

# WHELEN<sup>®</sup>

ENGINEERING COMPANY INC.

Route 145, Winthrop Road,

Chester, Connecticut 06412

Phone: (860) 526-9504

Fax: (860) 526-4078

Internet: [www.whelen.com](http://www.whelen.com)

Sales e-mail: [autosale@whelen.com](mailto:autosale@whelen.com)

Canadian Sales e-mail: [autocan@whelen.com](mailto:autocan@whelen.com)

Customer Service e-mail: [custserv@whelen.com](mailto:custserv@whelen.com)

## Installation Guide SSNF860H Halogen 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!**

## Selecting a Mounting Location:

The SSNF860H must be mounted wherever you mount the 2 power supplies that complete the system. The most common choice for a mounting location would be a compartment. However, due to the wide variety of vehicles onto which the unit can be installed, this is not always possible. The following guidelines will help the installer select an alternative.

1. The flasher should be mounted on a metal surface to aid heat dissipation. Be sure that this surface is not one that either generates or is exposed to excessive heat during normal operation of the vehicle.
2. Do not select a location exposed to potential damage from any unsecured or loose equipment in the vehicle.
3. Be sure the area selected will not allow the unit to be exposed to water.
4. When routing 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. trunk lids, door jams, etc..).

**Caution:** As it will be necessary to drill holes into the mounting surface, the installer **MUST** be sure that no vehicle components or other vital parts will be damaged by the drilling process. **Check both sides of the mounting surface before drilling begins.**

## Mounting the SSNF860H:

1. Position the flasher in its mounting location to ensure that it fits properly. With the flasher in place, insert an awl or other suitable tool into the mounting screw area of the unit and scribe the areas to be drilled.
2. Remove the unit from its mounting area and, using a drill bit sized for a #10 sheet metal screw, drill a hole in each of the areas scribed in the previous step.
3. Return the flasher to its mounting location and using the supplied #10 sheet metal screws, mount the unit.

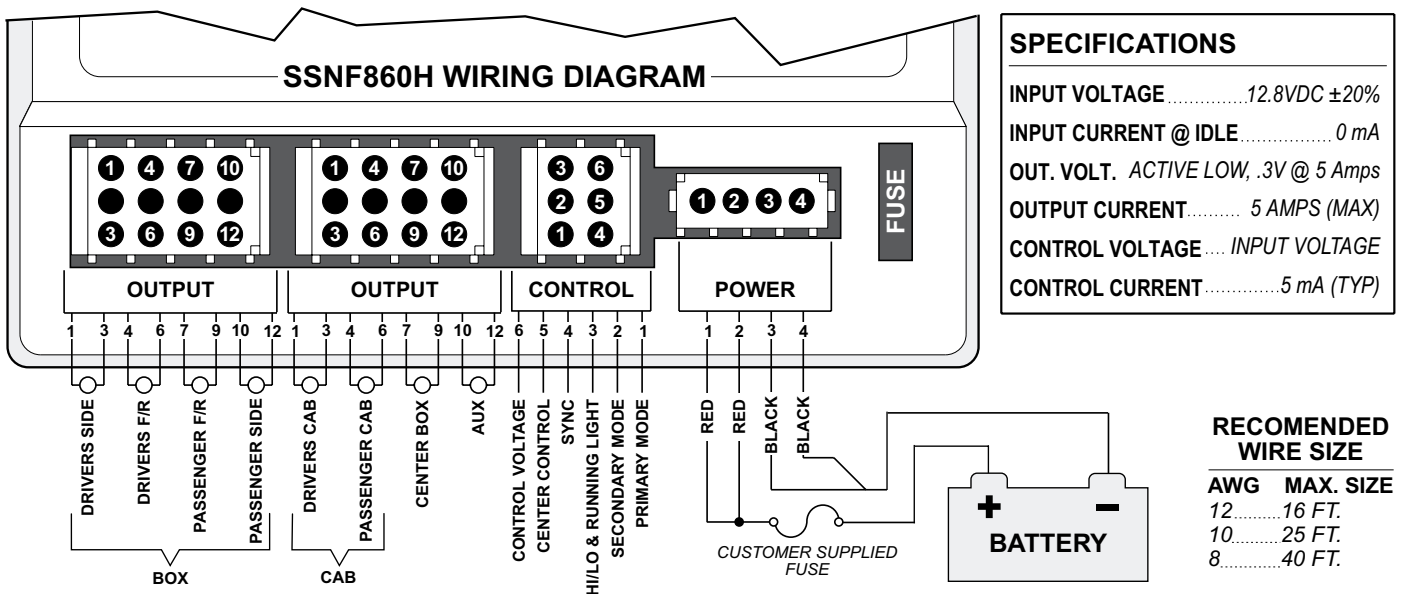
## Wiring the SSNF860H:

**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, & fused "at the battery" to carry the load! (See *wire size chart below*)

1. Locate the 4 position *Input Connector* and plug it into the port indicated on page 2.
2. Run the 2 BLACK wires and the 2 RED wires from the *Input Connector* to the battery.
3. Connect the RED wires to a fuse block (customer supplied) then to the POSITIVE terminal of the battery.

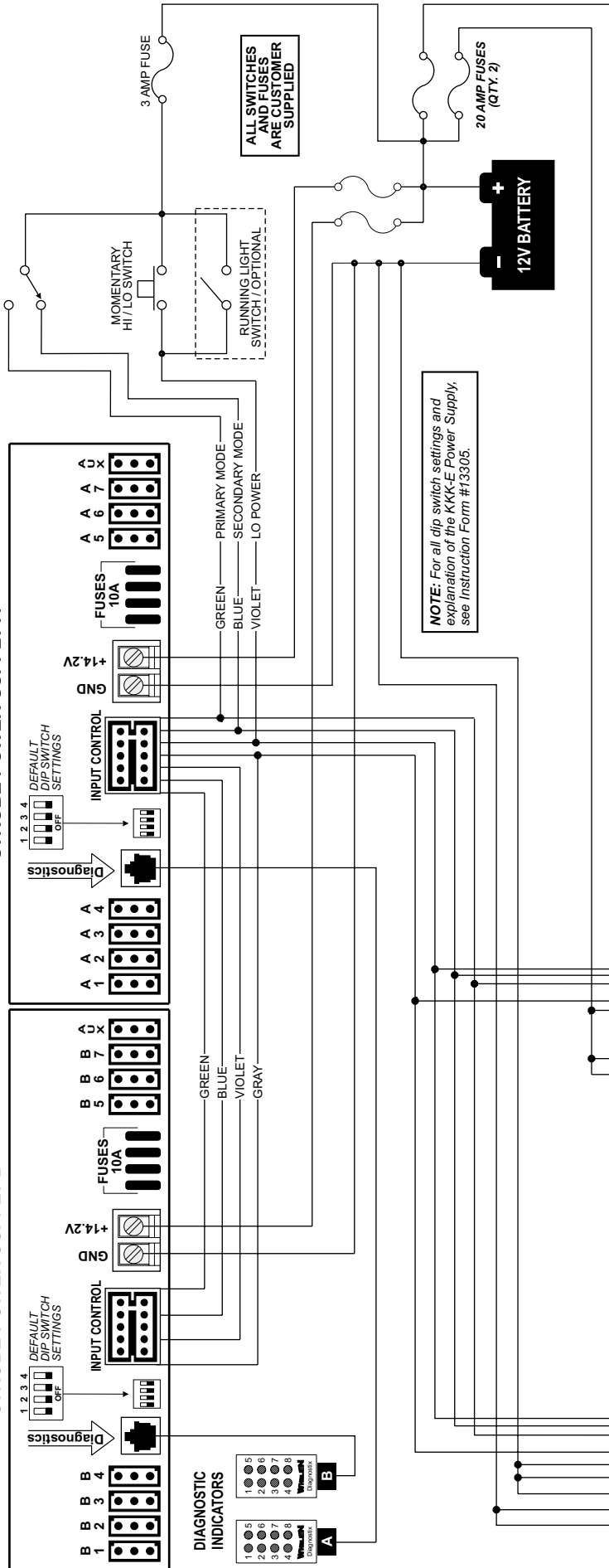
**NOTE!** Although a fuse (customer supplied) is required to be used in the fuse block, do not install the fuse *until all wire connections are completed.*

4. Connect the BLACK wires to the factory chassis ground adjacent to the battery.
5. Refer to diagram below for wiring information for *Switch Control Wires* and *Pattern Control Wires.*



**STROBE POWER SUPPLY A**

**STROBE POWER SUPPLY B**



**STROBE SPECIFICATIONS**

INPUT VOLTAGE ..... 14.2 VOLTS / TYP

INPUT CURRENT ..... 40 AMPS @ 14 LAMPS

FLASH RATE ..... 75 FPM

OUTPUT POWER ..... 31 WATTS / PER LAMP

**HALOGEN SPECIFICATIONS**

INPUT VOLTAGE ..... 14.2 VOLTS / TYP

LAMP LOAD ..... (2) 20 WATT LAMPS

INPUT CURRENT ..... 25 AMPS @ 14 LAMPS

FLASH RATE ..... 75 FPM

**INPUT CONTROL**

PIN	FUNCTION
1	PRIMARY
2	SECONDARY
3	HI/LO & RUNNING LIGHT
4	SYNC
5	CENTER CONTROL
6	N/C

See Notes 1 & 2 Below

See Note 3 Below

1. HI / LO ACTIVE ONLY IN SECONDARY MODE
2. RUNNING LIGHT MODE  
PRIMARY MODE - OFF  
SECONDARY MODE - OFF  
HI / LO - ON
3. + BAT = ENABLE CENTER / SECONDARY  
N/C = DISABLE CENTER / SECONDARY

