

## SYSTEM DESCRIPTION

### 1. POWER MIRROR CONTROL SYSTEM DESCRIPTION

This system has these functions: automatic glare-resistant electrochromic (EC) mirror, reverse shift-linked mirror, electrical remote control type mirror, memory function, rear window defogger-linked mirror defogger, ignition switch-linked automatic electrical retractable mirror, and wiper-linked mirror defogger.

### 2. FUNCTION OF MAIN COMPONENT

Components	Function
Vertical mirror motor	Receives signal from door ECU and adjusts remote control mirror in the vertical direction.
Horizontal mirror motor	Receives signal from door ECU and adjusts remote control mirror in the horizontal direction.
Mirror retract motor	Receives signal from door ECU and retracts and returns remote control mirror.
Mirror defogger	Receives signal from door ECU and starts mirror defogger.
EC mirror cell	Varies reflection rate of mirror through function of EC elements.
Mirror retract switch	Switch that retracts and returns remote control mirror. Mirror retract and return signals are sent to door ECU through driver side J/B ECU.
Mirror control switch	After selecting "R" or "L" switch, control switches change angle of mirror. Mirror signals are sent to door ECU through driver side J/B ECU.
Mirror master switch	Consists of "R" and "L" switch. One must be chosen before mirror control switches can be operated.
Mirror position sensor	Detects remote control mirror position. This data is detected by door ECU.
Set switch Memory switch	When set switch and memory switches are pressed simultaneously, SET, 1, 2 or 3 switch is input to driver door ECU and remote control mirror position is recorded. Then, when memory switch is pressed, 1, 2 or 3 switch is input to driver door ECU and remote control mirror position changes according to memory.

### 3. SYSTEM OPERATION

The remote control mirror has following features:

Function	Outline
Ignition switch-linked automatic electrical retractable mirror	This function automatically retracts remote control mirrors when ignition switch is turned from ON to LOCK. This feature improves convenience of vehicle by eliminating need to manually operate mirror retract switch after stopping vehicle.
Manual electrical retractable mirror	This function retracts remote control mirrors when mirror retract switch is pressed.
Reverse shift-linked mirror	This function directs mirror surface downward to improve visibility when driving in reverse, provided that all conditions given below have been met. • Ignition switch is ON. • Shift lever is moved from position other than "R" to "R". • Mirror master switch is in "R" or "L" position.
Electrical remote control type mirror	When mirror control switch is operated, this function moves mirror surface vertically or laterally to enable driver to attain optimal mirror angle. Setting mirror master switch to "R" position operates right mirror, and to "L" position operates left mirror.
Rear window defogger-linked mirror defogger	This function automatically turns on mirror defogger when rear window defogger switch is turned on. After 15 minutes have elapsed from time this function has been activated, rear window defogger turns off automatically, and the mirror defogger also turns off.
Wiper-linked mirror defogger	To improve rear visibility in the rain, this system automatically turns on mirror defogger when wiper switch is turned on.
Automatic glare-resistant EC mirror	This function helps to reduce glare/reflection in inner mirror during nighttime driving for safe driving conditions. Glare/reflection from vehicle headlights behind driver could blind driver and cause dangerous driving conditions.
Memory function	This function stores adjusted mirror position in driver and front passenger door ECUs. Accordingly, mirrors automatically revert to their original positions after "reverse shift-linked mirror" function has been completed.