

POWER SEAT CONTROL SYSTEM (Passenger's seat)

DESCRIPTION

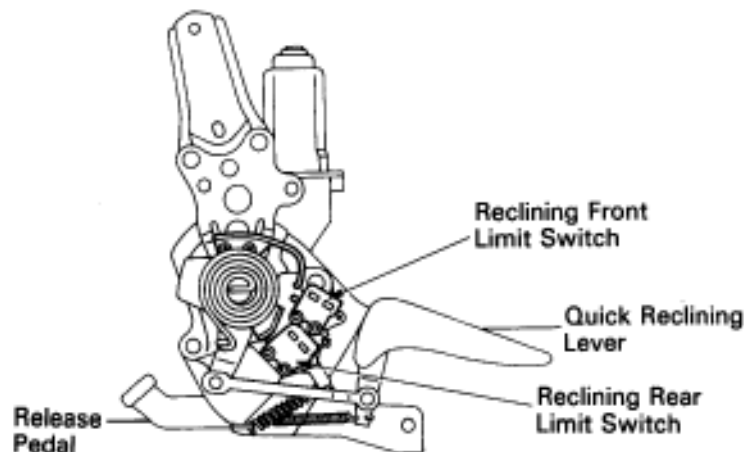
In walk-in operation, when the passenger's seat back is reclined fully forward, this is detected by the limit switch and the seat slides forward electronically. In return operation, when the seat back is pulled upright the seat slides back electronically.

1). Walk-in Operation

- a). When the initial seat position is 100 mm (3.94 in.) or more behind the the foremost position, the seat will slide forward 100 mm (3.94 in.) in one slide operation.
- b). When the initial seat position is less than 100 mm (3.94 in.) away from the foremost position, the seat only slides forward to the foremost position.
- c). If the seatback is raised approximately 10° during walk-in operation, slide operation stops and will not resume even if the seatback is fully reclined again.
- d). If the seatback is pulled upright to a lock position during slide operation, the seat slide direction is reversed (becomes return operation).
- e). Walk-in operation will not occur when the slide manual switch is operated or when the tongue of the passenger's seat belt is inserted in the buckle.

2). Return Operation

- a). If the seatback is reclined a minimum of 10° during return operation, the slide operation stops and will not resume even if the seatback is pulled back to lock position.
- b). If the seatback is reclined forward during return operation, the seat slide direction changes to forward movement (walk-in operation).
- c). When the slide manual switch is operated or the slide distance exceeds 150 mm (5.91 in.), return operation stops.



Parts Name	Function
Passenger's Seat ECU	The passenger seat ECU controls the distance the seat slides when the power seat switch is operated and also controls the power slide distance during return operation.
Power Seat Switch	When the power seat switch is operated, a seat slide signal is sent to the ECU. The reclining slide of the switch is linked directly to the motor operation.
Slide Position Sensor	The slide position sensor detects the slide distance during walk-in operation and inputs the information to the ECU.
Slide Neutral Limit Switch	This switch detects the neutral position of the seat slide and input the information to the ECU.
Reclining Front Limit Switch	This switch detects when the seatback is inclined fully forward and informs the ECU.
Reclining Rear Limit Switch	This switch detects when the seatback is pulled back and informs the ECU.
Motor	There are two motors, one each for seat sliding and for reclining.
Tension Reducer and Buckle Switch	This switch inputs a signal to the ECU to inform it whether the tongue of the passenger's seat belt is inserted in the buckle.

