

FUNCTION : ELECTRICALLY-CONTROLLED SEATS

N.B. : (*) According to version.

The system has 4 motors to carry out all of the seat movements :

- Seat slide adjustment motor
- Seat back angle adjustment motor
- Seat angle adjustment motor
- Seat height adjustment motor

The system also has the following components :

- 8Inflating pockets to provide all the massage modes (*)
- 2Inflating pockets to adjust the lumbar support (*)
- 2Heated pads to heat the seats (*)
- 2Fans to ventilate the seats (*)

1. Functions of the electric seat

1.1. Driver's seat (With driver's seat comfort ECU)

The user can carry out the following movements :

- Seat slide movement
- Seat back angle movement
- Seat cushion angle movement
- Seat height movement

On starting, the user can act directly on the various movements of the seats by pressing the seat adjustment and movement buttons.

The driver's seat comfort ECU receives the information corresponding to the user's request.

The driver's seat comfort ECU controls the motor associated with this request.

The movement of the seat continues until the user releases the control or a mechanical stop is detected.

The memorisation keypad is lit when seat movements are authorised.

A press on one of the electric adjustment controls stops the movement recalling a memorised position.

An adjustment of the positions of the seats is still possible in the following instances :

- For 45 seconds after opening or closing of a door even though the ignition has been switched off
- For 45 seconds after the ignition is switched off

1.2. Passenger's seat

The user can carry out the following movements :

- Seat slide movement
- Seat back angle movement
- Seat cushion angle movement
- Seat height movement

The user controls the seat cushion angle adjustment motor by means of the seat cushion angle switch.

The movement of the seat continues until the user releases the control or a mechanical stop is detected.

2. Seat memorisation function (*)

2.1. Memorisation (Driver's seat)

On the order of the built-in systems interface, the driver's seat comfort ECU memorises position "M1" or "M2" of the seat.

"M1" : Seat memorisation N° 1 (From the memory keypad).

"M2" : Seat memorisation N° 2 (From the memory keypad).

Following the adjustment of the driver's seat, the user can memorise the position of the seat using the memorisation controls "1" and "2".

It is possible to store 2 different seat positions, using the memorisation keypad.

The memorisation comes into effect when you switch on the ignition, with a press on button "M", followed by a press on button "1" or "2" within 4 seconds.

A sound signal confirms this memorisation.

There is no memorisation in the following cases :

- Pressing key "1" or key "2" of the memorisation keypad more than 4 seconds after the press on key "M"
- When a seat adjustment is made after the press on key "M"

N.B. : If the vehicle speed is above 5 km/h, movement of the seat is prevented when you just touch button "1" or "2" but authorised if you give a continuous press. Memorising a new position of the driver's seat cancels the previous one.

2.2. Memorised position recall control

On the order of the built-in systems interface, the driver's seat comfort ECU recalls the position of the driver's seat via the pressing of button "1" or "2" on the memorisation keypad "M1", "M2".

Sequence for recalling a memorised position of the driver's seat :

- Simultaneous adjustment of the seat's slide and back
- Simultaneous adjustment of the seat cushion height and angle

Recall of the position of the driver's seat is still possible for 45 seconds after switching off the ignition.

Any action on the driver's seat adjustment controls cancels the memorised position recall.

N.B. : Recall of the driver's seat position is not possible when the vehicle is moving.

3. Function : Heated and ventilated seats (*)

3.1. Heated seats

Seat heating positions using the temperature selection dial or the multifunction screen :

- Position 0 : Off
- Position 1 : Low heat
- Position 2 : Moderate heat
- Position 3 : High heat

The driver's seat comfort ECU controls the temperature of the driver's seat heated pads in accordance with the following elements :

- Reference value given by the user
- Heated pads with integrated temperature sensor

The passenger's seat heated pads and ventilation regulation ECU controls the temperature of the seat's heated pads in accordance with the following elements :

- Reference value given by the user
- Heated pads with integrated temperature sensor

N.B. : The heated seat system is active only with the engine running.

3.2. Ventilated seats

Seat ventilation positions using the ventilation speed multifunction screen :

- Position 0 : Off
- Position 1 : Low ventilation
- Position 2 : Moderate ventilation
- Position 3 : High ventilation

The driver's seat comfort ECU controls the seat's fans in accordance with the setting chosen by the user.
The passenger's ventilation regulation and seat heated pads ECU controls the seat's fans in accordance with the setting chosen by the user.

N.B. : The multifunction screen is used to select either heating or ventilation.

4. Front seat pneumatic functions (*)

4.1. Massaging seats (*)

The system has 8 inflating pockets located in the seat backs to provide all the massage modes.

The massage function can only be activated with the ignition on and the engine running.

The front seat pneumatic functions ECU receives the massage function activation/deactivation requests from the user.

The front seat pneumatic functions ECU controls the front seat pneumatic functions pump.

The front seat pneumatic functions ECU distributes the pneumatic flow in the inflating pockets in accordance with the massage mode selected by the user via the multifunction screen.

The massage, lasting a total of 60 minutes, is composed of 6 cycles of 10 minutes.

Each massage cycle comprises 6 minutes massage followed by 4 minutes pause.

During a massage cycle, it is still possible to make adjustments to the seat electrically, without stopping the massage function.

The user can choose from 3 levels of massage intensity via the multifunction screen :

- Level 1 : Light massage
- Level 2 : Moderate massage
- Level 3 : Firm massage

Conditions for stopping of the massage function :

- Change of the engine status from running to not running
- The user deactivates the massage function
- The 60 minutes cycle is completed

N.B. : The massage function is not available if the "energy economy" mode is active.

4.2. Lumbar adjustment

4.2.1. Lumbar support adjustments with front seat pneumatic functions ECU (*)

The user operates the vertical and horizontal movements of the front seat lumbar supports; by means of the front seat lumbar support adjustment switch.

The front seat pneumatic functions ECU receives the front seat lumbar supports horizontal and vertical movements pneumatic control commands.

The front seat pneumatic functions ECU controls the front seat pneumatic functions pump.

The front seat pneumatic functions ECU controls the 2 inflating pockets to carry out the vertical and horizontal movements of the front seat lumbar supports.

On the order of the built-in systems interface, the driver's seat pneumatic functions ECU memorises and recalls the positions of the lumbar supports (*).

4.2.2. Lumbar support adjustments with front seat lumbar support pneumatic control module (*)

The user operates the vertical and horizontal movements of the front seat lumbar supports; by means of the front seat lumbar support adjustment switch.

The front seat lumbar support pneumatic control module receives the front seat lumbar supports horizontal and vertical movements pneumatic control commands.

The front seats lumbar support pneumatic control module controls the 2 inflating pockets to carry out the vertical and horizontal movements of the front seat lumbar supports.

On the order of the built-in systems interface, the driver's seat lumbar support pneumatic control module memorises and recalls the positions of the lumbar supports (*).