

WHELEN[®]

ENGINEERING COMPANY INC.

Route 145, Winthrop Road,
Chester, Connecticut 06412

Phone: (860) 526-9504

Fax: (860) 526-4078

Internet: www.whelen.com

Sales e-mail: autosale@whelen.com

Canadian Sales e-mail: autocan@whelen.com

Customer Service e-mail: custserv@whelen.com

Installation Guide: Model KKKEPS KKK E-Specification Power Supply (Rev. C)

Automotive: Power Supplies

Mounting the KKKEPS Power Supply

- The KKKEPS 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.
- Do not select a location where the KKKEPS will be exposed to potential damage from any unsecured or loose equipment in the vehicle.
- Be sure that the KKKEPS ventilation openings are unobstructed. Maintain a distance of at least 2" (two inches) between these openings and any surface.
- Be sure the area selected will not allow the KKKEPS to be exposed to water. *The KKKEPS is not waterproof!*
- The two power supplies must be mounted beside each other.
- When routing the KKKEPS'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. compartment doors, un-grommated holes, etc.).
- When the best mounting location has been determined, securely fasten the KKKEPS to its mounting surface using #10 sheet metal screws.

Wiring the KKKEPS Power Supply

- Using 8 AWG wire, connect the positive (+) terminal of power supply "A" to +12VDC. Fuse at 30 amps.
- Connect the positive (+) terminal of power supply "B" to +12VDC. For wire length less than 27 feet, use 8 AWG; For 27 to 42 feet, use 6AWG. Fuse at 30 amps.
- Using 8AWG wire, connect the ground (gnd) terminal of power supply "A" to chassis ground/ground bus.
- Using 8AWG wire, connect the ground (GND) terminal of power supply "B" to chassis ground/ground bus.

Wiring the Strobe Lighthead

- Cut the strobe lighthead cables to their necessary lengths.

- Install the socket-type terminals on the lighthead end of the strobe cables. NOTE: The shield drain wire (non-insulated) is not used at this end and may be trimmed flush with the harness jacket.
- Install the pin-type terminals on the power supply end of the strobe cables. NOTE: The shield drain wire (non-insulated) will be grounded to the power supply mounting screw adjacent to the strobe outlets.
- Insert the socket-type terminals into the connectors designed to plug into the strobe lighthead as follows:
Pos. 1 - RED wire
Pos. 2 - BLACK wire
Pos. 3 - WHITE wire
- Insert the pin-type terminals into the connectors designed to plug into the power supply's strobe outlet as follows:
Pos. 1 - RED wire
Pos. 2 - BLACK wire
Pos. 3 - WHITE wire
- Route the strobe cables from the power supply strobe outlet to that outlet's designated lighthead. Insert connector into lighthead plug. Refer to page 2 for lighthead designation chart.
- Plug the opposite end into its designated strobe outlet. ground the shield drain wire to the nearest power supply mounting screw.
- Repeat for all remaining strobe cables.

CONTROL HARNESS CONNECTIONS

- Refer to wiring schematic.

STROBE OUTLET DESIGNATIONS

- Refer to power supply labels.

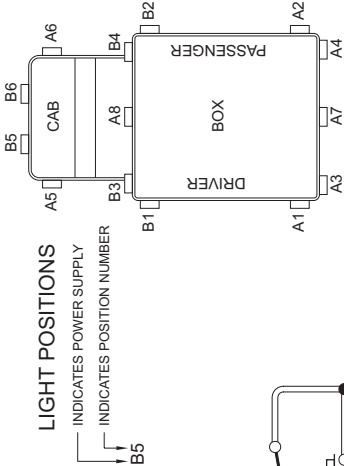
SWITCH CONNECTIONS

- Refer to wiring schematic.

DIP SWITCH FUNCTIONALITY

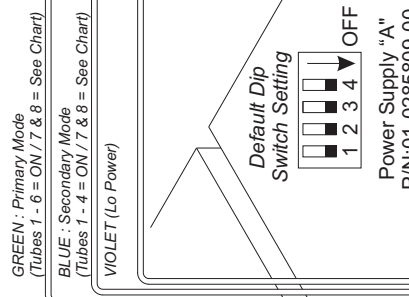
- Refer to dip switch configuration table .

For warranty information regarding this product, visit www.whelen.com/warranty

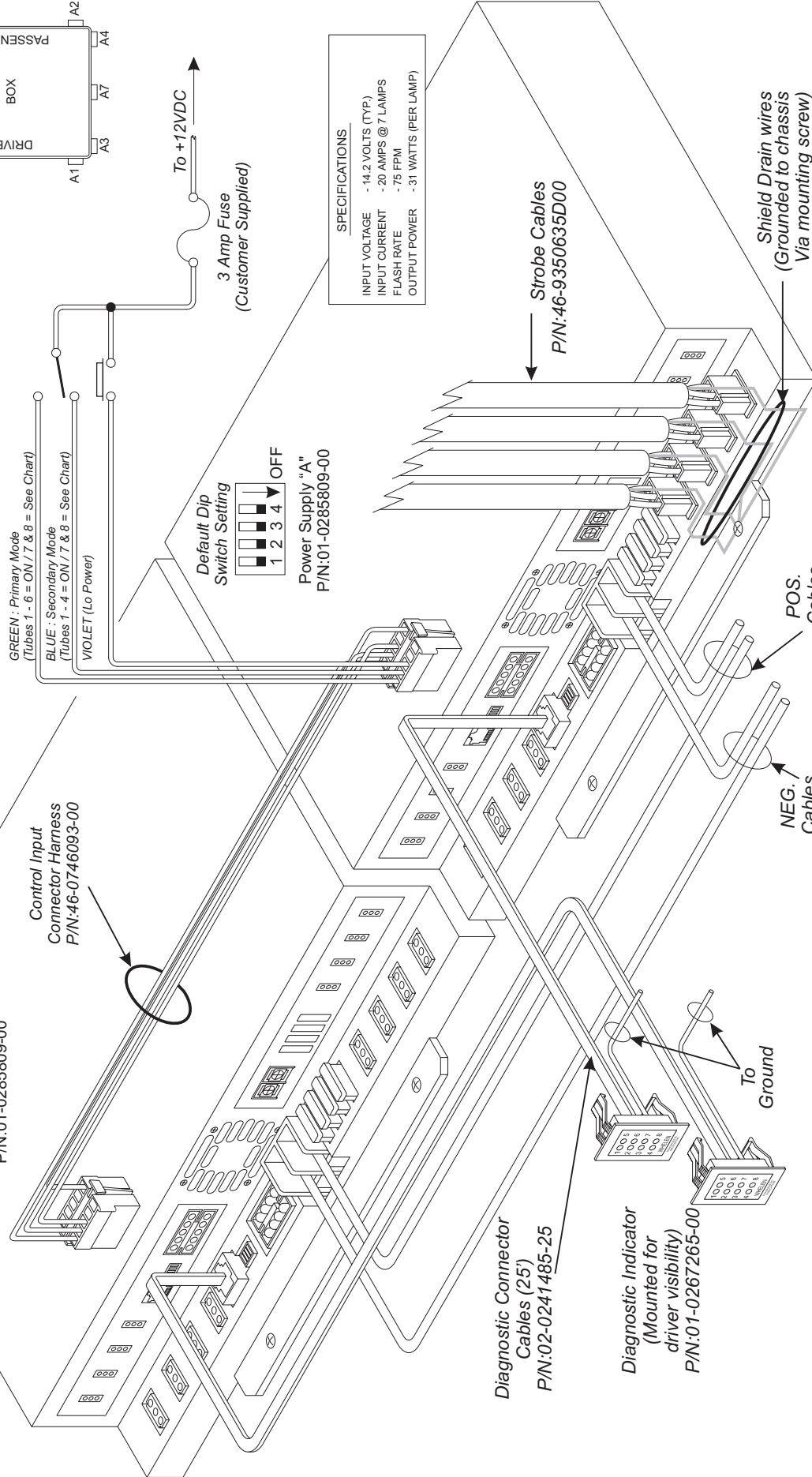


DIP SWITCH CONFIGURATION

DIP SWITCH SETTINGS	1	2	3	4	SETTING	PRIMARY	SECONDARY
OFF	OFF	OFF	OFF	OFF	FLASH PATTERN	COMET	COMET
ON	ON	ON	ON	ON	SUPPLY A	DOUBLE ACTION	DOUBLE ACTION
ON	OFF	OFF	OFF	OFF	OPTION	7 ON / 8 ON	7 ON / 8 OFF
OFF	ON	ON	ON	ON	OPTION	7 ON / 8 OFF	7 ON / 8 OFF
OFF	ON	OFF	OFF	OFF	OPTION	7 & 8 ON	7 & 8 ON
ON	ON	ON	ON	ON	OPTION	7 & 8 OFF	7 & 8 OFF



SPECIFICATIONS
INPUT VOLTAGE - 14.2 VOLTS (TYP.)
INPUT CURRENT - 20 AMPS @ 7 LAMPS
FLASH RATE - 75 FPM
OUTPUT POWER - 31 WATTS (PER LAMP)



Note 1 - To +12VDC. Use 8 gage wire. Fuse each wire @ 30 Amps.

Note 2 - To ground bus. Use 8 gage wire.

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.