

General



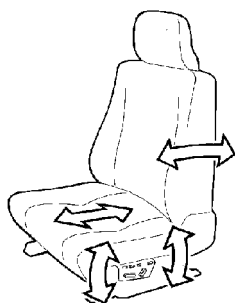
Power seats are available as a factory installed option. They are available for both the driver's and passenger sides.

Three settings can be stored for the seat using the memory buttons.

The control module, which is positioned under the seat cushion, controls four different motors. Three of the motors are positioned under the seat. The fourth motor is in the backrest. The control module and memory receives data about the seat position via signals from the four position sensors. This consists of potentiometers which drive a worm gear on each motor output shaft.

Seat controls

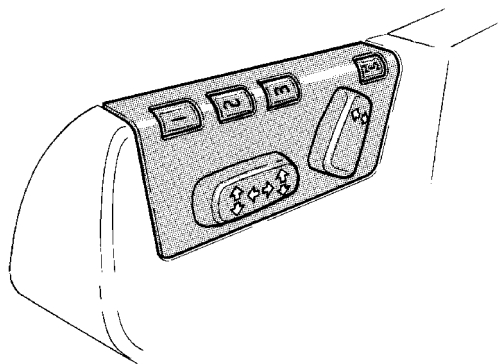
General



There are six control buttons - the seat squab control shaped like the seat squab, the seat backrest control shaped like the seat backrest and the four memory buttons.

Pressing more than one control or memory button at the same time will result in the seat coming to an emergency stop.

Functions



- The control shaped like a seat squab controls the seat height at the front and rear and moves the seat backward and forward.
- The control shaped like a backrest controls the backrest angle. The lumbar support is adjusted manually.
- The three memory buttons, which are marked 1, 2 and 3 are used to store and recall seat adjustment settings. To move the seat into a pre-set and stored position, hold a memory button down until the seat has reached that position. If the button is released while the seat is moving to the stored

position it will stop moving immediately.

To store a seat position:

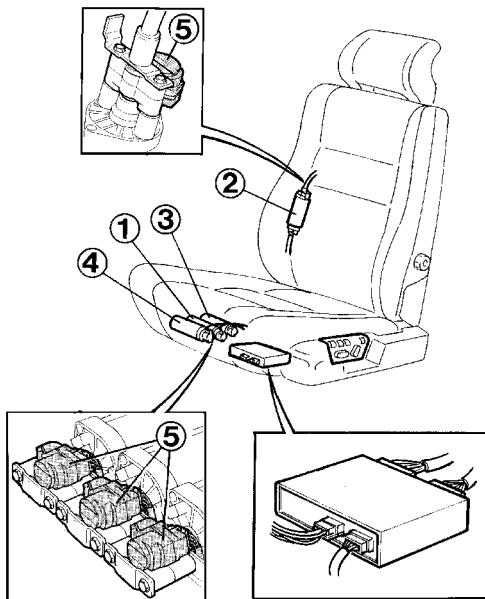
- * Operate the power seat controls until the seat is in the position required.
- * Then press the programming button, marked MEM and keep it pressed in.
- * At the same time press one of the memory buttons and the seat position is now stored in the control module memory.

Motors and potentiometers

Motors

The four motors control the following functions:

- Motor 1 moves the seat backward and forward.
- Motor 2 controls the backrest angle.
- Motor 3 controls the height of the rear of the seat cushion.
- Motor 4 controls the height of the front of the seat cushion.



Potentiometers

The potentiometers (5) act as position senders and provide the control module with feedback information on the position of the seat. They are driven by a worm gear located on the output shaft of each motor.

The resistance in the potentiometer is proportional to the output shaft position.

Control module

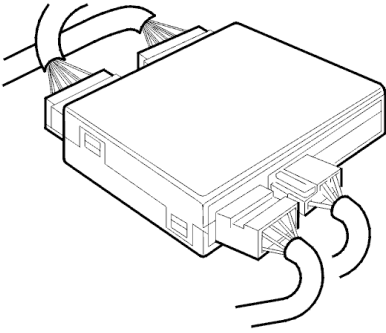
General

The control module is located underneath seat. The control module has a microprocessor and a number of relay functions, a dual relay for each

motor and a main relay for the main power supply.

Seat positions are stored in an EEPROM type memory. This type of memory stores information indefinitely, even if there is no power to the control module.

Safety functions



Power to the relays and electronics is controlled directly by the control buttons. When the seat is not being operated all power to the motors is cut to ensure that the seat stops moving.

If more than one button is operated at the same time, the seat will stop. The only motors which can be operated simultaneously are those controlling the seat cushion height.

If an open-circuit, short-circuit to ground or supply occurs in the leads to the motors or sensors, this will be detected when trying to operate the motor because the sensor signal will not change. The motor concerned is then disabled.

If a button is held down for longer than 60 seconds, the power is cut to the main relay. This function is controlled by a timer circuit in the control module.