The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared. The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed.
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GENERAL

AIR DISTRIBUTION: description of the air distributors in the passenger compartment.

1. Left-hand air vent
2. Left-hand side window demisting vent
3. Windscreen demisting vent
4. Centre air vents
5. Control panel
6. Right-hand side window demisting vent
7. Right-hand side air vent
8. Footwell heater outlets for front passengers

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Footwell heater outlets for rear passengers.
HEATING

Operating principle

CONTROL PANEL

A: Electric windscreen operating light
B: Temperature adjustment
C: Air conditioning operation
D: Distribution of air in the passenger compartment
E: Operation of the heated rear screen and the electric windscreen
F: Adjustment of the amount of air delivered to the passenger compartment
G: Air recirculation selection
HEATING

Operating principle

HEATED REAR SCREEN AND HEATED WINDSCREEN (button E)

Vehicle without heated windscreen:
This function demists and de-ices the rear window and the rear-view mirrors.

Vehicle with electric heated windscreen:
Press successively on button (E) to select:
– the function for demisting and de-icing the rear window and the rear-view mirrors. The operating light of button (E) will illuminate.
– the function for demisting and de-icing the rear window, rear-view mirrors and windscreen. The operating light of buttons (E) and (A) will illuminate.

These functions are cancelled:
– automatically after a time determined by the system;
– by pressing button (E) again.

AIR RECIRCULATION (button G)

The operating light comes on.
Air is taken from the passenger compartment and is recycled, with no air being taken from outside the vehicle.

Prolonged use of the air recirculation mode may cause the windows to mist up or lead to odours, as the air is not renewed.
You are therefore advised to return to normal mode (external air) as soon as you have passed through the polluted areas, by pressing button (G).
Disconnect the battery.

Remove:
– the Renault Card reader unit by pulling it towards you (A),
– the control panel cover (B),
– the two screws at the bottom of the control panel,
– the control panel following the instructions in the diagram below:

Unclip the control cables.
Disconnect the connectors from the control panel.

REFITTING
Proceed in the reverse order to removal.
Disconnect the battery.

Remove:
- the Renault Card reader unit by pulling it towards you (A),
- the control panel cover (B),
- the two screws at the bottom of the control panel,
- the control panel following the instructions in the diagram below:

Disconnect the connectors from the control panel.
Unclip the control cables.
Temperature adjustment dial control cable.

Remove the trim from the left hand side under the dashboard.
Unclip the electrical harness of the left hand side protection end piece.
Remove the side protection end piece (1).

Unclip the air mixing flap cable.
Passenger compartment air distributor control cable.

Remove the trim from the right hand side under the dashboard.

Unclip the air distribution flap cable.

REFITTING

Proceed in the reverse order to removal.
The air distribution unit (A) can be accessed after removing the dashboard and the passenger compartment reinforcement beam.

Follow the removal - refitting instructions in section 62 “removal - refitting the evaporator unit.”
ADJUSTMENT AND DISTRIBUTION OF THE HEATING POWER

There are two ways of varying the heating power:

– using the air flow,
– using the air temperature.

The air flow is adjusted on the control panel by the user for manual air conditioning or automatically for climate control.

The air temperature is adjusted using the various settings of the mixing flap. In the air distribution unit, the air is diverted depending on the position of the mixing flap, passes through to the heating radiator and then is mixed with cold air to obtain the air temperature requested by the user.

Air is supplied and distributed to the passenger compartment through:

– an air distributor with five modes,
– a right / left distributor,
– four vents,
– two front footwell ducts,
– two rear footwell ducts,
– a windscreen demisting/de-icing vent,
– two front side window demisting/de-icing vents,
– a glove compartment duct (depending on equipment).
Note: locking the air bag computer also unlocks the electric steering column lock.

REMOVAL

Remove the steering wheel air bag cushion. To do this, insert a screwdriver into the hole (1) then move it upwards (2).

Disconnect the connectors of the steering wheel air bag and the connectors of the cruise control buttons (depending on version).

Remove:
– the steering wheel bolt,
– the steering wheel after setting the wheels straight,
– the interior dial cover,
– the steering wheel half cowlings.

Disconnect the stalks (wipers, radio and lighting controls), the rotary switch connectors (air bag and cruise control) and the steering wheel angle sensor.

Before removing the rotary switch assembly, mark its position:
– ensuring that the wheels are straight at the time of removal,
– checking that the “0” mark on the rotary switch is correctly positioned opposite the index.

Undo the bolt then release the steering column assembly.

Remove:
– the instrument panel
– the dashboard switches,

IMPORTANT:
all work on the air bag and pretensioner systems must be carried out by qualified personnel who have received the proper training.

IMPORTANT:
It is not permitted to handle the pyrotechnic systems (air bags and pretensioners) near a source of heat or flame as there is a risk of triggering.
HEATING

Radiator

– the dashboard mounting bolt (1),
– the central console,
– the Renault Card reader,
– the radio (depending on version),
– the Central Communication Unit (depending on version),
– the heating and air conditioning control unit,
– the dashboard mounting bolt (2),
– the split radio display or the Carminat screen (depending on version) then release the harness,
– the sunshine sensor (3),

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HEATING

Radiator

– the sun visors,
– the trim from the windscreen pillars; to do this, simply release the trim sufficiently to be able to press the upper clip, then release the pillar and pull it upwards.

– the tweeters,
– the sides of the dashboard,
– the side mounting bolts (A) of the dashboard,
– the interior cover of the glove compartment,
– the glove compartment light,
– the light under the dashboard.

Use a flat spanner to lock the air bag mounting clip on the beam or remove the mounting bolt (depending on version).

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Disconnect the passenger's air bag connector located near to the options relay/fuse box.

Remove the dashboard by releasing the clips.

NOTE: The automatic gear shift lever is reached by pressing button (C) located in front of it.
Cut the carpet at (A).
Release the wiring harnesses.
Remove:
- the rear footwell heating ducts (B),
- the protection end piece (C),
- the lower housing of the radiator by pulling it towards you,
Under the vehicle, remove:
- the engine undertray.
Drain the cooling circuit.

Remove:
- the clips of the radiator coolant circuit pipes using a screwdriver,
- the radiator.

REFITTING
The radiator is refitted in the reverse order to removal.

IMPORTANT: It is essential to fit the electrical harness correctly to avoid any possible damage.

Refitting the dashboard:
- Before replacing the dashboard, position the harnesses for the tweeters, the display, and the sunshine sensor.
- Connect the passenger's air bag harness.
Ensure that the wheels are still straight.

Check that the rotary switch is correctly positioned by checking that the "0" mark of the rotary switch is opposite the index.

Features of the instrument panel surround

- Fit the instrument panel and the steering wheel lower half cowling,
- Position the upper half cowling by placing the leather part as shown below:
– Fit the instrument panel surround,
– Position the adhesive strip of the steering wheel upper half cowling on the surround,
– Clip the surround onto the dashboard.

IMPORTANT: the splines of the steering wheel are designed such that the steering wheel can only be fitted in one way. Take care not to damage them.

The steering wheel should be inserted freely into the splines.

Replace the steering wheel bolt every time it is removed and tighten to the correct torque (torque of 4.4 daNm).

Features of the air bag
Unlock the air bag computer.

Fill the cooling circuit.

IMPORTANT: before reconnecting the driver's air bag cushion, check to see if the system is operating correctly as follows:
– check that the air bag warning light on the instrument panel lights up when the ignition is switched on (computer unlocked), connect a dummy ignition module to the connector or each air bag cushion and check that the warning light goes out,
– switch off the ignition, connect the air bag in place of the dummy ignition modules and position it on the steering wheel,
– switch on the ignition and check that the warning light comes on for 3 seconds when the ignition is switched on then goes out.

If the warning light does not go out, refer to the “fault finding” section.

IMPORTANT: if these instructions are not observed, the systems may not operate normally and may be incorrectly triggered.
HEATING
Blower assembly

REMOVAL
The blower can be accessed from underneath the dashboard.

Disconnect:
- the battery,
- the blower connector.

Remove the blower mounting bolt.

Rotate the blower (320) in a clockwise direction to unclip the unit and remove it from underneath.
HEATING  
Electrical control

Disconnect the battery.
The resistor unit can be accessed from underneath the dashboard.

Disconnect:
– the battery,
– the connector of the resistor unit.

Remove the two resistor unit mounting bolts.
| A | Passenger compartment |
| B | Engine compartment |
| C | External air |
| D | To air mixing unit |
| E | Bulkhead |
| F | External or recycled air |

| 1 | Compressor |
| 2 | Condenser |
| 3 | Dehydration canister |
| 4 | Tri-function pressure switch |
| 5 | Pressure relief valve |
| 6 | Evaporator |
| 7 | Air conditioning blower |
| 8 | Engine cooling fan |
| 9 | Engine radiator |
| 10 | High pressure fluid |
| 11 | Low pressure vapour |
| 12 | High pressure vapour |
INFORMATION ON THE FLUID

A label in the engine compartment shows the technical specifications of the refrigerant.

More detailed information about this fluid is contained in the "Air conditioning - new R134a refrigerant" section.

The most important recommendation relates to the exclusive use of PLANETELF PAG 488 oil for the compressor and for fitting the pipes of the circuit. This is available in 250 ml containers and is distributed by the Replacement Parts Department under part number 77 11 172 668.

EXAMPLE:

USING A FILLING STATION (ROBINAIR R 134a):

The special feature of the Laguna is that it only has one union for the whole air conditioning circuit.

For R 134a gas retrieval, pressurising and filling operations, the pipes of the "Robinair R 134a" filling station must be inverted.

On the filling station:

– connect the low pressure pipe to the high pressure union,
– connect the high pressure pipe to the low pressure union,
– read the pressures on the low pressure gauge (A).

On the vehicle:

– connect the large diameter union (high pressure pipe) to the vehicle's air conditioning circuit union,
– open the valve corresponding to the union connected to the vehicle only,
– read the pressures on the gauge (A) on the unit's control panel.

For all other filling stations, follow the instructions and contact the equipment supplier.
AIR CONDITIONING

**Consumables**

**K4M / F4P / F9Q ENGINES**

- **Compressor:** DELPHI HARRISON V5
- **Oil for DELPHI HARRISON compressor:** PLANETELF PAG 488: 220 cm³ ± 15
- **Refrigerant:** R 134a: 650 g ± 25

**L7X ENGINE**

- **Compressor:** VALEO SD 7 V 16
- **Oil for VALEO compressor:** PLANETELF PAG 488: 135 cm³ ± 15
- **Refrigerant:** R 134a: 650 g ± 25
AIR CONDITIONING

Operating principle

CONTROL PANEL

A  Heated windscreen operating light
B  Temperature adjustment
C  Air conditioning operation
D  Distribution of air in the passenger compartment
E  Operation of the heated rear screen and the heated windscreen
F  Adjustment of the amount of air delivered to the passenger compartment
G  Air recirculation selection

Function
AIR CONDITIONING (button C):

- Button C switches the air conditioning system on or off.
- Press successively on button C to select:
  - the economic "air conditioning" function:
    - Operating light C1 illuminated.
  - the maximum "air conditioning" function:
    - Operating light C2 illuminated.

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The aim of automatic control is to provide users with constant and effective heating regardless of external conditions and the conditions under which the vehicle is being used. In addition, it ensures good visibility through the vehicle's windows.

This automatic function is controlled electronically by a computer incorporated into the control panel and the injection computer.

- 1. Automatic mode operation button
- 2. Left-hand temperature adjustment button
- 3. Display
- 4. Right-hand temperature adjustment button
- 5. Air recirculation button and automatic recirculation operation
- 6. System off button
- 7. Air distribution adjustment button
- 8. Blower speed adjustment button
- 9. "See Clear" button to demist and de-ice the windows
- 10. Rear screen de-icing button
- 11. Air conditioning button
Fitted in front of the external air inlet, it filters the air and ensures the air is totally clean before being let into the passenger compartment.

**Removal**
- the interior cover of the glove compartment
- the two particle filter cover bolts (1).

Remove the particle filter.

**Refitting**
Proceed in the reverse order to removal.
Disconnect the battery.

Drain the refrigerant circuit using the filling station (see section 62 "General").

Remove:
- the engine undertray,
- part of the wheel arch liners.

Disconnect the fog light supply connectors (E) (if fitted).

Remove the two side mounting bolts (F).

Partially remove the bumper.

Disconnect the supply to the headlight washer jets (if fitted).

Remove:
- the bumper (two people),
- the radiator grille,
- the lens units,
- the upper cross member,
- the unions of the cold loop pipes on the condenser.

Disconnect the tri-function sensor.

Remove:
- the lower mounting clips of the condenser,
REFITTING

Check the condenser is correctly secured.

Oil the pipe unions with the recommended oil.

Proceed in the reverse order to removal.

Refit the bumper (two people):

– Connect the supply to the headlight washer jets (G) (if fitted).
– Offer up the bumper in front of the cross member, then line up the guide plates with the indexing items (H).
– Check the side centring clips and the bumper are correctly secured.

Fill the refrigerant circuit using the filling station (see section 62 "General").

When changing the condenser, add 30 ml of recommended oil to the compressor.

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**AIR CONDITIONING**

Dehydration canister

**REMOVAL**

Disconnect the battery.

Drain the refrigerant circuit using the filling station (see section 62 "General").

Release the expansion bottle.

Remove:
- the two protection plate bolts (A),
- the two mounting bolts which secure the pipes to the dehydration canister,
- the canister with its support.

**REFITTING**

Oil the pipe unions with the recommended oil.

Proceed in the reverse order to removal.

Fill the refrigerant circuit using the filling station (see section 62 "General").

When changing the dehydration canister, add 15 ml of recommended oil to the compressor.
Disconnect the battery.

Drain the refrigerant circuit using the filling station (see section 62 "General").

Slacken the hexagonal socket head bolt (7 mm across the flats) of the belt tensioning roller and using a flat spanner (22 mm), slacken the belt. It should be noted that all belts removed must be replaced.

Remove:
- the engine undertray,
- the air conditioning pipes.

Disconnect the connectors from the compressor.

Remove the three mounting bolts of the compressor.

**REFITTING**

If the compressor is changed, it is supplied filled with oil for refitting.

**IMPORTANT**: Ensure the instructions relating to adding oil when working on components of the air conditioning circuit are carefully followed.

Oil the pipe unions with the recommended oil.

Proceed in the reverse order to removal.

Tighten the refrigerant pipes retaining bolts on the compressor to 3 daN.m.

Fill the refrigerant circuit using the filling station (see section 62 "General").
Disconnect the battery.

Drain the refrigerant circuit using the filling station (see section 62 "General").

Remove:
- the engine undertray,
- the right-hand wheel arch,
- the accessories belt tensioning roller mounting bolt (see section 07).

It should be noted that all belts removed must be replaced.
Disconnect the connectors from the compressor.

- the mounting bolts of the pipes (A) on the compressor,
- the two mounting bolts of the rear support (B) of the compressor,
- the two mounting bolts (C) of the front support of the compressor.

REFITTING

If the compressor is changed, it is supplied filled with oil for refitting.

IMPORTANT: Ensure the instructions relating to adding oil when working on components of the air conditioning circuit are carefully followed.

Oil the pipe unions with the recommended oil.

Proceed in the reverse order to removal.

Tighten the refrigerant pipes retaining bolt on the compressor to 3 daN.m.

Fill the refrigerant circuit using the filling station (see section 62 "General").
SPECIAL FEATURE

The Laguna is fitted with a calibrated choke pressure relief valve.

A → evaporator side
B → condenser side

REMOVAL

Disconnect the battery.
Drain the refrigerant circuit using the filling station (see section 62 “General”).
Partially remove the left hand mudguard.
Remove:
– the radiator grille,
– the bumper (two people),
– the left hand headlight.
Release the power steering reservoir.
Slacken the union (C).
Using a pair of long nose pliers, remove the pressure relief valve.
AIR CONDITIONING
Pressure relief valve
62-15

Oil the pipe unions with the recommended oil.
Proceed in the reverse order to removal.
Fill the refrigerant circuit using the filling station (see section 62 “General”).
When changing the condenser, add 10 ml of recommended oil to the compressor.
Evaporator unit

Note: locking the air bag computer also unlocks the electric steering column lock.

REMOVAL

Remove:
– the steering wheel air bag cushion. To do this, insert a screwdriver into the hole (1) then move it upwards (2).
– the steering wheel air bag and the connectors of the cruise control buttons (depending on version).
– the steering wheel bolt,
– the steering wheel after setting the wheels straight,
– the interior dial cover,
– the steering wheel half cowlings.

Disconnect the stalks (wipers, radio and lighting controls), the rotary switch connectors (air bag and cruise control) and the steering wheel angle sensor.

Before removing the rotary switch assembly, mark its position:
– ensuring that the wheels are straight at the time of removal,
– checking that the “0” mark on the rotary switch is correctly positioned opposite the index.

Undo the bolt then release the steering column assembly.

Remove:
– the instrument panel,
– the dashboard switches,

IMPORTANT: all work on the air bag and pretensioner systems must be carried out by qualified personnel who have received the proper training.

IMPORTANT: It is not permitted to handle the pyrotechnic systems (air bags and pretensioners) near a source of heat or flame as there is a risk of triggering.
- the dashboard mounting bolt (1),
- the central console,
- the Renault Card reader,
- the radio (depending on version),
- the Central Communication Unit (depending on version),
- the heating and air conditioning control unit,
- the dashboard mounting bolt (2),
- the split radio display or the Carminat screen (depending on version) then release the harness,
- the sunshine sensor (3),
– the sun visors,
– the trim from the windscreen pillars; to do this, simply release the trim sufficiently to be able to press the upper clip, then release the pillar and pull it upwards.
– the tweeters,
– the sides of the dashboard,
– the side mounting bolts (A) of the dashboard,
– the interior cover of the glove compartment
– the glove compartment light,
– the light under the dashboard.

Use a flat spanner to lock the air bag mounting clip on the beam or remove the mounting bolt (depending on version).
Disconnect the passenger's air bag connector located near to the options relay/fuse box.

Remove the dashboard by releasing the clips.

NOTE: the automatic gear shift can be moved by pressing button (E) located in front of it.
Cut the carpet at (A).
Release the wiring harnesses.
Remove the rear footwell heating ducts (B).
Disconnect the black connector (C) from the fan assembly / power module.
Remove the protection end piece (D).

In the engine compartment:
Remove the engine undertray.
Drain the cooling circuit.
Unclip the coolant circuit pipes where they meet the bulkhead.
Drain the air conditioning circuit (see section 62 "General").
Remove the air conditioning pipes where they meet the bulkhead.
Remove:
– the options relay / fuse box (A),
– the voice synthesiser (B).

Remove:
– the steering column (see section 36),
– the mounting bolts (C) and (D) for the beam,
– the bolt (E) of the door striker plate in order to undo the beam bolt (D),
– the air distributor unit.

Remove:
– the particle filter,
– the blower unit,
– the three mounting bolts of the air recirculation flap.

Open the distributor unit (F) following the diagram below.
AIR CONDITIONING
Evaporator unit

Remove the evaporator.

NOTE: The evaporator outlet is located under the exhaust heat shield.

REFITTING

Oil the pipe unions with the recommended oil. Proceed in the reverse order to removal.

IMPORTANT: It is essential to fit the electrical harness correctly to avoid any possible damage. Refitting the dashboard:

– Before replacing the dashboard, position the harnesses for the tweeters, the display and the sunshine sensor.
Connect the passenger’s air bag harness.

Features of the rotary switch:
- Ensure that the wheels are still straight.
- Check that the rotary switch is correctly positioned by checking that the “0” mark of the rotary switch is opposite the index.

Features of the instrument panel surround:
- Fit the instrument panel and the steering wheel lower half cowling,
- Position the upper half cowling by placing the leather part as shown below:
- Position the adhesive strip of the steering wheel upper half cowling on the surround,
- Clip the surround onto the dashboard.

Features of the steering wheel

**IMPORTANT:** The splines of the steering wheel are designed such that the steering wheel can only be fitted in one way. Take care not to damage them.

The steering wheel should be inserted freely into the splines.

Replace the steering wheel bolt every time it is removed and tighten to the correct torque (torque of 4.4 daNm).

Features of the air bag

Unlock the air bag computer.

Fill the cooling circuit.

Fill the air conditioning circuit using the filling station (see section 62 "General").

**IMPORTANT:** Before reconnecting the driver's air bag, the procedure for checking the correct operation of the system must be carried out:

- Check that the air bag warning light on the instrument panel lights up when the ignition is switched on (computer unlocked), connect a dummy ignition module to the connector or each air bag cushion and check that the warning light goes out,
- Switch off the ignition, connect the air bag in place of the dummy ignition modules and position it on the steering wheel,
- Switch on the ignition and check that the warning light comes on for 3 seconds when the ignition is switched on then goes out.

If the warning light does not go out, refer to the "fault finding" section.

**WARNING:** If these instructions are not followed the system may not operate normally and could even cause erratic triggering.
Disconnect the battery.
Drain the R134a refrigerant circuit using the filling station (see section 62 "General").

For diesel engines, the particle filter must be disconnected and the diesel pipes unclipped.

HIGH PRESSURE PIPE BETWEEN THE COMPRESSOR AND THE CONDENSER REMOVAL

Remove:
– the covers,
– the mounting bolt on the compressor,
– the mounting bolt on the condenser,
– the pipe.
Fit plugs to the ports.

REFITTING
Proceed in the reverse order to removal.
Oil the pipe unions with the recommended oil. When changing a pipe, add 10 ml of oil or when a pipe bursts (rapid leak), add 100 ml.

HIGH PRESSURE PIPE BETWEEN THE COMPRESSOR AND THE EVAPORATOR REMOVAL

Remove:
– the covers,
– the radiator grille,
– the bumper,
– the headlight,
– the mounting bolt on the condenser.
Unclip the power steering reservoir.
Remove:
– the support of the power assisted steering fluid reservoir (A),
– the acoustic shield (B).
---

**AIR CONDITIONING**

**Connecting pipes**

Remove:
- the torque reaction arm,
- the mounting bolt on the evaporator where it meets the bulkhead.

Remove the pipe.
Fitting with plugs.

**NOTE**

The pipe can be separated at the threaded union.

---

**REFITTING**

Proceed in the reverse order to removal.

Oil the pipe unions with the recommended oil.

When changing a pipe, add 10 ml of oil or when a pipe bursts (rapid leak), add 100 ml.

---
AIR CONDITIONING

Connecting pipes

LOW PRESSURE PIPE BETWEEN THE EVAPORATOR AND THE DEHYDRATION CANISTER

REMOVAL
- the covers,
- the torque reaction arm,
- the mounting bolt on the evaporator where it meets the bulkhead,
- the mounting bolt on the dehydration canister.

Remove the pipe.
Fit plugs to the ports.

REFITTING
Proceed in the reverse order to removal.

Oil the pipe unions with the recommended oil.
When changing a pipe, add 10 ml of oil or when a pipe bursts (rapid leak), add 100 ml.

LOW PRESSURE PIPE BETWEEN THE DEHYDRATION CANISTER AND THE COMPRESSOR

REMOVAL
- the covers.
- Unclip the power steering reservoir.
- the mounting bolt on the dehydration canister,
- the mounting bolt on the compressor.

Remove the pipe.
Fit plugs to the ports.

REFITTING
Proceed in the reverse order to removal.

Oil the pipe unions with the recommended oil.
When changing a pipe, add 10 ml of oil or when a pipe bursts (rapid leak), add 100 ml.
The tri-function pressure switch fitted on the condenser outlet protects the refrigerant circuit.

- **Low pressure cut-off:** 2 bars
- **High pressure cut-off:** 27 bars

It informs the injection computer of the pressure in the refrigerant circuit. The injection computer controls the engine cooling fans depending on the high pressure in the refrigerant circuit and the vehicle speed.

The pressure switch can be removed without draining the refrigerant circuit. An automatic shut-off valve isolates the circuit against the environment when the switch is removed.

Air intake and shut-off mechanisms ensure the proper operation of the air conditioning system.
The power module controls the speed of the blower depending on the requirements determined by the automatic control. It can be accessed from underneath the dashboard.

**REMOVAL**
- Remove the protective cover under the dashboard.
- Remove the two mounting bolts of the power module.
- Remove the power module.
- Disconnect the wiring.

**REFITTING**
Proceed in the reverse order to removal.
The recirculation motor positions the air inlet flap depending on the requirements determined by automatic control.

The recirculation motor can be accessed once the beam has been removed (see method for removing the evaporator).

**REMOVAL**

1. Disconnect the wiring.
2. Remove:
   - the two mounting bolts of the recirculation motor,
   - the recirculation motor.

**REFITTING**

Proceed in the reverse order to removal.
The mixing motor positions the air inlet flap depending on the requirements determined by automatic control.

**REMOVAL**

Remove the trim.

- Remove the four reinforcement retaining bolts.
- Disconnect the wiring.
- Remove:
  - the two mounting bolts of the mixing motor,
  - the mixing motor.

**REFITTING**

Proceed in the reverse order to removal.
The mixing motor positions the air inlet flap depending on the requirements determined by automatic control. The right hand mixing motor can be accessed after the dashboard has been removed (see method for removing the evaporator).

**REMOVAL**
- Disconnect the wiring.
- Remove:
  - the two mounting bolts of the mixing motor,
  - the mixing motor.

**REFITTING**
Proceed in the reverse order to removal.
The distribution motor positions the air inlet flap depending on the requirements determined by automatic control.

**Removal**
- Disconnect the wiring.
- Remove:
  - the two mounting bolts of the distribution motor,
  - the distribution motor.

**Refitting**
Proceed in the reverse order to removal.

The air distribution motor positions the air inlet flap depending on the requirements determined by automatic control.

**Removal**
- Disconnect the wiring.
- Remove:
  - the two mounting bolts of the air distribution motor,
  - the air distribution motor.

**Refitting**
Proceed in the reverse order to removal.
The evaporator sensor provides information about the temperatures at the evaporator outlet. It is a negative temperature coefficient (NTC) thermistor.

**REMOVAL**

- Remove the trim.
- Remove the four reinforcement retaining bolts.
- Disconnect the wiring.
- Remove the sensor by rotating through a 1/4 turn.

**REFITTING**

Proceed in the reverse order to removal.
The passenger compartment temperature sensor provides information about the temperature inside the vehicle. It is a negative temperature coefficient (NTC) thermistor.

**LOCATION**

The sensor is located in the courtesy light.

**REMOVAL**

- Remove the courtesy light cover,
- Remove the two mounting bolts of the micro-turbine,
- Remove the micro-turbine assembly.
- Disconnect the wiring.

**REFITTING**

Proceed in the reverse order to removal.
AIR CONDITIONING
Exterior temperature sensor

The exterior sensor provides information about the temperature outside the vehicle. It is a negative temperature coefficient (NTC) thermistor.

LOCATION
The sensor is located in the left-hand rear view mirror.

REMOVAL
- Remove the rear-view mirror glass.
- Remove the sensor assembly.
- Cut the sensor wiring.

REFITTING
- Make a wire joint with the new sensor.
- Proceed in the reverse order to removal.
The humidity sensor is located in the micro-turbine. The sensor measures the humidity in the passenger compartment. It is a capacitive sensor: the resistance changes with humidity.

**LOCATION**
The sensor is located in the courtesy light.

**REMOVAL**
- Remove the courtesy light cover,
- Remove the two mounting bolts of the micro-turbine,
- Remove the micro-turbine assembly.
- Disconnect the wiring.

**REFITTING**
Proceed in the reverse order to removal.
The sunshine sensor informs the computer so that the air flow from the vents can be corrected depending on solar radiation.

**LOCATION**
The sensor is located in the center of the dashboard.

**REMOVAL**
- Unclip the black cover.
- Disconnect the sensor connector.

**REFITTING**
Proceed in the reverse order to removal.
Air quality sensor

The sensor permanently analyses the change in gas concentration.
The sensor is protected by a membrane which allows gas molecules through but traps humidity and dust.

It can be accessed from underneath the dashboard.

**REMOVAL**
- Remove the protection cover under the dashboard.
- Remove the interior cover of the glove compartment.
- Remove the mounting bolt of the air quality sensor.
- Remove the air quality sensor.

**DISCONNECT**

**REFITTING**
Proceed in the reverse order to removal.