

# WHELEN<sup>®</sup>

ENGINEERING COMPANY INC.

51 Winthrop Road,  
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## Installation Guide: BL2150 Headlight Flasher

Internet: [www.whelen.com](http://www.whelen.com)  
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### 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 product is mounted with 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 owners 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!

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Form No.13014D (110206)

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

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## Selecting a mounting location...

The logical choice for a mounting area would be one where access to the vehicle's headlight wiring harness can be easily achieved. However, due to the wide variety of vehicles onto which the BL2150 could be installed, this is not always possible. The following guidelines will help the installer select an acceptable alternative:

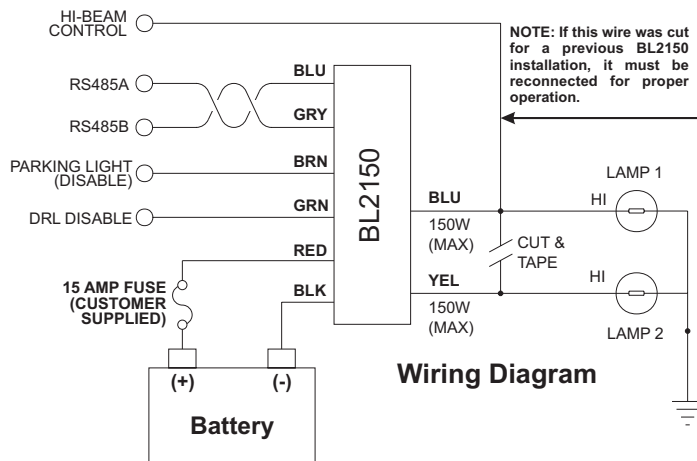
- Do not select a location where the BL2150 will be exposed to potential damage from any unsecured or loose equipment in the vehicle.
- If possible, try to situate the BL2150 as close to the headlights as possible.
- When routing the BL2150's wires, it is important to choose a path that will keep these wires away from excessive heat and from any vehicle equipment that could compromise the integrity of the wires (ex. hood springs, door jams, etc.).

**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. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!**

**WARNING! When extending the communication wires (BLUE & GREY), similar "twisted pair" wires MUST be used!**

Refer to your MPCxx operating manual for information on how to operate the BL2150 headlight flasher.

**IMPORTANT: It is the responsibility of the installation technician to make sure that the installation and operation of this product will not interfere with or compromise the operation or efficiency of any vehicle equipment! Before returning the vehicle to active service, visually confirm the proper operation of this product, as well as all vehicle components/equipment.**



Wiring Diagram

### UNIT SPECIFICATIONS.

V BATTERY	13.5 VDC ±20%
I OUT @ 150 WATTS	12 AMPS (MAX)
I OUT SURGE	75 AMPS (MAX)
POWER OUTPUT (PER OUTLET)	150 WATTS (MAX)
FLASH RATE	70 SFPM ±5%
	140 SFPM ±5%
	60 DFPM ±5%
	60 DFPM/70 SFPM ±5%
	60 DFPM/140 SFPM ±5%
	70 SFPM/140 SFPM ±5%
	ON STEADY
DUTY CYCLE	50%
DISABLE	V BATTERY
DISABLE	15ma (MAX)
V HI-BEAM	V BATTERY
I HI-BEAM	50ma (MAX)
SFPM = Single Flash Per Minute	
DFPM = Double Flash Per Minute	

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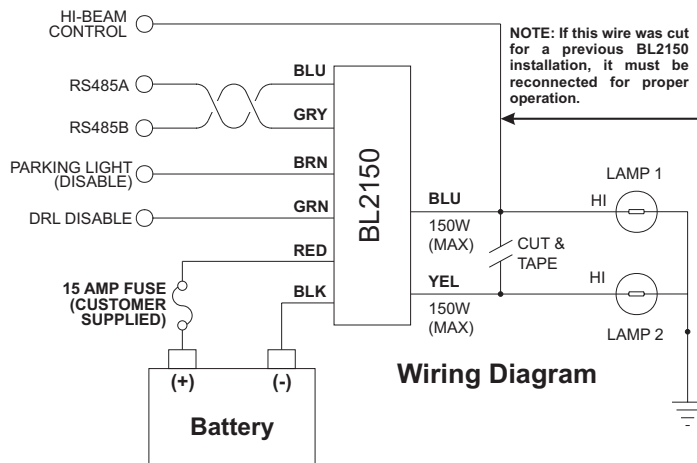
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