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Congratulations! You are now the proud owner of the most technically advanced true 100% Solid State Selectable Pattern Headlight Flasher System in the market today. Add to it our never ending commitment to quality, when properly installed this new Flasher System will provide you with years of dependable trouble free service.

Specifications:

Input Voltage: 8-30Vdc
 Output Current: 9.5 Amps / Output
 Standby Current: < 10mA
 Number of Flash Patterns: 7

Note:

When used in dark conditions, the low beam headlights need to be ON for proper illuminations, while the high beam headlights will flash to gain attention and increase the vehicle's visibility.

When the high beam switch is activated, the Flasher system's High Beam Over-Ride (HBOR) is activated and will interrupt the flashing sequence to allow normal high beam function. The HBOR function is automatically disabled when the high beam switch is de-activated allowing the headlight flasher to resume operation.

Note:

Flashing Headlights and Taillight Systems are intended for approved vehicles only. The user of this system is responsible to ensure compliance to any Federal, State or Municipal regulations, which may apply.

Mounting:

The enclosed headlight flasher has been designed to be water resistant. However, to ensure years of trouble free operation of the flasher system, it should be mounted in a location that is protected from direct water spray and high temperatures.

Electrical Installation:

1. Locate the 3 pin connector in front of the radiator under the cross brace.
2. Remove the loop connector and store for future use if flasher is ever removed from vehicle.
3. Carefully route the 2 wire harness (YELLOW and BLUE Wires) with the connector to the vehicle's mating connector making sure the harness will not interfere with the moving vehicle components and will not get damaged in field operation. Connect flasher with mating vehicle connector.
4. Connect the GREEN wire to a reliable ground, preferably close to ground post of battery.
5. Connect the WHITE wire to a +8-30Vdc power source capable of providing 12Amps.

WARNING:
**DO NOT USE A CIRCUIT BREAKER,
 FUSIBLE LINK, OR SLOW BLOW TYPE
 FUSE.**

6. Connect the RED wire to a powered switch through a user supplied 1 amp fuse.
7. (Optional) If an "Automatic Night time Flasher Disable" is required (check with state and municipal regulations) simply "T" or tap this wire into the parking/marker light wire. This feature will disable the flasher whenever the parking/marker lights are turned ON.

Flash Pattern Selection:

To change the flash pattern, momentarily touch Red/Black wire to ground. The pattern will change each time Red/Black wire is touched to ground.

Flash Pattern Sequence:

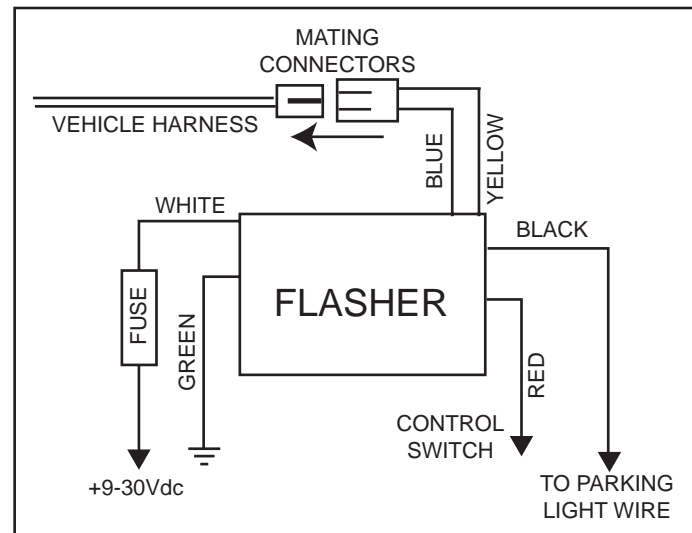
- | | |
|-----------------|-------------------|
| 1. Road Runner | 115 cycles/minute |
| 2. Power Pulse | 180 cycles/minute |
| 3. ETM | 215 cycles/minute |
| 4. Double Flash | 50 cycles/minute |
| 5. Q-Switch | Multi-Pattern |
| 6. Cycle Flash | Multi-Pattern |
| 7. Single Flash | H56 cycles/minute |

Once the pattern is selected, the flasher will retain the selected flash pattern.

PLUG-IN SOLID STATE HEADLIGHT FLASHER WITH SELECT-A-PATTERN TECHNOLOGY

INSTALLATION INSTRUCTIONS

ETHFSS-CV



Troubleshooting:

- No Operation:** Verify fuse is not open. Verify voltage of 8-30Vdc is present on RED wire and Flash Enable wire.
- Interference - with Radio Equipment:** Verify power and ground wires are not connected to same circuit as radio equipment. Connect ground wire as close to ground terminal of battery as practical.
- Flasher Stops Functioning when marker lights are turned ON:** NTCO (Night Time Cut Off) wire is connected to parking/marker lights. If flashing of headlights is allowed at night, remove NTCO wire from marker light wiring.
- Headlights turn ON for a short time then OFF for a couple of seconds and repeats:** Over-Current shutdown of the flasher has detected too much load on the flasher. Verify a maximum of 2-55 Watt lamps are connected to each output.

Final System Check:

1. Verify Headlight Flasher properly flashes headlights when Flash Enable switch is turned ON.
2. With Flash Enable switch ON, turn high beam switch ON and verify both high beam lights turn on steady.
3. If NTCO is required: With Flash Enable switch ON, turn parking/marker lights ON and verify flasher does not function.

Warranty:

SoundOff Signal warranties the Solid State Headlight Flasher (ETHFSS-CV) for Five (5) years from the date of purchase to the original purchaser against any manufacturer defects or workmanship. This warranty applies only to the units installed according to the manufacturer's installation instructions and operated within the units specifications. SoundOff Signal's obligation under this warranty is limited to repairing or exchanging the unit. Exchanging units under this warranty is as follows: 100% of purchase price for the first two years, 75% of the purchase price for the 3rd year, 50% of the purchase price for the 4th year, and 25% of the purchase price for the 5th year. Warranty is void if unit was installed maliciously damaged. All warranty claims must be accompanied by dated proof of purchase. SoundOff Signal retains the right to be the sole mediator of what constitutes defects in performance or manufacturing.