

Specifications

Lubricant

Item	Specification
Compressor oil	SP-15

Lubricant

Item	Specification
Compressor oil	SP-15
Total system capacity	600g +/- 25g
Compressor	4.56 FL. OZ

System Refrigerant Specification/Capacity

Item	Specification
Refrigerant type	R134A
Total system capacity	600g +/- 25g

General Specification

Item	Description
Compressor:	
Make	Sandan
Type	SD7H15


Torque Specifications

Description	Nm	lb-ft
A/C compressor bolts	48	35
A/C compressor low-pressure and high-pressure pipe bolt	30	22
A/C condenser core low-pressure and high-pressure refrigerant lines	8	6
Condenser core and condenser fan assembly bolts	15	11
Condenser fan bolts	2	1
Condenser core nuts	8	6
A/C receiver drier nuts	8	6
A/C receiver drier low-pressure and high-pressure refrigerant line bolts	8	6
Power steering fluid reservoir nuts	4	3

Air Conditioning (A/C) Compressor (82.10.20)

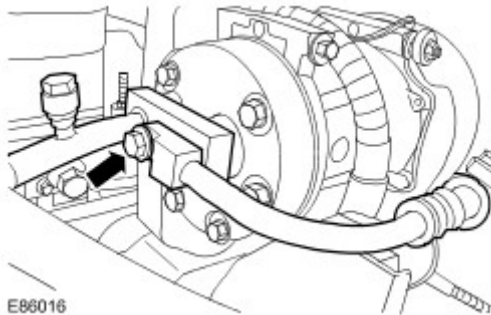
Removal

- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#)
- 2 . Recover the air conditioning (A/C) refrigerant.
For additional information, refer to [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging \(82.30.02\)](#)

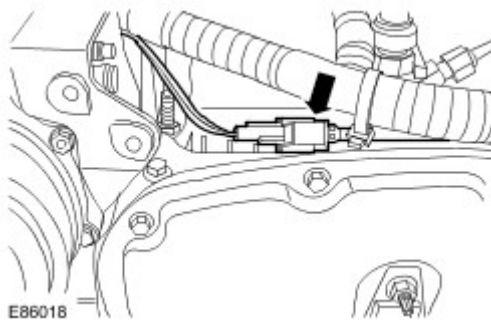
- 3 .  **CAUTION: Make sure that all openings are sealed. Use new blanking caps.**

Disconnect the A/C compressor low-pressure and high-pressure refrigerant lines.

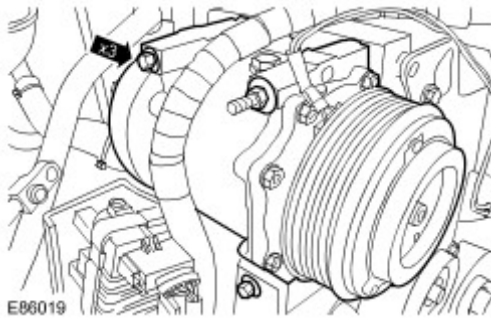
- Remove the bolt.
- Remove and discard the O-ring seal.



- 4 . Remove the accessory drive belt.
For additional information, refer to [Accessory Drive Belt \(86.10.03\)](#)
- 5 . Disconnect the compressor clutch electrical connector.



- 6 . Remove the A/C compressor.
 - Remove the 3 bolts.



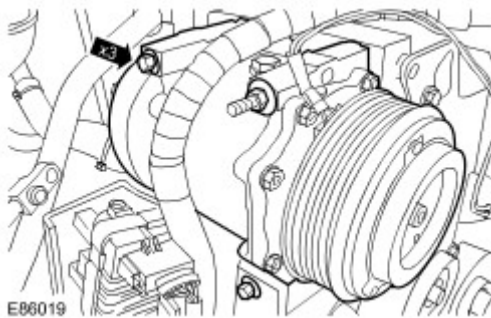
Installation

1 . NOTE:

If a new compressor is being installed, the required amount of refrigerant oil must be drained from it.

To install, reverse the removal procedure.

➤ Tighten to 23 Nm (17 lb.ft).



2 . NOTE:

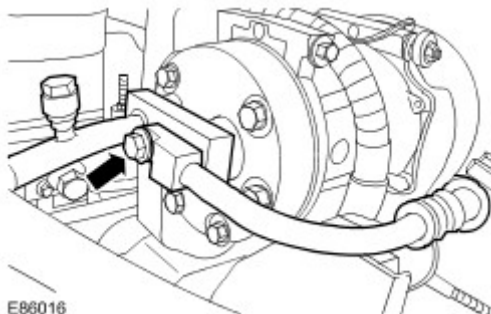
Coat the compressor O-ring seals in clean refrigerant oil prior to installation.

NOTE:

Remove and discard the blanking caps.

Tighten to 30 Nm (22 lb.ft).

➤ Install new O-ring seals.



- 3 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#).

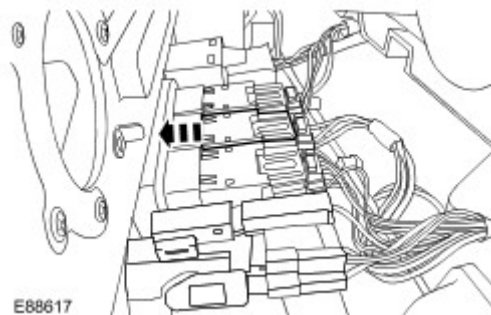
Air Conditioning (A/C) Switch


Removal

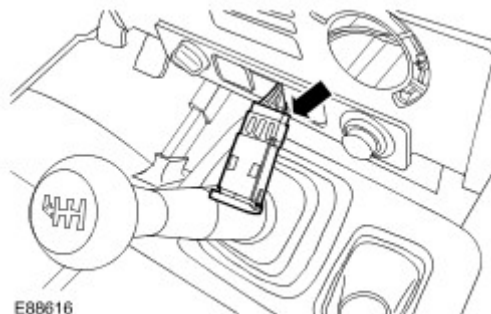
- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#).
- 2 . Remove the audio unit.
For additional information, refer to [Audio Unit \(86.50.81\)](#).
- 3 . Release the instrument panel console.



- 4 . Release the air conditioning (A/C) switch.



- 5 . Remove the A/C switch.
 Disconnect the electrical connector.



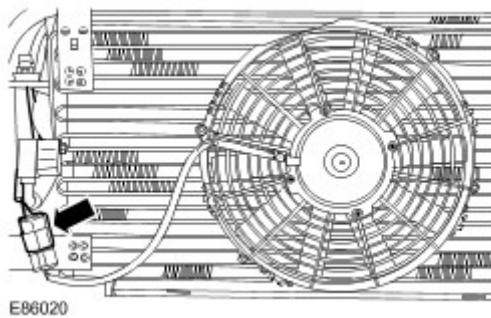
Installation

- 1 . To install, reverse the removal procedure.
- 2 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#).

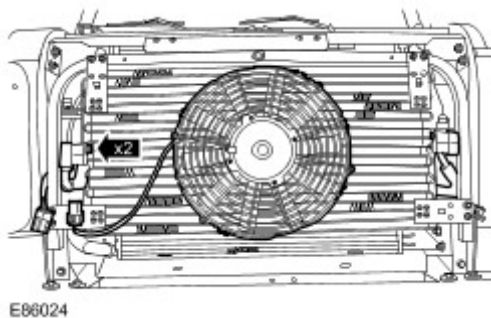
Condenser Core (82.15.07)

Removal

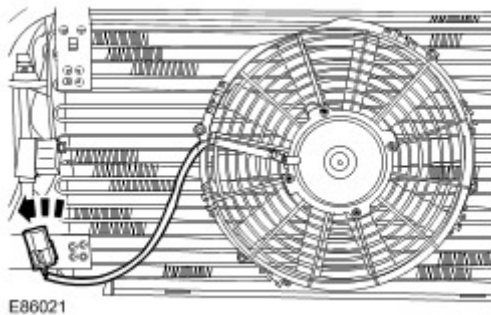
- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#)
- 2 . Recover the air conditioning (A/C) refrigerant.
For additional information, refer to [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging \(82.30.02\)](#)
- 3 . Remove the radiator grille.
For additional information, refer to [Radiator Grille \(76.55.03\)](#)
- 4 . Disconnect the condenser fan electrical connector.



- 5 . Disconnect the A/C condenser core low-pressure and high-pressure refrigerant lines.
 - Remove the 2 bolts.
 - Remove and discard the O-ring seals.

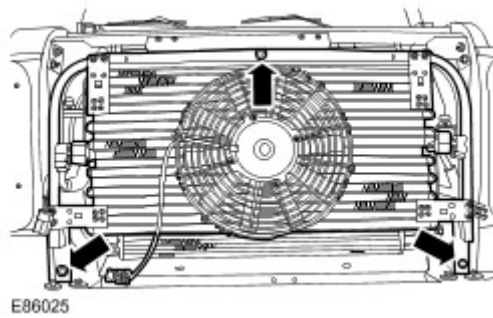


- 6 . Release the condenser fan electrical connector.



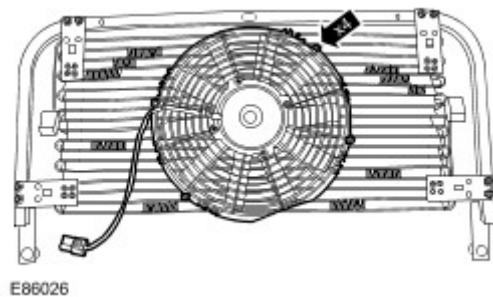
- 7 . Remove the condenser core and condenser fan assembly.

➤ Remove the 3 bolts.



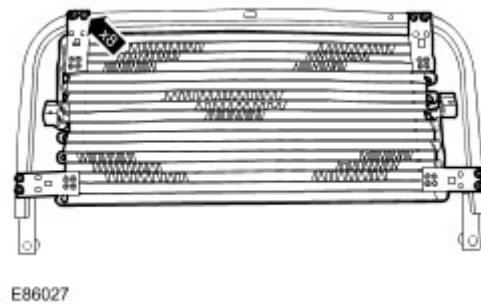
- 8 . Remove the condenser fan.

➤ Remove the 4 bolts.



- 9 . Remove the condenser core.

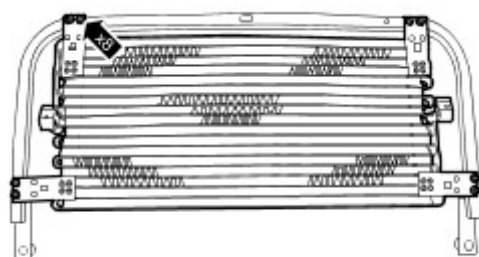
➤ Remove the 8 nuts.



Installation

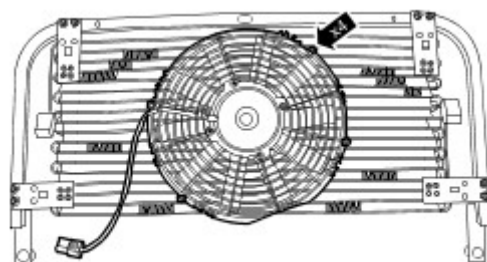
- 1 . To install, reverse the removal procedure.

➤ Tighten to 8 Nm (6 lb.ft).



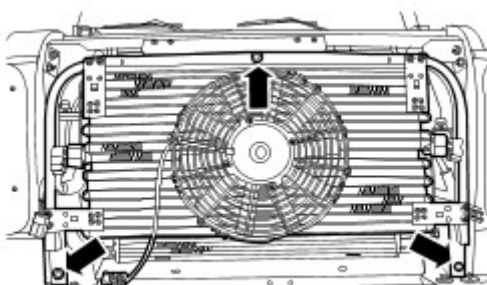
E86027

- 2 . Tighten to 2 Nm (1 lb.ft).



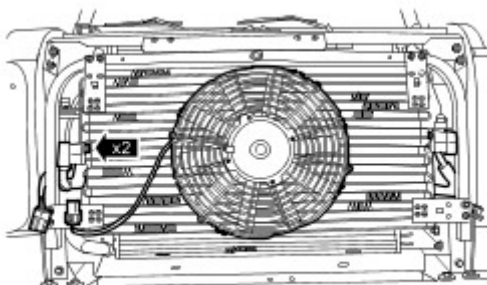
E86026

- 3 . Tighten to 15 Nm (11 lb.ft).



E86025

- 4 . Tighten to 8 Nm (6 lb.ft).



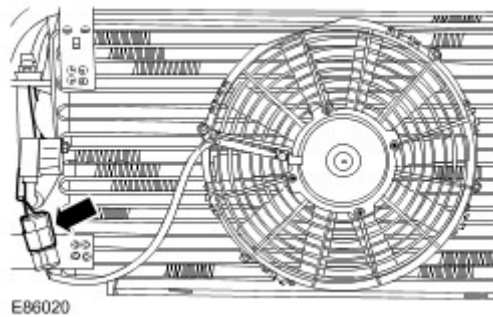
E86024

- 5 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#)

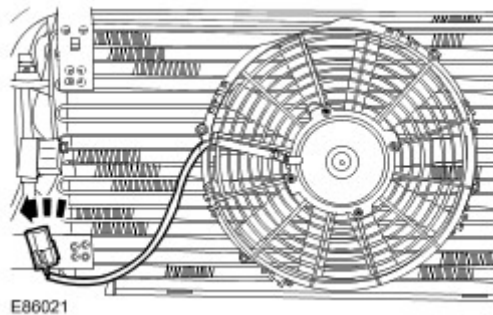
Condenser Fan

Removal

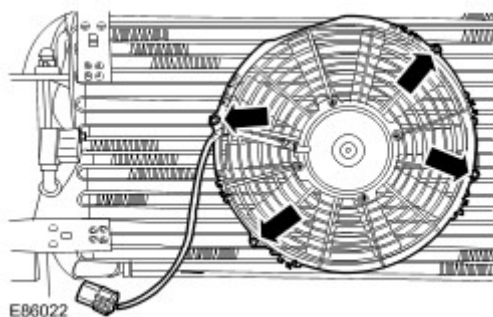
- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#)
- 2 . Remove the radiator grille.
For additional information, refer to [Radiator Grille \(76.55.03\)](#)
- 3 . Disconnect the condenser fan electrical connector.



- 4 . Release the condenser fan electrical connector.




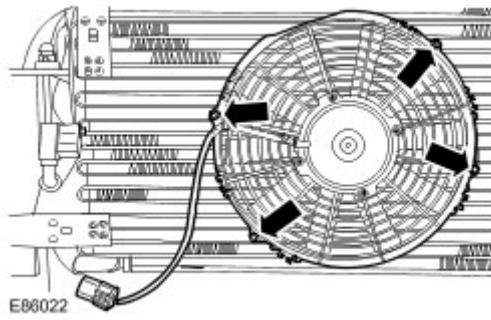
- 5 . Remove the condenser fan.
▶ Remove the 4 bolts.



Installation

- 1 . To install, reverse the removal procedure.

 Tighten to 2 Nm (1 lb.ft).

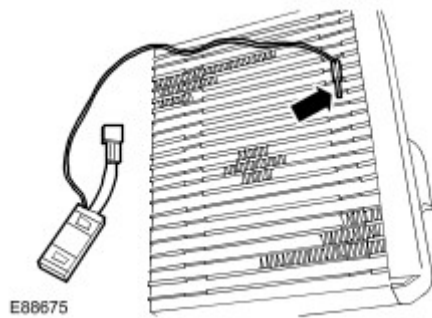


- 2 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#).

De-Icing Switch

Removal

- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#).
- 2 . Remove the evaporator core.
For additional information, refer to [Evaporator Core \(82.25.20\)](#).
- 3 . Remove the de-icing switch from the evaporator core.



Installation

- 1 . To install, reverse the removal procedure.
- 2 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#).

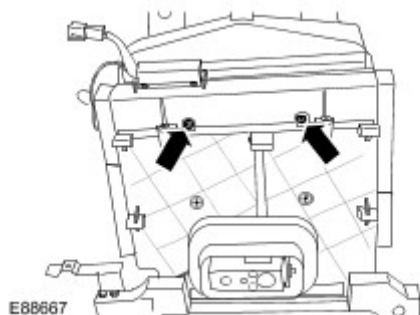
Evaporator Core (82.25.20)

Removal

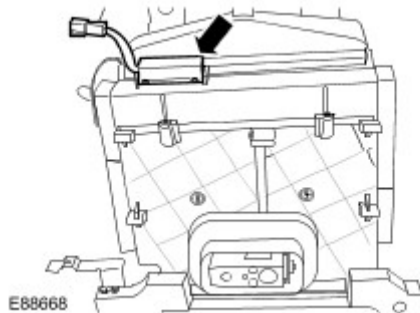
- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#)
- 2 . Remove the heater core.
For additional information, refer to [Heater Core \(80.20.29\)](#)
- 3 . Remove the evaporator core end cover.
▶ Remove the 3 screws.



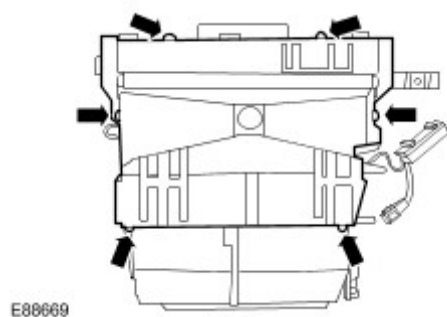
- 4 . Release the evaporator core housing lower cover.
▶ Remove the 2 screws.



- 5 . Release the de-icing sensor.

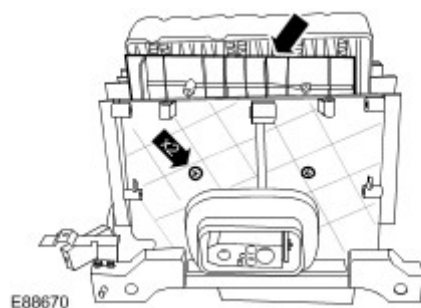


- 6 . Remove the evaporator core housing lower cover.
▶ Remove the 6 screws.

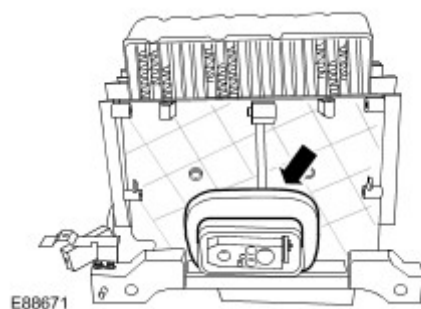


7 . Remove the air flow deflector.

➤ Remove the 2 screws.



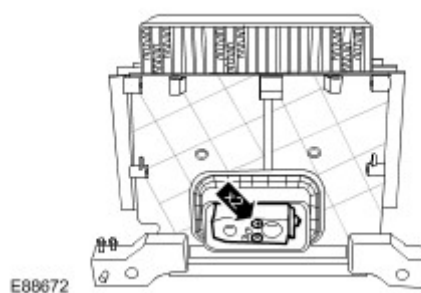
8 . Remove the foam seal.



9 . Remove the thermostatic expansion valve.

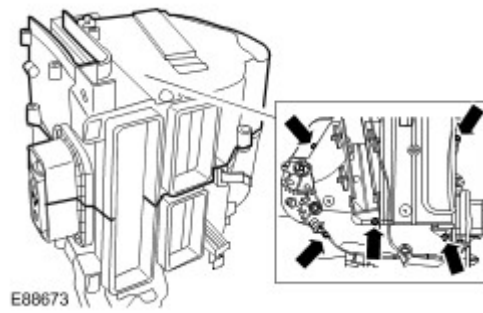
➤ Remove the 2 bolts.

➤ Remove and discard the O-ring seals.

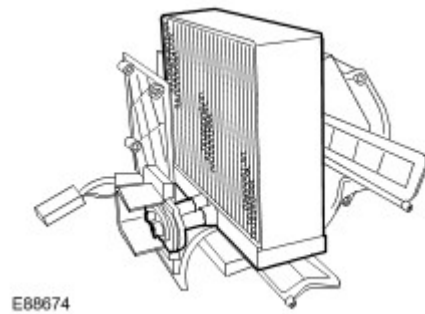


10 . Separate the evaporator core housing.

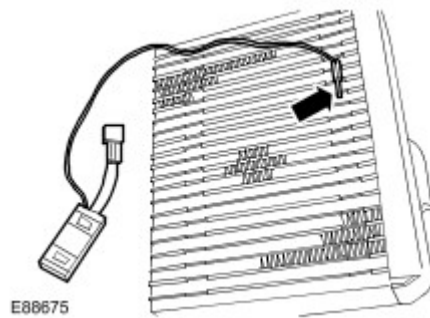
➤ Remove the 5 screws.



11 . Remove the evaporator core.



12 . Remove the de-icing switch from the evaporator core.




Installation

- 1 . To install, reverse the removal procedure.
- 2 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#)

Thermostatic Expansion Valve (82.25.01)

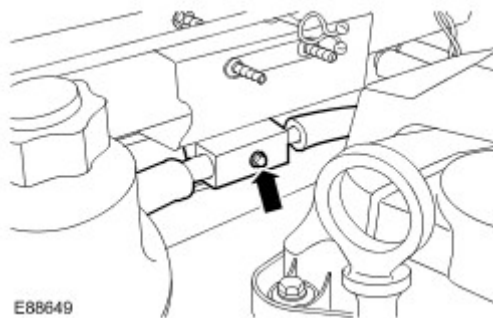
Removal

- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#)
- 2 . Recover the air conditioning (A/C) refrigerant.
For additional information, refer to [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging \(82.30.02\)](#)
- 3 . Remove the engine control module (ECM).
For additional information, refer to [Engine Control Module \(ECM\) \(18.30.03\)](#)

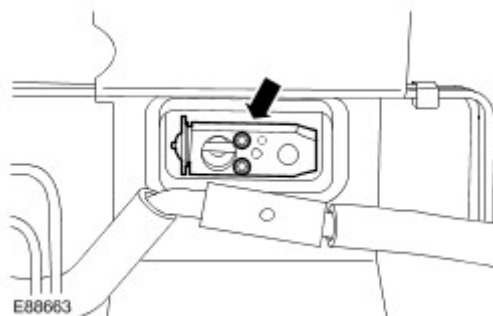
- 4 .  **CAUTION: Make sure that all openings are sealed. Use new blanking caps.**

Release the thermostatic expansion valve manifold and tube assembly.

- Remove the bolt.
- Remove and discard the O-ring seal.



- 5 . Remove the thermostatic expansion valve.
 - Remove the 2 bolts.
 - Remove and discard the O-ring seals.



Installation

- 1 . To install, reverse the removal procedure.
- 2 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#)

Receiver Drier (82.17.03)

Removal

- 1 . Recover the air conditioning (A/C) refrigerant.
For additional information, refer to [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging \(82.30.02\)](#)

- 2 . Release the power steering fluid reservoir.

➤ Remove the 2 nuts.



- 3 .

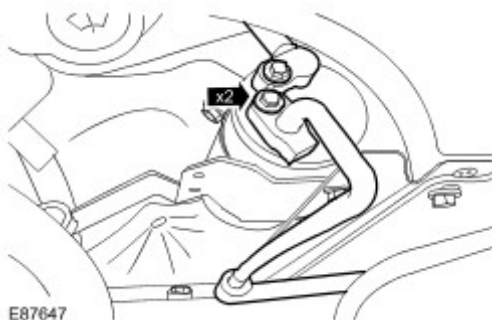


CAUTION: Make sure that all openings are sealed. Use new blanking caps.

Disconnect the A/C receiver drier low-pressure and high-pressure refrigerant lines.

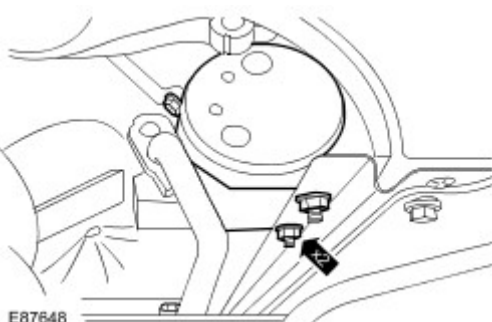
➤ Remove the 2 bolts.

➤ Remove and discard the O-ring seals.



- 4 . Remove the A/C receiver drier.

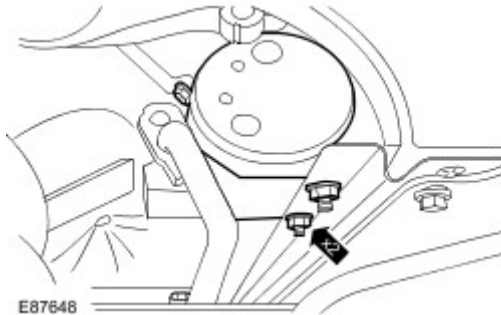
➤ Remove the 2 nuts.



Installation

- 1 . Install the A/C receiver drier.

➤ Tighten to 8 Nm (6 lb.ft).



- 2 . **NOTE:**

Coat the receiver drier O-ring seals in clean refrigerant oil prior to installation.

NOTE:

Remove and discard the blanking caps.

Connect the A/C receiver drier low-pressure and high-pressure refrigerant lines.

➤ Tighten to 8 Nm (6 lb.ft).



- 3 . Secure the power steering fluid reservoir.

➤ Tighten to 4 Nm (3 lb.ft).



- 4 . Refill the air conditioning (A/C) refrigerant.

For additional information, refer to [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging \(82.30.02\)](#)