

	initiate a memory save or recall and is used to abort a memory recall that is in progress.
--	--

DESCRIPTION AND OPERATION > REAR VIEW MIRRORS - SYSTEM OPERATION AND COMPONENT DESCRIPTION > SYSTEM OPERATION - EXTERIOR, POWER, WITH MEMORY



NOTE: If the DDM or PDM detects a mirror motor feedback circuit fault, a timeout strategy disables the memory operations for 30 seconds to prevent system damage. After the 30 second timeout, normal operation resumes.

All functions of the power mirror feature are integrated into one switch module (integral to the LH front door window control switch). The left and right side selection buttons have an LED to indicate which one is active and a directional pad is used for directional control. Neutral is achieved by pressing the lit button to deactivate the left or right exterior mirror, or by allowing the system to time out and reset to neutral.

When the exterior mirror directional pad switch is pressed left, right, up or down with the LH or RH exterior mirror selected, the movement request is sent to the DDM through a LIN circuit. If the LH mirror is selected, the DDM supplies voltage and ground to the appropriate LH exterior mirror motor. If the RH mirror is selected, the DDM sends the passenger mirror command message with the input from the exterior mirror control switch to the PDM. The PDM then supplies voltage and ground to the appropriate RH exterior mirror motor. The DDM and PDM controls the glass movements by reversing polarity of the voltage and ground circuits being supplied to each motor.

When a memory recall or save is initiated, the DSM sends the memory command message to the DDM and PDM through the MS-CAN. Based on this message, the DDM and PDM recall the requested memory preset mirror position from internal memory or save the current mirror position to correspond with the requested preset. During a memory recall, the DDM and PDM supply voltage and ground to the appropriate exterior mirror motors to achieve the desired memory positions that are stored in memory based on feedback from the mirror motor potentiometers. To support the memory function, the DDM supplies a 5 volt reference and ground to the LH mirror motor potentiometers and the PDM supplies a 5 volt reference and ground to the RH mirror motor potentiometers. The DDM monitors the feedback voltage from the horizontal and vertical potentiometers to determine the position of the LH mirror glass and the PDM monitors the feedback voltage from the horizontal and vertical potentiometers to determine the position of the RH mirror glass. If the exterior mirror control switch is activated in any direction during a memory recall, the DDM sends the manual mirror override message to the DSM. After this message is received, the DSM sends the memory command message to abort the memory recall. After the recall is aborted, the DDM or PDM respond to the exterior mirror control switch inputs. A memory recall is also aborted if the driver seat control switch is activated in any direction during a memory recall.

The LH exterior mirror glass position presets are stored in the DDM and the RH exterior mirror glass position presets are stored in the PDM.

A memory recall or memory save can be initiated by the memory set switch, a RKE transmitter or the keyless entry keypad. For additional information on memory recall or memory save, refer to the Owner's Literature.

For additional information on the memory feature function, Refer to: Front Seats - System Operation and Component Description .