

## SYSTEM DESCRIPTION

### 1. FRONT POWER SEAT CONTROL SYSTEM DESCRIPTION

- The power seat is standard equipment for the front seats and optional equipment for the rear seats.
- On the LS430, a memory system for the driver seat is provided as standard equipment.

### 2. FUNCTION OF MAIN COMPONENT

The following functions are available.

Components	Function
Seat slide motor	Receives signal from driver seat ECU, motor operates, and driver side's seat slides forward and rearward.
Seat reclining motor	Receives signal from driver seat ECU, motor operates, and driver side's seat reclines forward and rearward.
Seat cushion slide motor	Receives signal from driver seat ECU, motor operates, and driver side's seat cushion slides.
Seat front vertical motor	Receives signal from driver seat ECU, motor operates, and driver side's seat front vertical raises and lowers.
Seat rear vertical motor	Receives signal from driver seat ECU, motor operates, and driver side's seat rear vertical raises and lowers.
Seat lumbar support upper motor	Receives signal from driver seat ECU, motor operates, and driver side's seat lumbar support upper can be adjusted.
Seat lumbar support lower motor	Receives signal from driver seat ECU, motor operates, and driver side's seat lumbar support lower can be adjusted.
Seat headrest height motor	Receives signal from driver seat ECU, motor operates, and driver side's seat headrest raises and lowers.
Seat position sensor	Is built in each seat adjuster and sends seat position data to driver seat ECU so that it can detect seat positions at all times.
Seat control switch	Based on switches operated, seat adjuster signals are input into driver seat ECU and seat is adjusted accordingly. Lumbar support adjustments are also done.
Set switch Memory switch	When set switch and memory switch are pressed simultaneously, SET, 1, 2 or 3 switch is input to driver door ECU and driver side's seat position is recorded. Then, when memory switch is pressed, SET, 1, 2 or 3 switch is input to driver door ECU and driver side's seat position changes according to memory.

### 3. SYSTEM OPERATION

The front power seat's adjustment and position memory are shown in the chart below.

Seat Adjustment Function	Driver	Front Passenger
Fore-and-Aft Slide	Power and memory	Power
Reclining	Power and memory	Power
Cushion Slide	Power and memory	–
Front Vertical Height	Power and memory	Power
Rear Vertical	Power and memory	Power
Dual Lumbar Support	Power	–
Single Lumbar Support	–	Manual
Headrest Fore-and-Aft	Manual	Manual
Headrest Height	Power and memory	Power

For the memory function, first, memory switch operation is transferred from the driver door ECU to the driver seat ECU via the multiplex communication line. Then, either the seat position is recorded in memory or a previously recorded seat position is recalled.