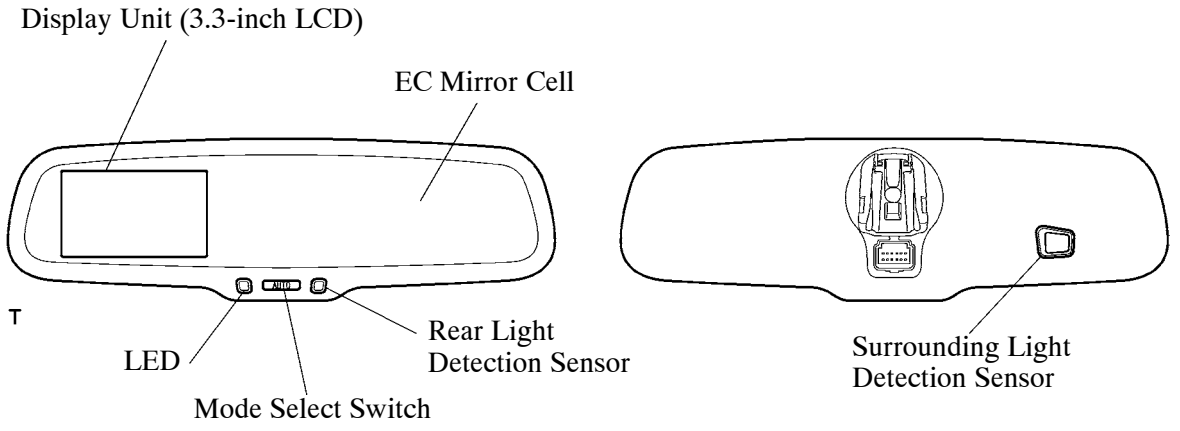
REAR VIEW MIRROR

■ GENERAL

- The inner rear view mirror assembly, which uses an automatic glare-resistant EC (Electrochromic) mirror including a 3.3-inch LCD display for the rear view monitor system, has been provided.* For details about the rear view monitor system, refer to page 30.
- The automatic glare-resistant EC mirror is inoperative while the rear view monitor system is operating because the display unit is integrated into the EC mirror cells of the inner rear view mirror assembly.

*: Models with automatic glare-resistant EC mirror and rear view monitor system



■ AUTOMATIC GLARE-RESISTANT EC MIRROR

1. General

During nighttime driving, if a large difference in intensity exists between the surrounding light and the light reflected off the inner rear view mirror assembly from the headlights behind, an automatic glare-resistant EC mirror automatically reduces the reflection rate of the inner rear view mirror assembly and thus dampens the glare from the mirror.

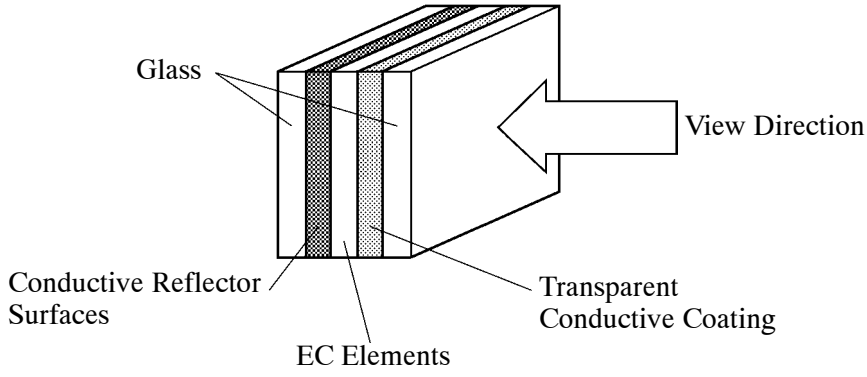
- This system uses 2 sensors (the surrounding light detection sensor and the rear light detection sensor) that are present in the inner rear view mirror assembly to detect the difference between the intensity of light in the environment, and the light that the inner rear view mirror assembly receives from the rear of the vehicle.
- When the ignition switch is changed from OFF to ON (IG), this system defaults to AUTO mode.

2. Function of Components

Component	Function
Surrounding Light Detection Sensor	Detects the intensity of the light surrounding the vehicle.
Rear Light Detection Sensor	Detects the intensity of the light that strikes the inner rear view mirror assembly from behind the vehicle.
LED	Turns on to inform the driver that the AUTO mode is operating.
Mode Select Switch	Changes the mode between AUTO and AUTO OFF when the switch pressed 6 seconds.
EC Mirror Cell	Varies the reflection rate of the mirror using the EC element.

3. EC Mirror Cell

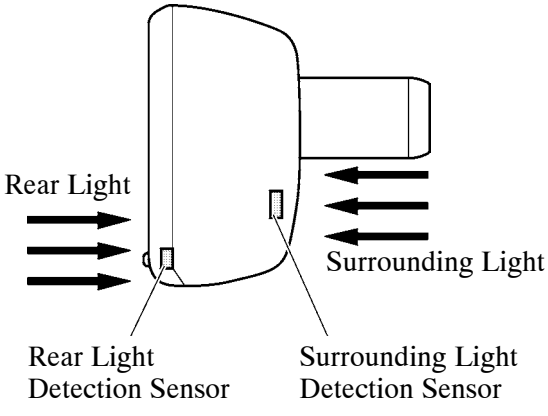
- The EC elements are placed between a layer of transparent conductive coating, and a layer of conductive reflector surfaces, which are placed between 2 sheets of glass.
- The EC elements have color changing characteristics. These characteristics are utilized to electronically vary the mirror reflection rate through an electrochemical oxidation reduction reaction.



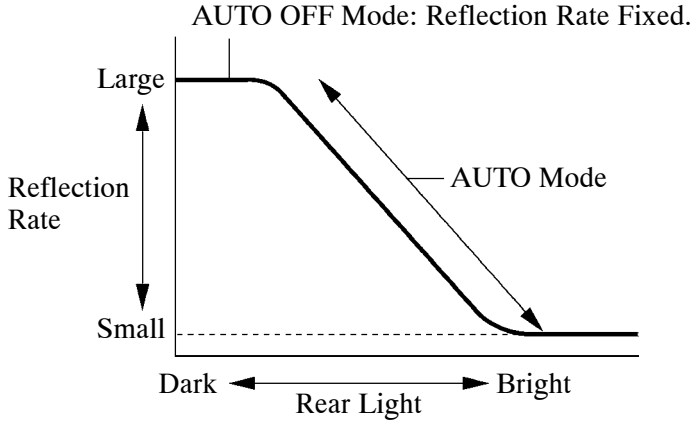
025BE185P

4. Reflection Rate Control

This CPU detects the surrounding light using its surrounding light detection sensor and the rear light using its rear light detection sensor, and determines whether it is day or night based on the intensity of the surrounding light. At the same time, the intensity of the glare from the rear is determined through the difference in intensity between the surrounding and rear light. In accordance with the intensity of the rear light, the reflection rate is varied steplessly.



04Z6BE20



240BE136