



# Technical Journal

TITLE:

**Climate system, unusual noise from dashboard area**

<b>REF NO:</b> TJ 32267.1.0	<b>ISSUING DEPARTMENT:</b> Technical Service	<b>CAR MARKET:</b> United States and Canada	
<b>PARTNER:</b> 3 US 7510 Volvo Car USA		<b>ISSUE DATE:</b> 2017-03-20	<b>STATUS DATE:</b> 2017-03-23
<b>FUNC GROUP:</b> 8730	<b>FUNC DESC:</b> Climate unit	Page 1 of 19	

“Right first time in Time”

## Attachment

File Name	File Size
<a href="#">Chirping noise.mp4</a>	4.8272 MB
<a href="#">Noise.MOV</a>	1.9347 MB
TJ 32267.pdf	19.7758 MB

## Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
234							2017-2018		0000350-0999999	201617-999952
235							2017-2018		0000160-0999999	201624-999952
236							2017-2018		0000098-0999999	201646-999952
256							2016-2018		0000561-0999999	201505-999952

## CSC Customer Symptom Codes

Code	Description
D5	Climate control system/Unusual noise

## VST Operation Number

VST Operation Number	Description
98656-2	Heater exchanger replace, acc to TJ32267



**DTC** Diagnostic Trouble Codes

## **Text**

### **DESCRIPTION:**

Unusual noise described as a chirping noise may be heard coming from dashboard upper mid area. Normally it can be heard when the engine is cold and the engine revs between idle and 2500rpm. This is due to some small air bubbles in the upper part of the heater core. New and improved heater core will be introduced in production from approx. 2017w22.

### **SERVICE:**

In case of customer complaints, replace the heater core according to the attached instruction.

### **VEHICLE REPORT:**

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect. Use concern area "Vehicle Report" and sub concern area "Support not needed", use function group 8730.

**To view TJ attachments continue to next page. This TJ has one attachment and two sound files.**



## Volvo Car Customer Service

TJ 32267

<b>Title</b>	Heat exchanger	<b>Page</b>	1 ( 17 )
<b>Action</b>	Product fix	<b>Operation number:</b>	98656-2

### Affected vehicles

Model year	Model	Steering
2017	S90 (17-)	L.H.D
2017	V90 (17-)	L.H.D
2017	V90 Cross Country	L.H.D
2016, 2017	XC90 (16-)	L.H.D

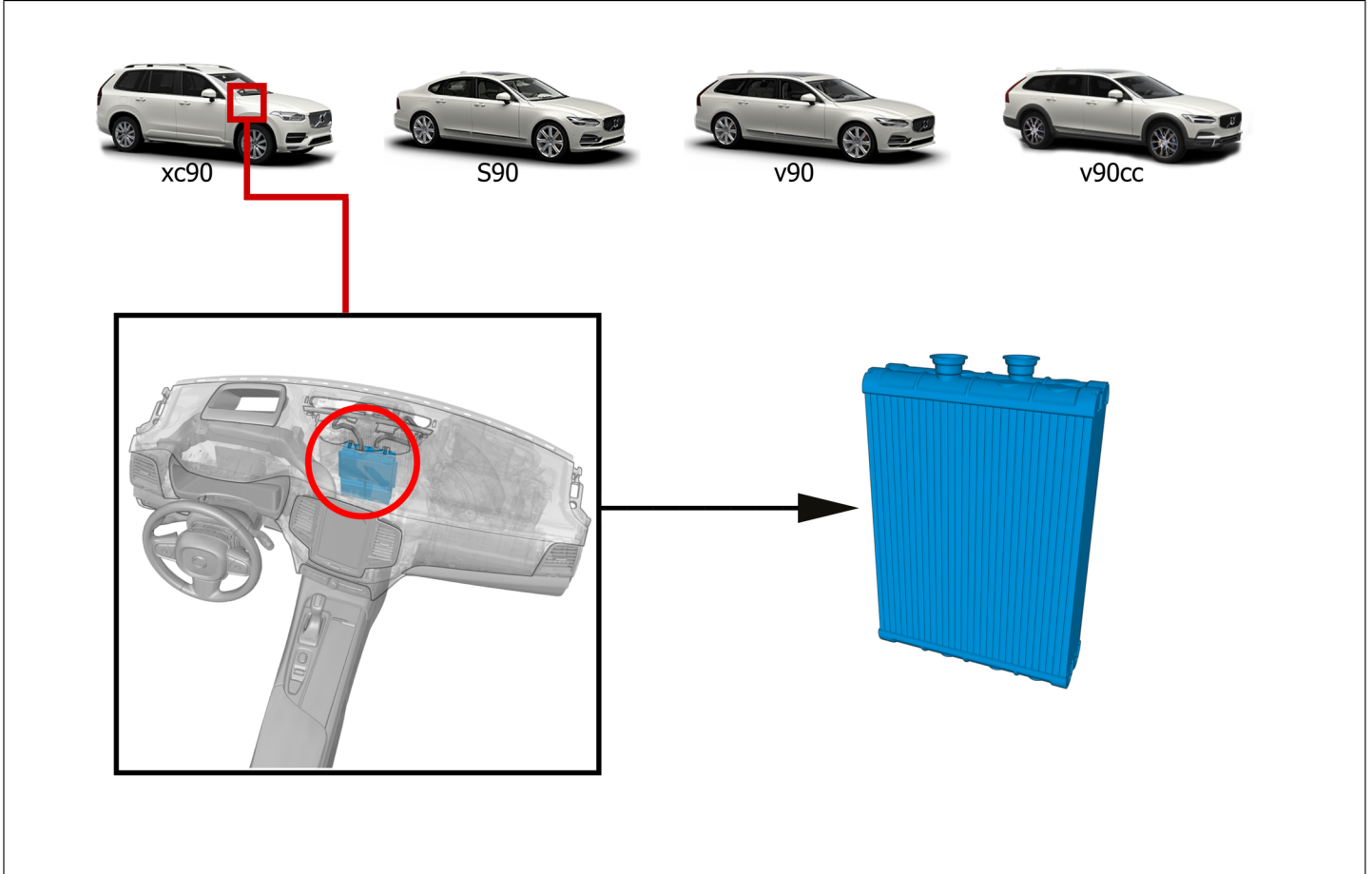
### Materials

Materials	Qty.	Part No.	Notes
Clamp	2.0	31404836	
O-ring	2.0	8693268	
Heat exchanger	1.0	31694082	

### Equipment

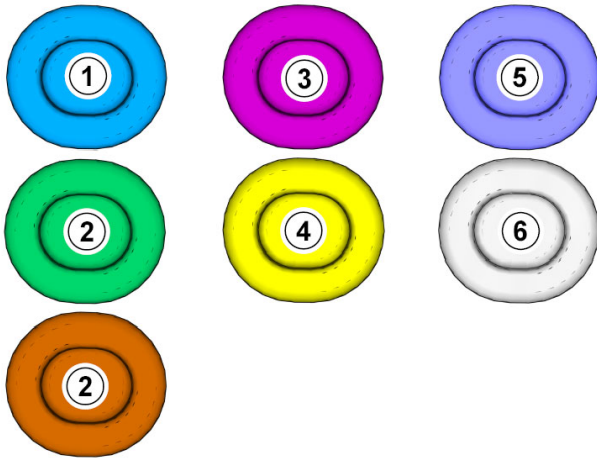
Designation	Part No.
Electrician's screwdriver	
Tape measure	
File	

### Removal





### Color symbols



**Note! This colour chart displays (in colour print and electronic version) the importance of the different colours used in the images of the method steps.**

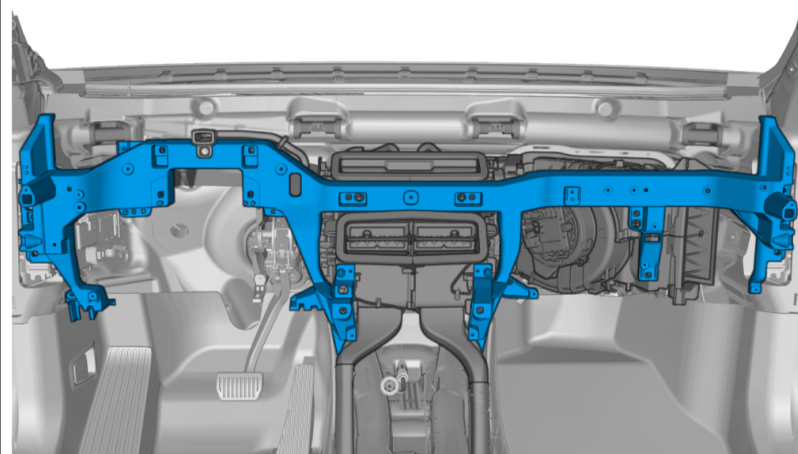
- 1 . Used for focused component, the component with which you will do something.
- 2 . Used as extra colors when you need to show or differentiate additional parts.
- 3 . Used for attachments that are to be removed/installed. May be screws, clips, connectors, etc.
- 4 . Used when the component is not fully removed from the vehicle but only hung to the side.
- 5 . Used for standard tools and special tools.
- 6 . Used as background color for vehicle components.

Drain cooling system, draining, filling, and bleeding , refer to:

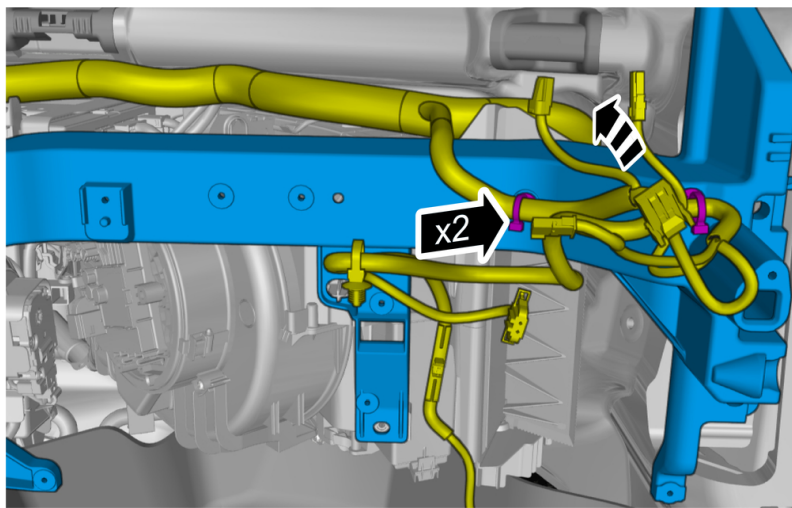
- Cleaning, Inspection and Adjustment
- 2 - Engine with mountings and equipment
- 26 - Cooling system
- 261 - radiator and connections

Remove the dashboard , refer to:

- Removal, replacement and installation
- 8 - Body and interior
- 88 - Interior equipment
- 881 - instrument and radio panel

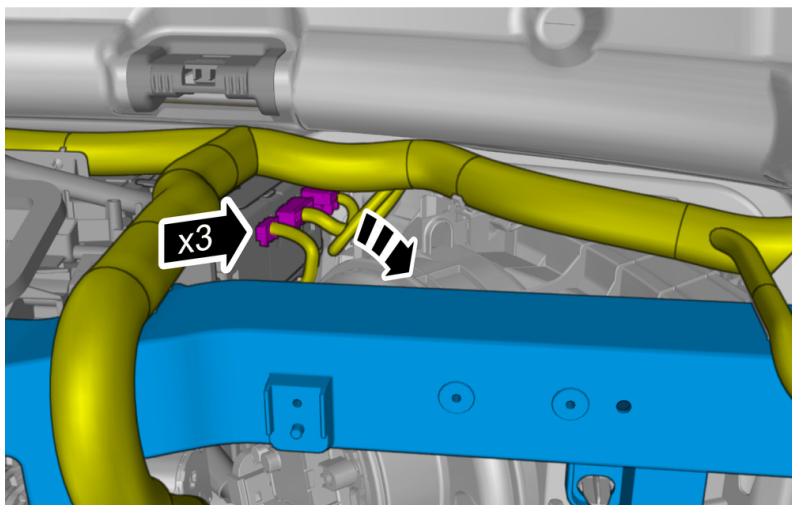


**Note! Orientation view**

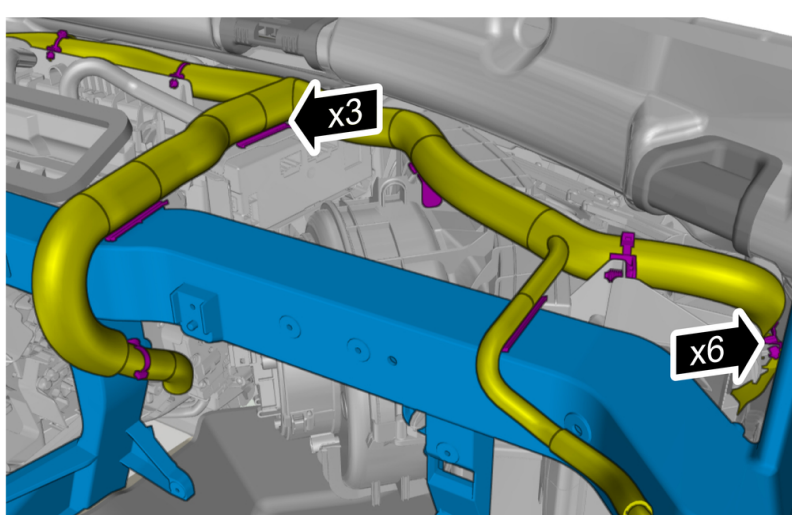


**Caution! The number of connectors, cables and cable ties may vary depending on the vehicle specification.**

Remove the cable harness clips.  
Fold marked part to one side.

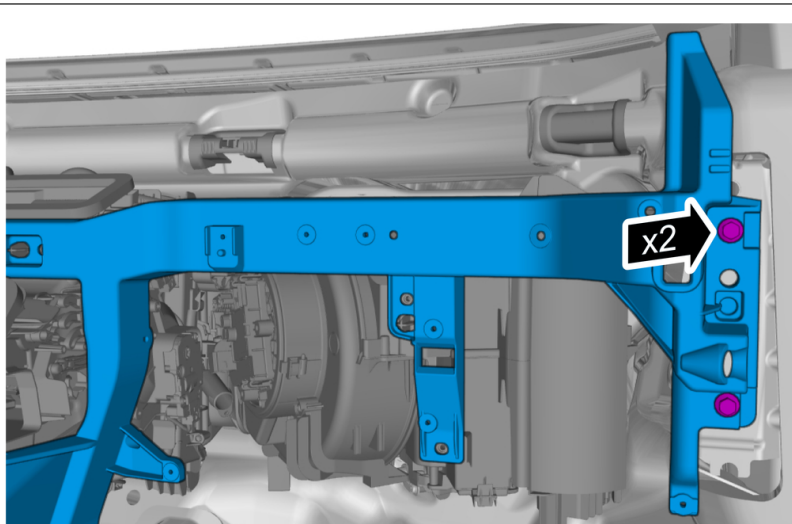


Disconnect the connectors.



**Caution!** The number of connectors, cables and cable ties may vary depending on the vehicle specification.

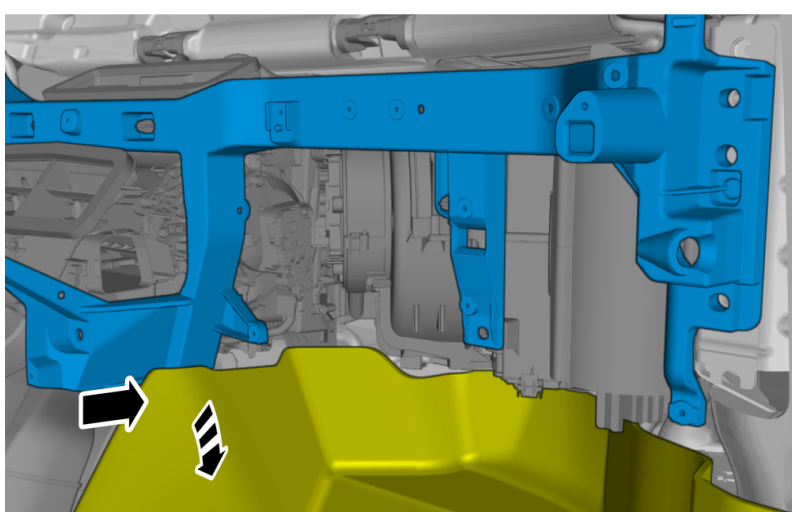
Remove the cable harness clips.



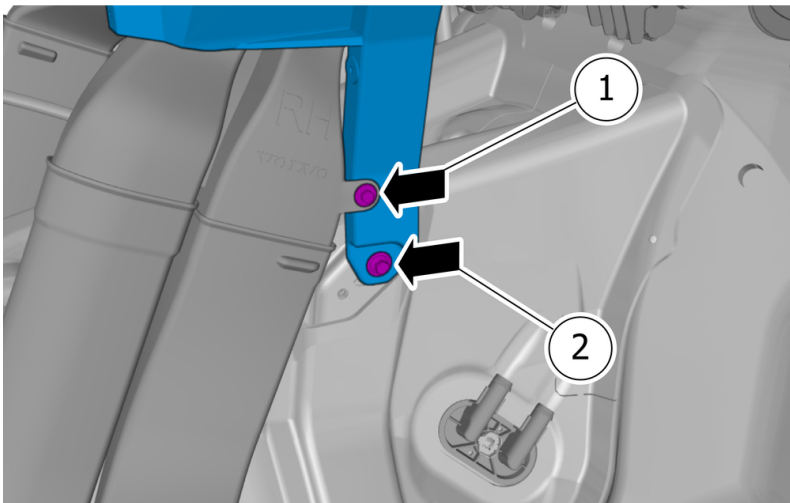
Remove the screws.

**Torque:**

M8 , 24 Nm

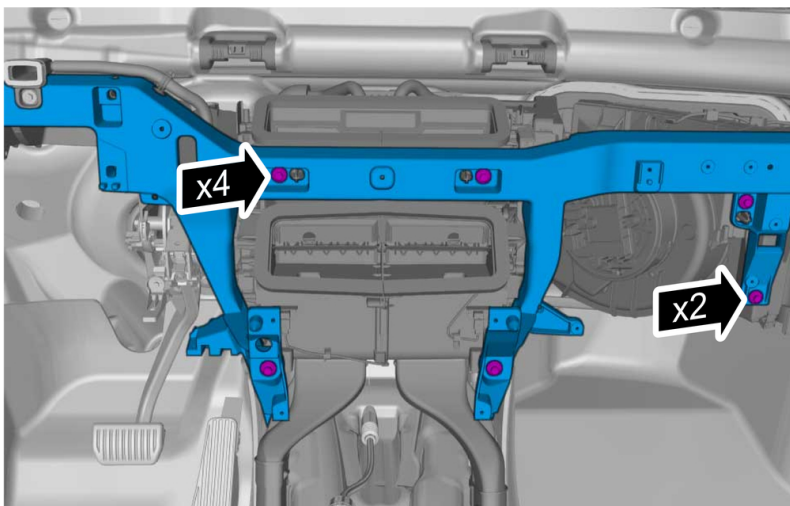


Detach and fold back the floor covering.



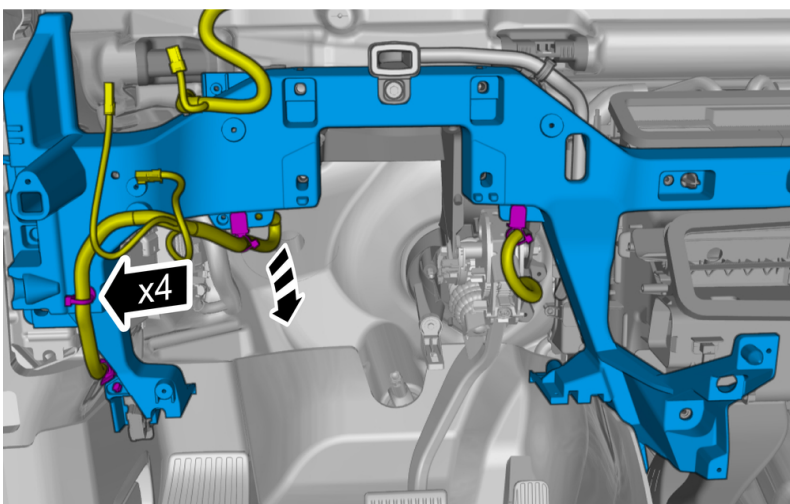
Remove the screws.

- 1 · **Torque:**  
M5 , 5 Nm
- 2 · **Torque:**  
Cross member, to Body , 10 Nm



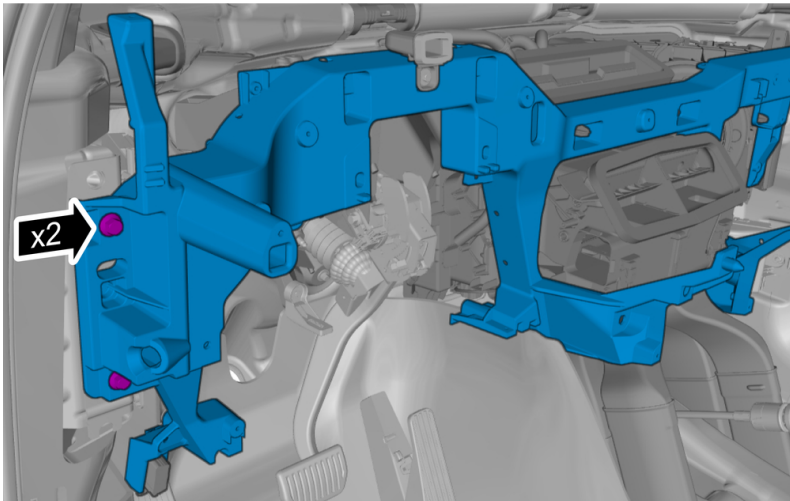
Remove the screws.

**Torque:**  
Cross member, to Climate unit , 7 Nm



**Caution! The number of connectors, cables and cable ties may vary depending on the vehicle specification.**

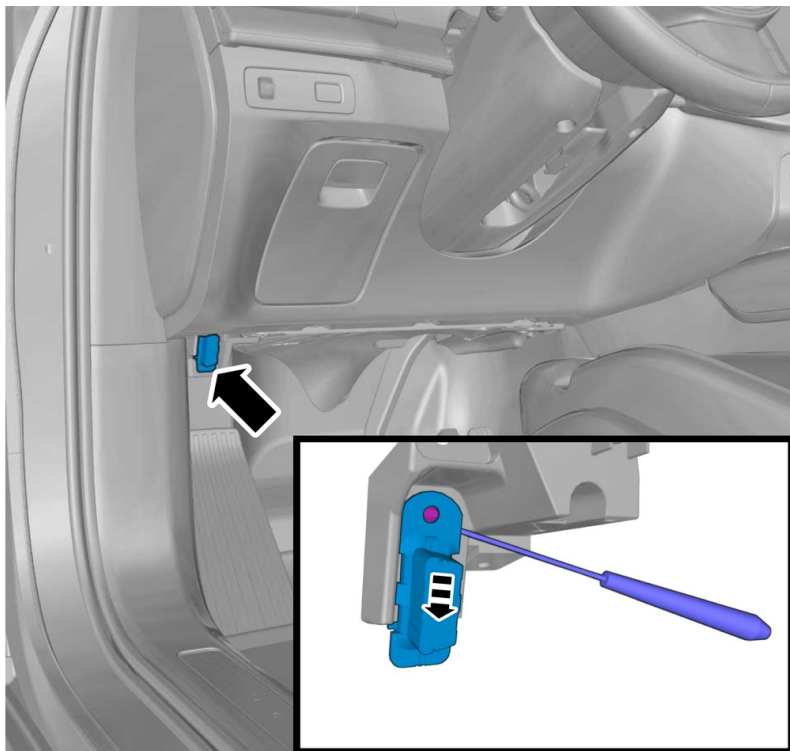
Remove the cable harness clips.  
Fold marked part to one side.



Remove the screws.

**Torque:**

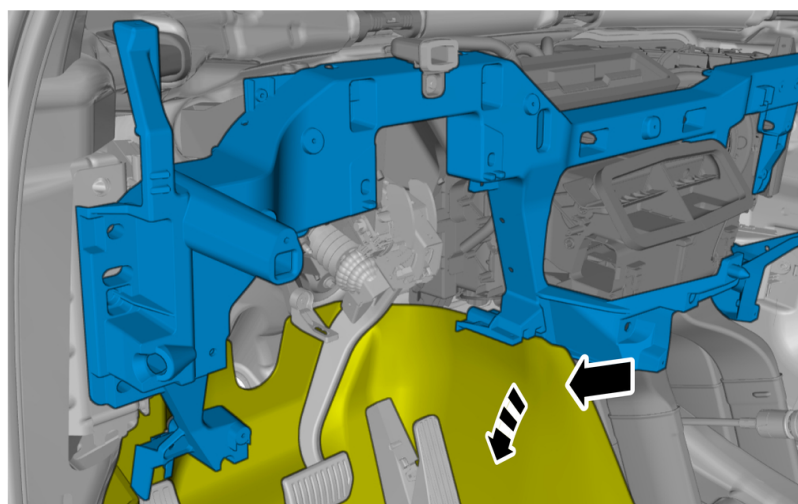
M8 , 24 Nm



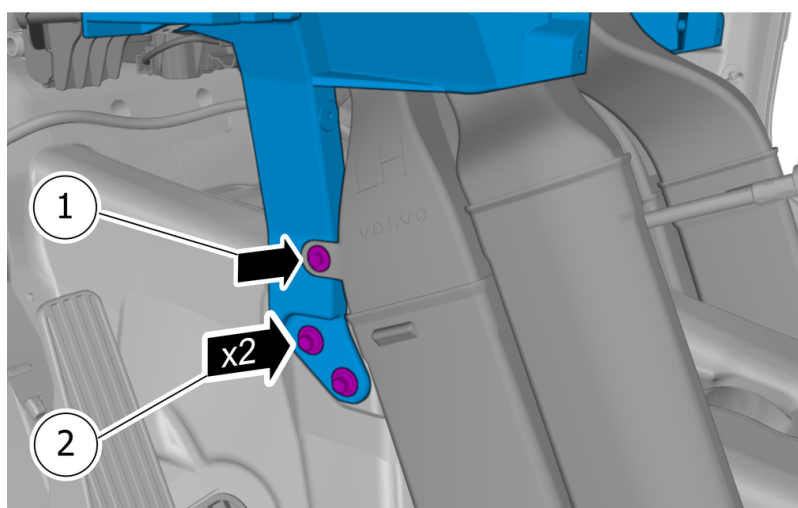
Release the catch.

**Use:** Electrician's screwdriver



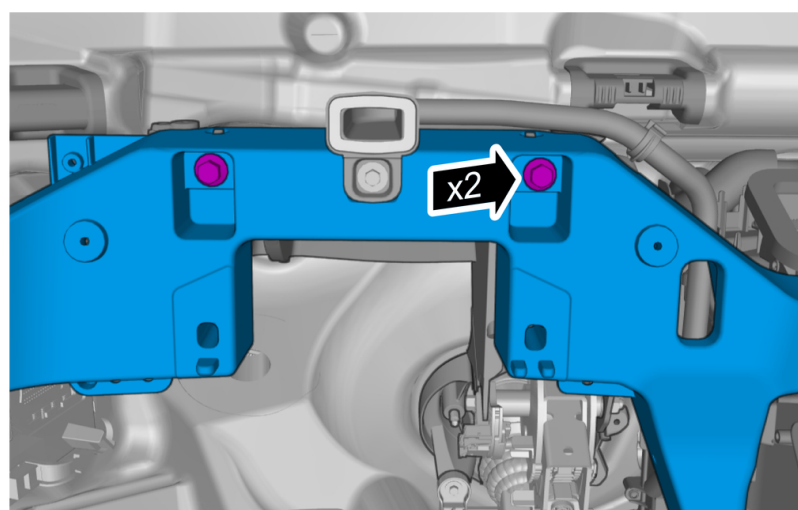


Detach and fold back the floor covering.



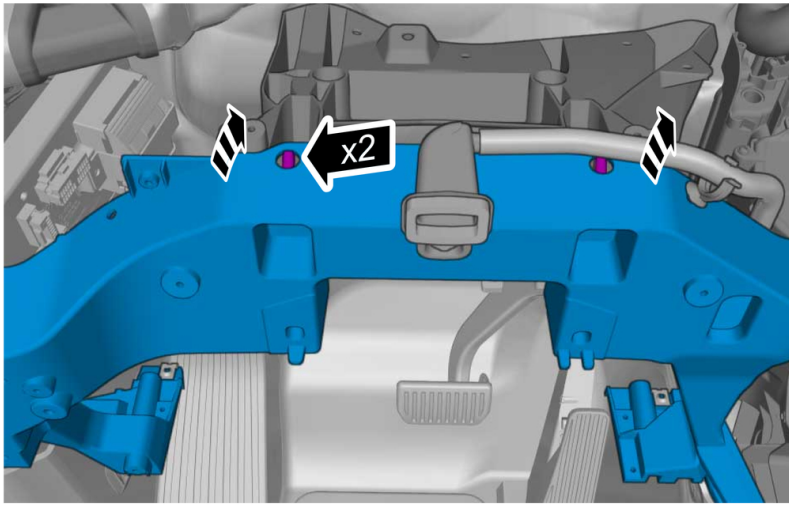
Remove the screws.

- 1 · **Torque:**  
M5 , 5 Nm
- 2 · **Torque:**  
Cross member, to Body , 10 Nm

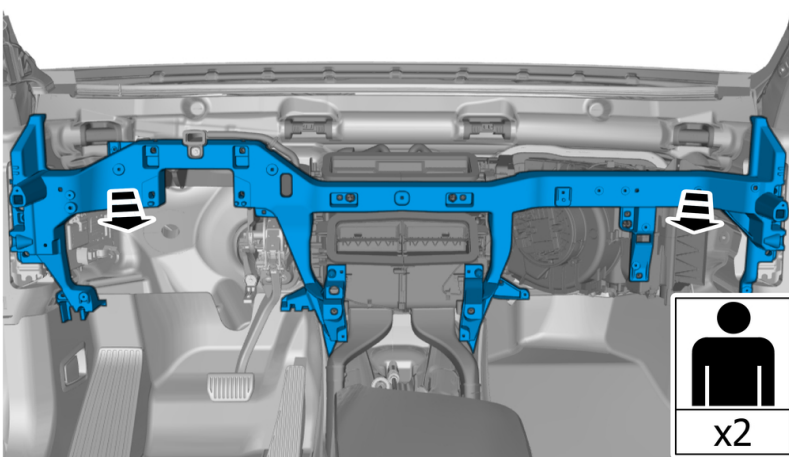


Remove the screws.

**Torque:**  
M8 , 24 Nm



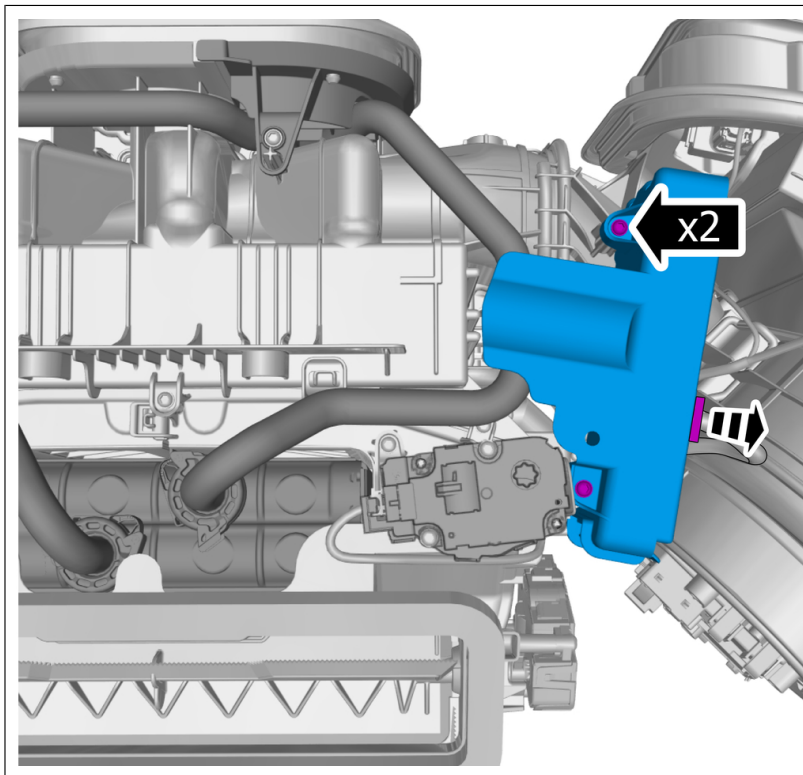
**Caution!** Make sure that the component is correctly located on the locating dowels.



**Caution!** Make sure that the wiring harness does not catch.

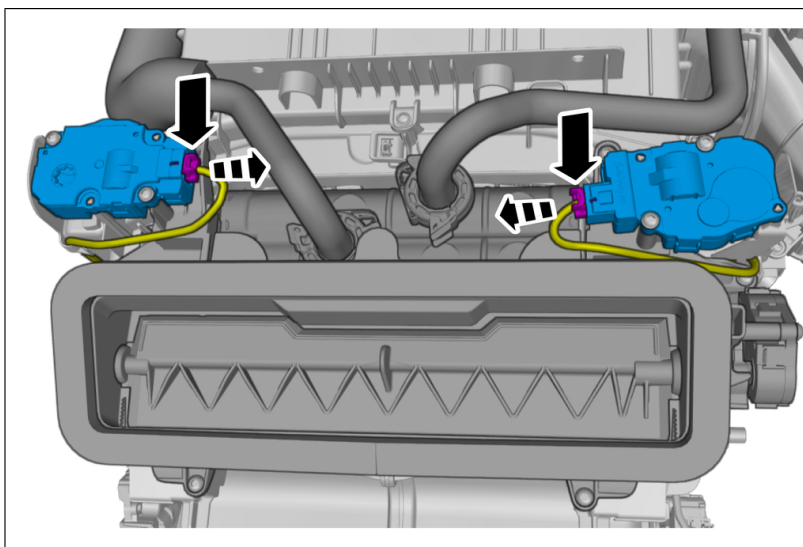
**Note!** This step requires the aid of another technician.

Remove the part carefully  
Remove the marked part.



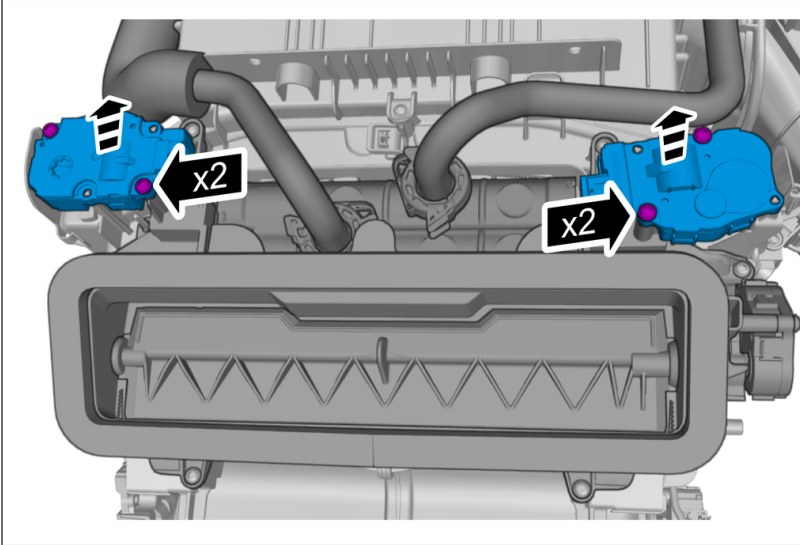
Disconnect the connector.  
Remove the screws.  
Remove the marked part.

Vehicles with 4-zone Air Conditioning system  
AC



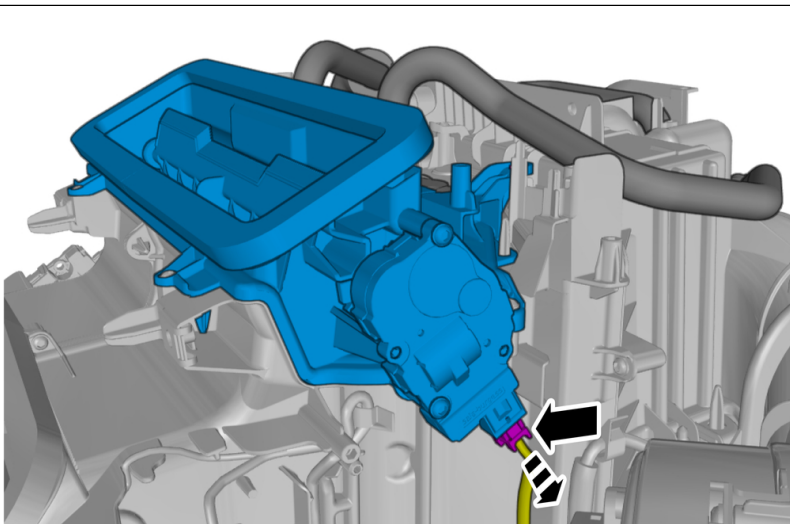
Disconnect the connectors.



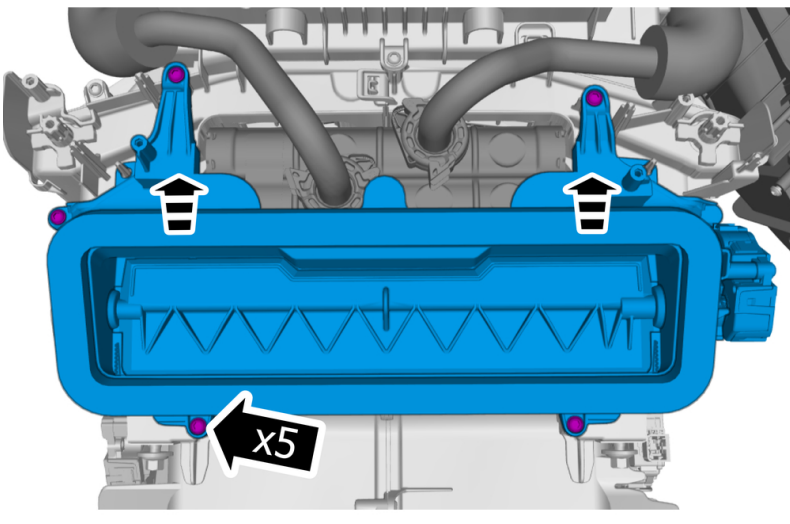


Remove the screws.  
Remove the part carefully  
Remove the marked detail/details.

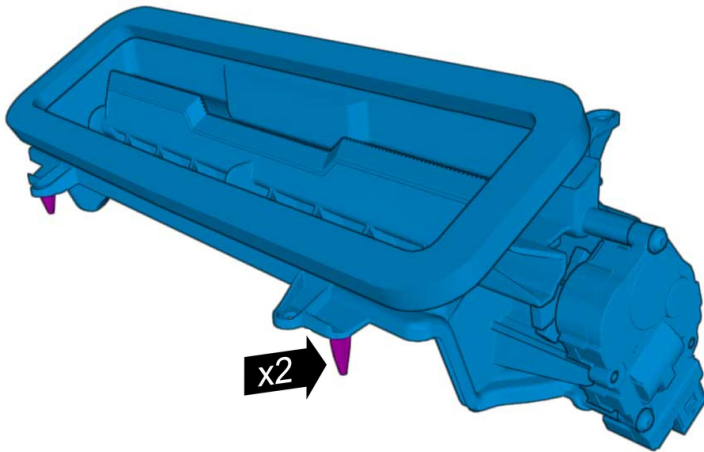
All vehicles



Disconnect the connector.

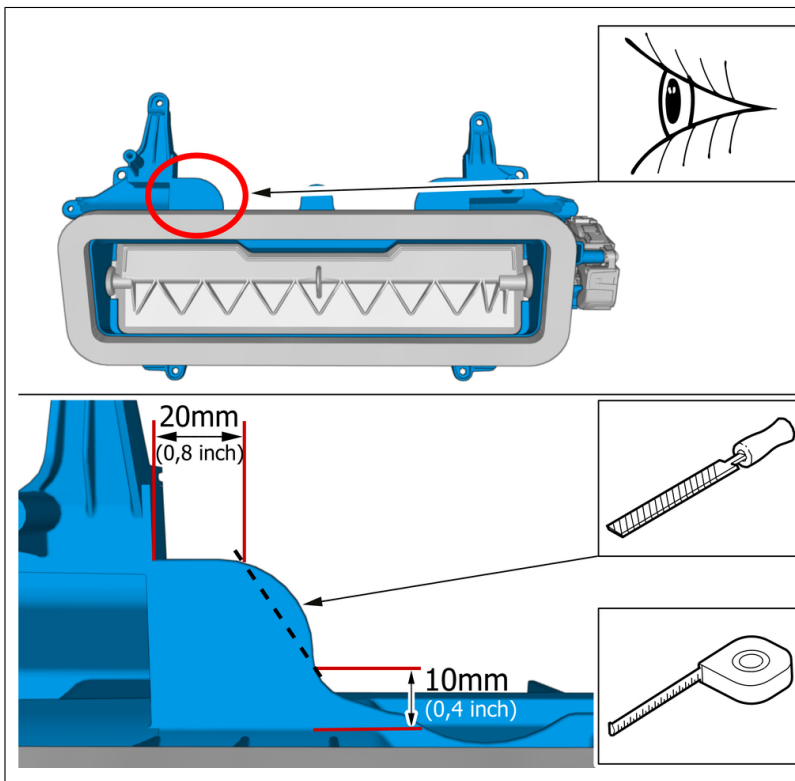


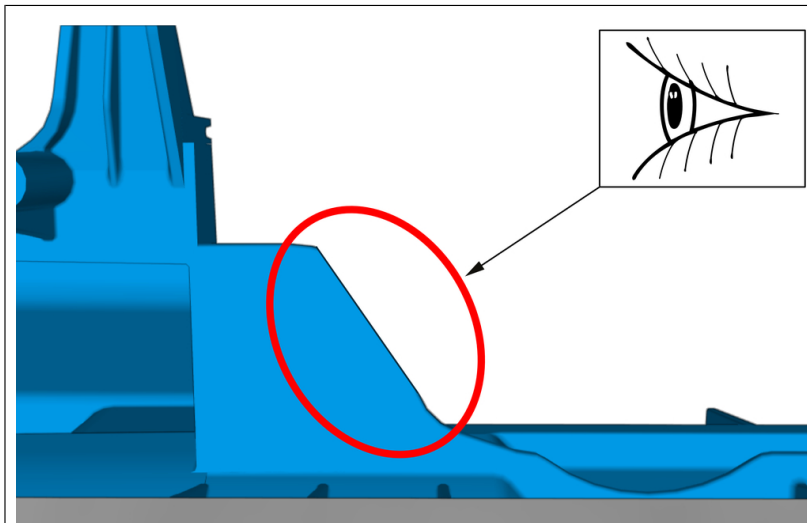
Remove the screws.  
Remove the part carefully  
Remove the marked part.



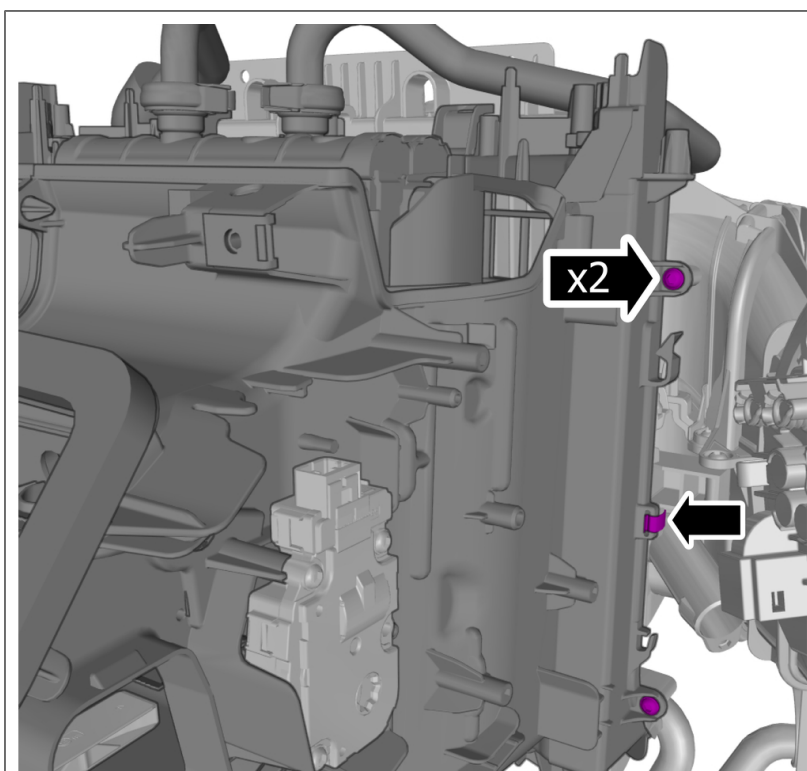
**Caution!** Make sure that the component is correctly located on the locating dowels.

### Preparation



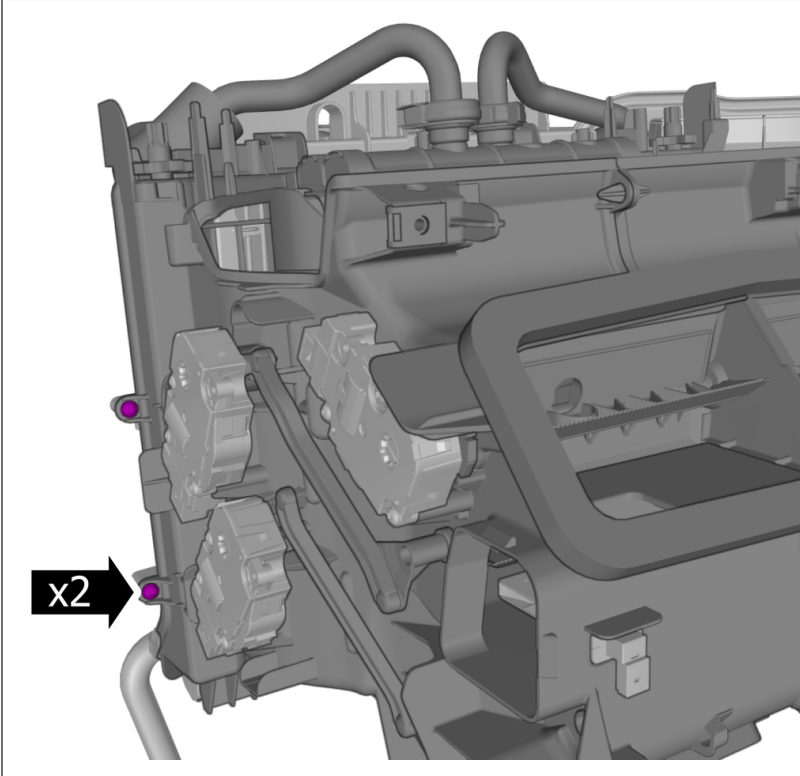


**Note! Orientation view**

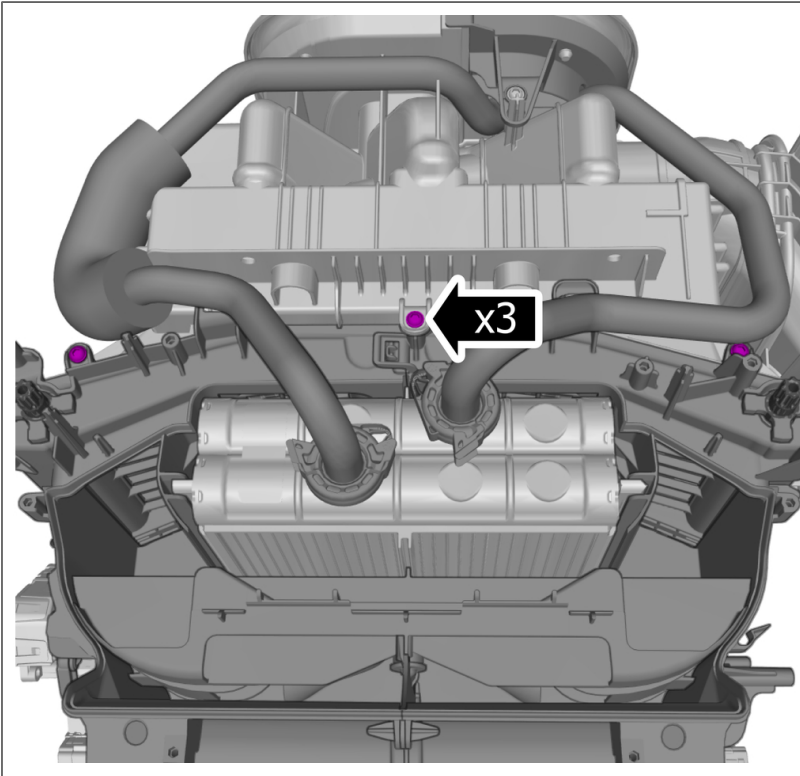


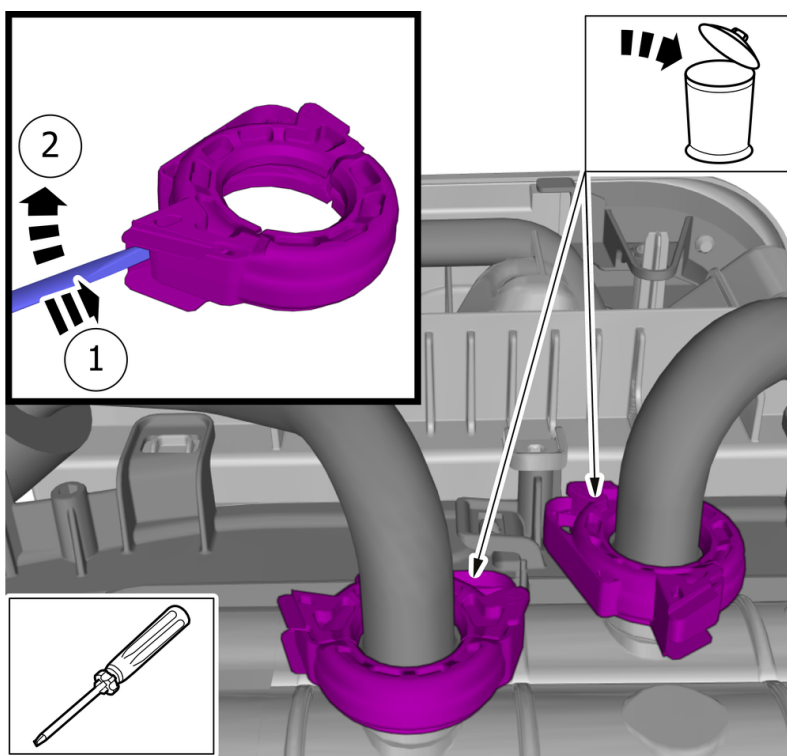
Remove the clip.  
Remove the screws.

Remove the screws.



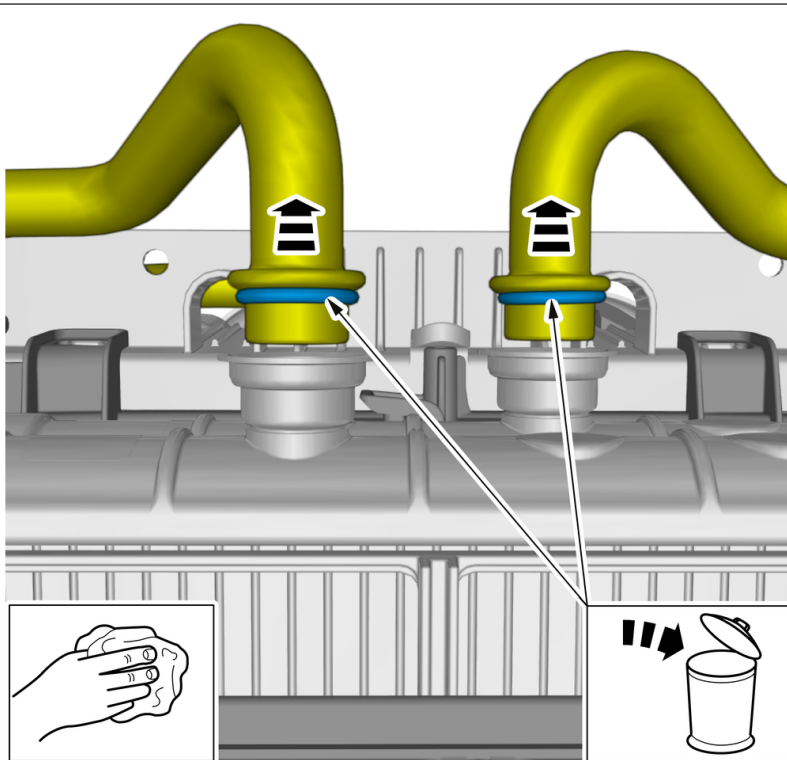
Remove the screws.





Remove the fasteners.

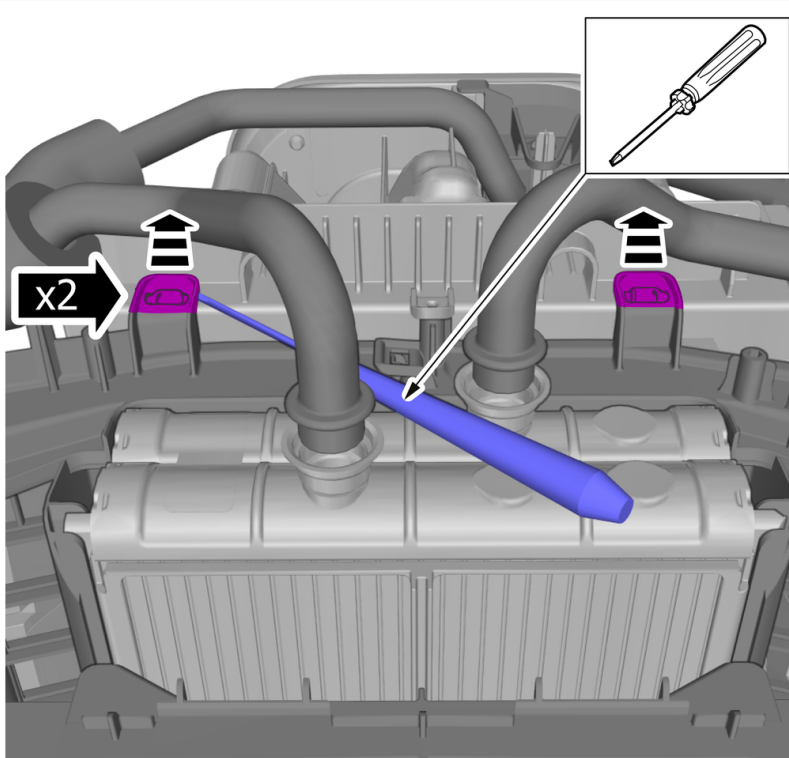
**Use:** Electrician's screwdriver



**Caution!** Make sure that the components are not forcibly bent.

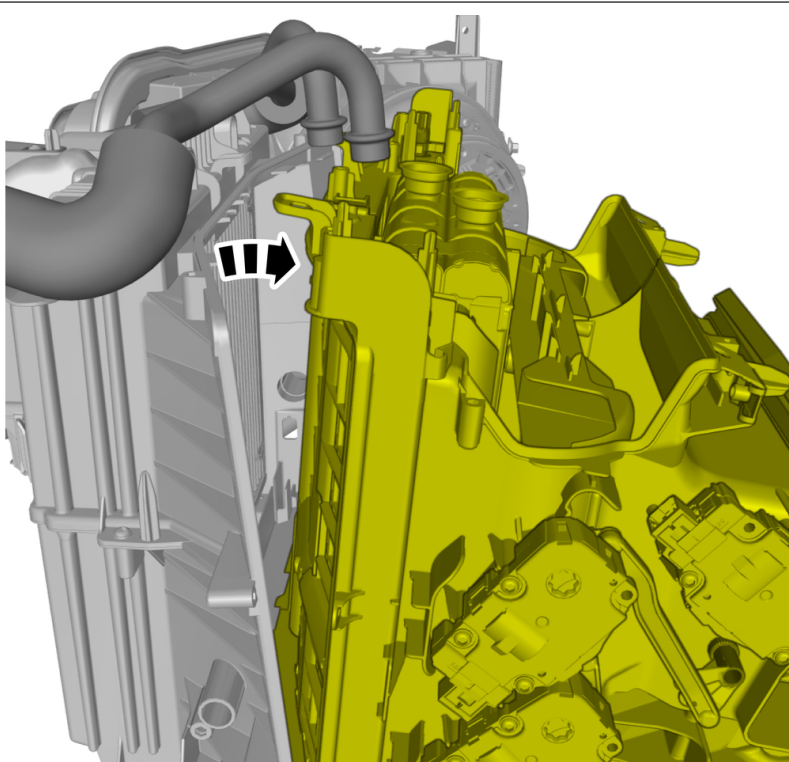
**Note!** Use suitable paper to absorb any escaping fluid.

Undo the hoses from the connections.  
Remove the marked detail/details.



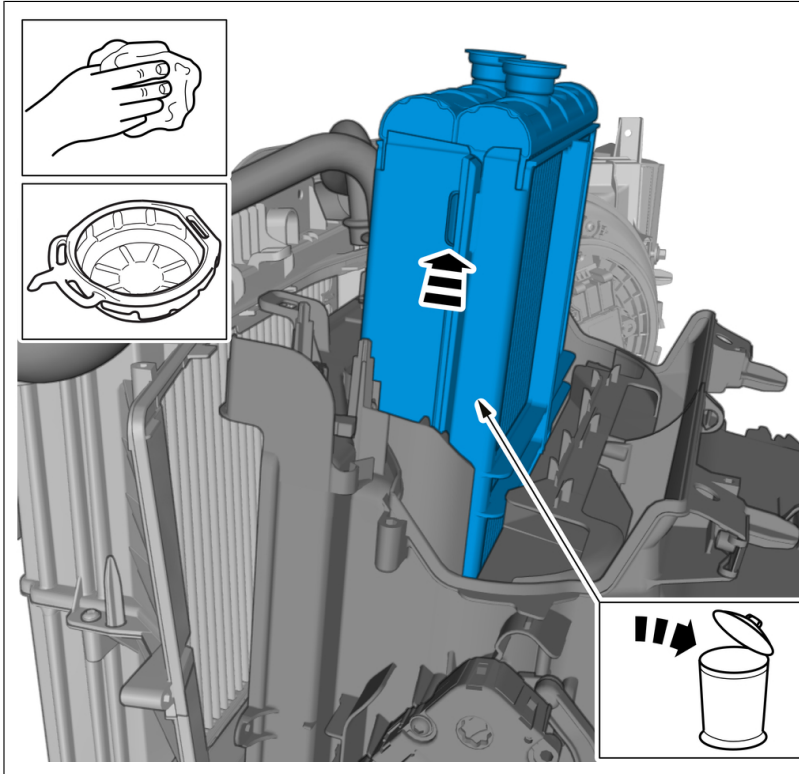
**Caution!** Loosen the panel carefully, one clips at a time.

**Use:** Electrician's screwdriver



Fold marked part to one side.





**Note! Use suitable paper to absorb any escaping fluid.**

Remove the marked part.  
Drain the coolant.

### Installation

To install, reverse the removal procedure.

Fill cooling system, draining, filling, and bleeding , refer to:  
 Cleaning, Inspection and Adjustment  
 2 - Engine with mountings and equipment  
 26 - Cooling system  
 261 - radiator and connections

Calibrate according to: Diagnostics /  
 Components / Control modules/ Climate  
 Control Module (CCM) / Diagnostic sequences /  
 Calibrating damper actuators