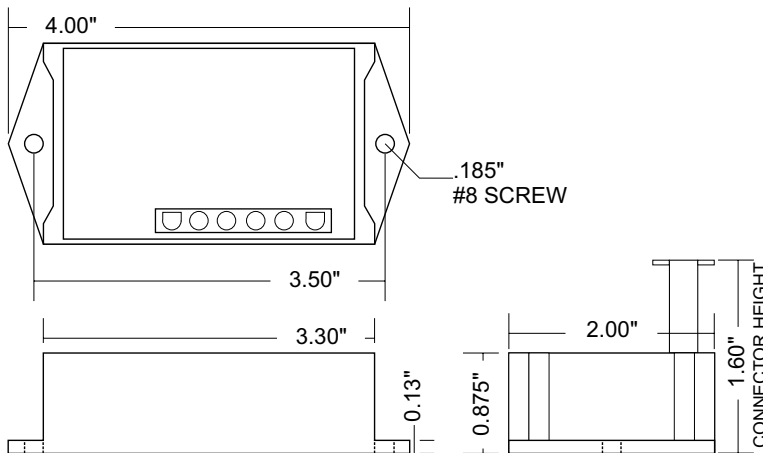


# UNIVERSAL FLASHER

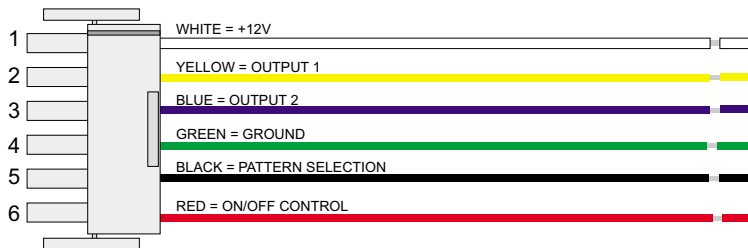
## TECHNICAL SPECIFICATIONS

VOLTAGE RATING..... 12 Volts DC.  
 AMPERAGE RATING ..... 10 Amps per output.  
 Each output can drive up to a maximum of two 55 Watt Heads.  
 FLASH PATTERNS..... 7  
 FLASH RATES..... 1.9, 2.4, 3.0, 3.6, & 4.0 FPS  
 DUTY CYCLE ..... 50%  
 WARRANTY ..... 2 Years Factory Direct.

## DIMENSIONS



## WIRING HARNESS



## INTRODUCTION

The UNIVERSAL FLASHER is designed to flash after-market incandescent or halogen lamps only.

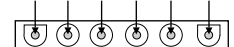
**The UNIVERSAL FLASHER was not intended to flash any of the factory installed lamps or bulbs on a vehicle. Modern automobiles use indicator lamp wiring to carry control signals to other critical systems such as the transmission. Flashers which directly control the vehicle's existing lamps can interfere with these signals and cause severe problems.**

**We do not recommend altering the factory vehicle wiring!**

If the application requires the flashing of head-lights or brake-lights, halogen lamp kits are available to retrofit into the existing lenses.

## INSTALLING THE FLASHER

- Mounting:**  
 The UNIVERSAL FLASHER is completely weatherproof and can be safely mounted in the engine compartment. The UNIVERSAL FLASHER can be mounted to any flat surface with two #6 or #8 screws.
- Electrical Connections:**  
 Note: We recommend using a corrosion preventative compound on the connector pins of the UNIVERSAL FLASHER. Use **only** compounds specifically designed for electrical contacts and switches, such as Truck-lite® NYK Corrosion Preventive Compound.



Connect the supplied 6 wire harness as follows:

**WHITE:** Connect through a 25 AMP fuse to Battery (+). The following chart shows the size of wire to use:

Distance From Battery:	Recommended Wire Size:
1 to 10 Feet	16 AWG
10 to 15 Feet	14 AWG
15 to 25 Feet	12 AWG
25 to 40 Feet	10 AWG

**GREEN:** Connect to chassis GND or Battery (-).

**BLUE, YELLOW:** Connect to remote heads. Connect other wire of remote heads directly to chassis GND.

The following chart shows the size of wire to use:

Distance From Flasher:	Recommended Wire Size:
1 to 10 Feet	16 AWG
10 to 15 Feet	14 AWG
15 to 25 Feet	12 AWG
25 to 40 Feet	10 AWG

**RED:** On/Off Control. Flasher is ON when connected to +12 Volts, OFF when disconnected. This is a low current connection and can be run with as low as 22AWG wire.

- Test the System:**  
 When all of the above connections are made, plug the wiring harness into the UNIVERSAL FLASHER and turn the ON/OFF switch to ON. The flasher will start in flash pattern #1 (1.9FPS Alternating).

If you wish to change the **FLASH PATTERN**, turn the flasher ON and simply touch the **BLACK** wire to +12V momentarily. The flash pattern will change to the next number in the FLASH PATTERN TABLE (next page). Each time you touch the **BLACK** wire to +12V, the flash pattern will increment. If you go past Pattern #7 it will cycle back around to Pattern #1. *Continued on next page...*

## CHANGING FLASH PATTERN

...Continued from previous page.

The UNIVERSAL FLASHER remembers the flash pattern which you select. The next time you turn the flasher on, it will start that flash pattern automatically. The flasher will store this selection even if it is disconnected from the vehicle, or the vehicle loses power.

When you have selected the flash pattern that you wish to use, simply wrap the end of the **BLACK** wire with

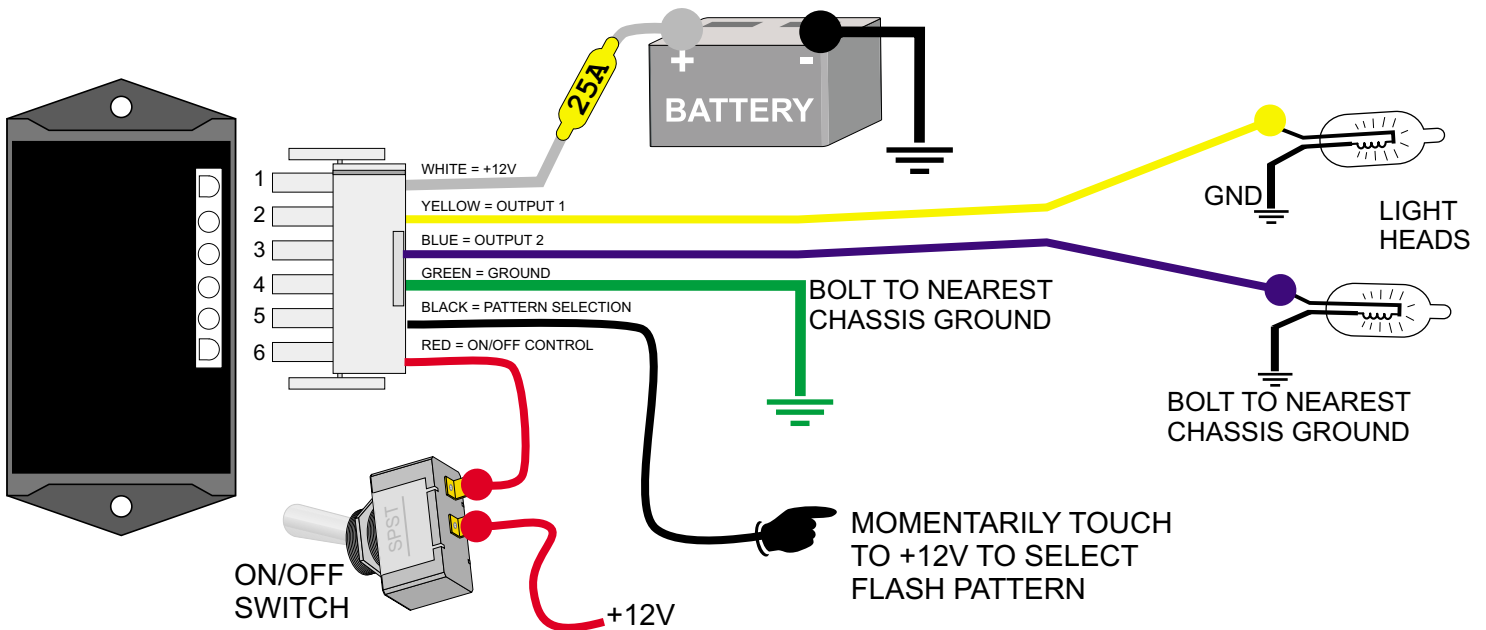
electrical tape. You can change the flash pattern again at any time by using the **BLACK** wire as described. You can select flash patterns as many times as you wish.

Optionally, you may extend the **BLACK** wire to the passenger compartment and connect it to a momentary pushbutton switch. Connect the other terminal of the switch to +12V. The flash pattern will increment each time the button is pressed.

### Universal Flasher Flash Patterns

Number:	Pattern:	Flash Rate	Equivalent to:		
			Nova	Sound Off Inc.	Galls
1	Alternating 'Wig-Wag'	1.9 Flashes Per Second	FLASH-1	Road Runner	Traffic Runner
2	Alternating 'Wig-Wag'	2.4 Flashes Per Second	none	FlashBack	Traffic Backer
3	Alternating 'Wig-Wag'	3.0 Flashes Per Second	FLASH-3	Power Pulse	Traffic Flasher
4	Alternating 'Wig-Wag'	3.6 Flashes Per Second	none	ETM	none
5	Triple Flash	4.0 Flashes Per Second	FLASH-2	none	none
6	Cycle Flash	1.9FPS first half, 3.6 FPS second half	none	Q-Switch	Multi-Pattern Flasher
7	Twin Blast	1.9 Flashes Per Second	none	none	none

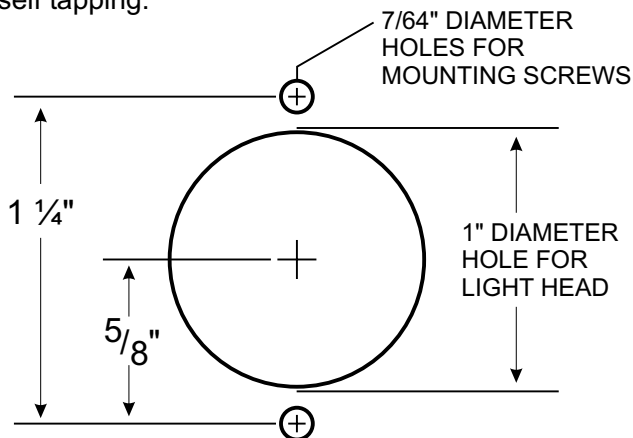
## WIRING DIAGRAM



## HIDE-HALO-INSTALLATION

### If you purchased the SYS-UF-HIDE-HALO Kit:

Drill a 1 inch diameter hole in the back of the lens housing. Position the hole so that the HIDE-HALO bulb is at or near the center of the lens reflector. Drilling the 7/64" pilot holes is optional since the screws are self tapping.



Install the HIDE-HALO with the gasket and screws provided. Plug in the CBL-HAL6, connect the BLACK wire to Ground, Connect the RED wire to one of the Flasher output wires with the end splice provided.

