



M50917 – Daytime Running Light Module for 4X6 (4) Headlamp System Instruction Manual

Technical Specifications

Operating Voltage	12/24 VDC
Standby Current	5 mA
Maximum Output Rating	4 Amp
Initial DRL ON Delay	3-6 Sec
Turn Signal OFF to DRL ON Delay	1.5 Sec
DRL PWM Output Duty Cycle	80% ON

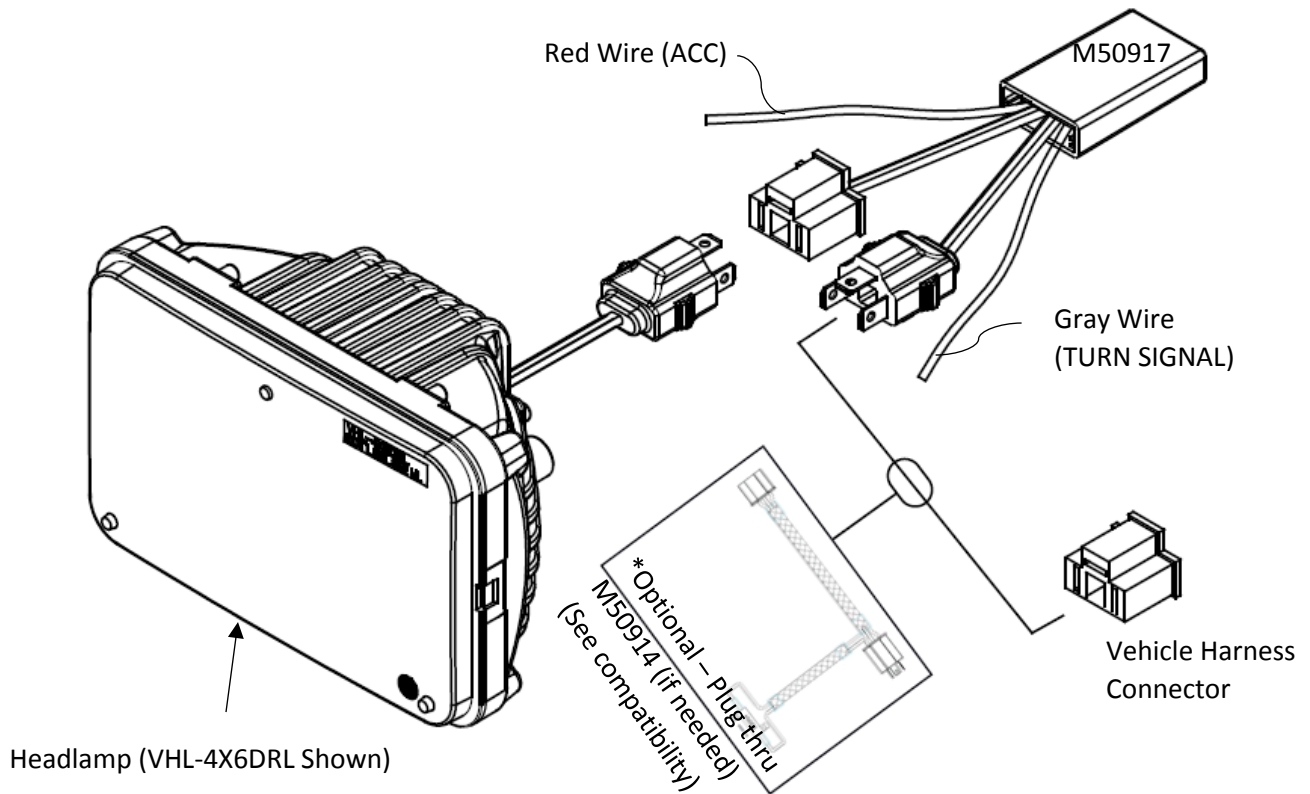
Wiring

Input Connector	H4 3-Blade Male
Output Connector	H4 3-Pin Female
Red Wire (ACC +)	Power (+)
Gray Wire (TURN SIGNAL +)	Left or Right Turn (+)

M50917 DRL Module: Function/Operation/Compatibility - See other side.

Installation: Read the Instruction Manual entirely before installing including to **read other side first.**

1. Before wiring, shut vehicle OFF. Be certain to connect Red wire to a power wire that is OFF when ignition is OFF.
 2. The **Red** wire (marked ACC) powers the DRL module and the Headlamp in DRL mode via the DRL Module. It must be connected to a 12/24VDC wire which should be powered after the vehicle is turned ON by the ignition. This will avoid draining the battery when the vehicle is OFF and provides for a delayed DRL turn on by the M50917 DRL Module to avoid using cranking Amps to power the DRL while starting the engine.
 3. The **Gray** wire is connected to the left or right turn signal as appropriate.
 4. **Connectors** of the M50917 DRL Module: Male to Vehicle H4 harness female connector, Female to Headlamp.
- Note: If a M50914 Load Equalizer is required, it needs to be connected to the vehicle harness before connecting to the M50917 DRL Module. Otherwise, the M50917 could be damaged due to overloading. See diagram.





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Instruction Manual

Specifications and Wiring Instructions on other side – read below also before installing.

DRL Function: Daytime Running Lights (DRLs) are typically driven by a pulsed signal (Pulse Width Modulation or PWM). The M50917 DRL Module drives a headlight to create a DRL mode of operation for vehicles that are not equipped with DRL control. One M50917 DRL Module is required to drive each of the two low beam headlamps of a 4-lamp 4X6 headlamp system.

DRL Operation: When the vehicle is turned ON, the M50917 DRL Module will drive its headlamp in the DRL mode when the headlamps are set to OFF and the turn signal for that side of the vehicle is OFF. When the headlamps are set to OFF and the turn signal is activated for that side of the vehicle, the DRL will automatically shut off until the turn-signal is OFF again (as required by DOT regulations). If the headlamps are set to HI or LO beam in the vehicle the DRL driver of the M50917 DRL Module is deactivated and the headlamp is driven normally with the 12/24VDC connected through the M50917 to the headlamp which will then light normally at full brightness in HI or LO beam as needed.

DRL On Delay: Each time you start your vehicle, the M50917 DRL Modules delay lighting your headlamps for 3 – 6 seconds.

DRL Resume Delay: When the turn-signal goes OFF, the DRL Module lights your headlamp in DRL mode 1.5 seconds later.

Compatibility – Maxxima Vionic Series VHL-4X6DRL: When used with the Maxxima VHL-4X6DRL headlamp (U.S. PATENT NO. 9,464,774 B1 & D789574 / PATENT PENDING), the M50917 DRL Module PWM signal output will result in the Vionic DRL dedicated LEDs (in signature V shape) being turned ON.

Compatibility – Maxxima M50954 Silicone Rubber Boot: The M50954 2-pack of Silicone Rubber Boots are available to extend the life of the connector blades. The Boot stretches over the male connector and is long enough to cover the female mate also to help shield the connector blades from corrosive elements.

Compatibility – Maxxima Load Equalizer M50914: The addition of a M50914 Load Equalizer is required for some vehicles to properly operate with 4X6 LED headlamps (typical symptoms are flickering or switching to HI Beam when vehicle set to LO beam). The M50917 DRL Module can also be used for these vehicles as shown in the wiring diagram.

Wiring sequence: Vehicle harness > M50914 > M50917 > VHL-4X6DRL

Compatibility – Halogen Headlamps: For a halogen headlamp, the M50917 DRL Module PWM signal output will result in a dimmer light output by the headlamp. The DRL mode should extend the life of your halogen headlamp if you would alternatively always leave you headlamp on LO beam in daylight.