

Daytime Running Lamps (DRL) - Daytime Running Lamps (DRL) - System Operation and Component Description

Description and Operation

System Operation

CENTRAL JUNCTION BOX (CJB)

DRL (daytime running lamps) use the full intensity low beam headlamps which are permanently illuminated when the vehicle is being driven. Two DRL systems are available depending on market requirements.

The CJB (central junction box) controls the operation of the DRL. The DRL are activated once the CJB detects an ignition on power mode 6 signal.

The CJB also monitors the lighting control switch and the auto lamps feature and overrides the DRL if required.

Component Description

DAYTIME RUNNING LAMPS - CANADA

The DRL for this market use full intensity low beam headlamps. The side marker lamps, tail lamps and license plate lamps will be on, but instrument cluster illumination will be off. DRL are active when the following parameters are met:

- PARK is not selected on the electronic transmission selector
- EPB (electronic parking brake) is off
- Power mode 6 (ignition on) detected by the CJB
- The CJB receives an engine running signal
- The lighting control switch is in the off or side lamps position.

NOTES:



If the lighting control switch is moved to the headlamp position, DRL are deactivated and normal side lamp and headlamp functionality is operational.



When DRL are active, the headlamp flash function using the left hand steering column multifunction switch will operate normally.

The high beam headlamp function using the left hand steering column stalk switch will be deactivated. When the transmission is in PARK, DRL are turned off. This is to reduce battery discharge during long periods of engine idling in cold climate conditions. When the electronic transmission selector is moved from the PARK position, normal DRL functionality is restored.

DAYTIME RUNNING LAMPS - DENMARK, HOLLAND, NORWAY, SWEDEN, FINLAND AND POLAND

DRL for these markets use full intensity low beam headlamps. Side lamps and license plate lamps will be on, but instrument cluster illumination will be off. DRL are active when the following parameters are met:

- Power mode 6 (ignition on) detected by the CJB
- The CJB receives an engine running signal
- The lighting control switch is in the off position.



NOTE: When DRL are active, the headlamp flash function using the left hand steering column multifunction switch will operate normally. The high beam headlamp function using the left hand steering column stalk switch will be deactivated.

If the lighting control switch is moved to the side lamp or headlamp positions, DRL are deactivated and normal side lamp and headlamp functionality is operational.

AUTOMATIC HEADLAMPS

On vehicles fitted with the automatic headlamps feature, DRL are overridden if the lighting control switch is in the 'Auto' position and the CJB receives a signal from the rain/light sensor to activate the exterior lights.

When the CJB receives a signal to de-activate the automatic headlamps feature the DRL function is restored providing the parameters for DRL activation are met.