

# WHELEN<sup>®</sup>

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## Installation Guide Model UBF5150 Brake/Back-up Light Flasher

### Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro®, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.**
- **Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.**
- **For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post.**
- **If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.**
- **Do not attempt to activate or control this device in a hazardous driving situation.**
- **It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.**
- **FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**

**IMPORTANT!** The use of a Brake/Back-up Light Flasher System may be regulated by state, county or municipal authorities. It is the responsibility of the end user to comply with these regulations.

The Whelen UBF5150 Brake/Back-Up Light Flasher will alternately flash the vehicle's rear brake lights with the back-up lights at a rate of 110 flashes per minute.

**WARNING!** The installation of a Brake/Back-Up Light Flasher System requires a modification to the vehicle's brake light wiring harness. This modification may not only effect the warranty of your vehicle, but may also have an adverse effect on the operation of some of the safety features installed on your particular vehicle's Brake Warning and Anti-Lock Braking Systems. Variations can exist between identical vehicles within a given model year. It is the responsibility of the end user to not only verify the warranty conditions with the vehicle manufacturer, but also verify that this device is compatible with the specific vehicle into which it is being installed. The use of a Brake/Back-Up Light flasher System may shorten bulb life.

**WARNING!** Disconnect the battery from electrical system before attempting any part of this installation.

**Installation:**

Mount the UBF5150 Brake/Back-Up Light Flasher in a convenient area of the vehicle's trunk, safe from mechanical damage. The mounting flanges have holes and slots sized to accommodate #10 mounting hardware. Wire the unit as follows:

1. **BLACK (Ground)** - Connect the black wire to a good chassis ground. Wire may be extended with an 18 AWG wire.
2. **ORANGE (Flasher On/Off Control)** - Connect the orange wire to a customer supplied ON/OFF switch rated for at least 200ma. The switch must be connected to positive (+) 12 volts D.C. Wire may be extended with an 18 AWG wire.
3. **YELLOW (Left Brake Light Output).**
4. **GREEN (Right Brake Light Output).**
5. **WHITE/BLUE (Back-Up Light Input).**
6. **BLUE WIRE (Back-Up Light Output).**
7. **RED (POWER)** - Connect the red wire to a high current positive (+) 12 volt D.C. power source. Fuse this circuit with a customer supplied 20 amp fuse as close to power source as possible. Wire may be extended with a 14 AWG wire.

**WARNING!** All customer supplied wires that connect to the positive (+) terminal of the battery, must be sized to supply at least 125% of the maximum operating current, and fused "at the battery" to carry that load!

8. **WHITE/GREEN (Right Brake Input).**
9. **WHITE/YELLOW (Left Brake Input).**
10. **WHITE (Auxiliary/Decklights)** - Provides +12V for optional decklight.

**Operation:**

When the flasher control switch is activated to the ON position, the left and right brake lights will flash on and off together and will alternate with the back-up lights. During operation you may hear a regular clicking sound coming from the UBF5150. This means that the flasher is working properly, however it does not guarantee that the lights are flashing. It is a good practice to visually check the operation of the flasher system at regular intervals.

