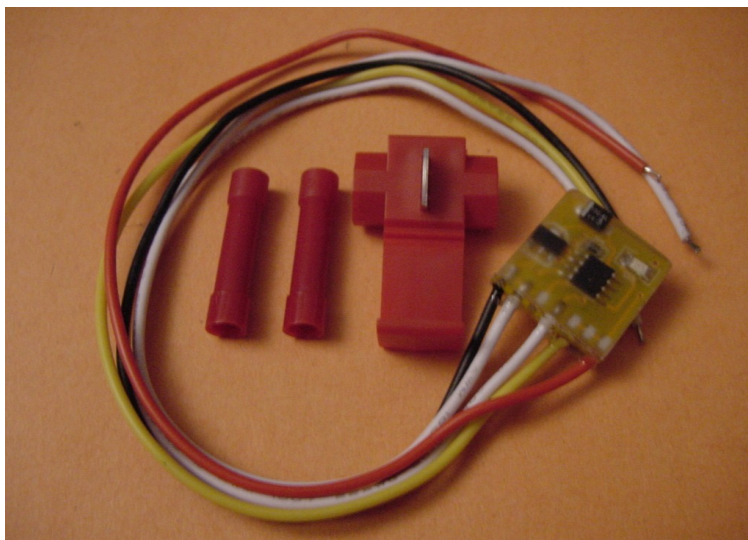




***V-Brake* tail light flasher installation instructions**

Parts4PowerToys is proud to offer a custom designed programmable V-Brake tail light brake flasher module. V-Brake module is a micro processor designed tail brake light flasher that provides 37 user programmable flashing modes with user selectable brake application re-application delays. Once initially trigger, the user can select 0,15 and 30 seconds delays before the flasher will re-flash the brake tail lights. Installation takes less that 15 minutes and the kit comes complete with all the necessary parts for installation.



Step1:

Remove the seat on your Harley Davidson and locate the wiring harness going to the rear fender .Once located, test each wire to see which one applies 12 Volts to the the rear brake light (usually the RED wire with YELLOW strip on most models). In the illustration figure A below on a FLHTRI (Road Glide), the red wire with yellow strip, carries the 12 volts to the brake tail light assembly (wire color may differ on different models). Cut the wire to allow connecting the V-Brake flasher module. (see schematics illustration figure B for details on wiring diagram). Use the two supplied red crimp connectors to attach both the yellow and red brake flasher wire to their appropriate connections. The yellow brake flasher wire connects to the tail light side of the cut red/yellow harness wire and the red brake flasher wire to the 12 volts coming from the brake light switch of the cut red/yellow wire. Connect the black wire to a suitable ground wire using either the supplied quick in line splice connector or the frame ground. DO NOT use the ground wire in the wiring harness. Use an existing frame screw or wire that is directly connected to the chassis frame or negative side of the battery. *(see note 1 at the end of this installation instructions)*

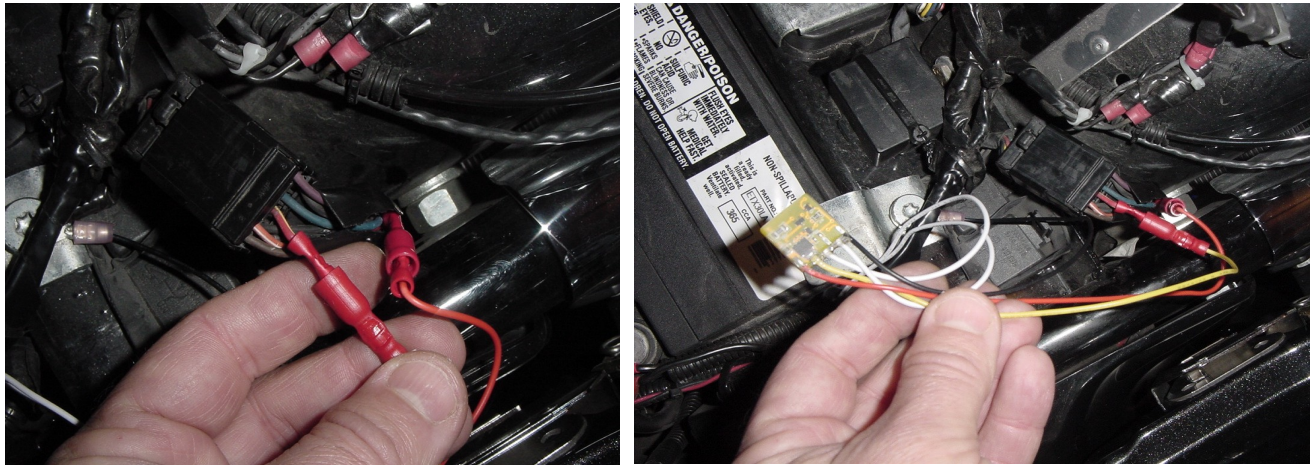


Figure A

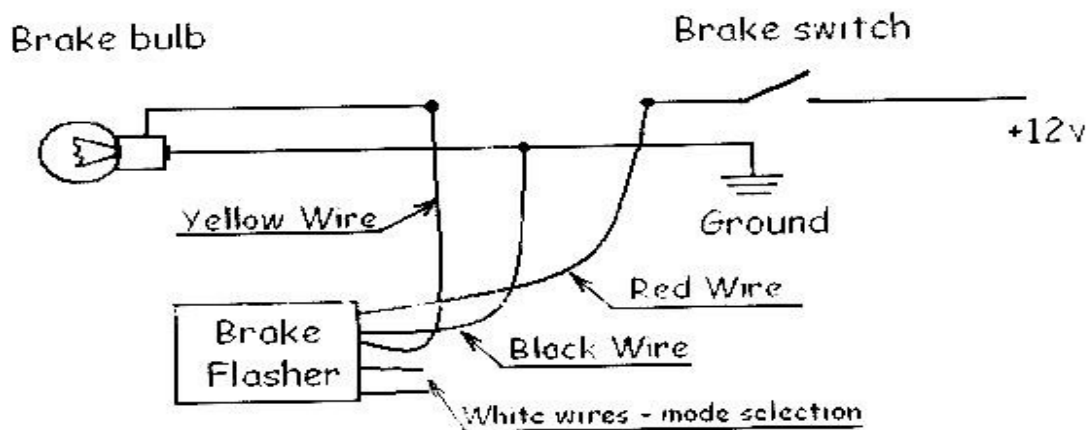


Figure B

Step 2:

The V-Brake flasher module has 37 modes (see table figure C). Use the flasher value white wires to switch the modes. In order to switch the modes, follow the steps below.

1. Push the brake pedal so the brake light is illuminated.
2. Short and disconnect the white wire. The V-Brake flasher module will switch to the next mode and flash the the brake light according to the next selected pattern. A small green led will flash on the V-Brake module in sync with the brake light to help determine the flash mode. Continue shorting and disconnecting the white wires to switch to the next flash mode until the desired mode is reached. (refer to the flash mode table in figure C).
3. Mode 37 is the off mode. In this mode the flashing function is turned off and the brake light will function in it's normal on/off braking operation.

4. Once mode 37 is reached, the next mode selection sets the mode back into the #1 flash mode and so on. Refer to the table in Figure C below.
5. Tape and secure all connections to ensure that the module and connections do not brake loose due to vibration and/or rubbing against other parts.

Flashing modes:

Mode #	Frequency of light flashes	Re-activation period, sec	Comments
1	Fast	0	Best suited for LED lights
2	Fast	0	Best suited for LED lights
3	Fast	0	Best suited for LED lights
4	Fast	0	Best suited for LED lights
5	Medium	0	Best suited for LED and Incandescent light
6	Medium	0	Best suited for LED and Incandescent light
7	Medium	0	Best suited for LED and Incandescent light
8	Medium	0	Best suited for LED and Incandescent light
9	Slow	0	Best suited for Incandescent light
10	Slow	0	Best suited for Incandescent light
11	Slow	0	Best suited for Incandescent light
12	Slow	0	Best suited for Incandescent light
13	Fast	15	Best suited for LED lights
14	Fast	15	Best suited for LED lights
15	Fast	15	Best suited for LED lights
16	Fast	15	Best suited for LED lights
17	Medium	15	Best suited for LED and Incandescent light
18	Medium	15	Best suited for LED and Incandescent light
19	Medium	15	Best suited for LED and Incandescent light
20	Medium	15	Best suited for LED and Incandescent light
21	Slow	15	Best suited for Incandescent light
22	Slow	15	Best suited for Incandescent light
23	Slow	15	Best suited for Incandescent light
24	Slow	15	Best suited for Incandescent light
25	Fast	30	Best suited for LED lights
26	Fast	30	Best suited for LED lights
27	Fast	30	Best suited for LED lights
28	Fast	30	Best suited for LED lights
29	Medium	30	Best suited for LED and Incandescent light
30	Medium	30	Best suited for LED and Incandescent light
31	Medium	30	Best suited for LED and Incandescent light
32	Medium	30	Best suited for LED and Incandescent light
33	Slow	30	Best suited for Incandescent light
34	Slow	30	Best suited for Incandescent light
35	Slow	30	Best suited for Incandescent light
36	Slow	30	Best suited for Incandescent light
37	-----	-----	Flashing is disabled. Off mode.

Figure C

Note 1: These pictures are for illustration only and may not accurately represent your particular Harley Davidson model. Refer to the schematic diagram in figure B for more details on wire connections.