

UNIVERSAL UNDERCOVER

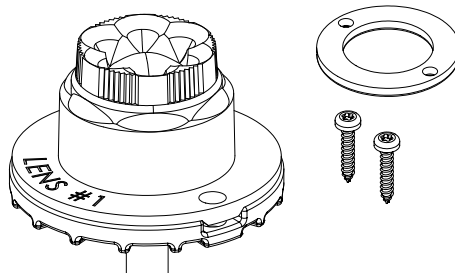
by SoundOff Signal

UNIVERSAL UNDERCOVER® LED INSERT

ELUC2SØ1Ø(x) - 10-16 Vdc, 10' CABLE
 ELUC2SØ25(x) - 10-16 Vdc, 25' CABLE
 ELUC2HØ1Ø(x) - 10-30 Vdc, 10' CABLE

KIT INCLUDES:

- 1 ea. - Assembled light head with Extreme Angle Lens #1, in-line flasher and desired cable length
- 1 - EPDM Mounting Gasket
- 2 - Mounting Screws



Please see reverse for Technical Specifications and Illustrations

⚠ WARNING

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

⚠ WARNING-HOT!

This product must be mounted with sufficient clearance from any plastic parts. Failure to do so may result in permanent damage to the housing.

Important Information:

- DO NOT cut the wires between in-line flasher and light head
- 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.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to your vehicle Owner's Manual for the location of any air bag deployment zones.
- DO NOT connect this device to a strobe power supply. This product is self-contained and does not require an external strobe power supply.

MOUNTING INSTRUCTIONS

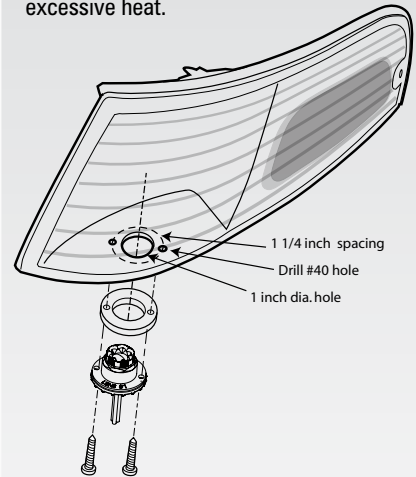
Up to 4 LED inserts can be synchronized for alternating or simultaneous flash patterns using the white (SYNC) wire. See back for SYNC Configuration instructions.

1. Remove the reflector assembly according to the vehicle manufacturer's instructions.
2. Establish a location for each UNDERCOVER light head with the following parameters:
 - a. Light head must have 1" clearance from plastic/lens surfaces.
 - b. Light head does not interfere with normal operation of lamp.
 - c. Choose a surface that is flat as possible for good sealing when light head is installed.
 - d. For greatest reflector fill and efficiency, place the light as close to the focal point of the reflector as possible.
3. When removing optic lenses, use small flat head screw driver to carefully pry lens off assembly. When replacing lens, do not touch LEDs or circuit board.
4. Using a 1" hole saw, drill a hole in reflector housing in the location selected in step 2.
5. Place UNDERCOVER insert into hole drilled in step 4. Using the light as a template, mark the two mounting hole locations.
6. Drill holes marked in step 6 with a #40 (0.098") drill bit.
7. Install UNDERCOVER LED Insert assembly using the gasket and #6 screws provided.

8. Complete wire connections and test light prior to remounting vehicle reflector assembly
9. Re-install reflector assembly according to vehicle manufacturer's instructions.

Recommended Installation Best Practices:

- Provide a 3-4" wire loop by the light for strain relief.
- Zip tie the wire to the vehicle to avoid strain and excessive movement on the light head and flasher module.
- When installing in a headlamp housing make sure to leave a minimum 0.75" clearance from a halogen type bulb due to the excessive heat.



WIRE HOOK-UP TABLE	
WIRE COLOR:	CONNECT TO:
RED	+Vdc
BLACK	Ground (-)
WHITE	Pattern Select/Sync
GREEN	Cruise Mode (+Vdc)

IMPORTANT INFORMATION:

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.

To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at www.soundoffsignal.com/support/tech-services/warranty-policy.

If you have questions regarding this product, contact Technical Services, Monday - Friday, 8 a.m. to 5 p.m. 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 techservices@soundoffsignal.com.



1.800.338.7337 / www.soundoffsignal.com

SUPERIOR CUSTOMER RELATIONSHIPS. SMARTLY DESIGNED LIGHTING & ELECTRONIC SOLUTIONS.



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).

SLAVE MODE

GHOST does not support Slave Mode.

1. Permanently connect the UNDERCOVER WHITE and BLACK wire to a good, convenient ground.
2. Connect the UNDERCOVER RED wire, through a 3Amp fuse, to the output of a +Vdc switching flasher.

Parts & Accessories:

- PLUC2LN1E - LENS #1, Extreme Angle
- PLUC2LN1V - LENS #2, Vertical Output
- PLUC2LN1H - LENS #3, Horizontal Output

TECHNICAL SPECIFICATIONS	
Overall Dimensions:	1.5" n x 0.9" H
Flash Patterns:	30 flash patterns
Input Voltage Range:	+Vdc
Current Consumption:	<1 Amp / module
# of LEDs:	6 Gen3 LEDs
Light Sync Technology:	Yes
Operating Temp.:	-40° to +65° C

*Flash Pattern Dependent



1.800.338.7337 / www.soundoffsignal.com

SINGLE LIGHT HEAD SET UP AND PATTERN SELECTION

1. Disconnect WHITE wire from any connections if applicable.
2. Turn UNDERCOVER ON by applying power to RED.
3. Momentarily touching and removing the WHITE wire to ground will advance the UNDERCOVER to the next flash pattern. Touching and removing the WHITE wire for more than a few seconds will allow you to change the UNDERCOVER to the previous pattern. See flash pattern table. Continuing to touch and remove the WHITE wire to ground will allow you to scroll through the pattern list. After pattern #30 is reached the list will start over again at pattern #1.

SINGLE COLOR AND DUAL COLOR CONFIGURATIONS

Follow the ID selection steps and set the UNDERCOVER to the following ID:

- ID #1 - Split Color
- ID #2 - Single Color
- ID #3 - Split Color
- ID #4 - Single Color

Single Color - Simultaneous Flash Patterns:
- Set light heads to same ID (#2 or #4).

Single Color - Alternating Flash Patterns:
- Set one light head to ID #2 and another to ID #4.

Split Color - Simultaneous Flash Patterns:
- Set light heads to the same ID (#1 or #3).

Split Color - Alternating Flash Patterns:
- Set one light head to ID #1 and another to ID #3.

MULTIPLE LIGHT HEAD SET UP AND PATTERN SELECTION

1. Set ID#
 - a. Connections
 - i. RED: +Vdc
 - ii. WHITE: +Vdc (Note: you will need to disconnect after power is applied)
 - iii. BLK: Ground
 - iv. GREEN: NO CONNECTION REQUIRED FOR ID SELECTION
 - b. Apply power to unit
 - c. Without disconnecting power from unit, disconnect WHITE wire
 - d. Momentarily connect WHITE to Ground to change ID #
 - i. Identify ID# by number of sequential flashes
 - ii. Possible ID#s: 1 – 4
 - e. Disconnect Power to exit ID mode
2. Set Pattern - Must be done individually to each light prior to syncing
 - a. RED: +Vdc
 - b. BLACK: Ground
 - c. While light is powered, tap WHITE wire to ground to advance to the next pattern (SEE pattern table at right)
 - d. Disconnect Power
3. Sync Lights
 - a. Once desired pattern has been selected for all light heads connect all white wires and insulate with electrical tape.
4. Connect Master Switch for Application.

Maximum Light heads that can be synchronized together is 4 without external flasher available from SoundOff Signal.

Flash Patterns				
Pattern Name	1 Light	Alternating 2 Lights	Simultaneous 2 Lights	F.P.M. (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. PowerPulse	x	x	x	180
7. RoadRunner	x	x	x	113
8. Q-Switch	x	x		
9. RoadRunner 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. PowerRunner	x	x	x	
16. LCR Quint	x	x	x	
17. Warp ²	x	x	x	
18. Ultra Warp	x	x	x	545
19. Thunder & Lightning	x	x		
20. Lite Speed	x	x	x	85
21. SuperSonic	x		x	170
22. LCR Lite Speed	x	x	x	
23. SuperSonic Ultra	x	x	x	
24. Tempo Shift	x	x	x	
25. Tempo Shift Warp	x	x	x	
26. SBE2	x	x	x	67
27. C ²	x	x	x	200
28. U ²	x	x	x	176
29. Cyclone	x	x	x	
30. Chameleon ²	x	x	x	