

# 3<sup>rd</sup> Brake Light Flasher - 36 modes. Installation Manual.

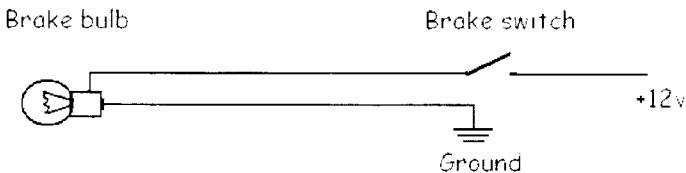
3<sup>rd</sup> Brake light flasher allows creating brake flashing effect from brake light (scooters and motorcycles) and 3<sup>rd</sup> brake light (cars and trucks) to catch the attention of drivers behind. The flasher module is a microprocessor based circuit specifically designed for brake light operations and packaged in a very tiny package so it can fit behind any brake light assembly. It works on both LED and incandescent bulbs (4amps max - continues). Module has total of 37 flashing modes described in the table below. It features unique re-activation delay to minimize brake light flashes annoyance when the brakes are used in heavy traffic. Once the delay mode is selected the lights will flash set number of times the first time brake pedal is pressed then the flashing effect is disabled (light is solid in sync with primary brake lights) until brakes are not in use for a period of time (selectable 20 or 40 seconds). After inactivity period has passed the light will flash again once the brake pedal is pressed.

Tools required for installation:

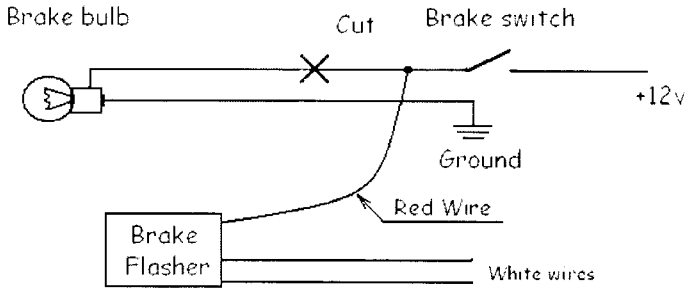
Wire crimper tool (found in any auto / home improvement store)

## Installation

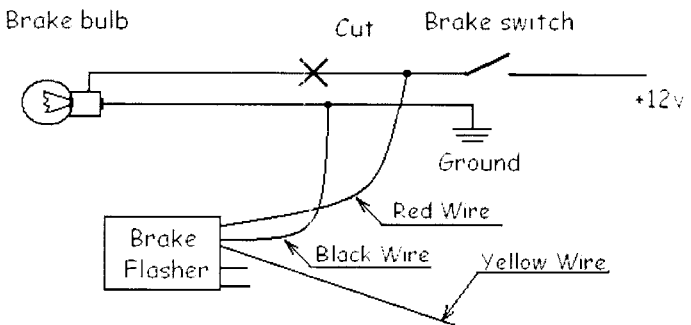
1. Get access to the 3<sup>rd</sup> brake light assembly, disassemble it to get access to wires. There will be two wires leading to the brake bulb one is **ground** and other is **power** (- 12v when brake pedal is pushed). You need to figure out which wire is **ground** and which is **power**. Use voltmeter or referer to the car wiring diagram. In most cases **ground** wire is **black**.



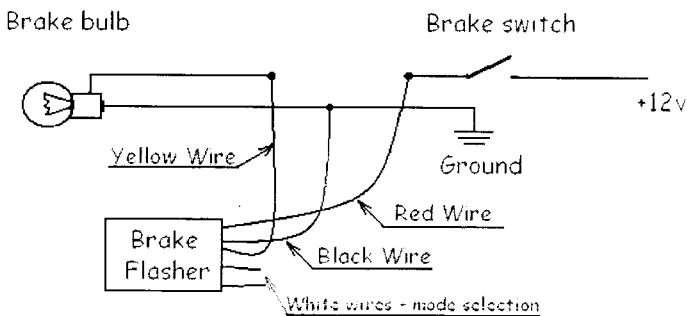
2. Cut the power wire and connect flasher module **RED** wire to it. Make sure you use power wire end going to the car and not the bulb.



3. Now using provided quick splice connect attach flasher module **BLACK** wire to the ground wire.



- Do not connect **YELLOW** wire yet. It is **important** to verify proper **ground** and **power** flasher module connections first. Push the brake pedal and watch the brake flasher internal LED to flash. If it does then **power** and **ground** connections are ok. If LED does not flash **ground** and **power** wires were not properly identified. Flasher module can be tested with smoke alarm 9V battery. Connect **black** and **red** wires to “-” and “+” terminals of the battery. The internal LED should light up.
- Once you verified the flasher internal LED lights up connect module **YELLOW** wire to the wire leading to the bulb.



- Flasher hookup is now completed.

## Mode changing procedure

3<sup>rd</sup> brake flasher module has total of 37 modes (see table at the end of the manual). Use the flasher white wires to switch the modes. In order to switch the mode follow the steps:

- Push the brake pedal so the brake light is illuminated (ask somebody to help you or put something heavy on the brake pedal).
- Short and disconnect white wires. Flasher will switch to the next mode and flash the light according to selected pattern. Continue shorting and disconnecting white wires to switch to the next mode until desired mode is reached.
- Mode 37 is the Off mode. In this mode the flashing function is turned off and light will function, as module is not even installed.
- Once mode 37 is reached the next mode switch sets the mode back to #1 and so on.

## 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.