HEAT EXCHANGER, REPLACING

Note! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

Preparatory work

Removing components

- Clamp the heat exchanger's radiator hoses in the engine compartment.
• Adjust the steering wheel to its lowest position.

• Remove the upper steering wheel cover, held in place with the 4 outer recessed screws on the underside.

Remove:

• the sound baffle on the driver's side
• any knee bolster. Leave the bracket in place and undo the screws at the floor.
- Remove the sound baffle on the passenger side.

For 760/960 MY 88-94:

- Remove the 8 screws and remove the center console.

For 960 MY 95-97:

- Remove the 4 screws and remove the center console.

For S90/V90 MY 97-98:
For S90/V90 MY 97-98:

- Raise the control panel around the gear selector.

All vehicles:

- Carefully pry loose the control panel from the outside.
- Remove the switches and unplug the connectors.

**Caution!** These panels are extremely fragile and must be detached and reinstalled with extreme care.

Remove:

- the ashtray
- the 2 screws at the lower mounting behind the location of the ashtray.

**Note!** If the vehicle does not have a large front radio, remove the partition between the upper and lower radio compartment.
Remove the radio.

**Detaching the right control panel, 760/960 MY 88-94:***

Remove:

- the panel at the heat control using a bone knife
- the 2 screws and detach the panel around the radio opening. Press in the clips on the sides and pry out the panel
- the switches and unplug the connectors.

**Detaching the right control panel, 960/S90/V90 MY 95-98:**
• Detach the panel by inserting a screwdriver and releasing the clip while gently pulling out the panel.

Remove:

• the panel with a rotating movement
• the switches and unplug the connectors.

All vehicles:
Remove:

- the 4 screws and remove the control panel
- the connectors.

**760/960 MY 88-94:**

- Very carefully remove the decor strips on the right and left side

**All vehicles:**

Remove:

- the 3 air vents around the combined instrument panel
- the 2 sealing washers above/in front of the combined instrument panel
- the screws of the rim: 9 for 760/960 MY 88-94 and 7 for 960/S90/V90 MY 95-98
- the 4 screws and the connectors of the combined instrument panel.
• the fuse box from the bracket and move it aside
• the 5 screws of the bracket.

![Image of fuse box and bracket](image1)

• Remove the 4 screws of the air vents on the air distribution box for front floor, left and right side

![Image of air vents and distribution box](image2)

• Remove the 2 screws of the air distributor. Bend down the left air duct to the rear floor and remove the air distributor rearward and to the left.

![Image of air distribution box with duct](image3)
Remove:

- the air ducts at the air distribution box
- the screw of the air distribution box with the air duct of the centre air vents.

Remove:

- the 2 insulating mats, which are stapled in place
- the 2 screws of the air distributor plus the pipe connections of the outer defroster vents.

**Note!** Note how the following is done before installation.

- Bend out the air distributor and pry away the driver's side air duct as necessary.

**Removal**

**Removing vacuum hoses and distribution housing**
Remove:

- the vacuum hoses of the vacuum motors

**Note!** Note the position of the vacuum hoses.

- any connector for the temperature sensor in the distribution housing
- the lower and left screws (x7) of the distribution housing.

**Removing the distribution housing**

- Remove the remaining screws from the distribution housing - 3 on top and 1 on the right side.

**Note!** The screw on the right is screwed in from the top and must be removed.

- Carefully pry loose the distribution housing.

**Removing the heat exchanger**

**Note!** Save the heat exchanger seal.
Remove:

- the 4 screws of the 2 heat exchanger retainers
- the heat exchanger

Installation

Installing the heat exchanger with gasket

**Note!** If possible, transfer the gasket from the old heat exchanger. Otherwise, place a similar gasket on the same mating faces.

- Install the heat exchanger by threading through the moving parts out to the
Install the heat exchanger by threading through the moving parts out to the engine compartment and fasten the mountings, 4 screws. Tighten alternatingly.

**Installing the distribution housing and vacuum hoses**

**Note!** Clean the temperature sensor (if fitted) and the inside of the distribution housing.

- Reuse the sealant, but make sure it is evenly distributed on the sealing surfaces.

**Note!** Make sure that the vacuum hoses are not pinched between the gasket surfaces.

![Distribution Housing Image]

Install:

- the distribution housing, starting with the 3 top screws. Make sure the housing is properly seated in the right mounting, insert the screw and tighten
- tighten the 4 screws on the underside and the 3 screws on the left side. Tighten
- the vacuum hoses as follows:

  - **red** mark: upper vent, top
  - **blue** mark: defroster vent, all the way back
  - **yellow** mark: lower floor vent, all the way down
  - **transparent/beige** mark: Bi-level vent in the center

- any connector for the temperature sensor in the distribution housing.

**Installing the air distributor for the floor and its vents**


• Bend down the left air duct to the rear floor and press in the air distributor from the side/front so that it ends up below the distribution housing.

Install:

• the screw of the air distributor
• the 4 screws of the front floor vents.

**Installing the fuse box bracket and fuse box**

**Note!** The ground cable to the front bracket mounting.

Install:

• the 5 screws of the bracket and tighten
• the 4 screws of the front floor vents.

**Installing the defroster air distributor, air mixture box and sound baffle**
Note! Install the air distributor as noted.

Install:
- the 2 screws of the defroster air distributor, at the same time connecting the air ducts of the outer defroster vents. Tighten.
- the screw of the air mixture box with air duct to the center defroster vents
- the sound baffle with staples or hot glue
- the 2 air ducts to the distribution box.

Installing components

Install:
- the 4 screws to the combined instrument panel
- the screws of the rim around the combined instrument panel: 9 for 760/960 MY 88-94 and 7 for 960/S90/V90 MY 95-98

For 760/960 MY 88-94:
- Very carefully install the decor strips on the right and left side.

All vehicles:

Install:
• the 2 sealing washers above/in front of the combined instrument panel
• the 3 air vents around the combined instrument panel
• the 2 connectors and 4 screws of the heating and ventilation control panel
• the 2 screws of the right control panel with switches
• the radio
• the left control panel with switches
• the sound baffle on the driver's side
• the sound baffle on the passenger side
• the center console.

**Finishing**

Check

• Check the function and perform self-diagnostics.