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Title: Headlight Operation and Troubleshooting

Applies To: All Post 2007 Vehicles Built with a Body Controller

DESCRIPTION

This iKNOW describes the operating modes for the headlights on post 2007 vehicles built with a body controller and diagnostic troubleshooting procedures

DAYTIME RUNNING LIGHTS

Daytime running lights are enabled into the body controller on most units by parameter 188, DTRL_Enabled. The daytime running lamps are controlled by the body controller. To enable the lights, the parking brake must be released and the key must be in the run position.

HEADLIGHTS

The headlights are turned on by a user activated switch and a switch housing in the bottom left side of the instrument cluster. The switch housing contains a circuit board that sends the switch position to the instrument cluster using a ribbon style cable that plugs in directly to the circuit board of the cluster. When the switch is in the on position, the cluster sends a hardwired signal from pin 10-1505 to pin E11-1602 Headlight_Enable_Signal at the body controller. The headlights will operate in any key position. The reason that this is hardwired and not sent via a datalink message is so that the headlights will operate in the key off position.

PARK LAMPS

The park lamp switch is located in the same switch as the headlight switch. The headlight switch housing circuit board sends a signal to the cluster circuit board, via a ribbon type cable, when the user puts the headlight switch in the park or headlight position. When the cluster circuit board gets the park brake signal, it sends a J1939 message to the cluster to enable the park lamps. The key must be in any key position, as long as the cluster is powered up and communicating. When the headlights are enabled, the park lights are automatically enabled without a separate park lamp signal being sent to the body controller.

FLASH TO PASS

The flash to pass function operates when the user pulls the multifunction switch lever towards themselves in the first 1/2 of the multifunction switch lever travel. When this happens, a momentary signal from the the multifunction switch lever pin 4 travels to the body controller at pin A14-1600 to enable the flash to pass. The flash to pass will operate in any key position other than off.

HIGH BEAM

The high beams operate when the user pulls the the multifunction switch lever towards themselves through the entire switch range of motion. When this happens, a momentary signal from the the multifunction switch lever pin 3 travels to the body controller at pin A4-1600 to enable the high beam lights. To cancel the high beam lights, a second signal must sent to the body controller identical to the enable signal. For the high beams to operate, the key must be in the run position, and the body controller must be receiving a signal at E11-1602 Headlight_Enable_Signal.

[Controls Circuit Diagram](#)

[Troubleshooting Manual](#)

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