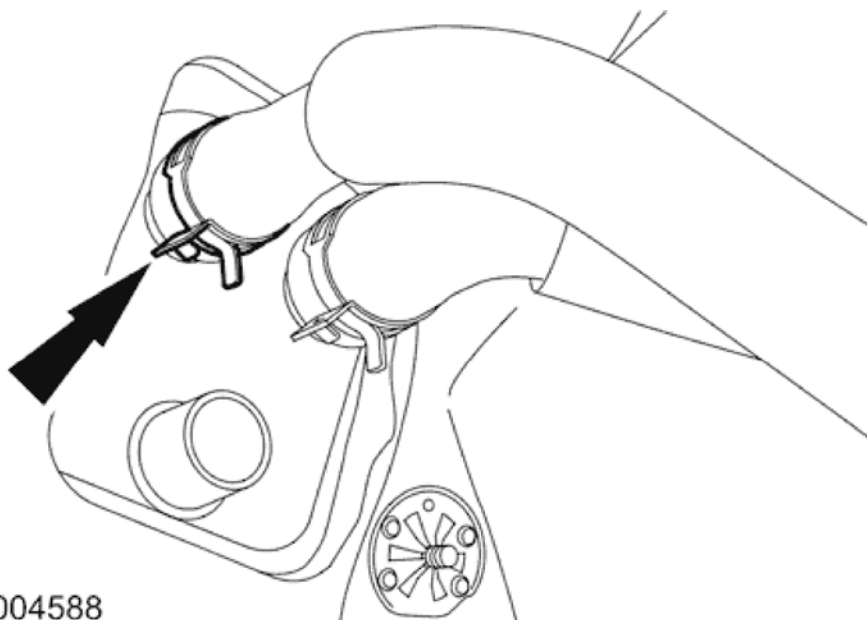
information, refer to <<412-00>>.

Drain the cooling system. For additional information, refer to <<303-03>>.



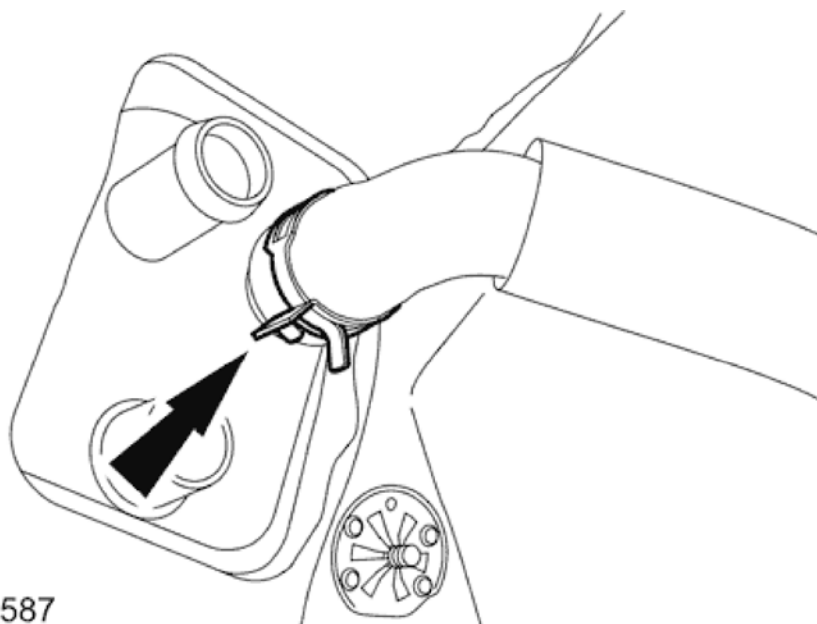
VUJ0004589

2. Disconnect the drain tube from the heater core.



VUJ0004588

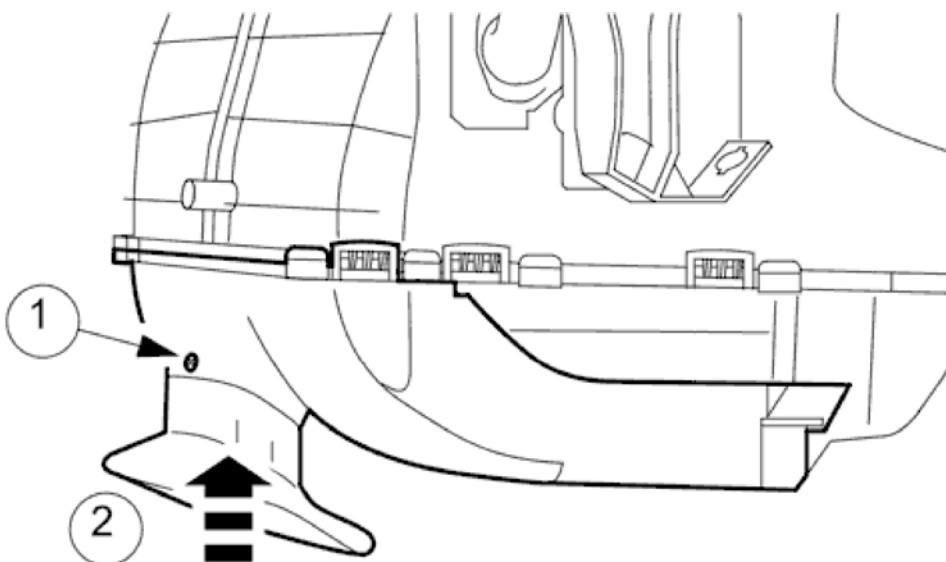
3. Disconnect the heater hose from the heater core.



VUJ0004587

4. Disconnect the heater hose from the heater core.

5. Remove the center console. For additional information, refer to <<501-12>>.



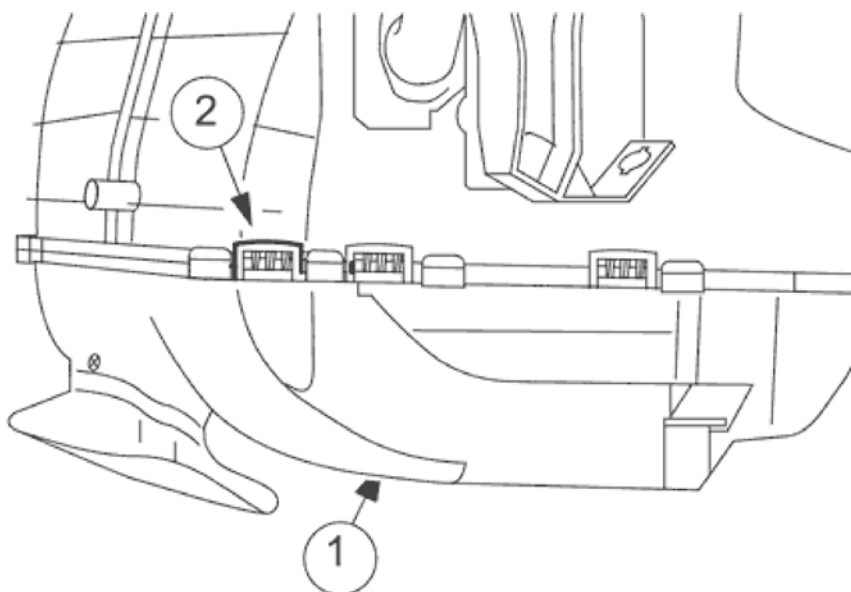
VUJ0004713

6. Position the heater core air duct up.

1. Remove the heater core air duct retaining screw.

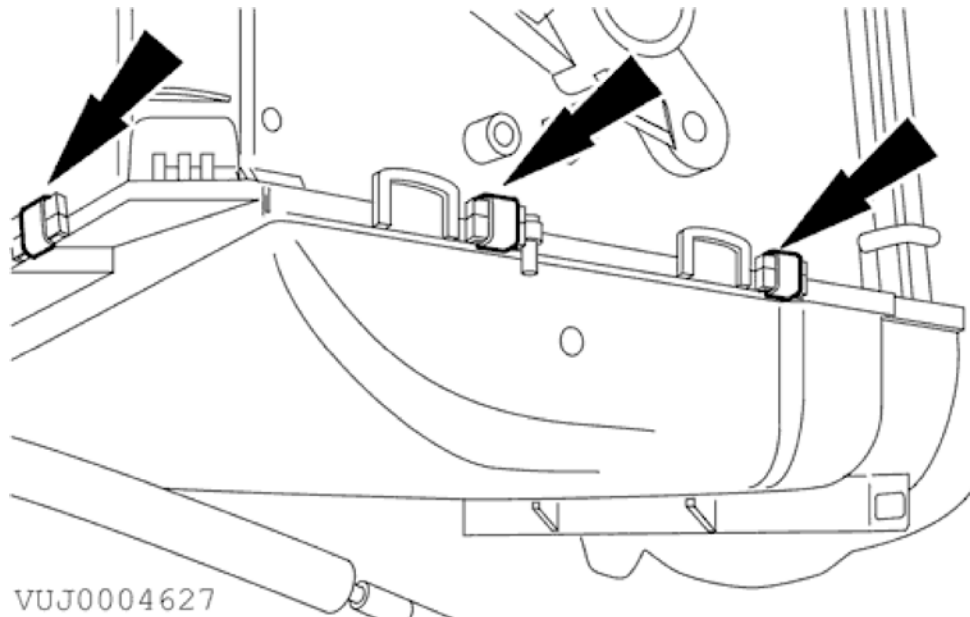
2. Position the heater core air duct up.

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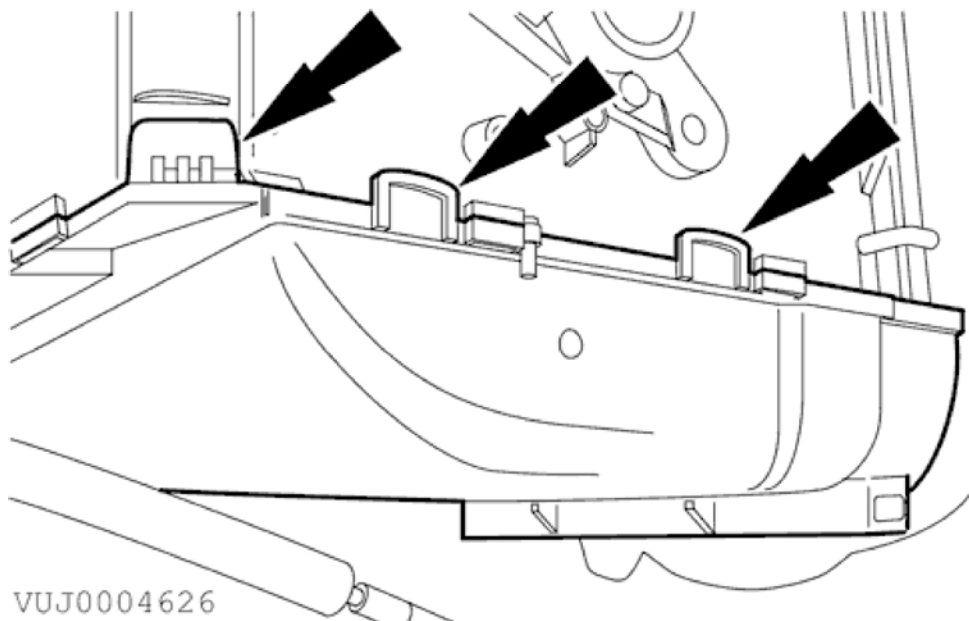
VUJ0004714

7. Remove the heater core air duct housing.
 1. Remove the heater core air duct housing retaining screws.
 2. Remove the heater core air duct housing.
- Release the retaining tabs.
 - Right-hand side shown, left-hand side similar.

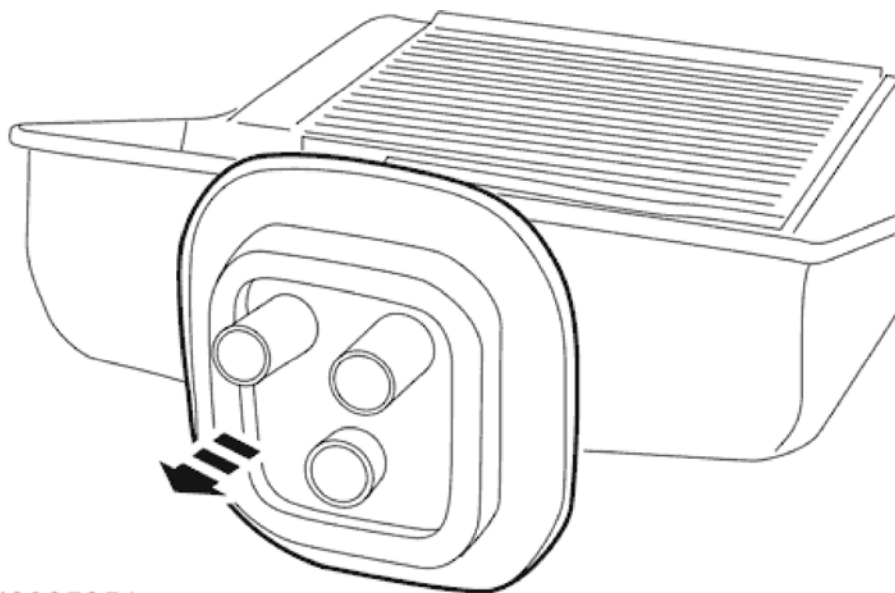


VUJ0004627

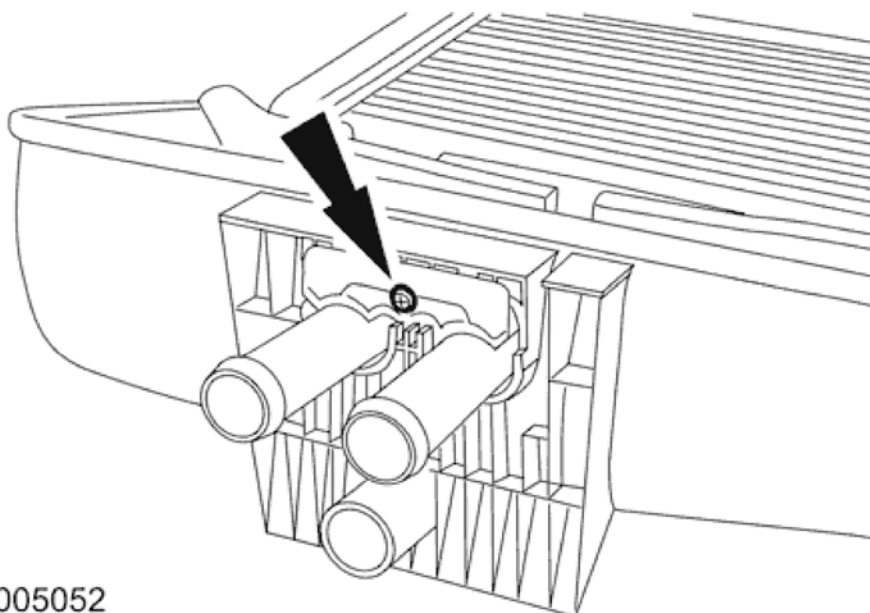
8. Remove the heater core housing retaining clips.
 - Right-hand side shown, left-hand side similar.



9. Remove the heater core housing
- Release the heater core housing retaining tabs.
 - Right-hand side shown, left-hand side similar.

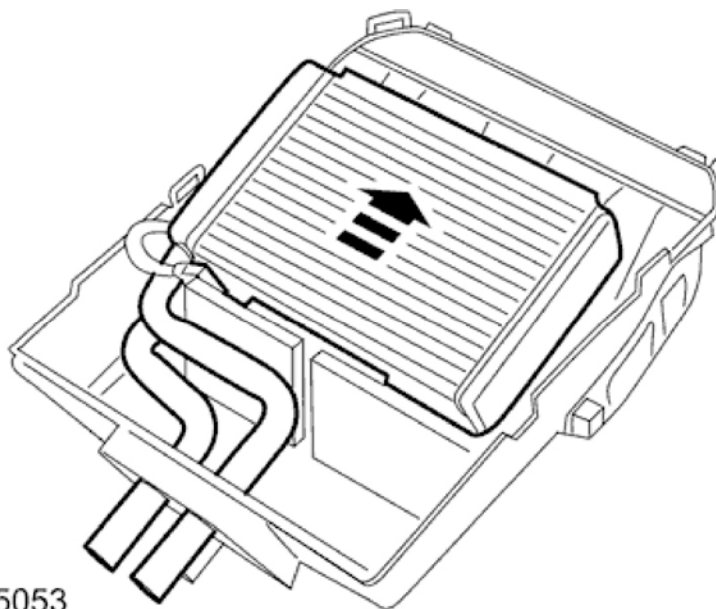


- VUJ0005051
10. Remove the seal.



VUJ0005052

11. Remove the heater core retaining screw.



VUJ0005053

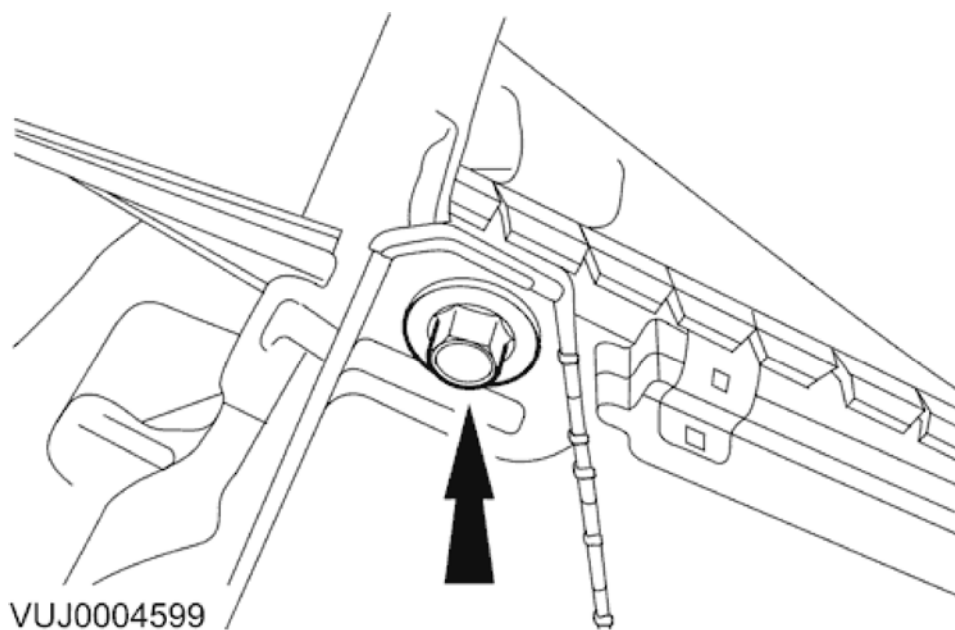
12. Remove the heater core.

Installation

1. To install, reverse the removal procedure.

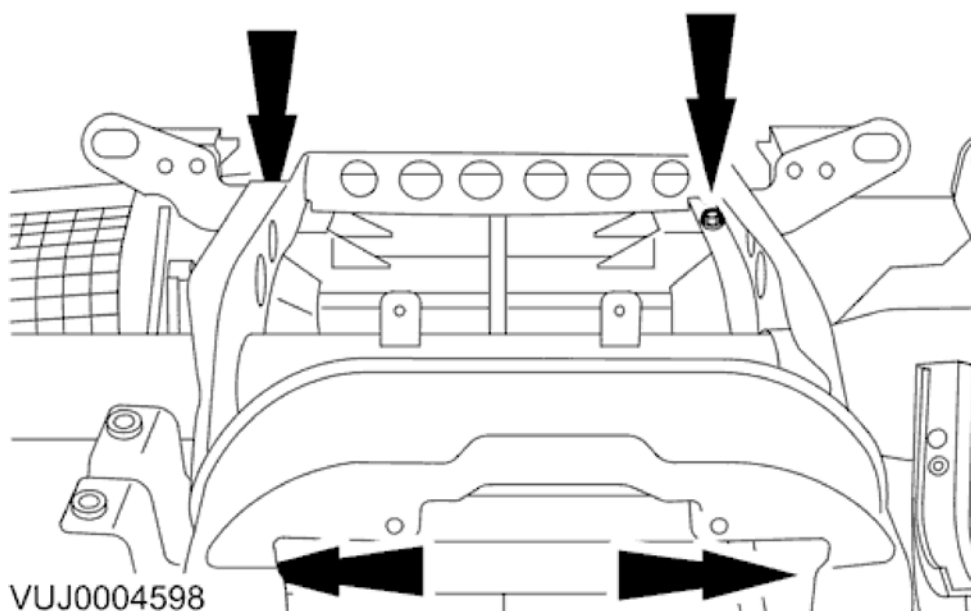
Evaporator Core Housing

1. Remove the evaporator core housing. For additional information, refer to <<Evaporator Core Housing>>.



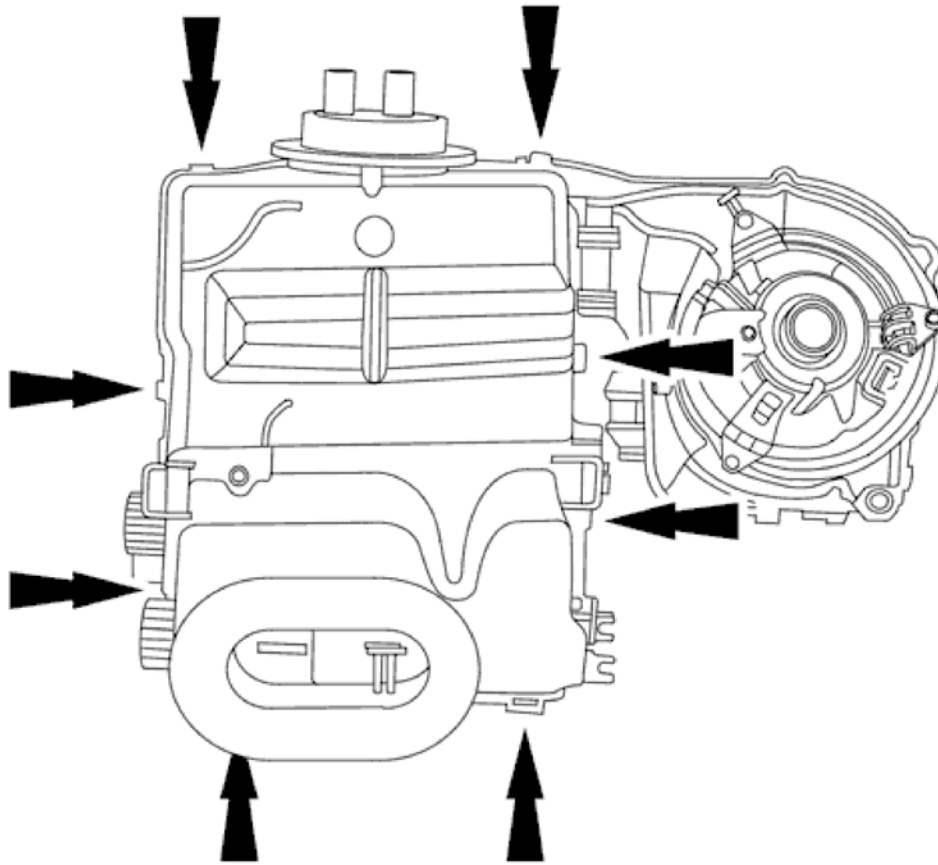
VUJ0004599

2. Detach the blower motor from the in vehicle cross beam..



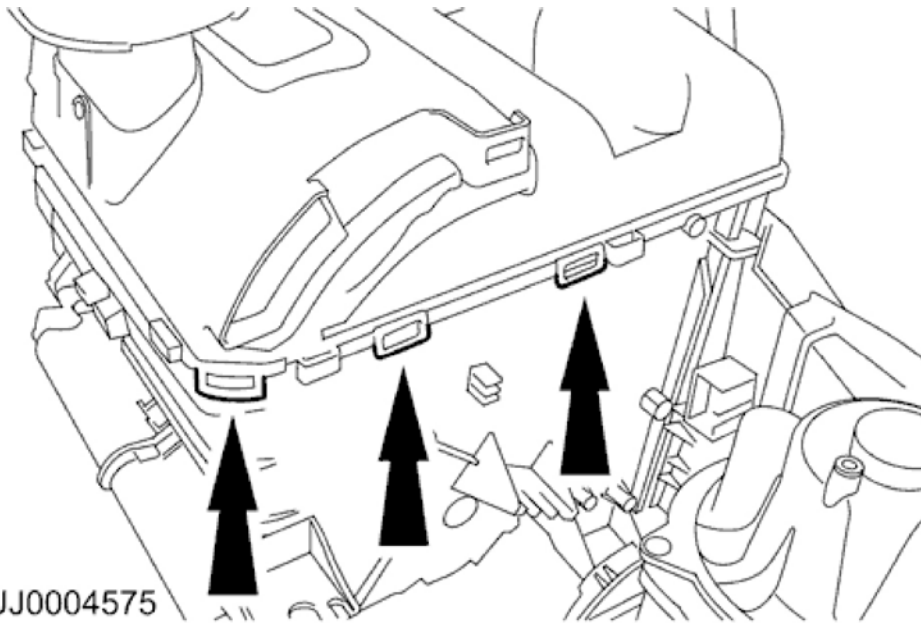
VUJ0004598

3. Remove the evaporator core housing from the in vehicle cross beam.



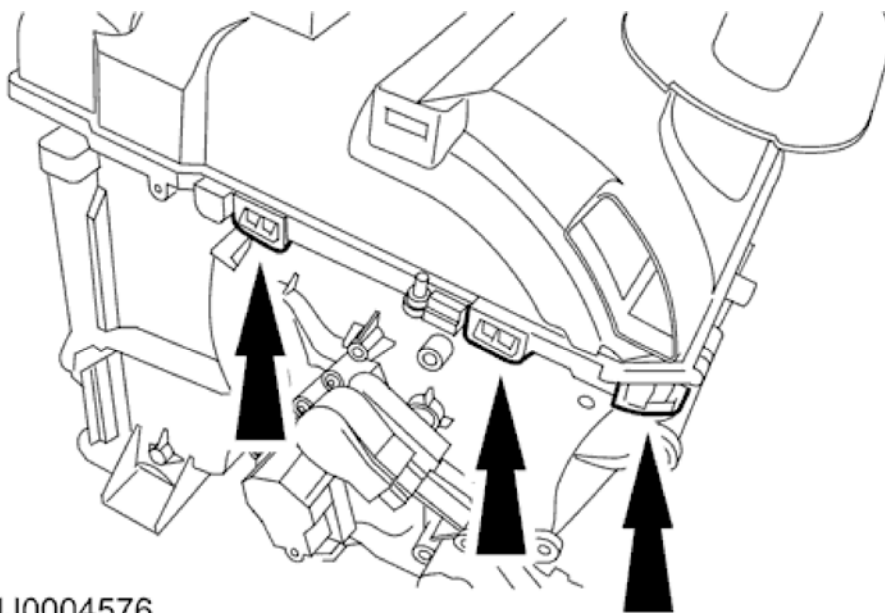
VUJ0004574

4. Remove the heater core retaining clips.



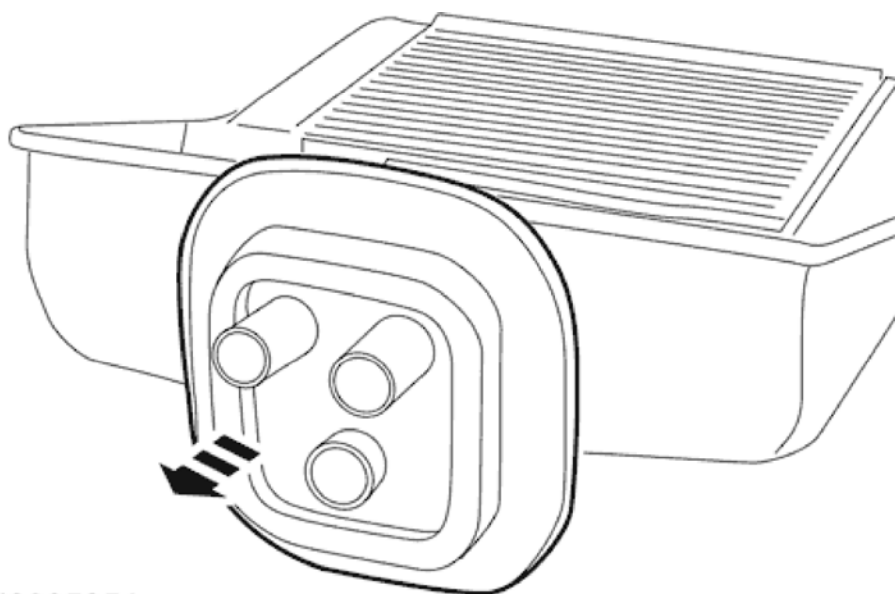
VUJ0004575

5. Release the heater core housing retaining tabs.



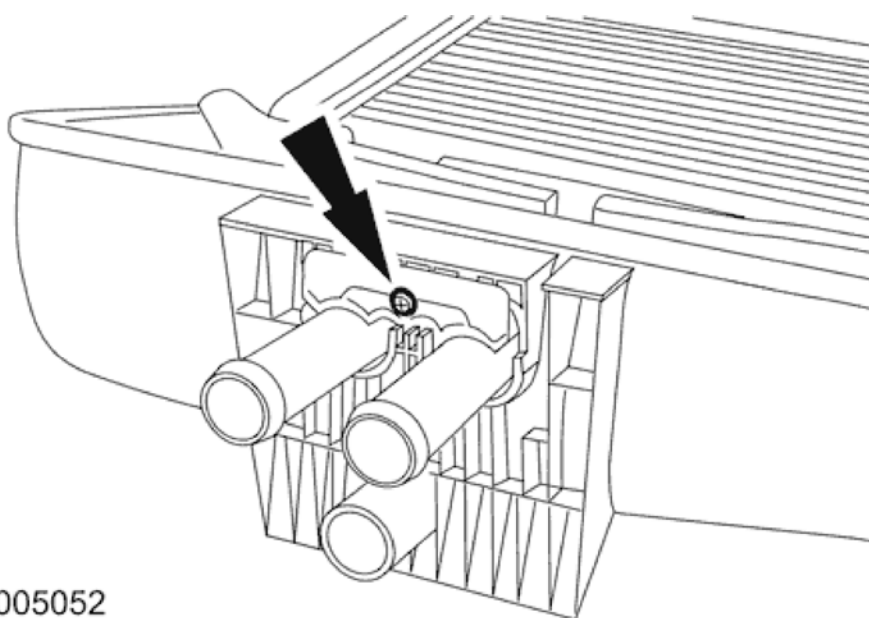
VUJ0004576

6. Remove the heater core housing.



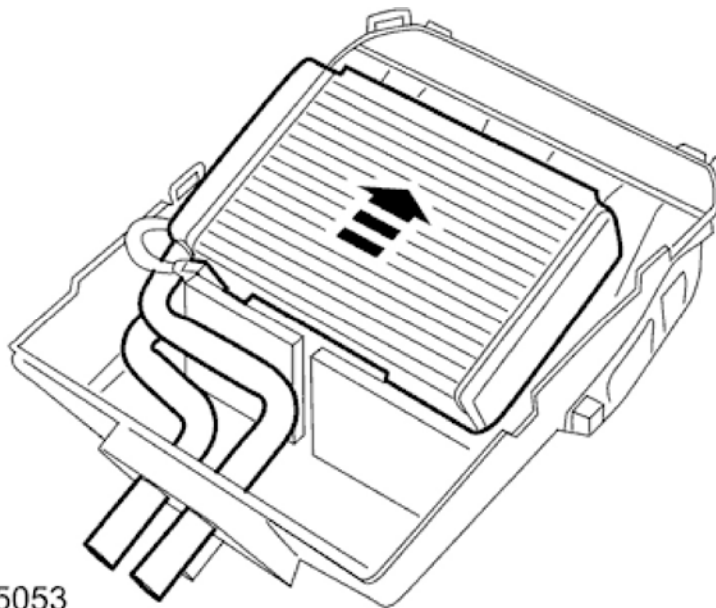
VUJ0005051

7. Remove the rubber seal.



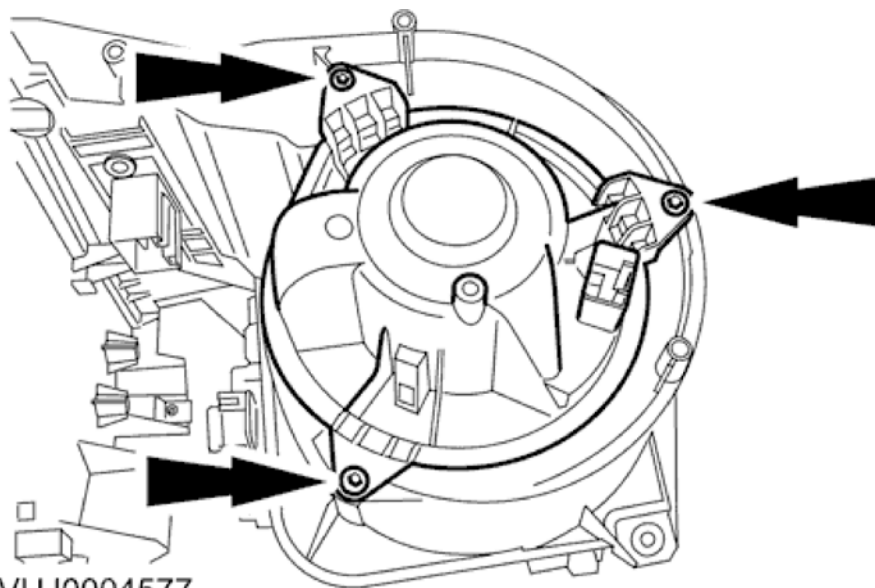
VUJ0005052

8. Remove the heater core retaining bolt.



VUJ0005053

9. Remove the heater core.



VUJ0004577

10. Remove the blower motor.

- Remove the blower motor retaining screws.

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