



CAUTION

If the mating faces of the parts to be welded are not accessible, make EGW plug welds to replace the original resistance welds (see MR 400).



CAUTION

To avoid damaging the vehicles electric and electronic components, the earths of any wiring harness near the weld area must be disconnected.

Position the earth of the welding machine as close as possible to the weld area (see MR 400).

Locate the earths located near to the weld area. [Earths on body: List and location of components](#)

1- COMPLETE REPLACEMENT

1) PART IN POSITION



Repair-40x06x10-02x49-1-3-1.xml



XSL version : 3.02 du 22/07/11

HEATER MATRIX: REMOVAL-REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

Pipe clamps.

Ms. 583



parts always to be replaced:



heater matrix coolant pipe seal

Locations and specifications (tightening torques, parts to always be replaced, etc.).[\(see 61A, Heating, Passenger compartment heating and ventilation assembly: Exploded view\)](#).



Note:

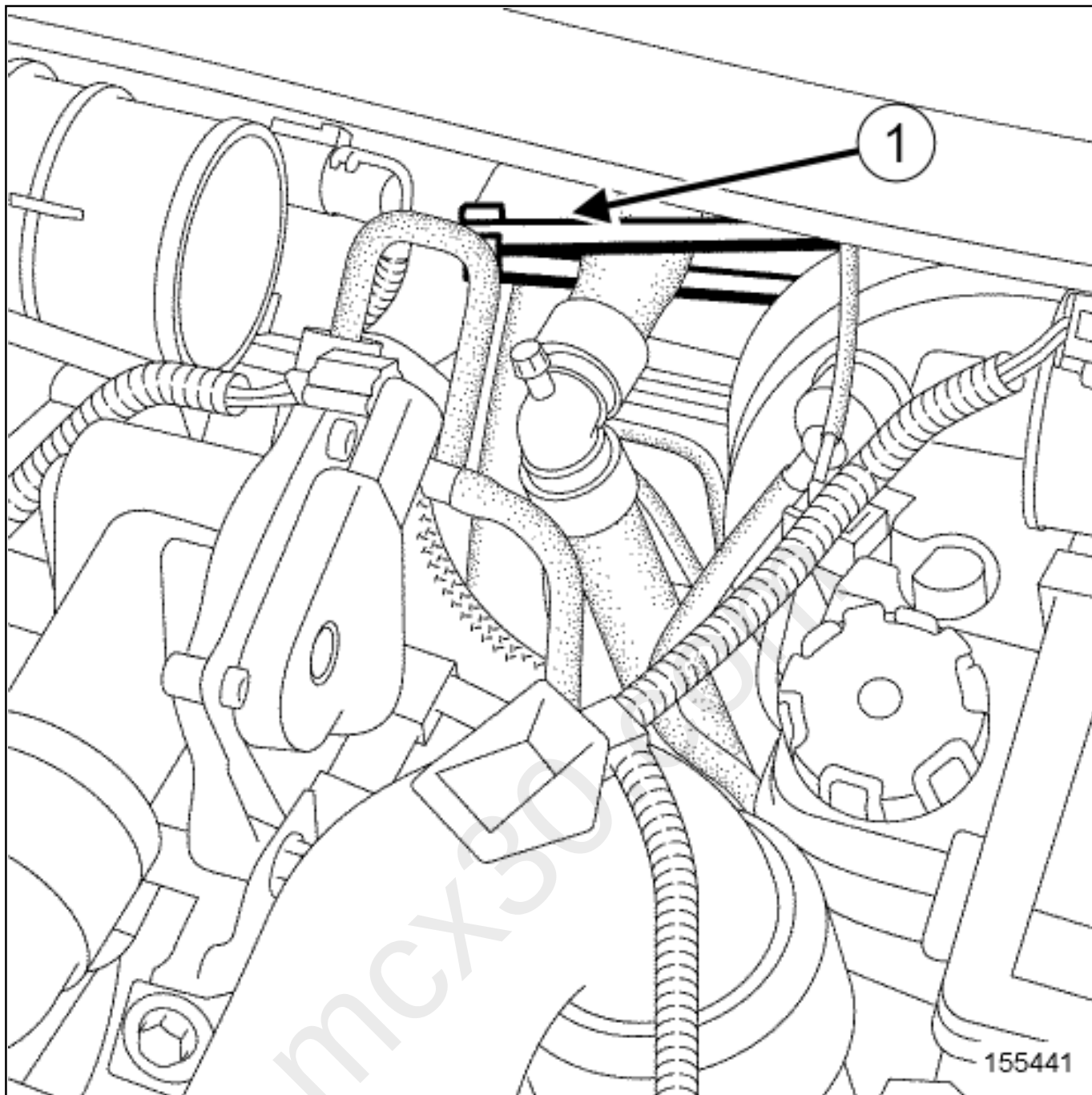
There are two types of fitting for the distribution unit: Valéo and Denso.

REMOVAL

1. REMOVAL OPERATION

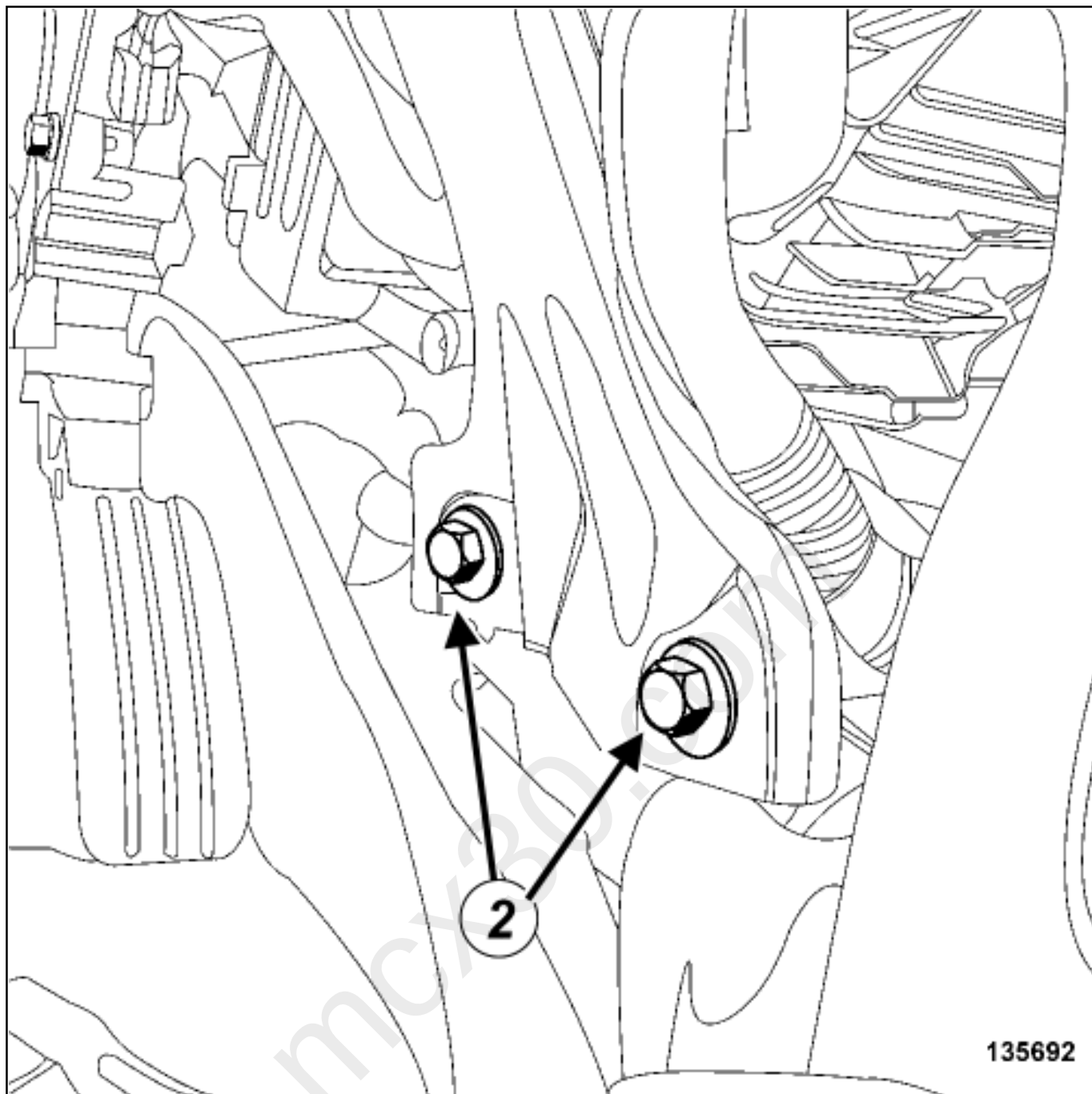


Loosen the clip of the air filter unit air outlet pipe.



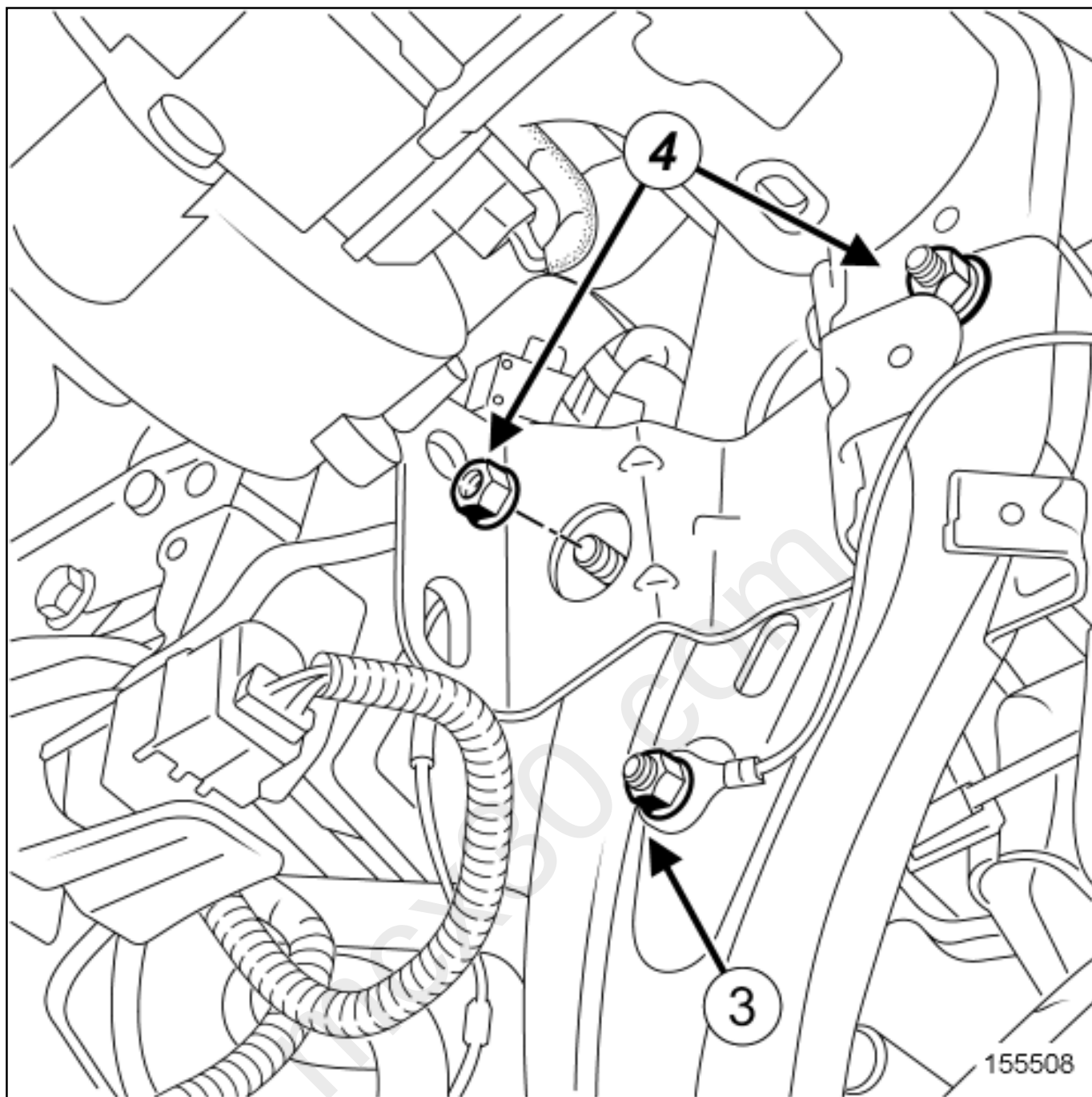
Fit the toolPipe clamps.(Ms. 583) (1) on the heater matrix hoses.

Remove the dashboard lower trim [Dashboard assembly: Exploded view](#) .



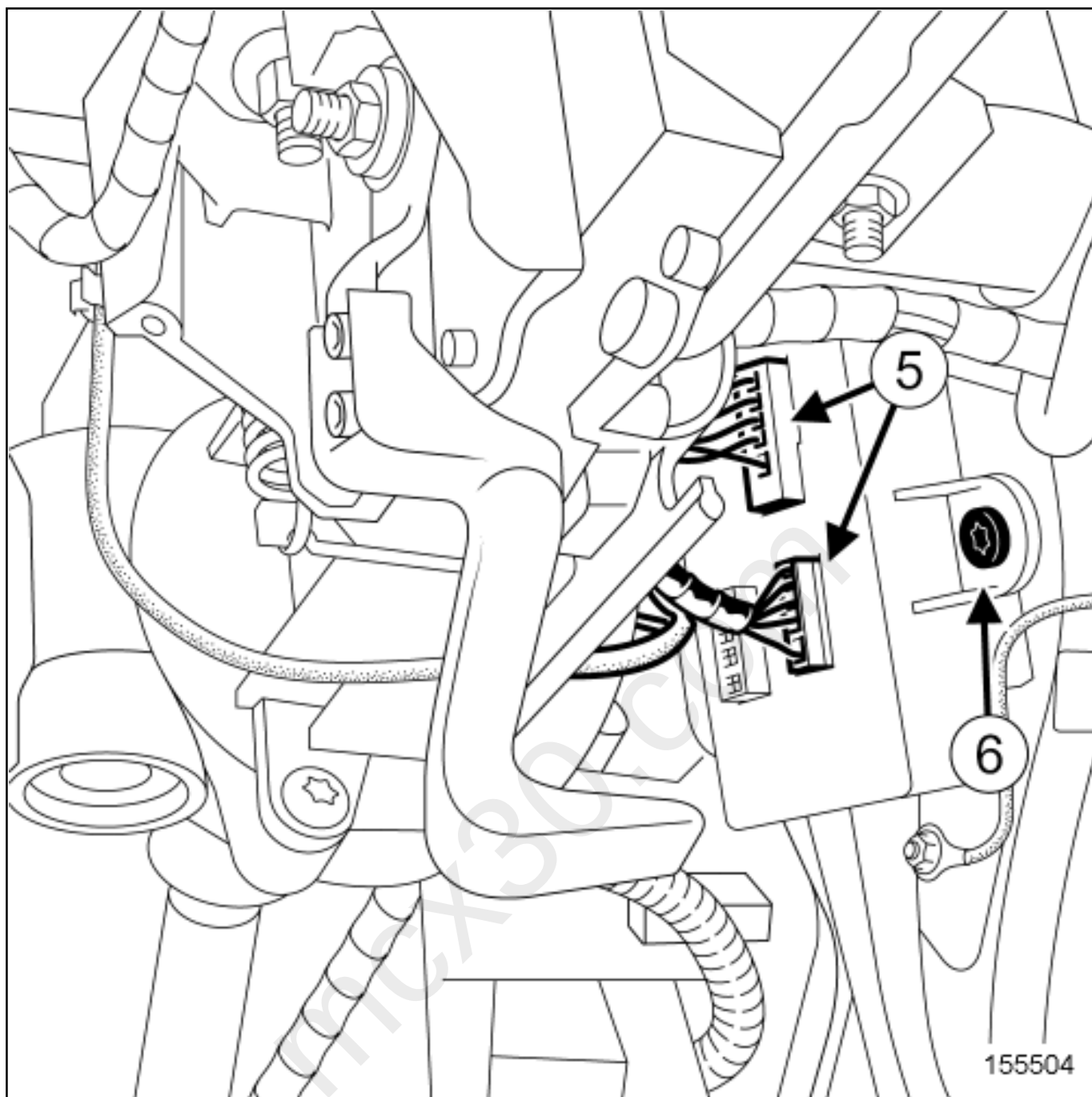
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Remove the lower bolts(2) from the dashboard cross member reinforcement.



Remove:

- the earth nut(3) from the dashboard cross member reinforcement,
- the upper nuts(4) from the dashboard cross member reinforcement,
- the dashboard cross member reinforcement.



Disconnect the UPC connectors(5) .

Remove:



the UPC bolt(6) ,



the UPC.

2. REMOVAL OPERATION

1- THIS PROCEDURE APPLIES TO VEHICLES EQUIPPED WITH A VALÉO DISTRIBUTION UNIT



Remove the clips from the heater matrix rigid pipes([see 61A, Heating, Passenger compartment heating and ventilation assembly: Exploded view](#)) .



CAUTION

Prepare for the flow of fluid, and protect the surrounding components.



Put a protective cover on the floor carpet.



Position a container to collect the coolant under the rigid pipes.



Move the heater matrix rigid pipes aside.



Remove the seals from the heater matrix rigid pipes.



Remove ([see 61A, Heating, Passenger compartment heating and ventilation assembly: Exploded view](#)) :



the heater matrix trim bolts,

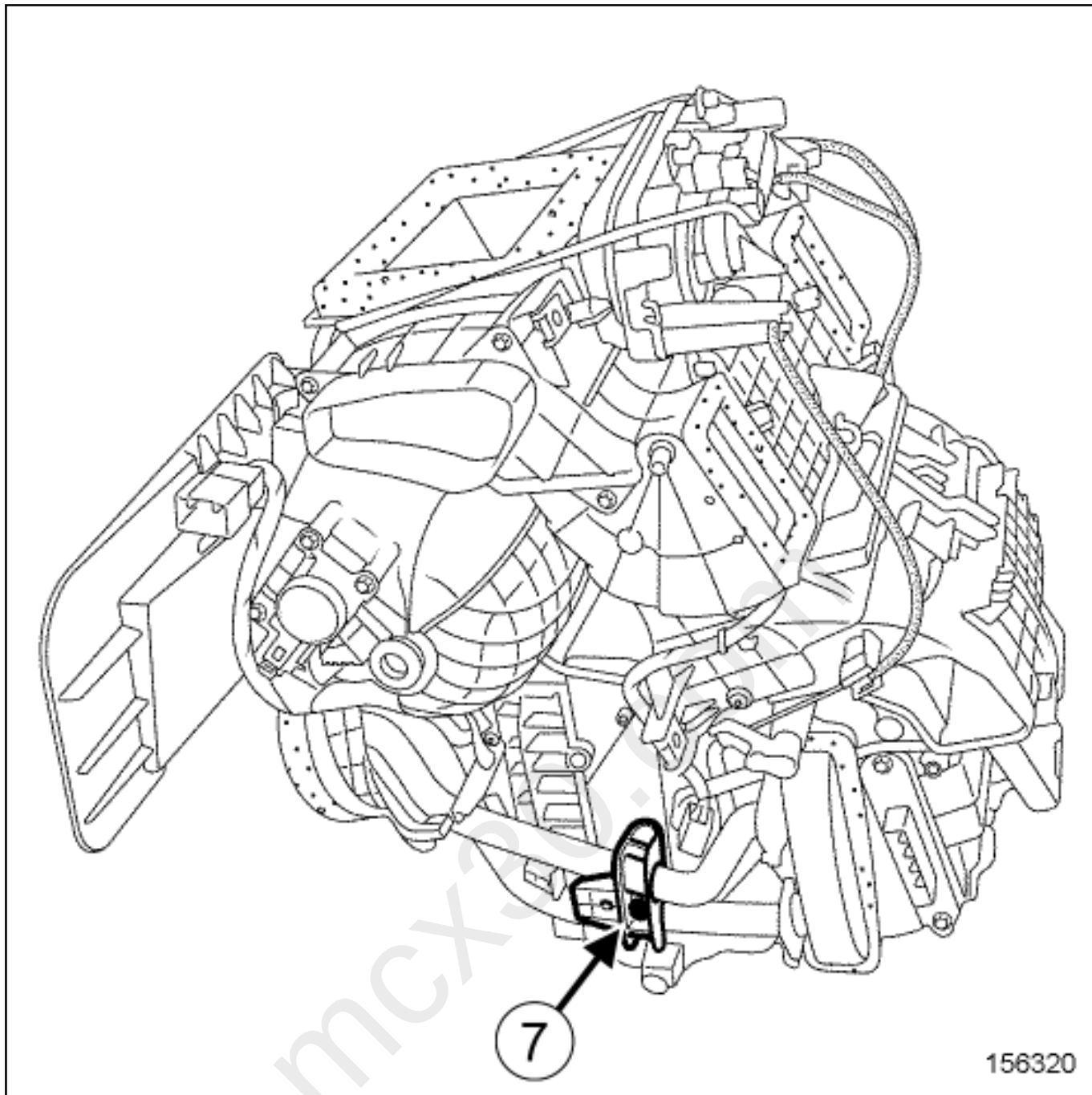


the heater matrix trim,



the heater matrix.

2- THIS PROCEDURE APPLIES TO VEHICLES EQUIPPED WITH A DENSO DISTRIBUTION UNIT



Remove the bolt(7) from the rigid pipes bracket.

Remove the clips from the heater matrix rigid pipes([see 61A, Heating, Passenger compartment heating and ventilation assembly: Exploded view](#)) .



CAUTION

Prepare for the flow of fluid, and protect the surrounding components.

Put a protective cover on the floor carpet.

Position a container to collect the coolant under the rigid pipes.

Move the heater matrix rigid pipes aside.

Remove the seals from the heater matrix rigid pipes.

Remove the heater matrix.

REFITTING

1. REFITTING PREPARATION OPERATION

parts always to be replaced:



heater matrix coolant pipe seal



Always replace the heater matrix rigid pipe clips.



CAUTION

To avoid any leaks, check that the pipe surface is sound before positioning the new seal. The surface must be clean and scratch free.

2. REFITTING OPERATION

Refit [\(see 61A, Heating, Passenger compartment heating and ventilation assembly: Exploded view\)](#) :

- the heater matrix,

- the heater matrix trim (only for Valéo fitting).

Fit:

- new seals on the heater matrix rigid pipes,

- the heater matrix rigid pipes on the heater matrix.

Refit new clips on the rigid pipes of the heater matrix [\(see 61A, Heating, Passenger compartment heating and ventilation assembly: Exploded view\)](#) .

Refit the rigid pipes bracket (only for Denso fitting).

Remove:

- the container for recovering coolant under the rigid pipes,

- the protective cover on the floor carpet.

3. FINAL OPERATION

Proceed in the reverse order to removal.

Tighten to torque:

- the dashboard cross member reinforcement upper nuts **21 N.m**,

- the dashboard cross member reinforcement lower bolts **21 N.m**,