V-Twin MFG.
HI-LOW BEAM RELAY SWITCH
VT No. 32-0448

This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.

This instruction sheet details the installation of the Custom Headlight Relay to select high or low beam on your headlight with a single button switch. It allows the headlight to be controlled from the handlebars without using a large rocker-style switch. The instructions cover wiring a bike from scratch. However, if you are modifying the stock wiring, the same steps are applicable.

INSTALLATION INSTRUCTIONS:

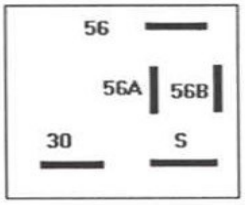
1. Place the motorcycle on a secure area and disconnect the negative battery terminal.
2. Locate a position to install the relay. Ideally it should be close to the headlight area of the motorcycle. Securely mount it, isolating it from vibration. The relay does not need to be grounded.
3. Determine the light terminal on the ignition switch and route a wire from the light terminal to the #56 terminal on the relay. At the same time, connect a jumper wire from the #56 terminal to the #30 terminal.

NOTE: It is advisable to install a fuse or circuit breaker in all wiring circuits. A 15-amp circuit breaker is sufficient for most light installations. We also recommend that you use a minimum of 14-gauge wire for all wires except the wire to the momentary switch, which can be 18 gauge.

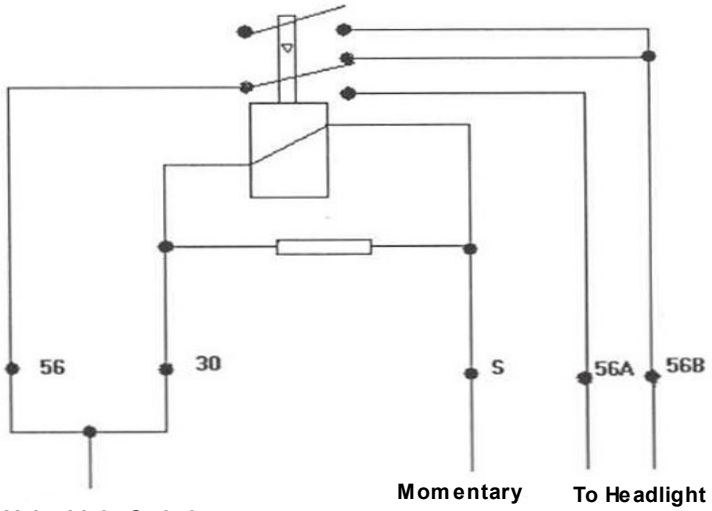
4. Locate the momentary switch (such as a horn switch) in the desired location. Route a wire from the momentary switch to the #S relay terminal. Make sure that when the switch button is pushed, the wire to the #S terminal is grounded, and when the switch is released the wire is not grounded.
5. Route a wire from the high-beam terminal on the headlight to the #56A terminal on the relay.
6. Route another wire from the low-beam terminal on the headlight to the #56B terminal on the relay.

NOTE: We recommend using a high-beam indicator light.

7. Make sure the third wire in the headlight is grounded.
8. Reinstall the negative battery cable.
9. Turn on the ignition switch and turn to the lights position.
10. Test headlight relay by pressing the momentary switch and observing if the light pattern emitted by the headlight changes. You should hear a faint "clicking" sound as the relay switches from high to low beam and vice versa.



#30 To 12 Volt Supply.
#56 From light switch #30 & 56 can be common with a jumper wire.
S Momentary contact switch such as a horn switch, etc.
56A High beam in head light.
56B Low beam in head light.



12 Volts Light Switch

Momentary Switch Such as a horn switch

To Headlight
56A High Beam
56B Low Beam