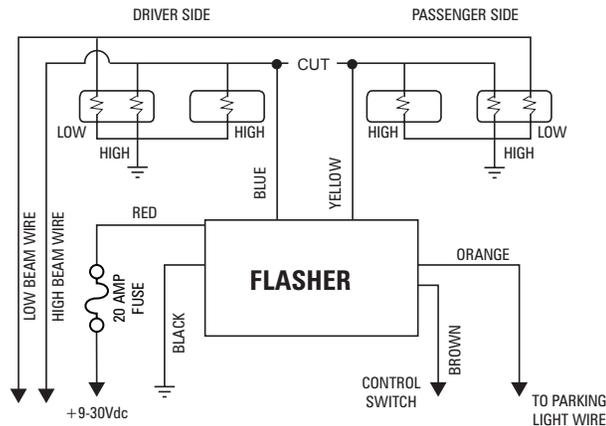
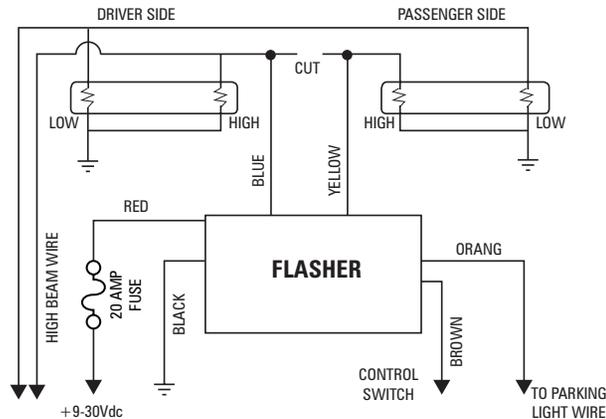


SOLID STATE HEADLIGHT FLASHER WITH SELECT-A-PATTERN TECHNOLOGY AND WEATHER SEAL CONNECTOR

ETHFSS-SPWS



4 LAMP INSTALLATION



2 LAMP INSTALLATION

Please see reverse for Technical Specifications



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.

The Flasher System will operate a 2 or 4 headlight system on any vehicle with a +8-30Vdc negative ground system.

When used at night, the low beam headlights remain ON for proper illumination while the high beams flash to gain attention and increase the vehicle's visibility. When the dimmer switch is activated to high beam, the flasher system's "High beam over-ride" interrupts the flasher sequence to allow normal high beam function. Flashing automatically resumes when the dimmer switch is de-activated.

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.

WARNING:

This Flasher will not work on any "ground side switched" system. If you have any questions regarding what type of system your vehicle has, check our Technical Service page on our web site (www.soundoffsignal.com) or contact SoundOff Signal's Technical Service Department at 1-800-338-7337.

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.

BLACK WIRE:

Connect to reliable ground, preferably close to ground post of battery

BLUE and YELLOW WIRES:

Locate the wire that supplies power to either the passenger side or driver side high beam headlight. Cut this wire approximately 10-12" from the headlight. Connect the yellow wire to the lead that returns to the headlight. Connect the blue wire to the other piece of the cut wire which will provide power to the opposite highbeam headlight.

RED WIRE:

Connect to a +8-30 Vdc power source capable of providing 15 Amps.

WARNING:

DO NOT USE A CIRCUIT BREAKER, FUSIBLE LINK, OR SLOW BLOW TYPE FUSE

BROWN WIRE:

Connect to a powered switch through a user supplied 1 amp fuse.

ORANGE WIRE (OPTIONAL Connection):

If an "Automatic Nighttime Flasher disable" is required (check with state and municipal regulations) simply 'T' tap this wire into the parking / marker light wire. This feature will disable the flasher whenever the parking / marker lights are turned ON.

To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product please visit our website at www.soundoffsignal.com and select the "Warranty & Returns" link along the left column of our home page. If you have questions regarding this product please contact Technical Services, Monday - Friday, 8 am to 5 pm at 1.800.338.7337, press #4 to skip the automated message. Questions or comments that do not require immediate attention may be emailed to techsupport@soundoffsignal.com.

1.800.338.7337. / www.soundoffsignal.com / Thank you for trusting us with your safety!

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

Flash Patterns	
Flash Pattern Sequence	F.P.M. (Flashes per Minute)
1. RoadRunner™	115 f.p.m.
2. PowerPulse™	180 f.p.m.
3. ETM™	215 f.p.m.
4. Double Flash	50 f.p.m.
5. Q-Switch™	Multi-Pattern
6. Cycle Flash	Multi-Pattern
7. Single Flash	56 f.p.m.

Final System Check:

1. Verify Headlight Flasher properly flashes headlights when 8-30Vdc is applied to BROWN wire.
2. With Flash ON, turn High beam switch ON and verify both high beam headlights turn ON steady.
3. If NTCO is required: With Flash ON, turn parking / marker lights ON and verify Flasher does not function.

Troubleshooting:

Symptom:

No Operation

Interference with Radio equipment

Flasher stops functioning when marker lights are turned ON

Headlights turn ON for short time then OFF for a couple of seconds and repeats

Solution:

Verify fuse is not open. Verify voltage of 8-30Vdc is present on RED wire and BROWN wire.

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.

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.

Over-current shutdown of the flasher has detected too much load on the flasher. Verify a maximum of 2-55Watt lamps are connected to each output.

Flash Pattern Selection:

To change the pattern, apply +8-30Vdc to the flasher BROWN wire and momentarily short the 2 pin jumper as shown below. The pattern will change each time the jumper is shorted.

