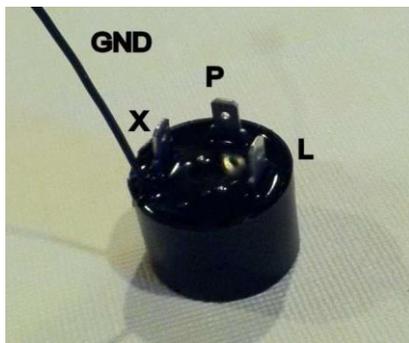


# LiteZupp Negative Ground Flasher

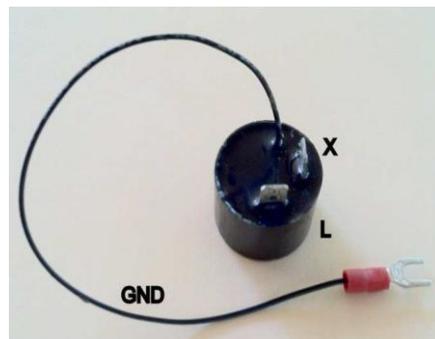
Older style flashers are made with a bi-metallic strip which curls and opens the circuit when heated by a current passing through a filament type bulb. LED Lamps draw much less current so there is not enough heat produced for proper operation with a bi metallic flasher.

## Features

- LFM2NG and LFM3NG = 12Vdc, negative ground
- LXF2NG and LXF3NG = 6Vdc, negative ground
- Microprocessor based design
- Flashing rate not effected by small changes in voltage
- Epoxy encapsulation protects the electronics
- Load Rating is 12 Amps
- Can be use with incandescent lamps



LFM3NG / LXF3NG



LFM2NG / LXF2NG

## Connections LFM3NG and LFM2NG - Black ground wire

- X = +12 Volts DC
- P = Dash Indicator (LFM3NG only)
- L = Turn Signal Lamps
- Ground wire – attach to chassis ground

## Connections LXF3NG and LXF2NG - Orange ground wire

- X = +6 Volts DC
- P = Dash Indicator (LXF3NG only)
- L = Turn Signal Lamps
- Ground wire – attach to chassis ground

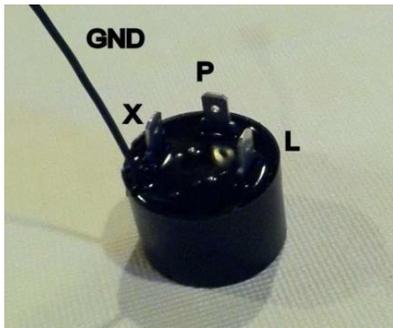
# LiteZupp Positive Ground Flasher

The Litezupp Electronic Flasher is needed when LED Lamps are used in place of incandescent bulbs.

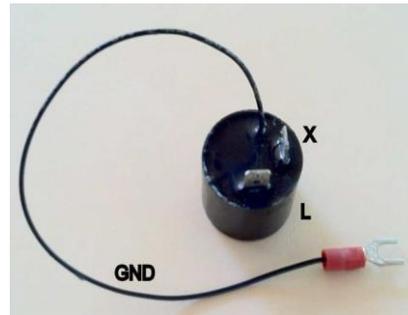
Older style flashers are made with a bi-metallic strip which curls and opens the circuit when heated by a current passing through a filament type bulb. LED Lamps draw much less current so there is not enough heat produced for proper operation with a bi metallic flasher.

## Features

- LFM2PG and LFM3PG = 12Vdc, Positive ground
- LXF2PG and LXF3PG = 6Vdc, Positive ground
- Microprocessor based design
- Flashing rate not effected by small changes in voltage
- Epoxy encapsulation protects the electronics
- Load Rating is 12 Amps
- Can be use with incandescent lamps



LFM3PG / LXF3PG



LFM2PG / LXF2PG

## Connections LFM3PG – Blue ground wire

- X = Neg. 12 Volts DC
- P = Dash Indicator
- L = Turn Signal Lamps
- Ground wire – attach to chassis ground

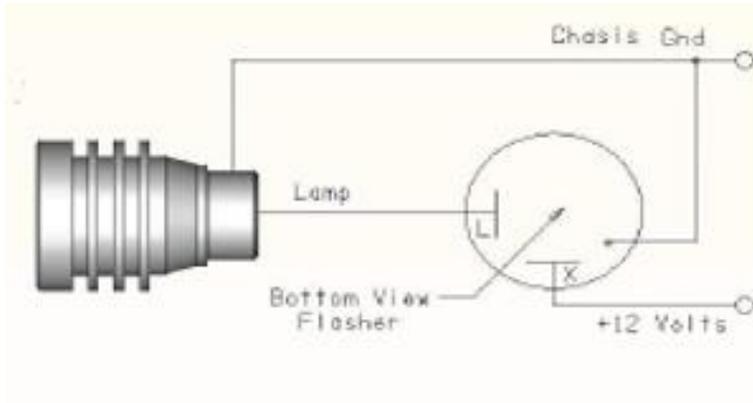
## Connections LXF3PG - Yellow ground wire

- X = Neg. 6 Volts DC
- P = Dash Indicator
- L = Turn Signal Lamps
- Ground wire – attach to chassis ground

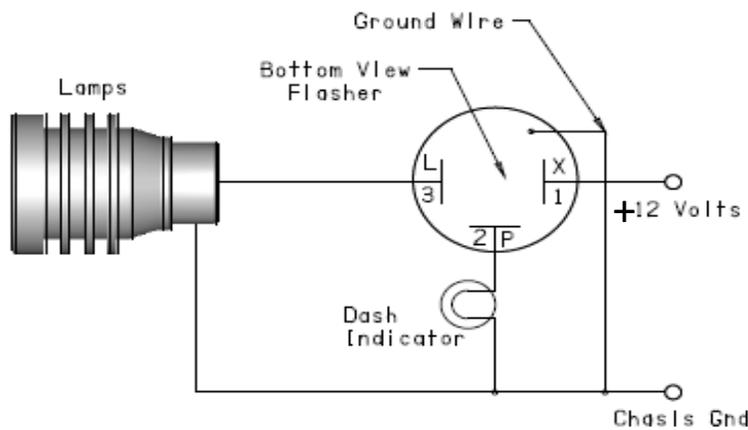
# LiteZupp Flashers – Applications

Below are typical applications using LiteZupp flashers and Litezupp LEDs. Litezupp flashers are rated at 12A and designed to work with our LED Lamps.

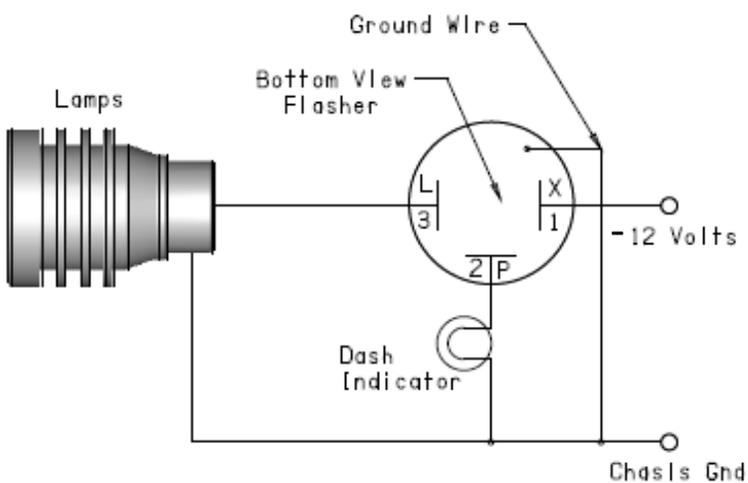
Note: If you are using a Litezupp flasher with other manufacturer's LEDs you may need to add a 1K ohm resistors on the left LED and one on the right LED circuit. The resistor should be located at LED across the flashing contact to ground.



LFM 2NG



LFM 3NG



LFM 3PG