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The Model UPS-64C™ Strobe Light Power Supply is a multiple outlet power supply, to be mounted in areas protected from the weather and abuse. The electronics of the power supply are enclosed inside a weather resistant (Not water-proof) powder coated die cast aluminum housing.

MOUNTING THE UPS-64C . . .

1. Install the unit with the strobe light connections located in such a way that they are easily accessible.
IMPORTANT: THE UPS-64C IS NOT WATERPROOF.
2. Install the unit with the four supplied #10 sheet metal screws on a metal surface to provide adequate heat dissipation (See important warning on page 3).

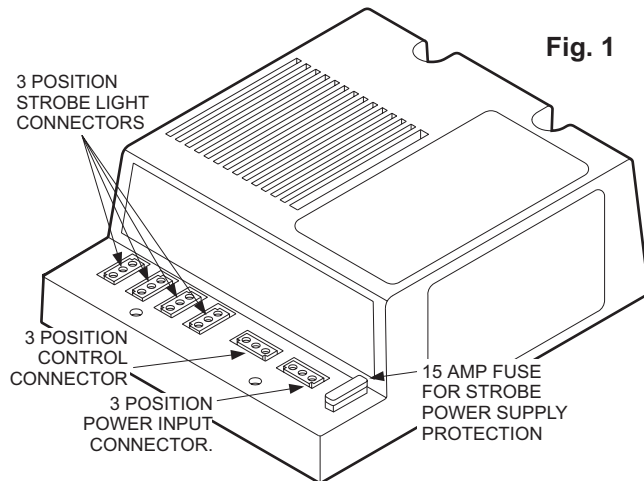


Fig. 1

3. Fit the supplied 3 pin AMP connectors on the pins located on the end of the cables connected to the remote strobe light head assemblies, (Fig. 2) and insert into the proper strobe light outlets to conform to the desired strobe light system (See Pg. 4 & 5).
4. Connect the power supply to power source via a desired control switching system. (See Pg. 4 & 5)

CONNECTING THE AMP 3 PIN CONNECTOR HOUSINGS TO THE CABLES OF THE REMOTE STROBE LIGHT HEAD ASSEMBLIES . . .

The Whelen remote strobe light head assemblies are supplied with a 3 conductor cable mounted to the units. On the end of each one of these cables are three pins factory crimped onto each of the three wires. After cables have been properly installed and routed, these pins will have to be inserted into the AMP 3 pin housings enclosed in the mounting kit. (Fig. 2).

NOTE: IT IS IMPORTANT TO OBSERVE PIN LOCATIONS & ORDER OF COLOR ON AMP 3 PIN CONNECTORS.

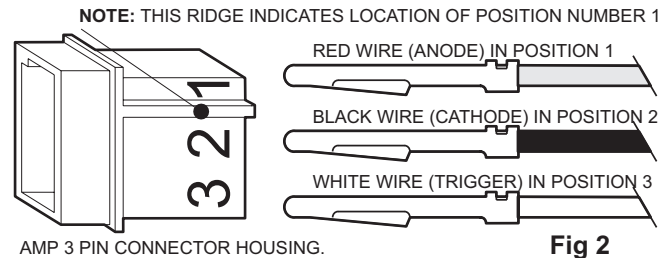


Fig 2

Once these AMP 3 pin connectors are properly connected onto the cables of the remote strobe light head assemblies, the remote strobe light head assemblies are ready to be plugged into the 3 position socket strobe light connectors located on the Model UPS-64C™ Power Supply (Figs. 1 & 5).

CONTROL WIRE HARNESS ASSEMBLY

The Control wire harness assembly consists of an AMP 3 pin connector with 2 wires, green and blue (See Figures 3 & 5). The green wire controls the strobe light outlets 1, and 4, the blue wire controls the strobe light outlets 2 and 3. This Control harness assembly is to be connected to the 3 position socket control connector located on the UPS-64C strobe light power supply (See Figures 1 & 5). This control harness assembly is to be crimped to a customer supplied control cable, which in turn is to be connected to a customer supplied switch to complete the installation.

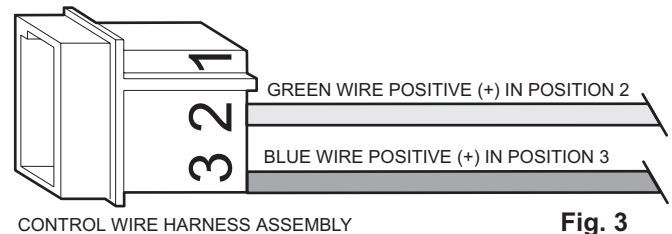


Fig. 3

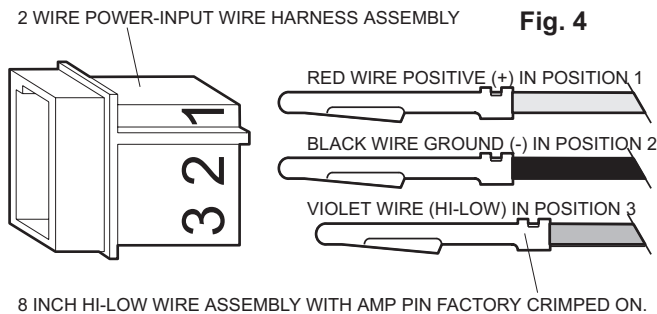
POWER-INPUT WIRE HARNESS ASSEMBLY

This Power-Input wire harness is to be connected to the 3 position socket Power-Input connector located on the power supply (See Figures 1 & 5). The Power-Input wire harness assembly consists of 2 wires, red and black (Fig. 4), and functions to supply the power supply with power and controls the 3 position strobe light connectors (Fig. 5).

HI/LOW STROBE LIGHT INTENSITY CONTROL

The violet wire assembly (enclosed in the mounting kit) is to be inserted in the AMP 3 position pin housing of the Power-Input wire harness (See Fig. 4), and controls the Hi-Low feature of the power supply. This wire will have to be connected to the system as shown in figure 7, and wiring diagrams shown on page 5. The Hi-Low intensity feature will enable to put the strobe lights of the system into low power, or 30 percent of their high power light intensity. This feature is most useful when high power may not be needed, such as for night use. To reset the strobe lights back into the high power mode, turn power to strobe light power supply OFF, then back ON.

NOTE: If the Hi-Low feature is not desired, do not insert the purple wire on the Power-Input wire harness. The 2 wires of the Power-Input harness assembly and the purple Hi/Low control wire, are to be crimped to a customer supplied power cable which in turn is to be connected to a customer supplied control switching system (See Figures 6 & 7 on pg. 4, and Wiring Diagrams on pg. 5).



RECOMMENDED STEPS FOR INSTALLING A STROBE LIGHT SYSTEM

1. Install the UPS-64C™ in an accessible location as described on page 1.
2. Install the remote strobe light head assembly in the desired location, and run the cables to the power supply.
3. Connect the 3 pin position AMP housings to the cables of the remote strobe light head assemblies and plug into the appropriate 3 position socket strobe light connectors on the UPS-64C™ (See Pg. 4 for Strobe Light Flashing Configuration Options).
4. Connect the UPS-64C™ to the power source through a switching control (See Figs. 6 & 7 and Wiring Diagrams on page 5).

SWITCH CONTROL OPTIONS AVAILABLE WITH THE UPS-64C™ STROBE POWER SUPPLY

(See Figures 6, & 7).

On page 4 are shown switch control options easily wired to complete a strobe light system. Switches customer supplied.

FIGURE 6, ALL ON HIGH POWER ONLY

This wiring diagram shows an On-Off control system. This configuration controls the two sets of 3 position socket strobe light connectors as one unit, the sets functioning as described in figure 5, page 4.

FIGURE 7, ALL ON WITH HIGH AND LOW POWER CONTROL

This wiring diagram shows an Hi/Low/Off control system. This configuration controls the two sets of 3 position socket strobe light connectors as one unit, the sets functioning as described in figure 5, page 4.

NOTE: For a 2 OR 2 OR 4 switching configuration (not shown), connect each strobe light outlet set to an On-Off switch with the proper positive (+) wires located on the Power-In wire harness (see figure 5 on page 4). Power both switches via each other or individually.

UPS-64C™ FEATURES . . .

VOLTAGE: 12/24 volts DC operation only.

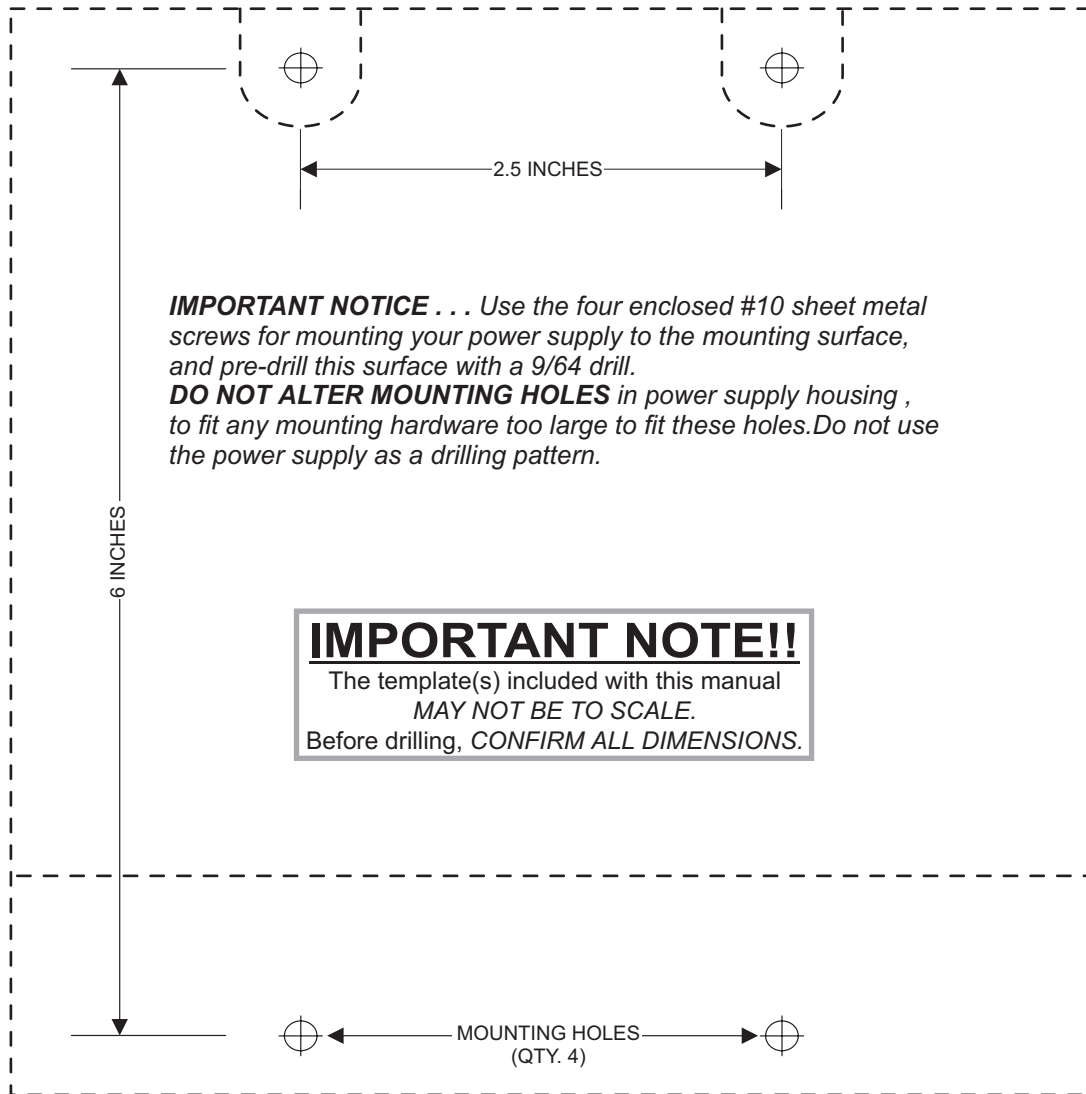
FLASH RATE: 70 strobe light blasts per minute per strobe light outlet, for a total of 140 strobe light blasts per minute between two alternating strobe light outlets (See Fig. 5)

HI/LOW: The standard Hi/Low strobe light intensity feature is described in detail under Hi-Low control copy (See Pg. 2).

POWER CONSUMPTION: 6.0 amps at 14 volts DC (high power), 3.0 amps at 28 volts DC (high power).

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 TURNING OFF POWER** before starting work or any trouble shooting on the unit or the system.

CAUTION: Reversing polarity during installation (reversing positive voltage wires and ground wires) will blow the 15 amp fuse incorporated into the unit. The fuse clip securing the fuse is located beside the 3 position socket power input connector, making the fuse easy to replace. (See Figure 1)



IMPORTANT NOTICE . . . Use the four enclosed #10 sheet metal screws for mounting your power supply to the mounting surface, and pre-drill this surface with a 9/64 drill.

DO NOT ALTER MOUNTING HOLES in power supply housing , to fit any mounting hardware too large to fit these holes. Do not use the power supply as a drilling pattern.

IMPORTANT NOTE!!

The template(s) included with this manual
MAY NOT BE TO SCALE.
Before drilling, CONFIRM ALL DIMENSIONS.

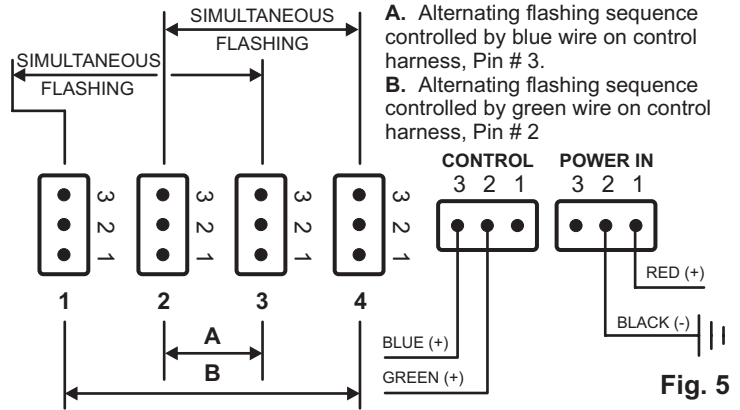
IMPORTANT NOTE: Whelen Strobe Light Power Supplies are designed to interface with Whelen flash tubes, Whelen Strobe Light Head Assemblies and Whelen cables only. Substitution of any of these components with anything other than Whelen supplied equipment voids all warranties.

All Whelen products are Designed,  Manufactured and Assembled in the U.S.A.

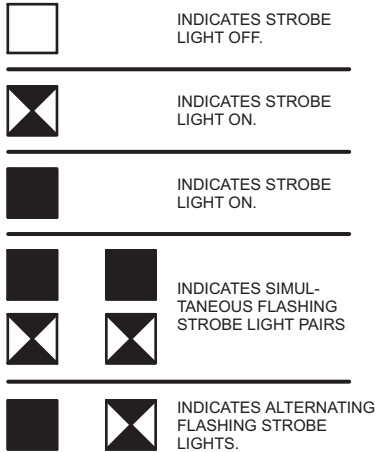
The Model UPS-64C outlet strobe light flashing sequence variations are controlled by three factors:

1. Selecting one of the four wiring and control switchings available for the system as described in diagrams shown.
2. Choosing to connect the remote strobe light head assemblies to the alternating or simultaneous strobe light flashing functions on the power supply outlets.
3. Number of remote strobe light head assemblies used.

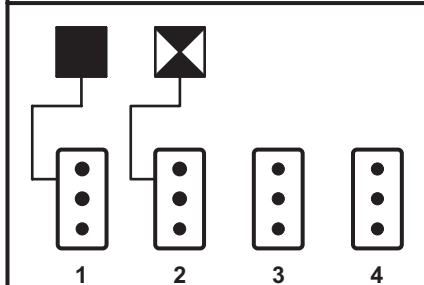
NOTE: The UPS-64C features a Hi-Low strobe light intensity control. When in low intensity mode, switch power to power supply OFF and then back ON, and the system will return to high.



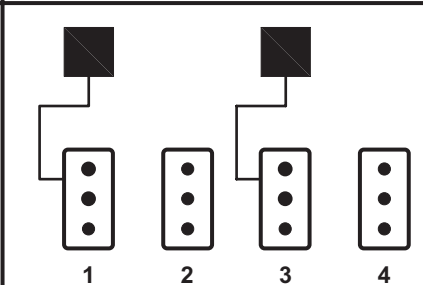
REMOTE STROBE LIGHT HEAD ASSEMBLY LIGHTING SYMBOLS



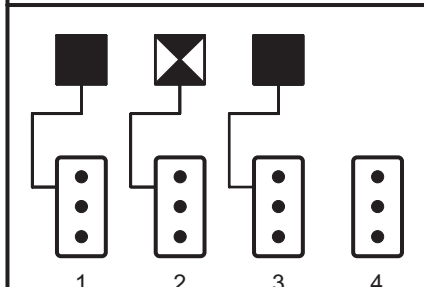
SWITCHING CONTROLS AND STROBE LIGHT FUNCTIONS (ALSO SEE NEXT PAGE)



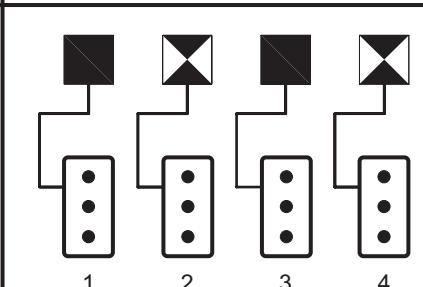
2 LIGHT SYSTEM
2 Strobe Light Head Assemblies,
1 Strobe light Flashing Alternately
with 1 Strobe Light.



2 LIGHT SYSTEM
2 Strobe Light Head Assemblies,
1 Strobe Light Flashing Simultaneously
with 1 Strobe Light.

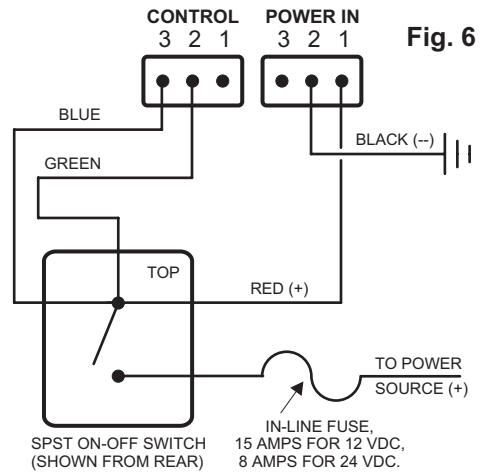


3 LIGHT SYSTEM
3 Strobe Light Head Assemblies,
2 Strobe Lights Flashing Alternately
with 1 strobe light.

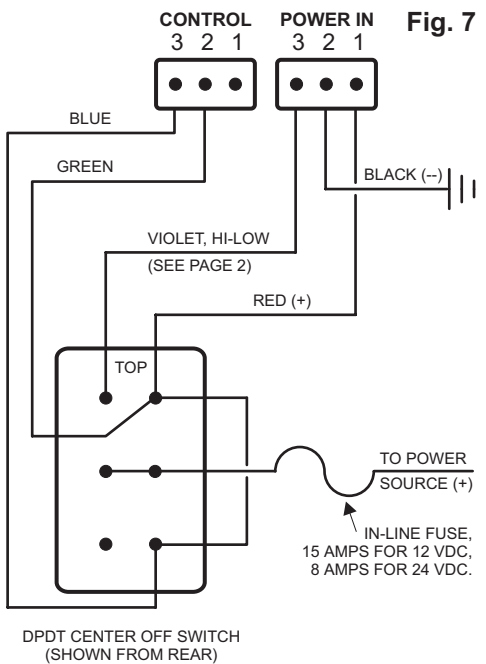


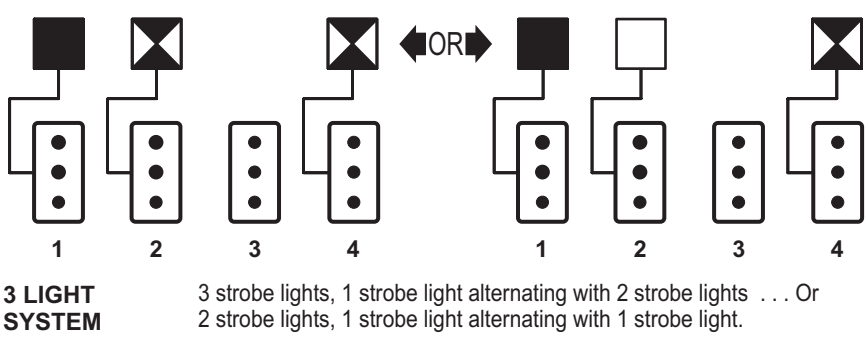
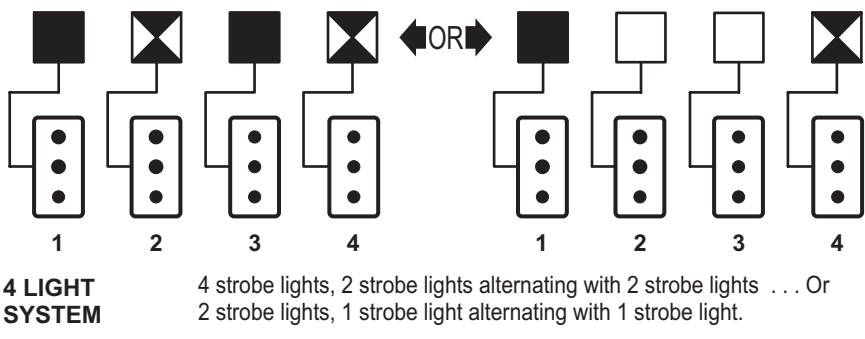
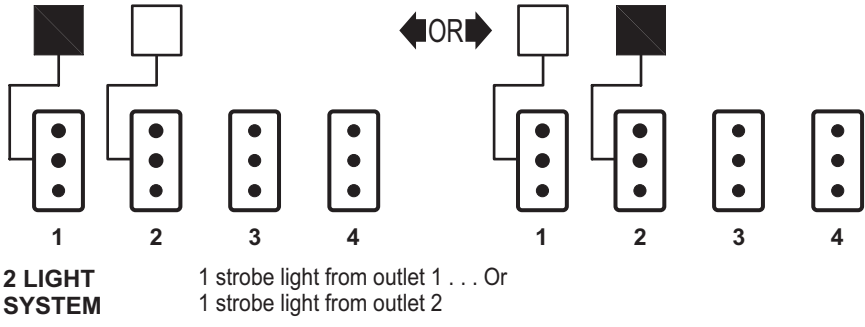
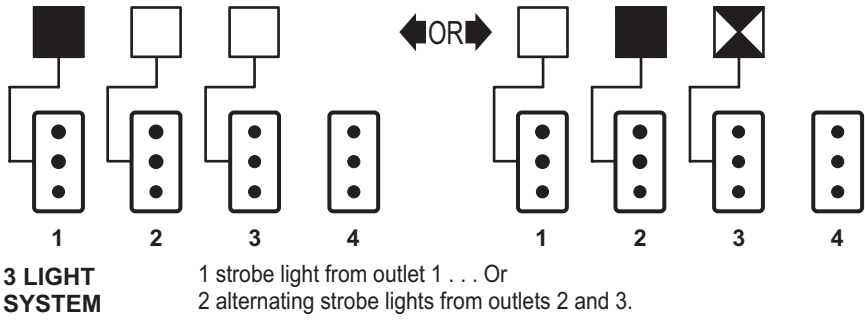
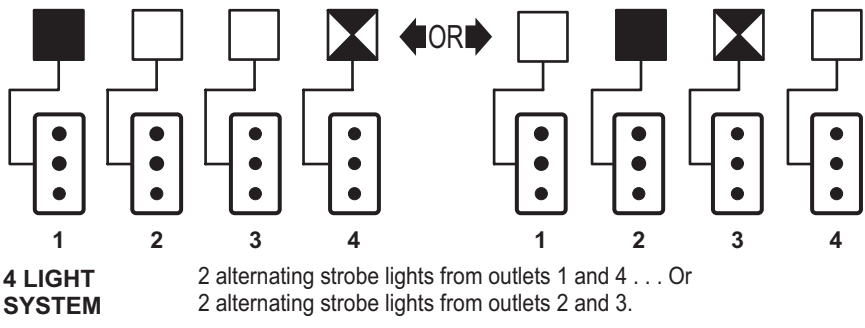
4 LIGHT SYSTEM
4 Strobe Light Head Assemblies,
2 Strobe Lights Flashing Alternately
with 2 strobe lights.

4 OUTLETS ON-OFF SWITCHING, HIGH POWER



4 OUTLETS HIGH-OFF-LOW SWITCHING





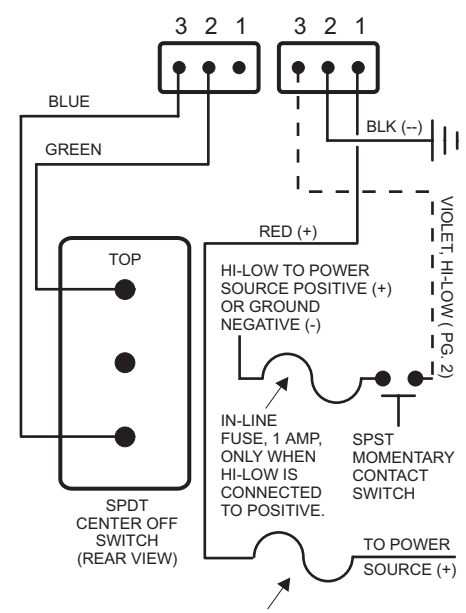
On this page, two selective switching variations with strobe light operating modes are illustrated. The final strobe light system depends on the location assigned to each remote strobe light head assembly and its type. (360° or directional units)

IMPORTANT GENERAL NOTES:

FUSES: All fuses shown in the wiring diagram below are customer supplied and recommended in-line fuse ratings are to be observed and used.

SWITCHES: All switches are customer supplied.

SELECTIVE SWITCHING VARIATION 1



SELECTIVE SWITCHING VARIATION 2

