



03.W3041 Headlight Flasher for Ground Switching Headlight Systems INSTRUCTIONS

Attention Installers

It is the final responsibility of the installer of headlight flashers to determine their compatibility with the vehicle make and model in which they will be installed. Incorrect wiring of headlight flashers could result in costly problems or even permanent damage to the vehicle's computer module.

NOTE: Do not install any **SHO-ME**® headlight flashers on 2000 model year or newer Dodge Durango, Dakotas or 2005 model year or newer Dodge full size trucks. Our flashers are **not** compatible with these vehicles and may lead to the failure of their computer systems.

CAUTION!

This flasher **MUST** be wired through a circuit controlled by the ignition switch
DO NOT wire directly to the battery.

The 03.3041 flasher is designed to flash headlights on vehicles with ground switching headlight systems. "Positive Ground" (or "ground switching") means that the headlight "common" wire is connected to +12 volts, and the headlight is activated when the dimmer switch connects ground (0 volts) to the high OR low beam.

This flasher will provide a ground (0 volts) to the headlights when flashing or when high beam override is active. Because of this switching arrangement, the ground terminal of the flasher must be fused, as it will be carrying the load of the headlight circuit. Wire the flasher as shown in the diagram, noting the fuse sizes on "Positive" and "Ground".

To facilitate using smaller switches for headlight control, it is common to find headlight relay(s) on modern vehicles. These relays may be used for different purposes on various vehicles. One relay is generally used to supply power (+12V) to the headlights when the headlight switch is turned on. In order to make use of a headlight flasher on a vehicle that uses a relay as described, an additional relay can be installed to imitate the function of the original relay each time the flasher is turned on. Or, simply turn on the headlights every time the flasher is turned on depending on the requirements of the installation.

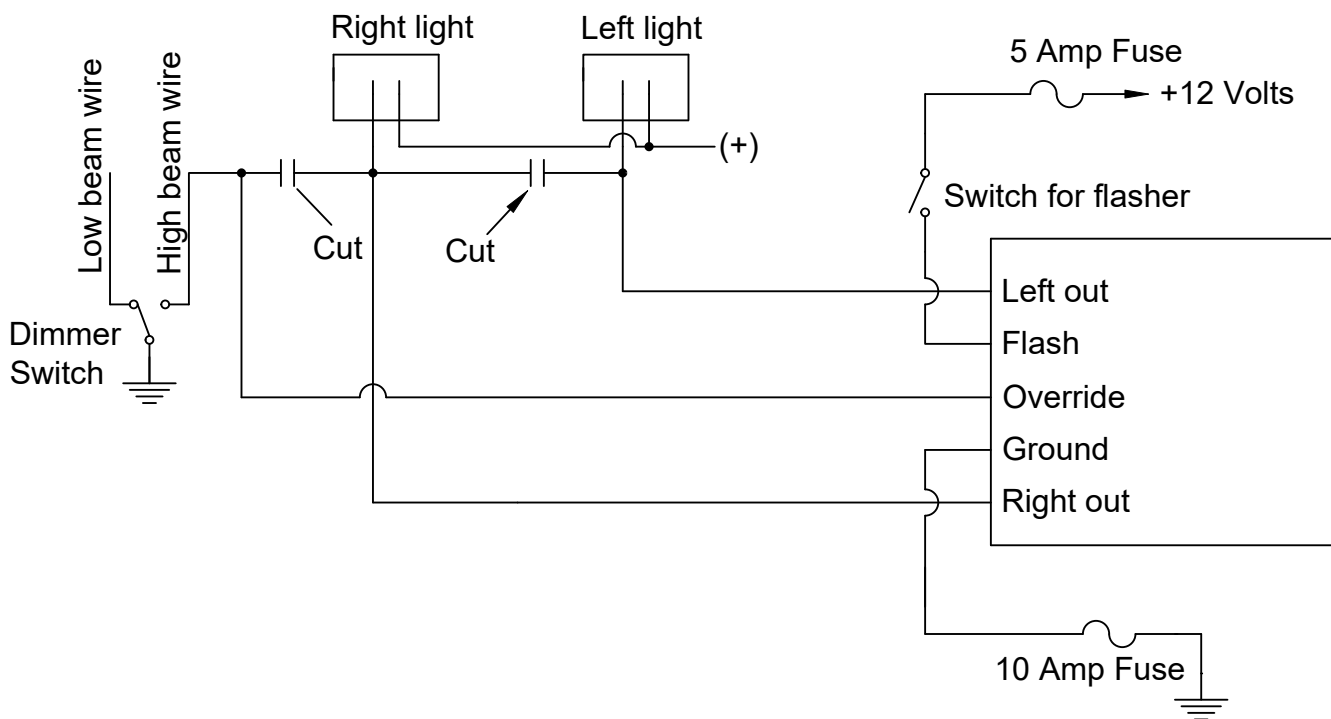
Daytime running lights, when doubling as headlights can be a difficult obstacle to overcome while installing a headlight flasher. Originally, vehicle manufactures used a PWM (pulse width modulation) circuit to reduce the voltage applied to the headlights. This allowed them to efficiently burn the lamp at reduced intensity. However, the cost of the PWM circuit led them to discover that by connecting the lamps in series, they could effectively apply 7 volts to each bulb. A headlight control module generally does this switching. In order to install a headlight flasher on such a vehicle, the daytime running lights must be disabled anytime the flasher is active. If the vehicle manufacturer has provided a means of controlling whether the daytime running lights are active or not, installation of control module, or a separate switch on the emergency brake, (etc). Either disable the running lights permanently, or wire a relay to the flasher switch to temporarily disable them anytime the flasher is active. The goal is to make the vehicle turn off the running lights, (thereby restoring normal headlight configuration) rather than "brute force".

When selecting a location to mount the flasher, keep in mind that the life of any electronic device is directly dependent on the temperature in which it is operated - the cooler the unit, the longer the life.

NOTE: This flasher **MUST** be installed in a dry location. If the selected location is subject to a lot of water from the rain or road spray, use the "W" model of flasher to prevent corrosion of any exposed connections. If not in a dry location warranty will be **VOID**. (The engine compartment is **NOT** considered a dry location.)



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LIMITED WARRANTY

Able 2 Products Company warrants each new product (except bulbs, strobe tubes and strobe power supplies) to be free from defects in material and workmanship for a period of one year from date of purchase. During this warranty period, the obligation of Able 2 is limited to repairing or replacing, as Able 2 may elect, any part or parts, which after examination by Able 2 are determined to be defective, when they are delivered pre-paid. This limited warranty does not cover travel expense, the cost of specialized equipment for gaining access to the product, or labor charges for the removal and re-installation of the product.

Able 2 Products Company shall not be liable for incidental or consequential damages, including but not limited to : Loss of use of vehicle, Rental of substitute vehicle, Loss of time, Loss of work, Inconvenience, Transportation expenses, Telephone, Lodging, Loss of revenue, Loss of and /or damage to personal property for or arising out of breach of any express or implied warranty of its products.

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