

INSTALLATION AND INSTRUCTION MANUAL
FOR

*The
Star
Mini Phantom*

Models ULB9 and ULB9-1

**24-Pattern Undercover
Interior Mini LED Light**



For use with lights containing the S8070-262-6 flasher

**STAR
WARNING
SYSTEMS**

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Signal.
VEHICLE PRODUCTS

Please Note: These instructions are provided as a general guideline only. Specific mounting, wiring, and/or weather-sealing may be necessary and are the sole responsibility of the installer. Star Headlight & Lantern Co., Inc. assumes no responsibility for the integrity of the installation for this or any of its products.



This light utilizes high-intensity LED Lamps. DO NOT stare directly into the light while it is on, as momentary blindness and/or permanent eye damage may occur.

The ULB9 uses state-of-the-art Light Emitting Diode (LED) technology. This warning light is comprised of ultra-high intensity LEDs that are operated by a micro-controller to efficiently produce light output with lifetimes up to 100,000 hours.

IMPORTANT: Please read all of the following instructions before installing your new light.

CAUTION: Please be sure to check that your cigarette plug outlet or hard wire is properly fused with a 5 amp or greater fuse. **Testing the light before this fuse is properly installed will void the warranty on the light.**

WARNING!!!! Care should be taken when positioning this warning light so that the light and/or cord does not interfere with the proper operation of the driver-side or passenger-side airbag! Failure to heed this warning may result in serious or fatal injury.

Mounting Instructions



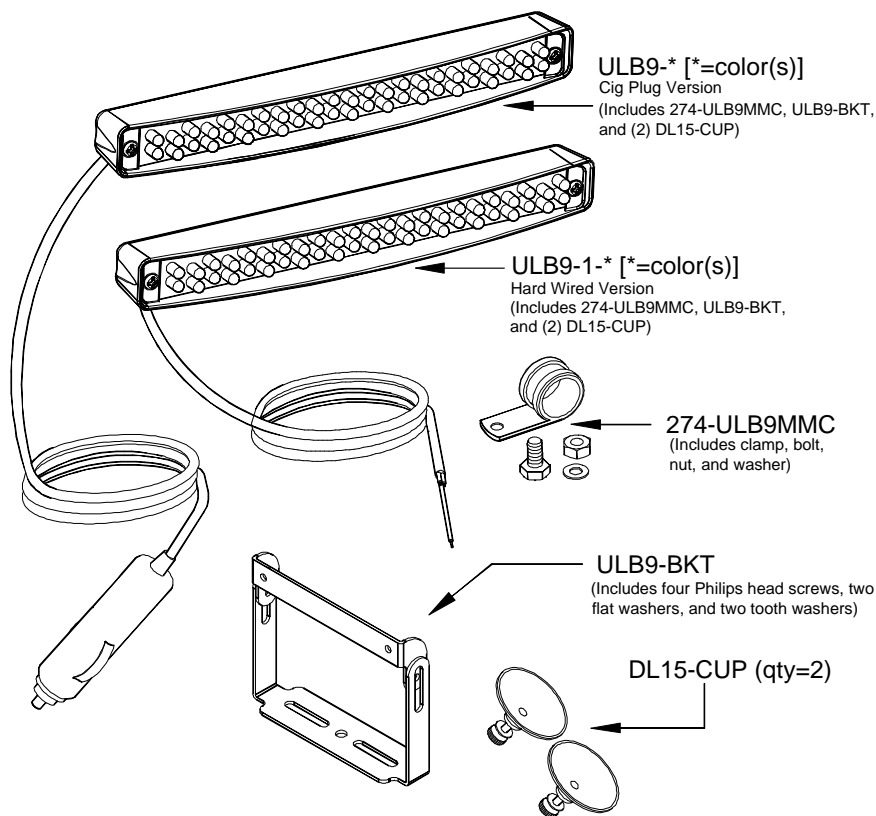
This light is designed to be mounted on the inside of your vehicle. It is not intended for exterior applications and is not warranted against water damage.

It is the sole responsibility of the owner to ensure the warning light is secure. Check your light every time you enter the vehicle to ensure that it is mounted securely. The manufacturer assumes no responsibility for the secure mounting of this light.

WARNING!!!! Care should be taken when positioning this warning light and cord so that the light and/or cord does not interfere with the proper operation of the driver-side or passenger-side airbag! Failure to heed this warning may result in serious or fatal injury.

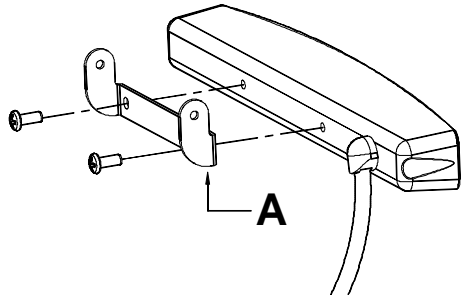
This package should contain the following:

- 1 ULB9 or ULB9-1 LED Light
- 1 ULB9-MK that includes the following:
 - 1 ULB9-BKT Mounting Bracket set
 - 1 274-ULB9MMC Mirror Mounting Clamp
 - 2 DL15-CUP Suction Cups



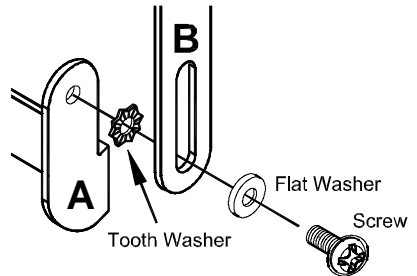
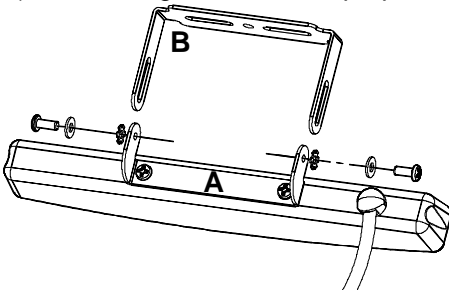
1. The Mini Phantom™ can be mounted in the front windshield of a vehicle, in the rear window, on the rear deck, or directed out the side window. All of the mounts will require you to attach the mounting bracket to the light.

2. Based on where you are going to mount the light and where you will run the cord, determine which direction you will mount the ULB9-BKT to your light. Attach Part A of the mounting bracket, facing the direction you have selected, to the light by using two Philips head screws.



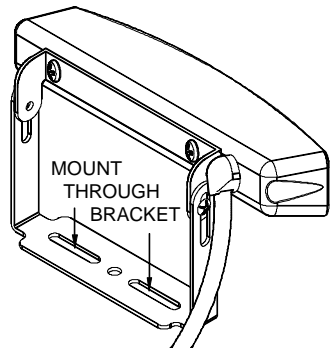
CAUTION: Take extreme caution not to over tighten the screws!!! Over tightening of the screws can strip the holes and result in a faulty mount.

3. Once Part A is secured to the light, use two Philips head screws, two flat washers, and two tooth washers to attach Part B of the mounting bracket to Part A. (See the diagram below for proper installation of the washers.)



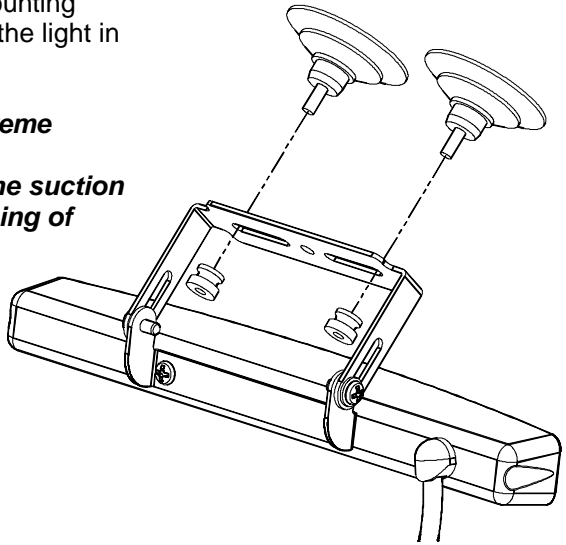
CAUTION: Take extreme caution not to over tighten the screws!!! Over tightening of the screws can strip the holes and result in a faulty mount.

4. If you are mounting the light directly to the rear deck, dash, or other suitable surface, you may use appropriate fasteners (not supplied) to attach the bracket to your mounting surface. Skip to step 10.



5. If you are utilizing the suction cup mount, attach the DL15-CUP suction cups to the mounting bracket. Then mount the light in the desired location.

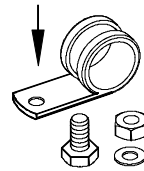
CAUTION: Take extreme caution not to over tighten the suction cups!!! Over tightening of the screws can strip the holes or puncture the inside of the cup and result in a faulty mount.
Skip to step 10.



6. If you are using the 274-ULB9MMC to mount your ULB9 to your rear view mirror, it is the sole responsibility of the installer to ensure that the rear view mirror mount can support the light you are installing.

274-ULB9MMC

7. Remove the 274-ULB9MMC clamp, nut, bolt, and washer from the hardware kit.



8. Place the 274-ULB9MMC clamp around the mirror stem.

9. Attach the clamp to the ULB9-BKT with the washer, nut and bolt, securing your light to the rear view mirror.



10. Once the light is secured, route your cord such that it does not interfere with the vision of the driver or the operation of the steering wheel, gear shifter, and/or any airbags.



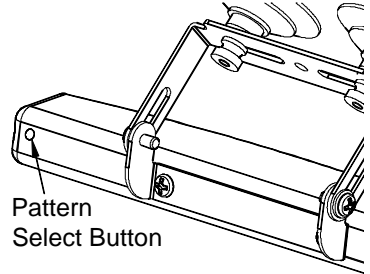
It is the sole responsibility of the owner to ensure that the warning light is secure. Check your light EVERY time you enter your vehicle to ensure it is mounted securely. Star Headlight & Lantern Co., Inc. assumes no responsibility for the secure mounting of the light.

Wiring and Operating Instructions

ULB9 (cig plug version only)

The **ULB9** (cig plug version) can be plugged into the cig plug outlet in your vehicle. It can be turned on and off using the switch on the cord.

The **pattern select button** is used to preset the desired pattern. You may cycle through the different patterns by briefly pressing the pattern select button and releasing it. The ULB9 has 24 patterns to choose from. After the final pattern is reached, the patterns will cycle through again.



PLEASE NOTE: THIS IS DIFFERENT THAN THE ULB9-1, WHICH HAS ONLY 3 PATTERNS.

- | | |
|---|--|
| 1 Slow Warn | 13 Alt. Pre-Pop Quintflash |
| 2 Alt. Doubleflash w/Flicker | 14 All Flicker |
| 3 All Double, Pre-Pop Alt. Triple, Slow Warn | 15 Alt. PSU Flicker |
| 4 Alt. Triple w/Opposite Side Steady | 16 One Side Steady/Other Side Short-Long † |
| 5 Alt. Triple, Alt. Pre-Pop Triple, Flicker * | 17 One Side Rapid Fire, Other Side Pop |
| 6 Alt. Quad, Flicker, Alt. Double, Flicker | 18 Comet 1 |
| 7 Alt. Pre-Pop Quint, Alt. Quint, Flicker | 19 Medium Warn (Alt. Long Singleflash) †† |
| 8 All Tripleflash | 20 Alt. Short – Alt. Long †† |
| 9 Alt. Quadflash w/Post Pop | 21 Slow Warn, Alt. Tripleflash |
| 10 All Quadflash w/Post Pop | 22 Slow Warn, Super Fast Warn |
| 11 Alt. Quintflash | 23 All Doubleflash, Alt. Doubleflash |
| 12 One Side Steady/Other Side Singleflash † | 24 All Double, Alt. Double, Flicker |
- * = Default Pattern
† = California Title 13 Approved w/Red Steady/Blue Flashing
†† = California Title 13 Approved in Red/Blue

If at anytime you would like to go directly to the Slow Warn pattern, simply press and hold the pattern select button. When the LEDs flash once, release the button and the light will be in the Slow Warn pattern.

If you would like to place the light back into the default pattern (Pattern 14: Alternating Tripleflash-Pop-Tripleflash w/Flicker), simply press and hold the pattern select button until the LED's flash twice (about 6 seconds). Then release the button and the light should be in the default pattern.

The ULB9 will remember the pattern it was in when turned off and display the same pattern when re-activated.

ULB9-1 (*hardwire version*)

1. The **ULB9-1** (hard wire) should be wired through a 5 amp fuse (not supplied) and a 12VDC switch (not supplied) capable of handling at least 5 amps. Connect the wires as follows:

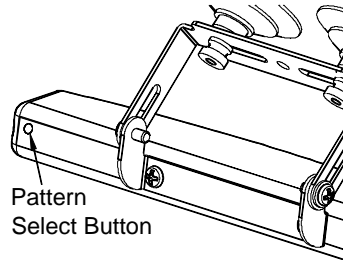
Black - Good Chassis Ground

Red - Power (+12 VDC)

White - Synchro : You can connect the white wires from two ULB9-1

lights together to synchronize them.

2. You may select a flash pattern by pressing the **pattern select button** located on the back of the light. Pressing the button once, while the light is flashing, advances the light to the next pattern. The light will cycle back to the first pattern after the third pattern.



There are three patterns to choose from:

ULB9-1 Flash Patterns (*hard wired version only*)

1. Slow Singleflash
 2. 6-Burst Flicker Flash
 3. Psuedo-Random (**Factory Default**)
3. By connecting the white wires from two ULB9-1 units together, you can synchronize them. With both the units flashing set the desired flash pattern on the first unit. Then set the same pattern on the second unit. You can choose between having them flash at the same time (synchronized) or having them flash opposite one another (alternating). If you have the desired pattern on the second unit selected, but you would like to change the phase (synchronized vs. alternating), simply press the pattern select button three times to cycle around, back to the same pattern. The light should change phases each time you cycle around to the same pattern.
 4. If you have a model with two letters in the color (ex. ULB9-RB), the selected flash pattern will alternate back and forth between the two halves of your light.
 5. After the light is securely installed and wired, tilt the light to the desired angle and tighten the screws. Turn the light on and check the light through the window to ensure that it is at the most desirable angle, and that any obstacles and/or window tinting do not impede the light.

Once your Mini Phantom™ is installed, please test all the patterns and options to familiarize yourself with the various patterns and the operation of the buttons.

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The Mini Phantom™ uses state-of-the-art Light Emitting Diode (LED) technology. This undercover lightbar is comprised of ten segments of ultra-bright LEDs that are operated in a multiplexed mode to efficiently produce light output with lifetimes up to 100,000 hours. Under normal circumstances, you will not need to replace any lights in this lightbar. If any of the LED's in your lightbar do fail, please contact Star Headlight for arrangements to have them repaired.

ONE YEAR LIMITED WARRANTY

The manufacturer warrants each new product against factory defects in material and workmanship for one year after the date of purchase. The owner will be responsible for returning to the Service Center any defective item(s) with the transportation costs prepaid. The manufacturer will, without charge, repair or replace *at its option*, products, or part(s), which its inspection determines to be defective. Repaired or replacement item(s) will be returned to the purchaser with transportation costs prepaid from the service point. A copy of the purchaser's receipt must be returned with the defective item(s) in order to qualify for the warranty coverage. Exclusions from this warranty include, but are not limited to, bulbs, strobe tubes, domes, and/or the finish. This warranty shall not apply to any light, which has been altered, such that in the manufacturer's judgment, the performance or reliability has been affected, or if any damage has resulted from abnormal use or service.

There are no warranties expressed or implied (including any warranty of merchantability or fitness), which extend this warranty period. **The loss of use of the product, loss of time, inconvenience, commercial loss or consequential damages, including costs of any labor, are not covered.** The manufacturer reserves the right to change the design of the product without assuming any obligation to modify any product previously manufactured.

This warranty gives you specific legal rights. You might also have additional rights that may vary from state to state. Some states do not allow limitations on how long an implied warranty lasts. Some states do not allow the exclusion or limitation of incidental or consequential damages. Therefore, the above limitation(s) or exclusion(s) may not apply to you.

NOTE: Most failures can be traced to wiring and battery problems. Check "quick-connects" and wiring to insure that correct voltage/polarity is reaching the electronic strobe light/LED beacon.

If you have any questions concerning this or any other product, please contact our **Customer Service Department** at (585) 226-9787.

If a product must be returned for any reason, please contact our Customer Service Department to obtain a Returned Goods Authorization number (RGA #) before you ship the product back.

Please write the RGA # clearly on the package near the mailing label.

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