

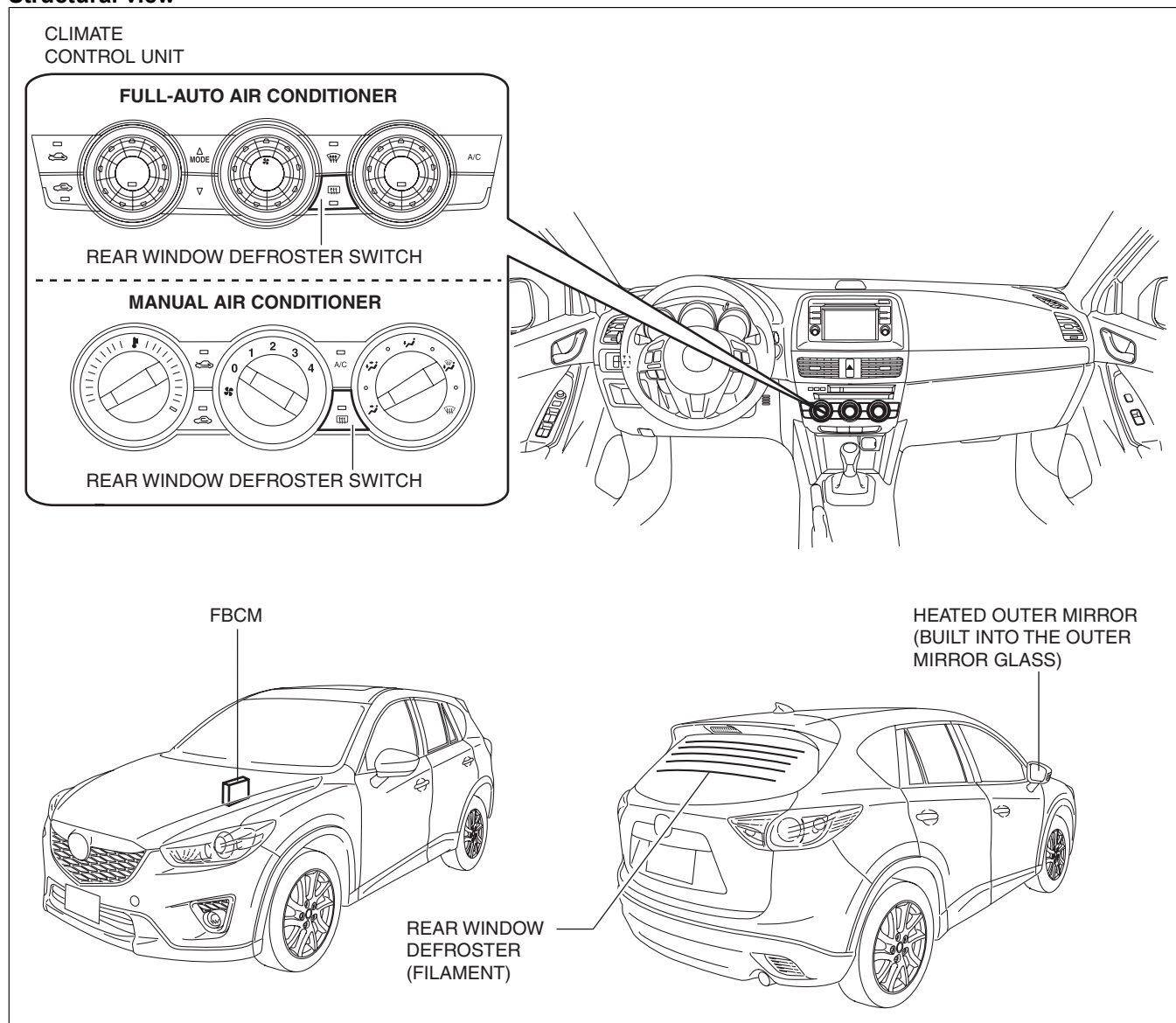
## REAR WINDOW DEFROSTER/OUTER MIRROR HEATER

id091200012100

### Outline

- Fogging is cleared from the rear window and outer mirror glass by heating of the filament.

### Structural view

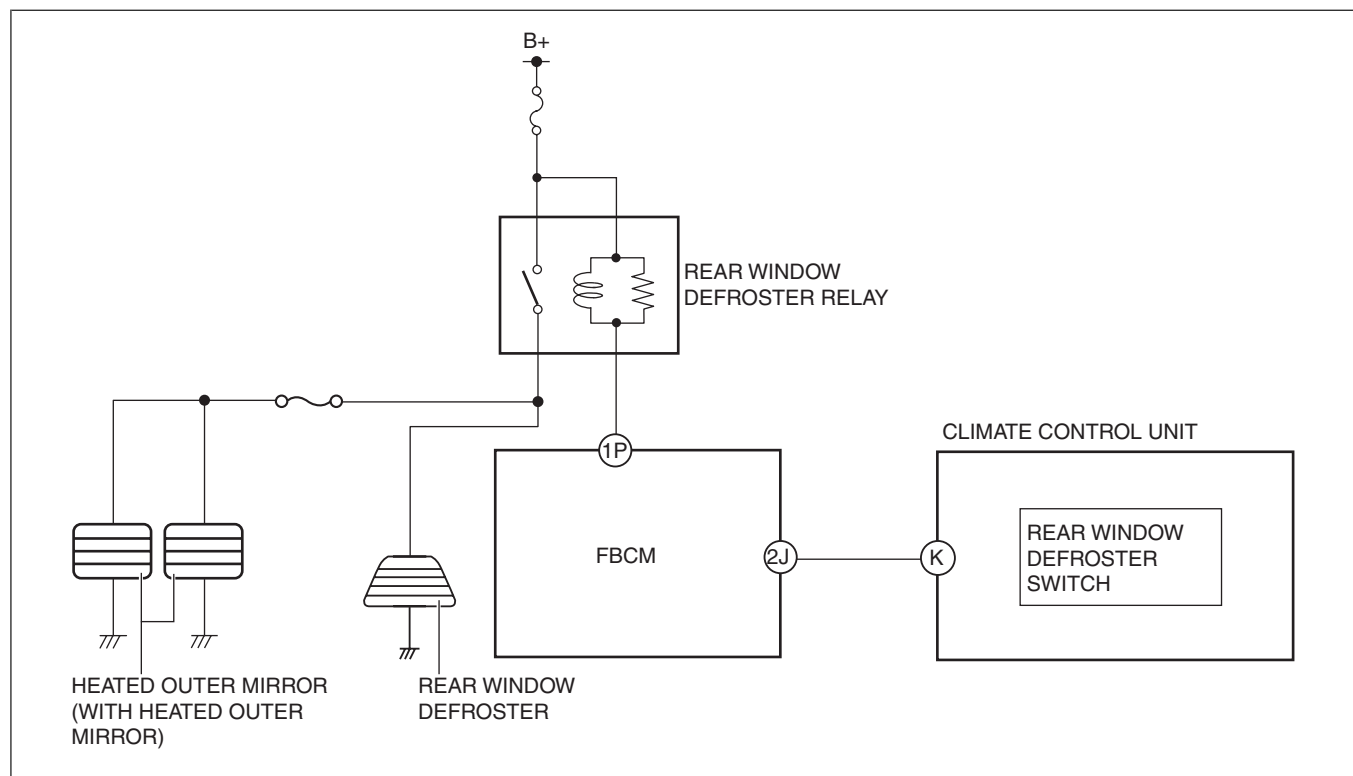


ac5wzn00001222

### System wiring diagram

The diagram illustrates the electrical circuit for the rear window defroster system. It begins with a power source labeled B+ connected to a fuse. The circuit then splits into two main paths. One path leads to the Rear Window Defroster Relay, which controls the Rear Window Defroster. The other path leads to the Heated Outer Mirror (with Heated Outer Mirror) and the Rear Window Defroster. The Rear Window Defroster is connected to the FBCM (Front Body Control Module) via a 1P terminal. The FBCM is connected to the Instrument Cluster via an HS-CAN bus (terminals 2K, 2I, B, D). The Instrument Cluster is connected to the Climate Control Unit via an MS-CAN bus (terminals C, E, 1S, 1U). The Climate Control Unit contains the Rear Window Defroster Switch, which is connected to the Rear Window Defroster relay.

### With manual air conditioner system

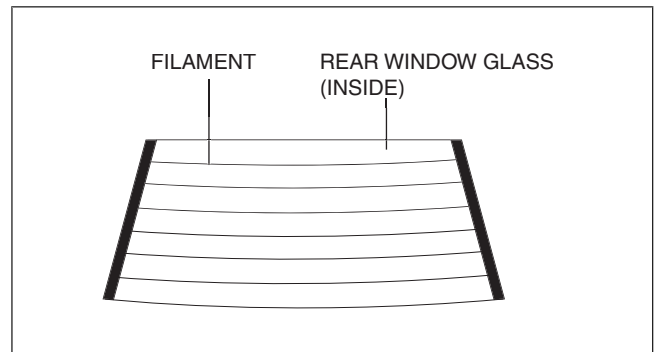


ac5wzn00001096

## Construction

### Rear window defroster

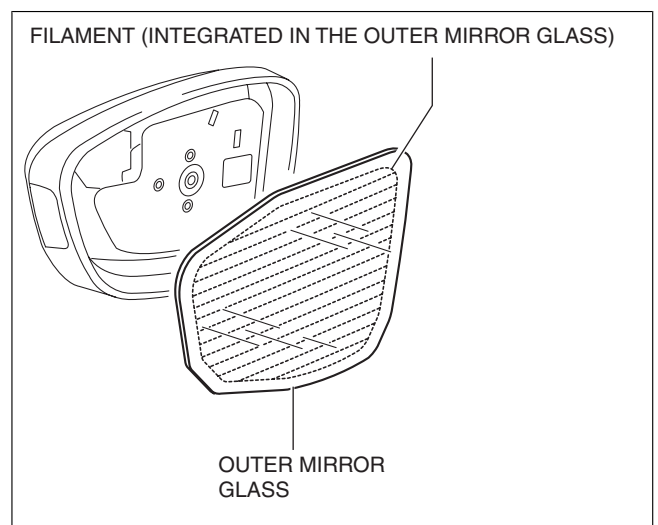
- The rear window defroster filament is inside the rear window glass.



am5ezn00000916

### Heated outer mirror

- The heated outer mirror filament is integrated in the outer mirror glass.

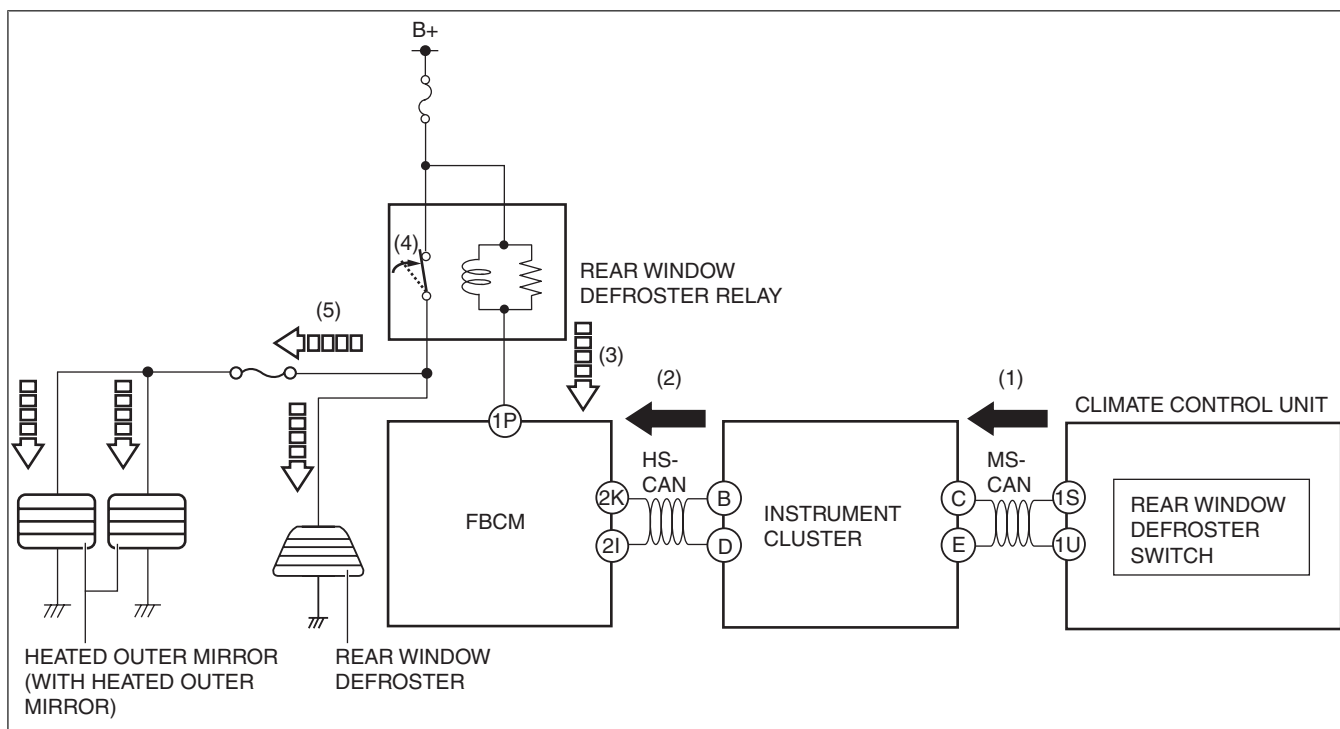


ac5wzn00000294

## Operation

### With full-auto air conditioner system

1. When the rear window defroster switch on the climate control unit is turned on (1), an ON/OFF control request signal is sent to the front body control module (FBCM) through the instrument cluster as a CAN signal.(2)
2. When the front body control module (FBCM) receives the ON/OFF control request signal, it supplies the battery voltage to the rear window defroster relay.(3)
3. When the battery voltage is supplied to the rear window defroster relay, a switch inside the rear window defroster relay is turned on.(4)
4. When the switch inside the rear window defroster relay is turned on, the battery voltage is supplied to the rear window defroster/heated outer mirrors to operate them.(5)

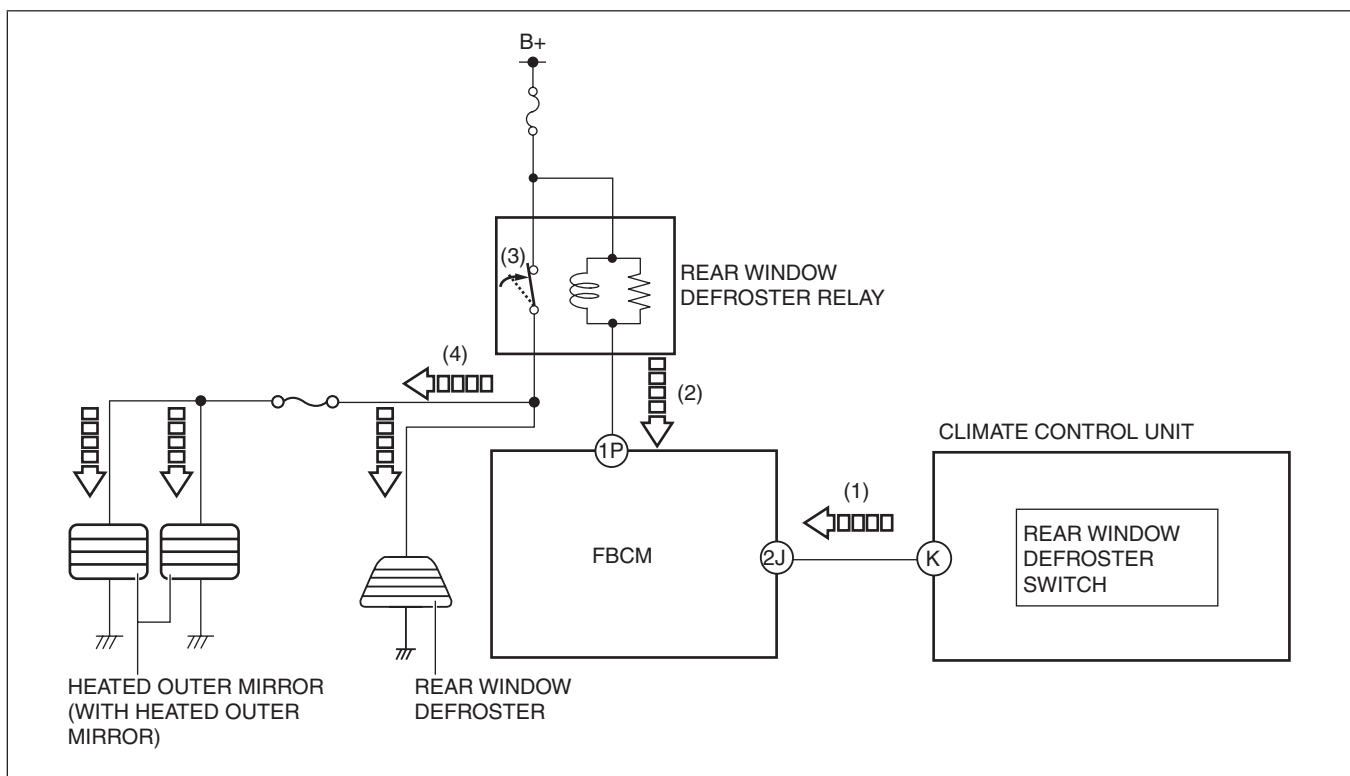


ac5wzn00001097

- When **approx. 15 min.** has elapsed after the rear window defroster switch was turned on, the timer control of the front body control module (FBCM) turns off the rear window defroster relay automatically to turn off the rear window defroster/heated outer mirror.
- When the rear window defroster switch is pressed while the rear window defroster/heated outer mirrors are operating, they stop operating.

#### With manual air conditioner system

1. When the rear window defroster switch on the climate control unit is turned on (1), a signal is sent from the climate control unit to the front body control module (FBCM) and the battery voltage is supplied to the rear window defroster relay.(2)
2. When the battery voltage is supplied to the rear window defroster relay, a switch inside the rear window defroster relay is turned on.(3)
3. When the switch inside the rear window defroster relay is turned on, the battery voltage is supplied to the rear window defroster/heated outer mirrors to operate them.(4)



ac5wzn00001223

- When **approx. 15 min.** has elapsed after the rear window defroster switch was turned on, the timer control of the front body control module (FBCM) turns off the rear window defroster relay automatically to turn off the rear window defroster/heated outer mirror.
- When the rear window defroster switch is pressed while the rear window defroster/heated outer mirrors are operating, they stop operating.

#### Fail-safe

- Function not equipped.