

# BUS-8PS

## SCHOOL BUS STROBE WARNING SYSTEM POWER SUPPLY



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



### PARTS INCLUDED

- (1) BUS-8PS
- (2) Wiring harnesses: ORANGE - BLACK - YELLOW  
ORANGE - BLACK - RED
- (1) Installation Sheet

### TECHNICAL SPECIFICATIONS

INPUT VOLTAGE .....	10 to 16 Volts DC
INPUT CURRENT .....	12.5A at 12.8V
INPUT POWER .....	160 Watts
OUTPUT POWER .....	135 Watts
FLASH RATE Quad Flash: .....	120 flashes per minute.

### INSTALLING THE BUS-8PS

#### 1. Mounting power supply

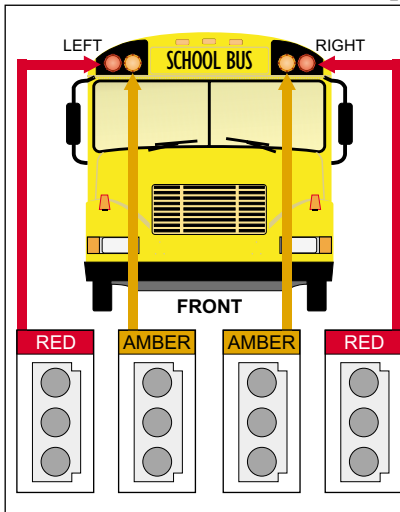
Mount the power supply in a clean, dry location. See the **BUS-8SYS SYSTEM LAYOUT** diagram for mounting locations. Mounting the unit to a flat metal surface will aid in heat dissipation. Use the power supply as a template to mark the hole locations. The mounting holes will accept up to a 1/4" bolt.

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

#### 2. Connect Strobe Heads

The power supply label indicates the proper outlets for each strobe head.

**The strobe heads must be installed exactly as shown for the MONITOR PANEL to display the correct information.**



#### For Reference:

When you are facing the **FRONT** of the bus, the **LEFT** heads are on your left, and the **RIGHT** heads are on your right.

When you are facing the **REAR** of the bus, the **LEFT** heads are on your left, and the **RIGHT** heads are on your right.

### INSTALLING THE BUS-8PS

#### 3. Electrical Hookup

Wire both **ORANGE** wires on the included wiring harnesses to battery positive (+). Wire both **BLACK** wires to chassis GND. The minimum recommended wire size is 16AWG. For wire runs longer than 20 feet use 14AWG wire.

*Note: When the system is not activated, the power supply is in a low current 'standby' mode and will not drain the battery. Current draw is less than 25ma.*

The **RED** and **YELLOW** wires activate the strobe heads. The BUS-8PS power supply was designed to be connected to a school bus which has a **RELAY LOGIC SYSTEM** installed. Please refer to the wiring diagrams of the **RELAY LOGIC SYSTEM** to locate the circuits which power the **RED** and **AMBER** lamps.

For reference, The BUS-8PS operates as follows:

Connecting the **YELLOW** wire to +12V will flash all the **AMBER** strobe heads. The **AMBER** strobe heads will flash until the wire is disconnected, or the **RED** wire is activated.

Connecting the **RED** wire to +12V will shutdown all the **AMBER** strobe heads (if amber heads were activated) and activate all the **RED** strobe heads. The **RED** strobe heads will flash until the wire is disconnected.

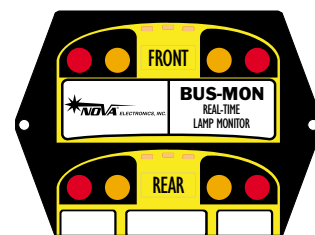
*Note: If both **YELLOW** and **RED** wires are connected to +12V, only the **RED** strobe heads will be activated. The **RED** wire overrides the **YELLOW**, and only 4 strobe heads can be activated at a time.*

#### 4. Monitor Panel Hookup and Operation

Mount the monitor panel where it can easily be seen by the driver. The panel can be mounted with #8 screws.

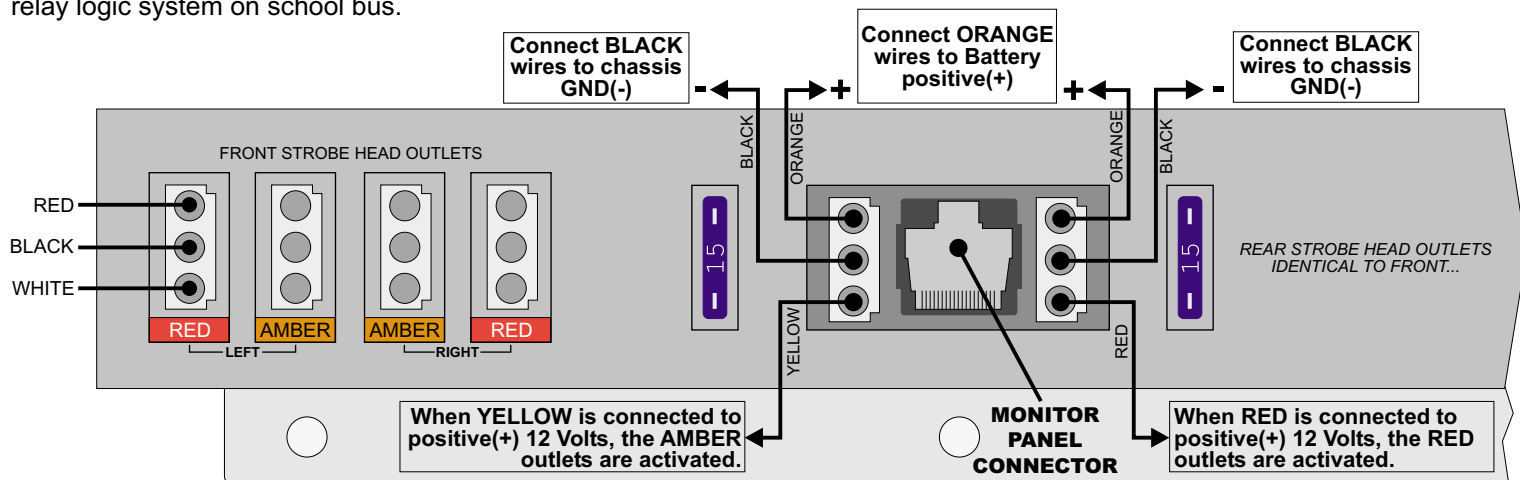
Plug the cable (BUS-CBLM) into the back of the panel. Plug the other end of the cable into the connector on the BUS-8PS.

The monitor panel shows the exact output of the power supply. If a strobe head is not working, the corresponding indicator on the monitor panel will not light.



## WIRING DIAGRAM FOR BUS-8PS

Connect YELLOW and RED wires to relay logic system on school bus.



### TROUBLESHOOTING

**Blown Fuse:** The BUS-8PS 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 BUS-8PS 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 BUS-8PS. Test **one** cable/head at a time until the problem is found.

### ORDERING INFORMATION

PART NUMBER	DESCRIPTION
BUS-8PS	135Watt, 8 Head power supply. <i>Requires relay system on bus.</i>
BUS-8PS-IL	135W, 8 Head Power supply with Internal Logic. <i>No relay system required on bus.</i>
BUS-CBLPWR	Two piece power supply wiring harness.
BUS-8HARN	Strobe head extension cable set - 4(15'), 4(45')
BUS-AMBER	Amber strobe head for school bus.
BUS-RED	Red strobe head for school bus.
BUS-MON	System monitor panel and cable.
BUS-CBLM	Monitor panel replacement cable.
BUS-CBL15	15 Foot strobe head extension cable.
BUS-CBL45	45 Foot strobe head extension cable.
BUS-ALENS	Amber replacement lens for BUS-AMBER strobe head.
BUS-RENS	Red replacement lens for BUS-RED strobe head.
BUS-TUBE	Clear twist lock replacement tube for BUS-AMBER/RED strobe head.
BUS-TGSKT	Twist lock tube gasket replacement.
BUS-LR	Replacement BUS-AMBER/RED strobe head reflector.
BUS-LSCRW	Replacement lens screw for BUS-AMBER/RED strobe head.