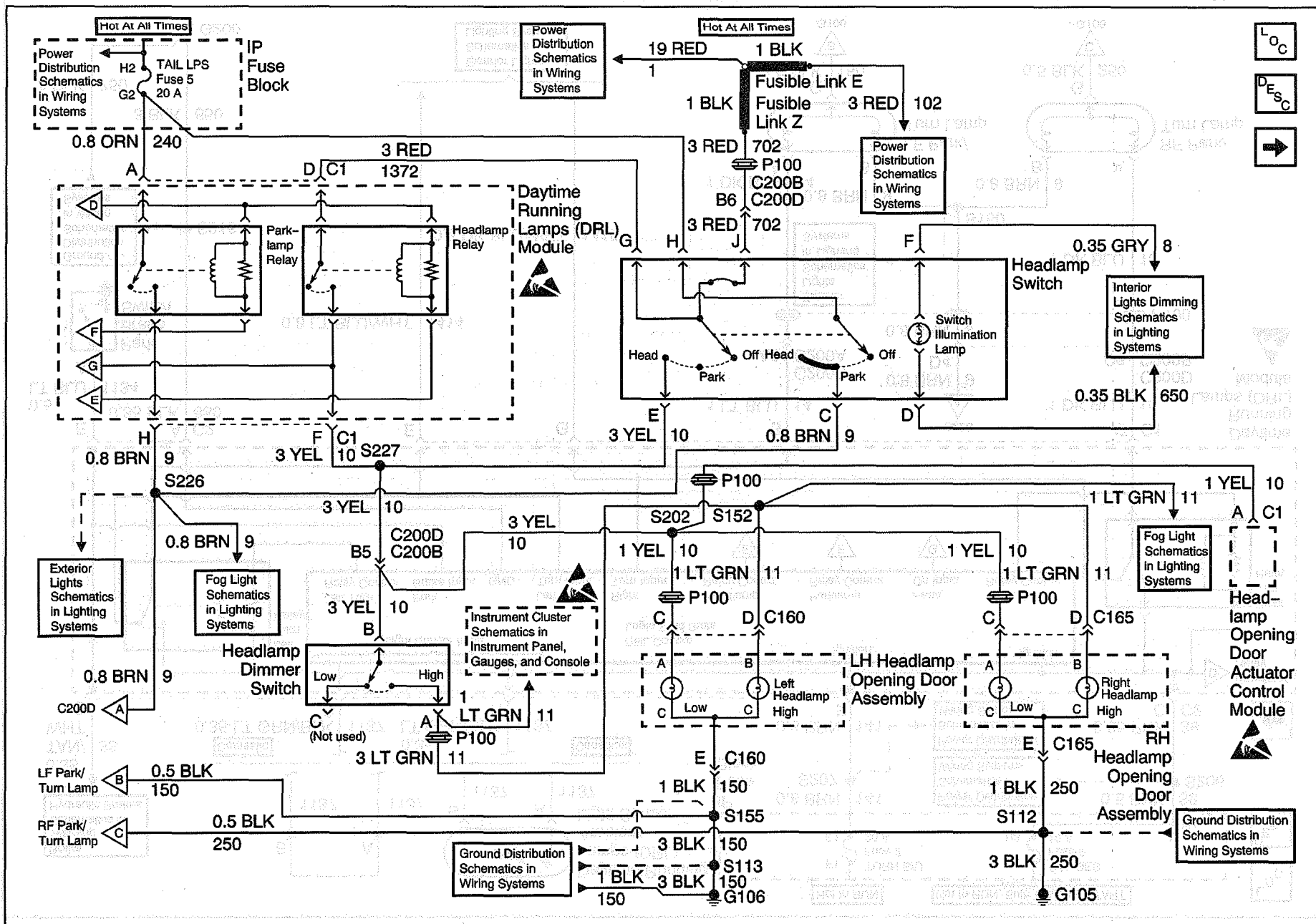


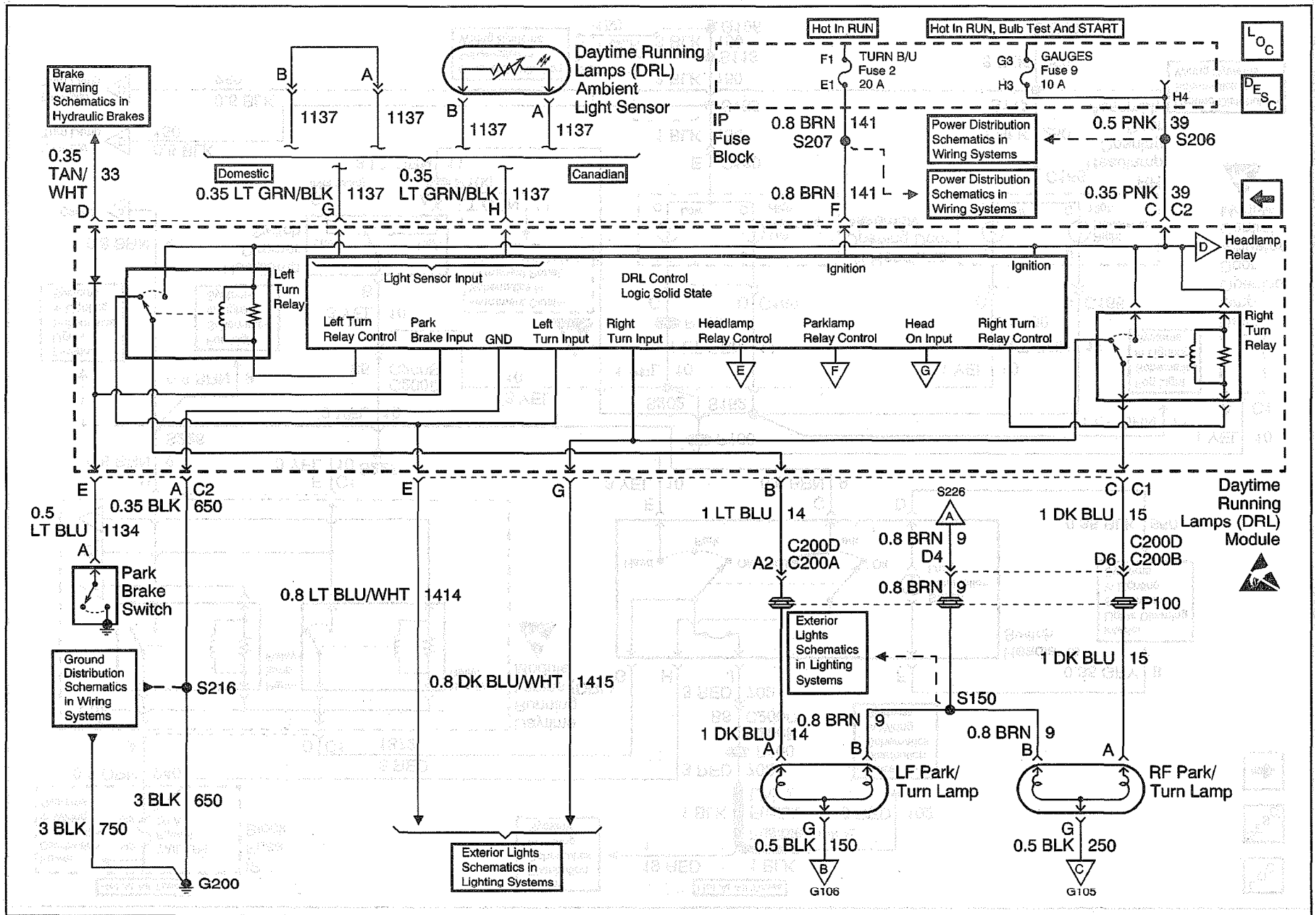
Headlamps Always On - Low or High Beam (Pontiac)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Turn the headlamps off. Do the headlamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Are the high beam headlamps on?	—	Go to Step 4	Go to Step 5
4	Disconnect the headlamp dimmer switch. Do the high beam headlamps turn off?	—	Go to Step 6	Go to Step 7
5	Disconnect the headlamp switch. Do the low beam headlamps turn off?	—	Go to Step 8	Go to Step 9
6	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle</i> and <i>Dimmer Switch Assembly - Assemble - Off Vehicle</i> . Did you complete the replacement?	—	Go to Step 12	—
7	Repair a short to battery voltage in the supply voltage circuit of the headlamp high beams. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
8	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 12	—
9	Disconnect the DRL module. Do the low beam headlamps turn off?	—	Go to Step 10	Go to Step 11
10	Replace the DRL module. Refer to <i>Daytime Running Lights (DRL) Control Module Replacement</i> . Did you complete the replacement?	—	Go to Step 12	—
11	Repair a short to battery voltage in the signal circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
12	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

# Headlights/Daytime Running Lights (DRL) Schematics (Pontiac) (DRL Module, Headlamp Opening Door Assembly)



# Headlights/Daytime Running Lights (DRL) Schematics (Pontiac) (DRL Module, Park/Turn Lamps)



## Headlights/Daytime Running Lights (DRL) Circuit Description (Chevy Dom, Pont Can, and Gulf States)

The DRL module does not operate if the system voltage is less than 9 volts or greater than 18 volts.

The daytime running lamps (DRL) module is designed to automatically operate the front park/turn lamps and the low beam headlamps depending on the outside light conditions.

The DRL module operates in 2 modes:

- The day mode

In the day mode, the DRL module turns on the low beam headlamps (at a reduced intensity) and the turn lamps when the DRL ambient light sensor detects daylight under the following conditions:

- The ignition switch is in the RUN position.
- The headlamp switch is off.
- The park brake switch is off.

- The low light mode

In the low light mode, the DRL ambient light sensor detects darkness, turning on the low beam headlamps (to full intensity) and the turn lamps.

Additionally, the DRL ambient light sensor turns on the following lamps:

- The tail/stop lamps (Chevrolet)
- The license lamps
- The tail lamps
- The park/turn lamps
- The tail/stop/turn lamps
- The side marker lamps

If the engine stalls with the DRL module in the low light mode, the DRL module turns off the low beam headlamps and the turn lamps while the engine is being cranked. The DRL module turns on the following lamps while the engine is being cranked:

- The park/turn lamps
- The side marker lamps
- The license lamps
- The tail lamps
- The tail/stop lamps (Chevrolet)
- The tail/stop/turn lamps

## Pontiac Canada

When the headlamp switch is turned to the PARK or HEAD position, the DRL module turns the front turn lamps off. When the headlamps are turned on by the headlamp switch, battery voltage is applied to the low beam headlamps. Battery voltage is also applied to the headlamp dimmer switch. When the headlamp dimmer switch is turned to high beam, battery voltage is now applied to both high beam headlamps. The low beam headlamps stay on when the headlamp dimmer switch is in the high beam position. When the headlamp dimmer switch is in the high beam position, the instrument cluster high beam indicator turns on.

## Chevrolet

When the headlamp switch is turned to the PARK or HEAD position, battery voltage is applied to the headlamp dimmer switch. When the headlamp dimmer switch is in the low beam position, battery voltage is applied to the low beam headlamps. When the headlamp dimmer switch is moved to the high beam position, the low beam headlamps turn off. Voltage is now applied to the high beam headlamps, and the instrument cluster high beam indicator turns on.

## Daytime Running Lamps (DRL) Ambient Light Sensor

The DRL ambient light sensor is a light sensitive variable resistor. The resistor of the DRL ambient light sensor decreases as the outside light intensity increases. The DRL module performs the following functions:

- Measures the voltage drop across the DRL ambient light sensor.
- Determines whether the DRL ambient light sensor should operate in the day mode or the low light mode.

## Park Brake Input

The DRL module will not operate any headlamps or exterior lamps if the park brake is applied before the ignition switch is turned to the RUN position. This allows the driver to start the vehicle and keep the headlamps off, as long as the park brake is applied. The DRL module activates the headlamps when the park brake is released with the ignition switch in the RUN position. The headlamps will not turn off if the park brake is applied after the ignition switch is turned to the RUN position.