

SINGLE EXTERIOR LED3 WARNING LIGHT ASSEMBLY INSTRUCTIONS EL3SN(x)



⚠ WARNING

This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into light beam at close range.

WARNING: Warning devices are strictly regulated and governed by Federal, State and Municipal ordinances. These devices shall be used ONLY on approved vehicles. It is the sole responsibility of the user of these devices to ensure compliance.

TECHNICAL SPECIFICATIONS

Overall Dimensions:	2.5"W x 1.375"H x 1.25"D
Flash Patterns:	33
Input Voltage:	10-16Vdc
Current Consumption:	0.5 Amps
Light Sync Technology:	Yes
Operating Temperature:	-40° to +65° C

MOUNTING

Important: DO NOT over tighten mounting screws or nuts. This could cause permanent damage to the light.

1. Locate flat mounting location for the LED3 Light.
2. When the position of LED3 is determined use paper template on next page to drill hole locations. Screw mounting holes should be drilled using a 3/32" drill bit. Wire entry holes should be drilled using a 1/4" drill bit.
3. Make electrical connections.
4. Using supplied #6 x 3/4" screws, fasten LED3 to mounting surface. Be sure not to over tighten screws as this will cause hole in mounting surface to strip out. Be sure that supplied gasket is mounted between mounting surface and LED3.

NOTE: The LED3 is a factory sealed unit that CANNOT be serviced in the field. Any attempt to gain access to the LED3 unit will most likely cause permanent damage and void its warranty.

IMPORTANT: DO NOT connect this device to a strobe power supply.

OPERATING INSTRUCTIONS

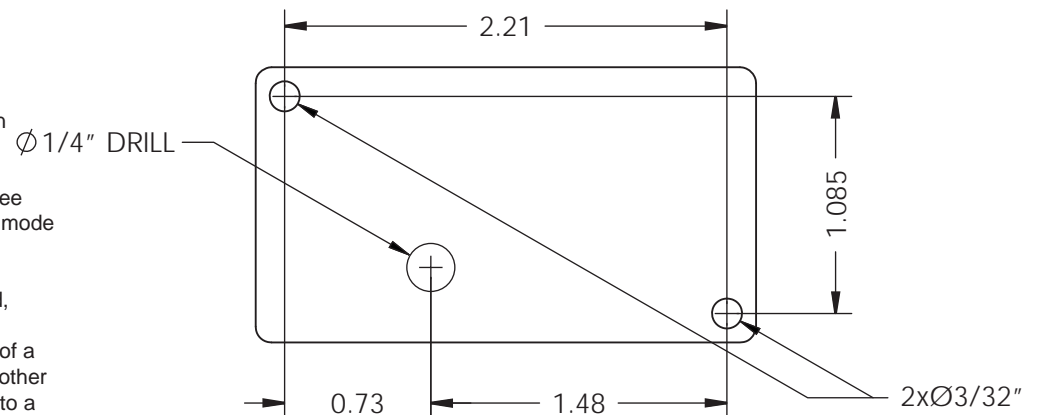
See Configuration Instructions.

The single LED3 comes equipped with an internal flasher with 33 user selectable patterns that can be synchronized either alternating or simultaneous with up to three other lights. It can also be put into slave mode and driven through an external flasher.

1. Connect the LED3 BLACK wire to a good, convenient ground.
2. Connect the LED3 RED wire to one side of a user supplied on/off switch. Connect the other side of the switch, through a 5Amp fuse, to a source of +10-16Vdc.



Drill Template for Mounting Holes/Cord Entry
Template Shown Actual Size





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LED3 Sync Configuration Instructions IMPORTANT! A MAXIMUM OF 4 SINGLE LIGHTS CAN BE SYNCED TOGETHER

1. Set ID#
 - a. Identify which pattern and sequence you want and look up ID# settings below.
 - b. Connections
 - i. RED: +12Vdc
 - ii. WHT: +12Vdc (Note: you will need to disconnect after power is applied)
 - iii. BLK: Ground
 - c. Apply power to unit
 - d. Without disconnecting power from unit, disconnect WHT wire
 - e. Momentarily connect WHT to Ground to change ID #
 - i. Identify ID# by number of sequential flashes
 - ii. Possible ID#s: 1 – 4
 - f. Disconnect power from unit to get out of ID mode.
2. Set Pattern
 - a. Reapply power to units.
 - b. Once all Light Head ID#s are configured, make sure all lights are flashing the same pattern
 - c. Connect corresponding colored wires of all units together: RED to RED, etc.
 - d. Change Pattern
 - i. Momentarily connect WHT wires to Ground
 - ii. Observe pattern change on all lights connected
 - e. Insulate all wires by taping with electrical tape
3. Connect Master Switch for Application
 - a. **IMPORTANT!** Ensure WHT Pattern/Sync Wires are tied together

1 LIGHT

Single Light Operation: Follow the ID Selection steps and set the LED3 to ID#1 if it is not already. NOTE: Steady Burn is produced for patterns 9 & 10 in Single Operation.

2 LIGHTS

ALTERNATING: To obtain Alternating patterns, follow the ID SELECTION steps and set one LED3 to ID#1 and the other to ID#3. Then proceed to the PATTERN SELECTION steps.

SIMULTANEOUS: To obtain Simultaneous patterns, follow the ID SELECTION steps and set both LED3 lights to ID#1. Then proceed to PATTERN SELECTION steps.

4 LIGHTS

X-Pattern: To obtain X-patterns, follow the ID SELECTION steps and set one of the four LED3 lights to ID#1, one to ID#2, one to ID#3, and one to ID#4. Then proceed to PATTERN SELECTION steps. NOTE: Be sure to mount each LED3 in the correct placement based on ID#.

PATTERN SELECTION

1. Disconnect WHITE wire from any connections if applicable.
2. Turn LED3 ON.
3. Momentarily touching and removing the WHITE wire(s) to ground will advance the LED3 to the next flash pattern. Touching and removing the White wire for more than a few seconds will allow you to change the LED3 to the previous pattern. See flash pattern table. Continuing to touch and remove the WHITE wire(s) to ground will allow you to scroll through the pattern list. After pattern #33 is reached the list will start over again at pattern #1.

NOTE: The LED3 is equipped with flash pattern memory. Once you have selected a pattern the LED3 will always activate to that pattern every time the unit is turned on. Tape up and secure WHITE wire so that it will not accidentally change your selected pattern.

PATTERN RESET

1. Remove power.
2. Place WHITE (sync) wire to ground.
3. With sync wire grounded, re-power RED wire.
4. Maintain for one second (light will dim).
5. Remove power and ground (pattern 1 set).

X-Pattern Sequence

ID#1 > ID#4 > ID#2 > ID#3

X-Pattern Light Head Placement

ID#4	ID#2
ID#3	ID#1

SLAVE MODE

The LED3 is capable of being activated through the use of a user supplied flasher by putting it in slave mode.

1. Permanently connect the LED3 WHITE and BLACK wire to a good, convenient ground.
2. Connect the LED3 RED wire, through a 5Amp fuse, to the output of a +10-16Vdc switching flasher.

NOTE: The LED3 is a factory sealed unit that CANNOT be serviced in the field. Any attempt to gain access to the LED3 unit will most likely cause permanent damage and void its warranty.

FLASH PATTERNS for SINGLE HEAD EXTERIOR LED3 (EL3SN(x))

#	Pattern Name	1 Light	Alternating 2 Lights	Simultaneous 2 Lights	X-Pattern 4 Lights	Flashes/ Minute
1	Quint	X	X	X		70
2	Warp	X	X	X		350
3	Inter-Cycle Flash	X	X			
4	Double Flash	X	X	X		70
5	Quad Flash	X	X	X		80
6	Power Pulse	X	X	X		180
7	Road Runner	X	X	X		113
8	Q-Switch	X	X			
9	Road Runner Steady Burn	X	X			113
10	Quad Steady Burn	X	X			80
11	E-Ideal Single Flash	X	X	X		200
12	E-Ideal Double Flash	X	X	X		146
13	Quad2 Flash	X	X	X		67
14	Double2 Flash	X	X	X		95
15	X-Warp				X	
16	X-Double				X	
17	PowerRunner	X	X	X		
18	LCR Quint	X	X	X		
19	Warp ³	X	X	X		
20	Ultra Warp	X	X	X		545
21	Thunder and Lightning	X	X			
22	LiteSpeed	X	X	X		85
23	SuperSonic	X	X	X		170
24	LCR LiteSpeed	X	X	X		
25	SuperSonic Ultra	X	X	X		
26	TempoShift	X	X	X		
27	TempoShift Warp	X	X	X		
28	SBE2	X	X	X		67
29	C ²	X	X	X		200
30	U ²	X	X	X		176
31	UltraGlow	X	X	X		
32	Cyclone	X	X	X		
33	Chameleon	X	X	X		

SINGLE EXTERIOR LED3 WARNING LIGHT ASSEMBLY INSTRUCTIONS EL3SN30(x)

LED3

MINI LIGHT

by SoundOff Signal



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TECHNICAL SPECIFICATIONS

Overall Dimensions:	2.5"W x 1.375"H x 1.25"D
Flash Patterns:	33
Input Voltage:	10-30Vdc
Current Consumption:	0.5 Amps*
Light Sync Technology:	Yes
Operating Temperature:	-40° to +65° C

*Pattern Dependent

MOUNTING

Important: DO NOT over tighten mounting screws or nuts. This could cause permanent damage to the light.

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3. Make electrical connections.
4. Using supplied #6 x 3/4" screws, fasten LED3 to mounting surface. Be sure not to overtighten screws as this will cause hole in mounting surface to strip out. Be sure that supplied gasket is mounted between mounting surface and LED3.

NOTE: The LED3 is a factory sealed unit that CANNOT be serviced in the field. Any attempt to gain access to the LED3 unit will most likely cause permanent damage and void its warranty.

IMPORTANT: DO NOT connect this device to a strobe power supply.

OPERATING INSTRUCTIONS

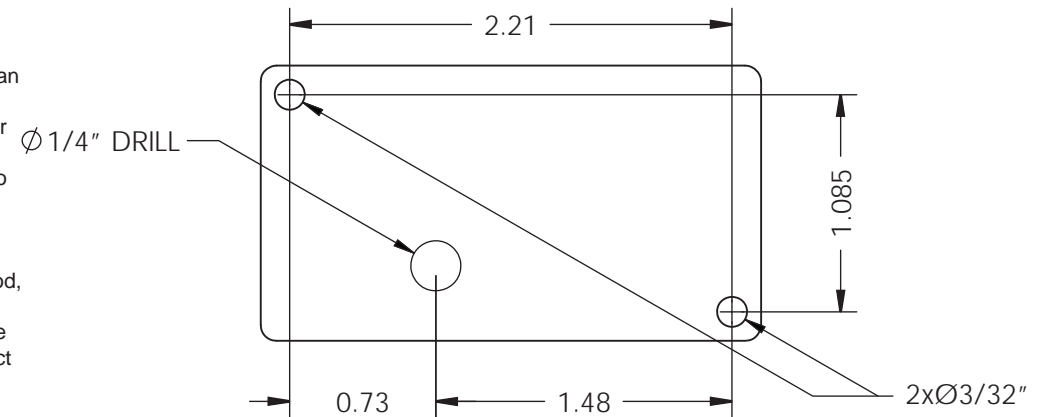
See Configuration Instructions.

The single LED3 comes equipped with an internal flasher with 33 user selectable patterns that can be synchronized either alternating or simultaneous with up to three other lights. It can also be put into slave mode and driven through an external flasher.

1. Connect the LED3 BLACK wire to a good, convenient ground.
2. Connect the LED3 RED wire to one side of a user supplied on/off switch. Connect the other side of the switch, through a 5Amp fuse, to a source of +10-30Vdc.



Drill Template for Mounting Holes/Cord Entry
Template Shown Actual Size





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LED3 Sync Configuration Instructions IMPORTANT! A MAXIMUM OF 4 SINGLE LIGHTS CAN BE SYNCED TOGETHER

- Set ID#
 - Identify which pattern and sequence you want and look up ID# settings below.
 - Connections
 - RED: +10-30Vdc
 - WHT: +10-30Vdc (Note: you will need to disconnect after power is applied)
 - BLK: Ground
 - Apply power to unit
 - Without disconnecting power from unit, disconnect WHT wire
 - Momentarily connect WHT to Ground to change ID #
 - Identify ID# by number of sequential flashes
 - Possible ID#s: 1 – 4
 - Disconnect power from unit to get out of ID mode.
- Set Pattern
 - Reapply power to units.
 - Once all Light Head ID#s are configured, make sure all lights are flashing the same pattern
 - Connect corresponding colored wires of all units together: RED to RED, etc.
 - Change Pattern
 - Momentarily connect WHT wires to Ground
 - Observe pattern change on all lights connected
 - Insulate all wires by taping with electrical tape
- Connect Master Switch for Application
 - IMPORTANT!** Ensure WHT Pattern/Sync Wires are tied together

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4 LIGHTS

X-Pattern: To obtain X-patterns, follow the ID SELECTION steps and set one of the four LED3 lights to ID#1, one to ID#2, one to ID#3, and one to ID#4. Then proceed to PATTERN SELECTION steps. NOTE: Be sure to mount each LED3 in the correct placement based on ID#.

PATTERN SELECTION

- Disconnect WHITE wire from any connections if applicable.
- Turn LED3 ON.
- Momentarily touching and removing the WHITE wire(s) to ground will advance the LED3 to the next flash pattern. Touching and removing the White wire for more than a few seconds will allow you to change the LED3 to the previous pattern. See flash pattern table. Continuing to touch and remove the WHITE wire(s) to ground will allow you to scroll through the pattern list. After pattern #33 is reached the list will start over again at pattern #1.

NOTE: The LED3 is equipped with flash pattern memory. Once you have selected a pattern the LED3 will always activate to that pattern every time the unit is turned on. Tape up and secure WHITE wire so that it will not accidentally change your selected pattern.

PATTERN RESET

- Remove power.
- Place WHITE (sync) wire to ground.
- With sync wire grounded, re-power RED wire.
- Maintain for one second (light will dim).
- Remove power and ground (pattern 1 set).

X-Pattern Sequence

ID#1 > ID#4 > ID#2 > ID#3

X-Pattern Light Head Placement

ID#4	ID#2
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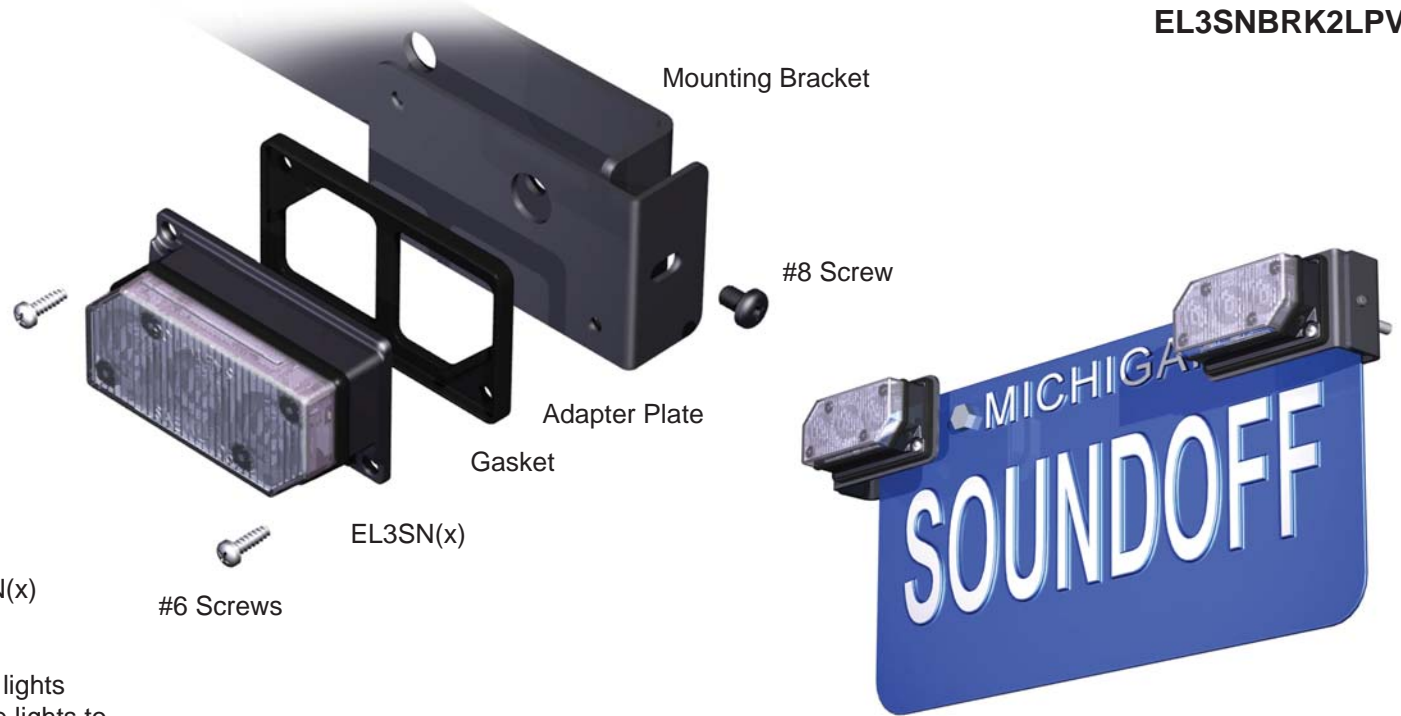
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12	E-Ideal Double Flash	X	X	X		146
13	Quad2 Flash	X	X	X		67
14	Double2 Flash	X	X	X		95
15	X-Warp				X	
16	X-Double				X	
17	PowerRunner	X	X	X		
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21	Thunder and Lightning	X	X			
22	LiteSpeed	X	X	X		85
23	SuperSonic	X	X	X		170
24	LCR LiteSpeed	X	X	X		
25	SuperSonic Ultra	X	X	X		
26	TempoShift	X	X	X		
27	TempoShift Warp	X	X	X		
28	SBE2	X	X	X		67
29	C ²	X	X	X		200
30	U ²	X	X	X		176
31	UltraGlow	X	X	X		
32	Cyclone	X	X	X		
33	Chameleon	X	X	X		



LED3 LICENSE PLATE BRACKET

EL3SNBRK2LPH

EL3SNBRK2LPV



Tools Needed for Installation:

Screw driver.

Drill with 1/2" bit.

The SoundOff Signal license plate brackets are designed to fit under the rear license plate and support two LED3 single warning lights - EL3SN(x) (not included).

The EL3SNBRK2LPH is designed to mount the lights horizontally and the EL3SNBRK2LPV allows the lights to be mounted vertically.

INSTALLATION INSTRUCTIONS

1. Remove license plate from vehicle.
2. Determine whether you want to mount the light inward (toward the license plate) or outward (away from the license plate).
Note: when mounting the light inward make sure that state or local ordinances are not violated regarding visibility of license tabs, etc.
3. Determine location where you want the power cable to exit the vehicle and drill 1/2" hole for wire routing.
4. Screw LED3 (EL3SN(x)) to adapter plate shown using supplied #6 thread forming screws.
5. Screw adapter plate (with mounted LED3) to base mounting bracket using supplied #8 screws.
6. Route wires through hole created in step 3.
7. Fasten bracket with license plate on top to vehicle using license plate screws removed in step 1. Extra holes are provided for heavy duty mounting.
8. Wire the lights according to LED3 installation instructions.

EL3SNBRK2LPH

Mounted inward



EL3SNBRK2LPH

Mounted outward



EL3SNBRK2LPV

Mounted inward



EL3SNBRK2LPV

Mounted outward

