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This WPPS6922 Strobe Power Supply . . .

Like all Whelen components, the WPPS6922 can be installed in many different types of vehicles. The guidelines for the installation of this product are written so that no matter what vehicle is being used, the installation and operation of the unit will be simple and straight forward.

Selecting a Mounting Location . . .

The most common choice for a mounting area would be a trunk or similar compartment. However, due to the wide variety of vehicles onto which the unit could be installed, this is not always possible. The following guidelines will help the installer select an acceptable alternative:

- A) The WPPS6922 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.
- B) Do not select a location where the unit will be exposed to potential damage from any unsecured or loose equipment in the vehicle.
- C) When routing the 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.).
- D) When the best mounting location has been determined, securely fasten the unit to it's mounting surface using the supplied hardware.

WARNING: *The Strobe Light Power Supply is a high voltage device. Do not touch or remove tube assembly in strobe light head assemblies while in operation. Wait 10 minutes after disconnecting the unit from its power source before starting work or troubleshooting on power supply or system.*

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 could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins!*

Installation . . .

1. Position the WPPS6922 in its proposed mounting location to ensure that it fits properly. With the unit in place, insert an awl or other suitable tool into the mounting screw area of the power supply and scribe the areas that are to be drilled.

2. Remove the WPPS6922 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 power supply to its mounting location and using the supplied #10 sheet metal screws, mount the unit onto its mounting surface.

Wiring your WPPS6922 . . .

1. Locate the 8 position Input Harness Plug and connect as indicated in Fig. 1. Extend the BLACK and RED wires from the Input Harness Plug towards the battery.

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 the load!*

2. Connect the RED wire to a fuse block (customer supplied) and then to the POSITIVE terminal on the battery.

NOTE! Although a 7.5 amp fuse (customer supplied) is required to be used in the fuse block, do not install the fuse until all of the wire connections are completed.

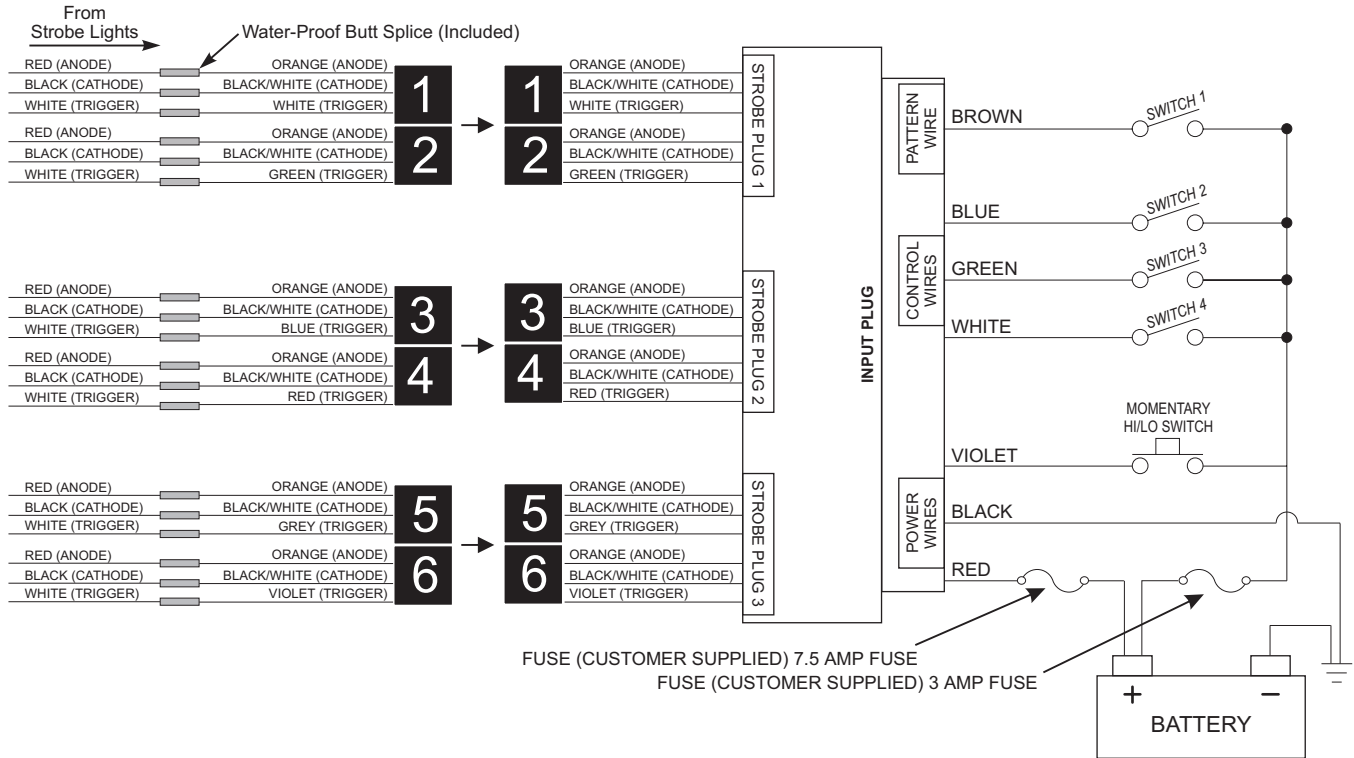
3. Connect the BLACK wire to the factory chassis ground adjacent to the battery.
4. Refer to Fig. 1 for detailed wiring information.

Correct use of the Water-Proof Butt Splice . . .

Water-proof Butt Splices have been included with your power supply. The proper use of these splices will help prevent premature corrosion of your strobe connections. However, the effectiveness of these splices is directly related to their proper installation.

Splice the two wires together as would be done with a regular butt splice. After the wires have been crimped, pass a heat gun over the splice until the outer tubing shrinks around the wires, thus water-proofing the connection. Be sure to keep the heat gun moving over the splice to prevent burning the connector.

Fig. 1



Switch Operation Table

Pattern Control (Switch 1)

Switch 1 Disabled Comet Flash Pattern
 Switch 1 Enabled Single Flash Pattern

Outlet Control (Switches 2, 3 & 4)

Switches 2, 3 & 4 Disabled No Strobe Plugs Active
 Switch 2 Enabled Strobe Plug 1 Active
 Switch 3 Enabled Strobe Plug 2 Active
 Switch 4 Enabled Strobe plug 3 Active

WPPS6922 Specifications:

INPUT VOLTAGE 25.6 VDC ± 20%
INPUT CURRENT (OFF) 0 AMPS
INPUT CURRENT (30 WATTS)... 1.5 AMPS (TYP)
INPUT CURRENT (60 WATTS)... 3.0 AMPS (TYP)
INPUT CURRENT (90 WATTS)... 4.5 AMPS (TYP)

FLASHRATE COMET 75 FPM (PER LAMP) @ 85 ms
FLASHRATE SINGLE FLASH... 130 SFPM

INPUT CONTROL VOLTAGE 25.6 VDC ±20%
INPUT CONTROL CURRENT..... 20 MA (TYP)

ENERGY 60 WATT MODE 26.5 JOULES (TOTAL) 11.5 / 5 / 5 / 5 JOULES
ENERGY 90 WATT MODE 36 JOULES (TOTAL) 15 / 7 / 7 / 7 JOULES
ENERGY LO POWER MODE 10 JOULES (TOTAL) 2.5 / 2.5 / 2.5 / 2.5 JOULES

Lo Power Operation Note

Applying 24 VDC to the VIOLET wire activates Lo Power operation mode. The power supply is now effectively "latched" into this mode. To restore normal, High Power operation, it is necessary to turn the power supply off, and then on again. When the power supply restarts, it will be in its normal, High Power operating mode.