

Star Split Phantom™

Model ULB24

Undercover Interior LED Lightbar

With Gen 4 Starburst LEDs



Please Note: These instructions are provided as a general guideline only. Specific mounting and/or wiring, may be necessary and are the sole responsibility of the installer. Star Safety Technologies 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.



STAR

Safety Technologies by *Crote*

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IMPORTANT: Please read all of the following instructions before installing your new *Split Phantom™* LED undercover lightbar.

CAUTION: Please be sure to check that your cigarette plug outlet is properly fused. **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.

Gasket Installation

Before installing any of the brackets, slide the enclosed rubber channel over the front edge of the baffle .



Mounting

There are several optional mounting brackets that can be used to mount your *Star Half Phantom™*. Each light is packaged with the bracket that was selected at the time the light was ordered. Please review the separate mounting instructions that are included with each bracket. You can visit www.star1889.com for a detailed list of available mounting brackets and their known vehicle compatibility.

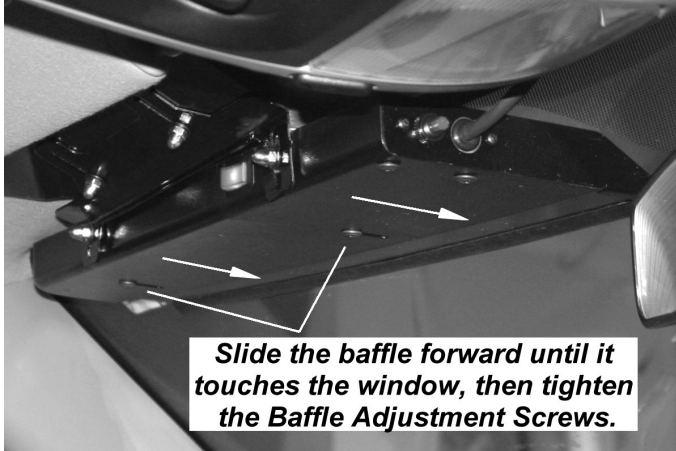


Star Safety Technologies assumes no responsibility for the secure mounting of this light. It is the responsibility of the installer and/or owner to ensure the lightbar is mounted securely. Check your light every time you enter the vehicle to ensure that it is mounted securely.

Baffle Adjustment

1. After the light has been mounted (see separate mounting instructions), if adjustments permit, slide the light forward until the top of it is touching the windshield.
2. Loosen the baffle screws and carefully slide the baffle forward until the gasket is forced slightly downward by the pressure of the windshield.
3. Tighten the Baffle Adjusting Screws to secure the baffle in place .

CAUTION: Take extreme caution not to over tighten the screws!!! Over tightening of the screws can strip the holes.

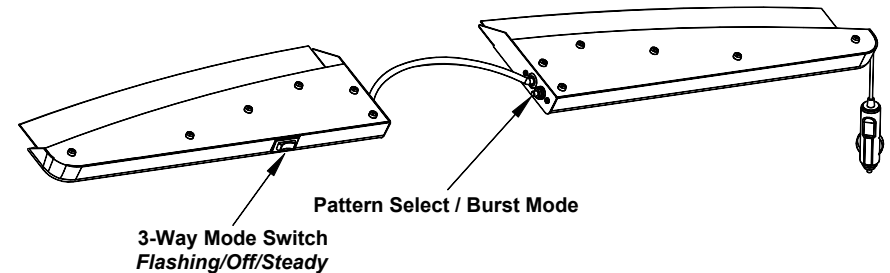


4. Once all of the brackets are securely tightened, check your mount to ensure the desired angle is achieved. Stand in front of the vehicle and inspect the light through the front windshield. The screws may be loosened slightly to allow for any final adjustments necessary.



Operating Instructions

CAUTION!!! 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.



All wires connected to the positive terminal of the battery should be fused at the battery for their rated load. **Testing the light before this fuse is properly installed will void the warranty on the light.**

The 3-Way Mode Switch (Flashing/Off/Steady or Pursuit/Off/Takedown)

Steady: (Takedown) mode, the LEDs will not flash, but instead will remain lit, similar to Takedown lights.

Flashing: Pursuit mode - the LEDs will flash according to the pattern you have selected (See Flashing (Pursuit) Mode below).

Pattern Select/Burst Mode Button

This is a momentary switch and has two different functions, depending upon which mode the 3-Way Mode Switch is in.

3-Way Mode Switch set for Steady (Takedown) Mode:

Pattern Select/Burst Mode will "burst" your LEDs into a super-bright, high-power mode (takedowns). This mode will activate for approximately 30 seconds then revert to the standard steady burn mode. **Please Note:** Immediately after the 30 second "Burst Mode" has ended, the light will be "locked out" of Burst Mode for 30 seconds.

3-Way Mode Switch set for Flashing (Pursuit) Mode:

Pattern Select/Burst Mode will act as the Pattern Select button. Each time this switch-button is depressed, the *Split Phantom* will cycle to the next pattern. The *Split Phantom* is designed with thirty-five different patterns (see next page):

Indicator LED (some versions)

Located on the bottom of the right half (passenger side) of some versions is an Indicator LED. When your light is activated in any mode, this LED will light up.

This light may be optionally de-activated if you wish. To do this, while the light is running, hold down the Pattern Select Button for approximately 12 seconds, until the light flashes 4 times. This will disable (or enable) the indicator LED.

Pattern List

- 1 Slow Warn *
- 2 Fast Warn
- 3 Superfast Warn
- 4 Warn Fade
- 5 Pre-Pop Warn
- 6 All Singleflash
- 7 Alt. Tripleflash
- 8 All Tripleflash
- 9 Alt. Quadflash w/Post Pop
- 10 All Quadflash w/Post Pop
- 11 Alt. Quintflash
- 12 All Quintflash
- 13 Alt. Pre-pop Quintflash
- 14 All Flicker
- 15 Alt. PSU Flicker
- 16 One Side Pop, Other Side Rapid Fire
- 17 One Side Rapid Fire, Other Pop
- 18 Comet 1
- 19 Comet 2
- 20 Delta Omega (Flash Rate Sweep)
- 21 Slow Warn, Superfast Warn
- 22 All Singleflash, All Flicker
- 23 Alt. Double, ALT. Quad w/Post Pop
- 24 All Double, ALL. Quad w/Post Pop
- 25 Alt Double, Alt. Pre-Pop Quad, Alt. Quad w/Post Pop, Alt Flicker
- 26 All Double, All Quintflash, All Quadflash w/Post Pop, All Flicker
- 27 All Quadflash w/Post Pop, All Doubleflash, All Flicker
- 28 Alt. Pre-Pop Triple, Alt. Doubleflash, Alt Flicker **
- 29 Alt. Pre-Pops, Alt. Flicker, Superfast Warn
- 30 Delta Omega, All. Double, All. Flicker
- 31 One Side Steady---Other side Singleflash
- 32 One Side Steady---Other Side Short-Long
- 33 Warn Medium (Alt. Long Singleflash)
- 34 Alt. Short - Alt. Long
- 35 Cycle All

* Default Pattern #1

** Default Pattern #2

- If at anytime you would like to go directly to the Slow Warn (pattern #1), simply press, and hold the pattern select button for approximately 3 seconds. 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 28: Alt. Pre-Pop Triple, Alt. Doubleflash, Alt Flicker), simply press and hold the pattern select button until the LED's flash twice (approx. 6 seconds). Then release the button and the light should be in the default pattern.
- **Toggle Mode:** Pressing and holding the pattern select button until the LED's flash three times (approx. 9 seconds) will toggle the "steady side" for patterns 31 and 32.

Service

These lights use state-of-the-art Light Emitting Diode (LED) technology. These warning lights are comprised of ultra-high intensity LEDs that are controlled by a solid state flasher unit to efficiently produce light output with lifetimes up to 100,000 hours. Under normal circumstances, you will not need to replace any LEDs in this light. If any of the LED's in your light do fail, please contact Star Safety Technologies for arrangements to have them repaired. The flasher unit and heads CANNOT be serviced in the field and any attempt to do so will void the warranty.

LED FIVE YEAR LIMITED WARRANTY

Star Safety Technologies warrants this LED light against factory defects in material and workmanship for five years after the date of manufacture. 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, 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.** Star 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 Materials Authorization number (RMA #) before you ship the product back. Please write the RMA # clearly on the package near the mailing label.

NOTICE

Due to continuous product improvements, we must reserve the right to change any specifications and information, contained in this manual at any time without notice. Star Safety Technologies, Inc. makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Star shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this manual.

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