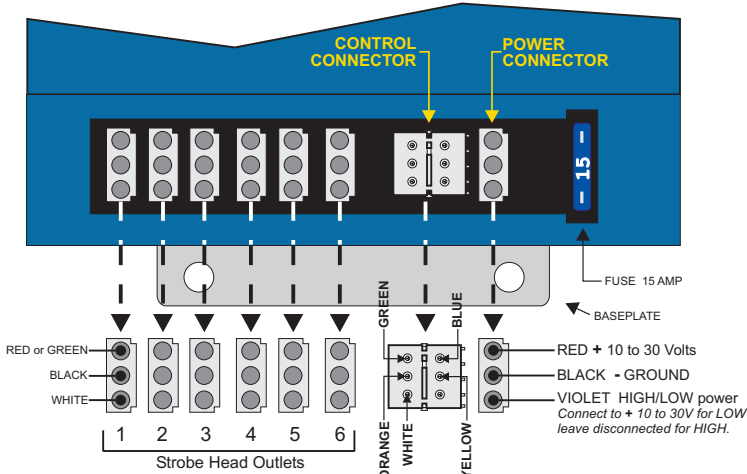


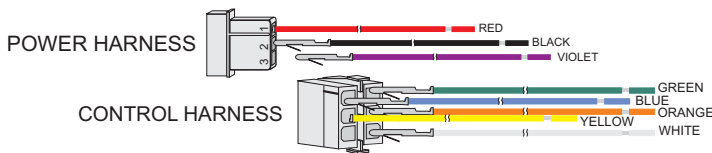
TECHNICAL SPECIFICATIONS

RPM6	-60	-80	-90
Input Voltage	10-30V	10-30V	10-30V
Input Current at 12.8V	5.5A	7.75A	8.5A
Input Current at 25.6V	2.6A	3.5A	4A
Input Current (Standby)	< 25ma	< 25ma	< 25ma
Input Power	75W	100W	110W
Output Power	60W	80W	90W

CONNECTION DIAGRAMS



Included with each power supply:



MOUNTING

Mount the power supply in a clean, dry location. Mounting the unit to a flat metal surface will aid in heat dissipation. Use the power supply as a template to mark the hole locations. The mounting holes will accept up to a 1/4" bolt.

Note: The power supply baseplate must be connected to chassis ground (GND) to reduce radio interference.

STROBE HEAD INSTALLATION

The output power divides equally between all strobe heads installed. Example: 80 Watts into 6 heads = 13 Watts per head. Consider this before selecting the number and type of strobe heads to install.

WARNING: Installing only 2 strobe heads on the 80W and 90W version is not recommended. If you must use only 2 strobe heads, install them into outlets 5 & 6 and activate these outlets only by connecting just the BLUE wire to +V. Output power will be reduced automatically to prevent damage to the strobe heads.

INSTALLATION GUIDE

RPM6

6 OUTLET - RANDOM PATTERN SELECTION - HEAD MAPPING - STROBE POWER SUPPLIES

- 60 Output Power 60 Watts
- 80 Output Power 80 Watts
- 90 Output Power 90 Watts



POWER CONNECTIONS

If you have purchased a pre-assembled switch harness, see the install sheet included with the product. Otherwise, follow the instructions below and the diagrams on the next page.

USING THE SUPPLIED POWER HARNESS:

- Connect the **RED** wire to battery positive (+) or a 15AMP or greater **CONSTANT POWER** fuse panel circuit. (The BLUE and GREEN control wires turn the power supply ON/OFF.)
- Connect the **BLACK** wire to battery negative (-) or directly to vehicle chassis (recommended).

Use this chart to select the correct wire size for the RED and BLACK wires:

Wire Length	RPM6-60	RPM6-80	RPM6-90
1 to 10 Feet	18 AWG	16 AWG	16 AWG
10 to 20 Feet	16 AWG	16 AWG	14 AWG
20 to 30 Feet	14 AWG	14 AWG	12 AWG
30 to 40 Feet	14AWG	12 AWG	12 AWG
40 to 50 Feet	12 AWG	12 AWG	10 AWG

- The **VIOLET** wire activates the LOW power function which limits the *flash intensity* for nighttime use. If you do not require the LOW power function, remove the violet wire or connect to (-) Ground. Connect the VIOLET wire to +12/24V to activate the LOW power function (typically through a switch).

CONTROL CONNECTIONS

USING THE SUPPLIED CONTROL HARNESS:

Connect each control wire to +12/24V to activate that function. *Note: Control wires (Yellow, Green, Blue, Orange, White, Violet) are all Low Current circuits and can be wired with a minimum of 22AWG wire.*

The functions are described below:

BLUE and **GREEN** wires turn the power supply ON/OFF and activate outlets as shown in this chart:

WIRE COMBINATION	OUTLETS	Notes for 80 and 90 Watt Models
(NONE)	OFF (Standby)	Off (Standby)
GREEN ONLY	1-2-3-4	Full Output Power.
BLUE ONLY	5-6	Output power reduced to protect strobe heads.
BLUE & GREEN	ALL (1-2-3-4-5-6)	Full Output Power.

60 watt model does not reduce output power when only outlets 5-6 are activated.

YELLOW selects the Random Level:

The random level determines how often the flash pattern is changed.

WIRING	RANDOM LEVEL	Description
YELLOW DISCONNECTED	4	Pattern change after 4 repeats. NORMAL
YELLOW TO BATTERY+	2	Pattern change after 2 repeats. HIGH

continued on next page...

CONTROL CONNECTIONS

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WHITE Activates the Head Mapping function. Head Mapping randomly selects a new Head Pairing whenever the flash pattern changes. Head Pairing determines which heads flash at the same time.

ORANGE Activates "**CHAOS MODE**". Chaos Mode changes the Head Pairing after every flash pattern regardless of the Random Level selected. This produces maximum light movement. Chaos Mode automatically enables Head Mapping.

WIRING DIAGRAMS

DIAGRAM (1): Basic Setup

The minimum wiring required to operate the RPM6.

Functions: OUTLETS: All (1-2-3-4-5-6)
RANDOM LEVEL: 4
HEAD MAPPING: Off
CHAOS MODE: Off
LOW POWER: Off

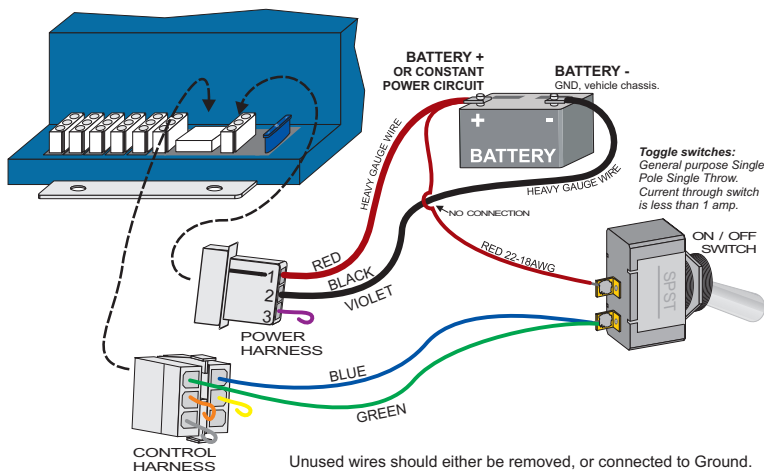
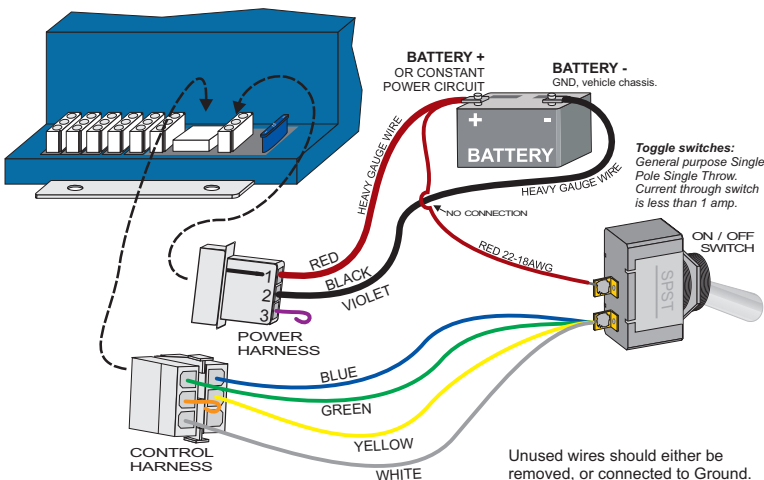


DIAGRAM (2): Adding Features

This diagram shows how to select a Random Level and activate the Head Mapping feature.

Functions: OUTLETS: All (1-2-3-4-5-6)
RANDOM LEVEL: 2
HEAD MAPPING: On
CHAOS MODE: Off
LOW POWER: Off



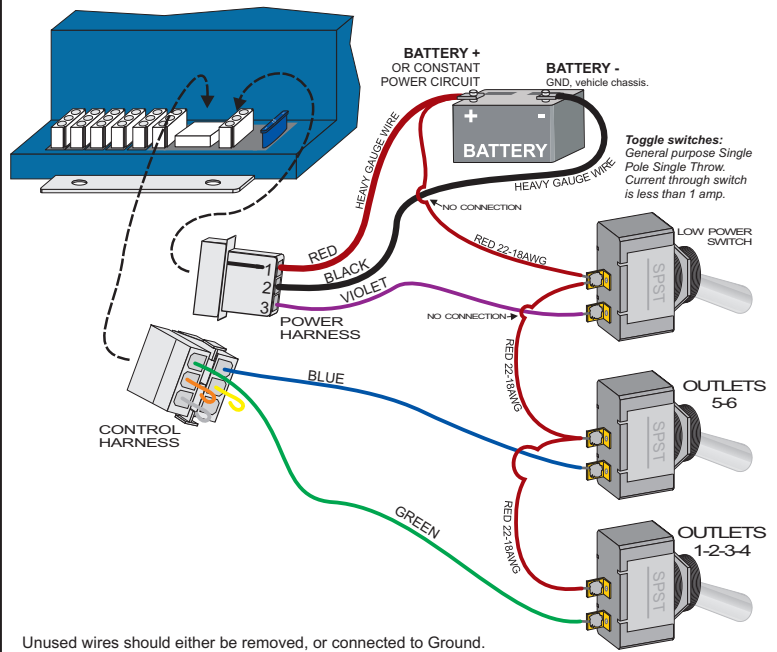
The YELLOW wire sets the random level to 2.
The WHITE wire activates the Head Mapping function.
If desired, these wires can be connected to separate switches to switch functions independently.

WIRING DIAGRAMS

DIAGRAM (3): Standard switch panel

This diagram shows the wiring of the SWITCH-RPM6S pre-assembled switch panel accessory.

Functions: OUTLETS: Selective (1-2-3-4)and/or (5-6)
RANDOM LEVEL: 4
HEAD MAPPING: OFF
CHAOS MODE: OFF
LOW POWER: Switch selected.



TROUBLESHOOTING

Blown Fuse: The RPM6 will blow a fuse if the input voltage is reversed. If this happens, first locate the wiring fault, then replace the fuse with one of the same rating.

Erratic behavior (and/or) shutdown: The RPM6 will shut down if there is a short circuit condition on any one of the strobe heads. If the electrical conductors connecting the power supply to the strobe heads are exposed to water a short circuit will result. The first sign is intermittent operation, followed by complete shutdown of the strobe system. To find the short circuit, unplug all strobe head cables from the RPM6. Test **one** cable/head at a time until the problem is found.

ACCESSORIES

The following accessories are available to make the installation of the RPM6 power supply even easier:

SWITCH-RPM6S - STANDARD SWITCH PANEL

A fully assembled switch panel which provides Selective switching of heads and LOW POWER control using three lighted rocker switches.

SWITCH-RPM6R - ROTARY SWITCH PANEL

A fully assembled switch panel which provides control of All Functions using three lighted rocker switches and an 8 position rotary switch.

All panels are pre-wired with 15'(standard) of cabling.