

150 Heller Pl #17 W Bellmawr, NJ 08031 856-933-0801

PART #

510196

DESCRIPTION:

Headlight Momentary Module

92969511 instruction sheet

Rev 2.0 7/16/12

Momentary Switching Module Installation Instructions

The function of the momentary switch module is to switch power between internal Low and High beam relays by activation of a ground trigger on the module gray wire. Each individual ground trigger switches the relay ground on the relays and subsequently switches the power output from one relay to the other. Special features of the module are as follows:

1. The module uses a separate power relay for each of the two output circuits.
2. Where the module is used for high and low beam headlight control, the module takes the place of a traditional floor or column mounted dimmer switch and can be mounted high up under the dash to clear up the floor area. The module senses whether the headlights are on or off by use of the power output wire from the headlight switch. When the headlights are on, each push of the momentary button switches between the high and low beam circuit by use of a separate power relay. When the headlight switch is turned off, the module automatically resets to the low beam position.
3. Where the module is used for high and low beam headlight control and the power output wire is without a power signal (i.e. the headlight switch is off), a “flash to pass” function exists by pushing and holding the momentary button. In this case the high beam relay is activated and the high beam lights will stay on for as long as the momentary button stays depressed. When released, the high beams will go off. This “flash to pass” function only exists when the headlight switch is off.

Important circuit description:

It is important to know the amperage draw requirements of your headlight system as a low capacity headlight switch may be a weak link in this chain. In the case of a GM type headlight switch, the main power circuit was protected by an internal 28 amp breaker. In addition, the parking light circuits were separated from the main power and fed by a separate fused power circuit. This kit removes the power load from the headlight switch low and high beam circuits by feeding both the low and high beam internal relays with direct battery power. A separate circuit breaker is supplied to protect these power inputs. The headlight switch power output to the dimmer switch circuit now becomes a sensor wire to the module to determine Low and High beam switching.

Specific circuit discriptions of the momentary module

The module has 6 circuits as defined below.

<u>wire color</u>	<u>function</u>
red	12 volt battery power to the module
black	Ground wire for the module
yellow	module controller power on sensor wire. When this lead wire has a 12 volt signal, the module alternately switches between the tan low beam power wire and the light green high beam power wire with each momentary grounding of the gray module circuit switching signal wire. When this lead wire does not have a 12 volt signal (the headlight switch is off), the module will only switch to the light green high beam power wire for as long as the gray module circuit switching signal wire is held to ground.
gray	Module circuit switching signal wire
light green	High Beam power output
tan	Low beam power output

Important product disclaimer

The module and the circuits in this kit are designed for the specific application described in this kit. Any other use of the momentary module is not supported by American Autowire. Technical support for applications other than those described in this kit is not available by American Autowire.



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DIAGRAM 1. Installation of the switching module on a typical dual headlight system.

This is the most common connection as there is already a main 12 volt power input to the headlight switch. Typically the main power input to the headlight switch comes directly from the fuse box. Originally, all lighting was connected to the headlight switch output which, in the case of a GM type headlight switch, was protected by the internal 28 amp breaker. Use of this module bypasses the internal circuit breaker in the headlight switch power out circuit. Therefore, a separate circuit breaker (40 amp) is supplied to protect the module power input. This connection can be from the original 12 volt power input to the headlight switch or by a separate 12 volt power circuit.

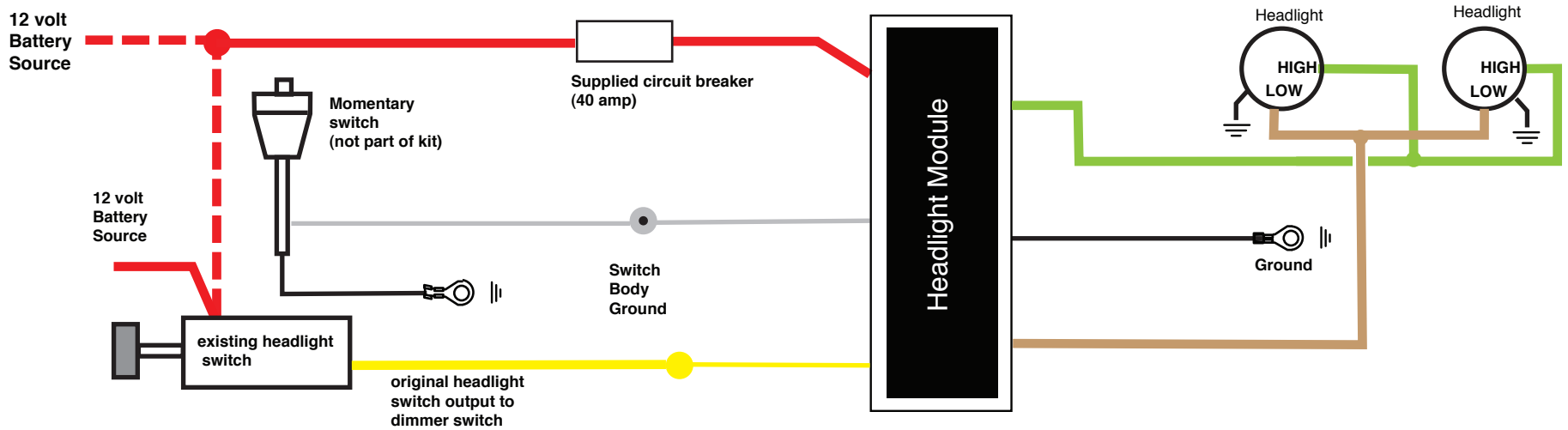


DIAGRAM 2. Installation of the switching module on a typical quad headlight system.

This is the same situation as explained in Diagram 1 except that there are four headlights as opposed to two.

