

# WHELEN<sup>®</sup>

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## Installation Guide SSF-2150 Headlight 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 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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**The use of a flashing headlight system may be regulated by state, county, or municipal authorities. It is the responsibility of the end user to comply with these regulations.**

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**Note:** The installation of a headlight flasher system requires a modification to the standard headlight wiring harness. This modification may effect the warranty of your vehicle. It is the responsibility of the end user to verify the warranty conditions with the vehicle manufacturer. Also, the use of a headlight flasher may shorten the high beam bulb life.

**Note:** BEFORE ATTEMPTING THE INSTALLATION OF THE SSF-2150 HEADLIGHT FLASHER, THOROUGHLY READ AND UNDERSTAND INSTRUCTIONS AND STEPS SHOWN BELOW!!!

**Important!** DISCONNECT THE BATTERY FROM ELECTRICAL SYSTEM BEFORE ATTEMPTING ANY PART OF THIS INSTALLATION!!!

**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.**

1. Mount the SSF-2150 in the engine compartment near the battery and headlights. DO NOT mount the unit directly on the engine or close to exhaust system.
2. Locate the wire that connects your high beam head- lights to the vehicle high beam control switch (dimmer switch) and cut it. Connect the WHITE wire from the SSF-2150 to the end of the high beam headlight switch which has just been cut. Connect the BLUE wire from the SSF- 2150 to the end of the driver side headlight wire. (see wiring diagram).

3. Locate the wire that connects the passenger side high beam to the driver side high beam and cut it. Be sure to cap or insulate the driver side end of this wire before proceeding. Connect the YELLOW wire from the SSF-2150 to the end of the cut wire from the passenger side high beam headlight (see wiring diagram).
4. **BLACK WIRE**, GROUND (-) to be connected to a good chassis ground.
5. **BROWN WIRE**, NIGHTTIME CUTOFF FEATURE. If flashing headlights ARE ALLOWED during nighttime operation, connect the brown wire to a good chassis ground. If flashing headlights ARE NOT ALLOWED during nighttime operation, connect the brown wire to the positive (+) 12 volt D.C. wire which is connected to the vehicle's parking lights. Do not cut the parking light wire, merely "tap" into the circuit.
6. **ORANGE WIRE**, 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 volt D.C..
7. **RED WIRE**, POWER SOURCE. Connect the red wire to a high current positive (+) 12 volt D.C. power source. Fuse this wire with a customer supplied 15 amp fuse as close as possible to the power source.
8. Check all wiring for good connections. MAKE SURE THE CONTROL SWITCH IS IN THE OFF POSITION. Reconnect the vehicle's battery to the electrical system.

### **OPERATION.**

**OPERATION** - Turn the headlight flasher control switch to the ON position. The high beam headlights will alternately flash. If the vehicle's high beam control switch is activated, the high beams will steady burn. When the vehicle's high beam control switch (dimmer switch) is restored to low beam operation, the high beam headlights will resume flashing.

**NIGHTTIME CUTOFF OPERATION** - When the nighttime cutout feature is used, the SSF-2150 Headlight Flasher is non-operational whenever the vehicle's headlight switch is used.

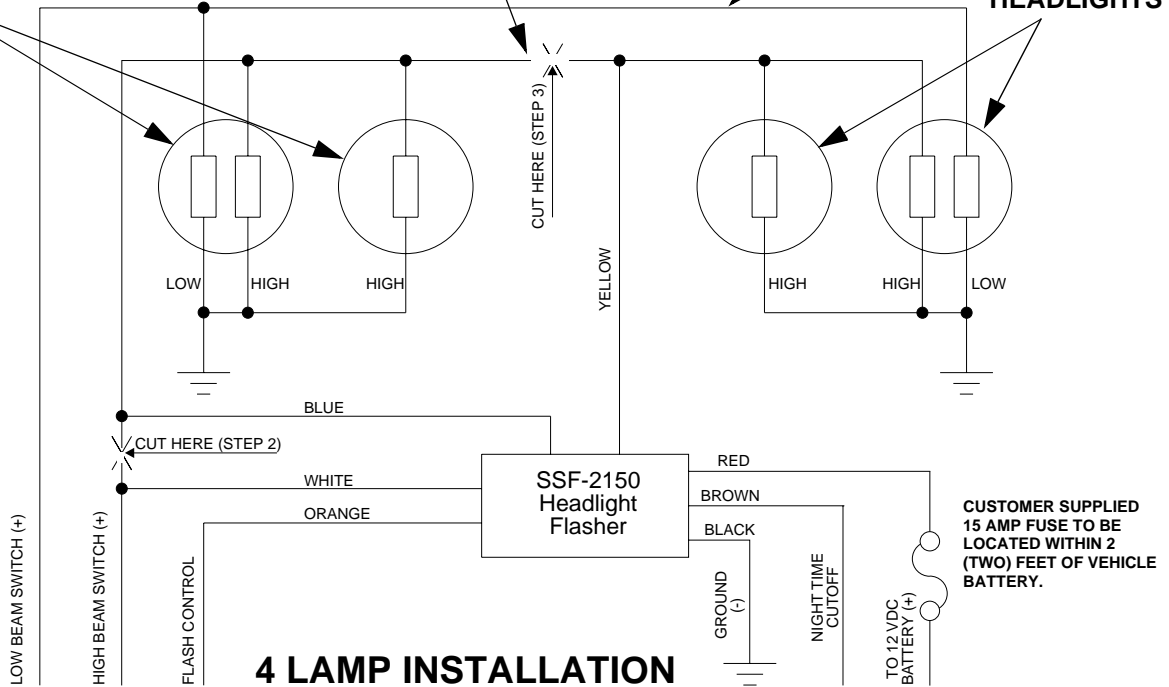
# WIRING DIAGRAMS FOR THE SSF-2150 HEADLIGHT FLASHER

DRIVER SIDE HEADLIGHTS

CAP OR INSULATE WIRE END

VEHICLE WIRING HARNESS

PASSENGER SIDE HEADLIGHTS



DRIVER SIDE HEADLIGHTS

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