

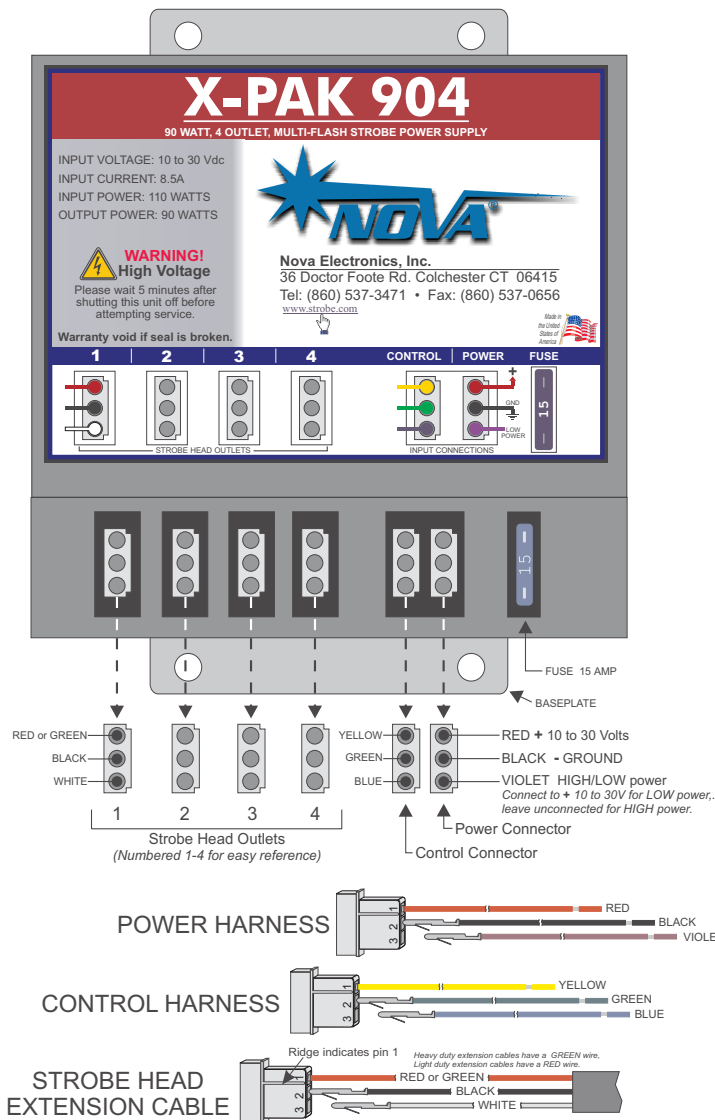
X-PAK 904

 **IMPORTANT!** This product is **NOT** waterproof. It must be mounted to a metal surface in a clean dry area. 

TECHNICAL SPECIFICATIONS

| | |
|------------------------|------------------------------|
| INPUT VOLTAGE | 10 to 30 Vdc |
| INPUT CURRENT | 8.5A at 12.8V, 4.2A at 25.6V |
| INPUT POWER | 110 Watts |
| OUTPUT POWER | 90 Watts |
| OUTPUT ENERGY | 80 Joules |
| FLASH RATES | |
| Double Flash: | 170 flashes per minute. |
| Quad Flash: | 140 flashes per minute. |
| Quintuple Flash: | 140 flashes per minute. |
| Mega Flash: | 140 flashes per minute. |

CONNECTION DIAGRAMS



INSTALLING THE X-PAK 904

1. Physical 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.*

2. Strobe Head installation

Plug the strobe light heads into the outlets. Keep the following in mind:

- Heads connected to outlets 1 and 3 flash at the same time.
- Heads connected to outlets 2 and 4 flash at the same time.
- Heads connected to 1 and 3 alternate with heads 2 and 4.

The output power divides equally between all strobe heads installed. Example: 90 Watts into 2 heads = 45 Watts per head. Consider this before selecting the number and type of strobe heads to install. Do not exceed the wattage rating of the head. *Note: This supply reduces output power when only 2 outlets are activated.*

3. Electrical Hookup

If you have purchased a pre wired switch harness, follow the included instructions. If you are wiring the system yourself follow the instructions below and the diagrams on the next page.

POWER HARNESS:

- Connect the RED wire to battery positive (+) or a fuse panel circuit rated for at least 15 AMPS.
- Connect the BLACK wire to battery negative (-) or directly to vehicle chassis.

Note: Use the correct size wire for power connections.

The length of the wires determines the size needed.

- 1 to 10 ft. use 18AWG wire.
- 10 to 20 ft. use 16AWG wire.
- 20 to 35 ft. use 14AWG wire.
- 35 to 50 ft. use 12AWG wire.

- The VIOLET wire controls HIGH / LOW power. Low power limits the flash intensity for nighttime use. Connect VIOLET to +12/24V for LOW power, leave VIOLET disconnected for HIGH power.

CONTROL HARNESS:

- YELLOW, GREEN, BLUE wires select the flash pattern and also control which strobe head outlets are activated. A wire is 'selected' when connected to +12/24V. When all control wires are unconnected the power supply is in a low current SHUTDOWN MODE (Current is typically 25ma). See the PATTERN TABLE on the next page for a complete list of functions.

Note: VIOLET, YELLOW, GREEN and BLUE are all Low Current circuits and can be wired with a minimum of 22AWG wire.

WIRING/CONNECTION DIAGRAMS

DIAGRAM (1): ON/OFF and Low Power using two toggle switches. Flash pattern is: Quad Flash All Heads.

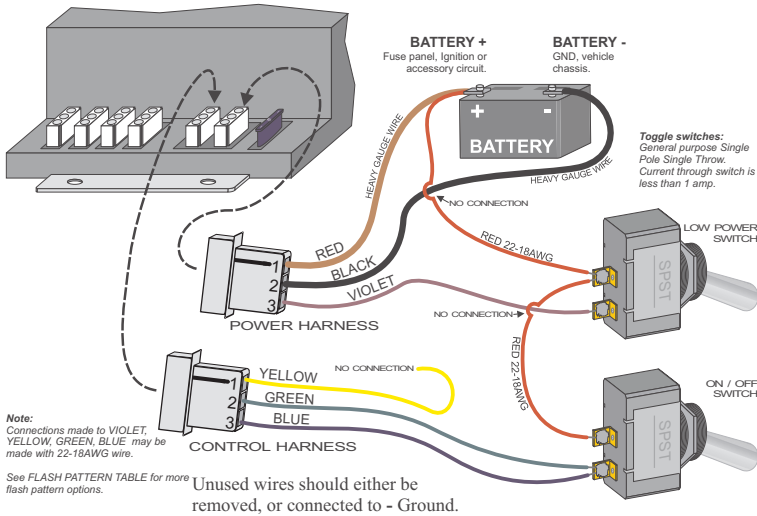


DIAGRAM (2): ON/OFF and Low Power using one DPDT rocker switch. Flash pattern is: Quad Flash All Heads.

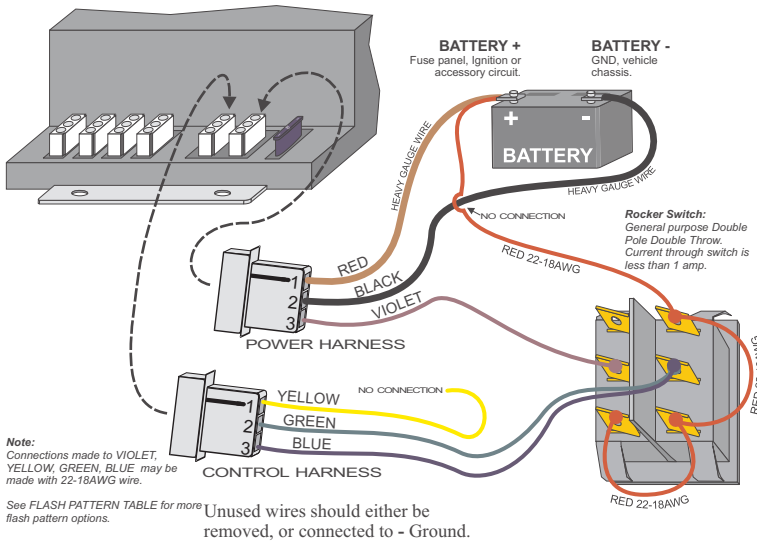
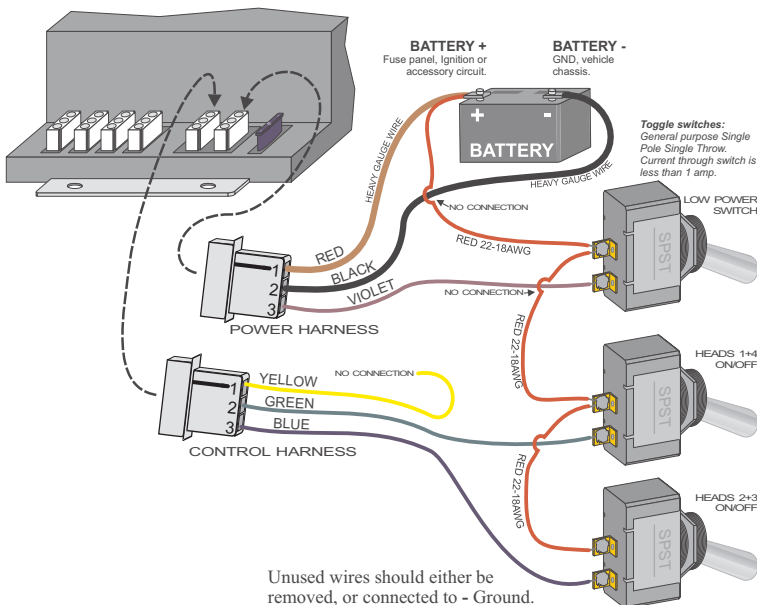


DIAGRAM (3): Selective switching of strobe head pairs. Low Power selection. Flash pattern is: Quad Flash All Heads.



PATTERN TABLE

Selecting a flash pattern: In the table below, find the desired flash pattern. Connect the wires marked **POWER** to the 'load' side of the ON/OFF switch. Remove the remaining wires, or connect them to - Ground.

Example: Diagram 1 uses pattern #4 (Quad Flash, All Heads). To change this to pattern #6 (Mega flash, All Heads) connect the YELLOW and BLUE wires to the switch.

| PATTERN | YELLOW | GREEN | BLUE | FUNCTION |
|---------|--------|-------|-------|--|
| 1 | | | | SHUTDOWN |
| 2 | | | POWER | Quad Flash, Head 2 ALT 3 |
| 3 | | POWER | | Quad Flash, Head 1 ALT 4 |
| 4 | | POWER | POWER | Quad Flash, Head 1&3 ALT 2&4 |
| 5 | POWER | | | Mega Flash, Head 2 ALT 3 |
| 6 | POWER | | POWER | Mega Flash, Head 1&3 ALT 2&4 |
| 7 | POWER | POWER | | Mega Flash, Head 1 ALT 4 |
| 8 | POWER | POWER | POWER | When in High Power: Quintuple Flash, Head 1&3 ALT 2&4 When in Low Power: Double Flash, Head 1&3 ALT 2&4 |

ALT = "Alternates With"

TROUBLESHOOTING

Blown Fuse: The X-PAK 904 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 X-PAK 904 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 X-PAK 904. Test **one** cable/head at a time until the problem is found.

ACCESSORIES

The following accessories are available to make the installation of the X-PAK 904 power supply even easier:

ON/OFF - LOW POWER SWITCH PANEL

A Fully assembled switch panel which provides simple On/Off and Low power control. Provides the same functions as shown in Diagram (1)

SELECTIVE SWITCHING PANEL

A Fully assembled switch panel which allows selective switching of strobe head pairs and also includes Low power control. Provides the same functions as shown in Diagram (3)

ROTARY SWITCH PANEL

A fully assembled switch panel which provides full selection of all flash patterns as well as On/Off and Low Power control.

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