

# Parts

### ULB9E / ULB9E-1 / ULB9S / ULB9S-1

- Mini Phantom Head with Cig Plug 1
- ULB9-HOOD-1 Flashback Hood with Windshield Brackets 1
- S111-6 Hood Gasket 1
- PLABULB9 Reflective Hood Label 1
- P30019-267 Pivoting Flush Mount Brackets 2

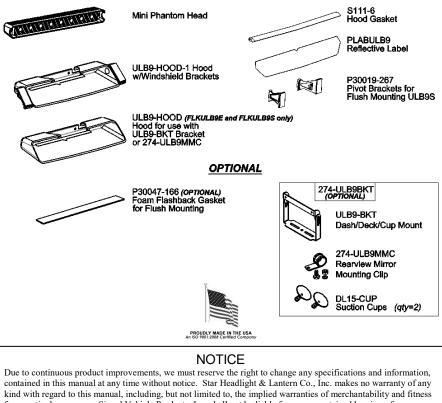
#### RLKULB9E-1 and RLKULB9S-1

- 2 2
- Mini Phantom Head with Hardwire ULB9-HOOD-1 Flashback Hood with Windshield Brackets
- S111-6 Hood Gasket 2
- PLABULB9 Reflective Hood Label 2
- P30019-267 Pivoting Flush Mount Brackets 4

#### FLKULB9E and FLKULB9S

- Pre-Connected Mini Phantom Heads with Cig Plug 2
- ULB9-HOOD-1 Flashback Hood with Windshield Brackets 1
- ULB9-HOOD-2 Flashback Hood with Windshield Brackets 1
- S111-6 Hood Gasket 2
- 2 PLABULB9 Reflective Hood Label
- P30019-267 Pivoting Flush Mount Brackets 4

## INCLUDED



for a particular purpose. Signal Vehicle Products, Inc. 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.

# Mounting

## Front Windshield Adhesive Mount

 The hood can be installed such that the cord can exit either side.

Route the cord through the appropriate slot and slide the hood onto the back of the light until the hooks on the hood "latch" onto the light.

- 2. If desired, install the rubber gasket along the edge of the hood to help reduce vibration against the window, as well as to allow for minor adjustments to the curvature of the window.
- 3. Hold the light up to your windshield to test fit the best location for the light, typically high on the windshield touching the headliner.

DO NOT MOUNT ON DEFROSTER LINES!!

- 4. Clean and dry windshield. (clean with alcohol if necessary)
- 5. Remove the tape liner from both brackets on the light.
- 6. Place light in the chosen location pressing firmly on the brackets ensuring maximum contact and adhesion.
- 7. With the brackets in place and secure, loosen both nuts only enough to slide the light snugly against the windshield and then retighten.

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

Because it takes about 72 hours or 3 days for the adhesive to reach full bonding potential, check the light often during this period to ensure the tape maintains full contact with the bracket and glass.

#### Light Replacement

If you need to replace your light for any reason, you can leave the brackets affixed to the window and remove the light from them.

- 1. Loosen both nuts only enough to slide the light out of the slots in the brackets. The brackets will remain attached to the windshield.
- 2. Install new light by sliding it back into place in the bracket slots.

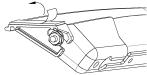
Note - insure square head of carriage bolt is within bracket slot.

3. Tighten both nuts. Note - Do not over tighten nuts as doing so may cause the carriage bolt head to spin in the hood.

### Bracket Removal

Over time the bracket adhesive bond becomes stronger. If the procedure below doesn't work it may be necessary to use alcohol or WD40 to soften the adhesive in combination with the steps below.

- 1. Remove the light head as described under Light Replacement.
- Using razor blade scraper, carefully scrape the adhesive tape off the window gently prying the bracket away from the window until it is removed.

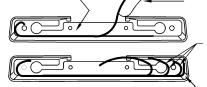


(ULB9S Mounting CONT'D)

### **Optional Reflective Hood Label Installation**

Practice installing label BEFORE removing backing.

- 1. Align the notch in the label with the center of the hood taking care that the front edge of the label lines up with the front edge of the hood.
- 2. Hold one half of the label firmly in place with the backing still affixed.





- 3. Slowly start to peel the backing off of the other half of the label from the center out.
- Gradually peel the backing off of the rest of that half of the label carefully rolling it into place along the hood.
- Using your finger or other cylindrical object, carefully "roll" the label through the corner ensuring that no air bubbles form. If your hood has bolt heads inside, smooth the label or cut it as needed.
- 6. Repeat the process to affix the other half of the label to the hood.

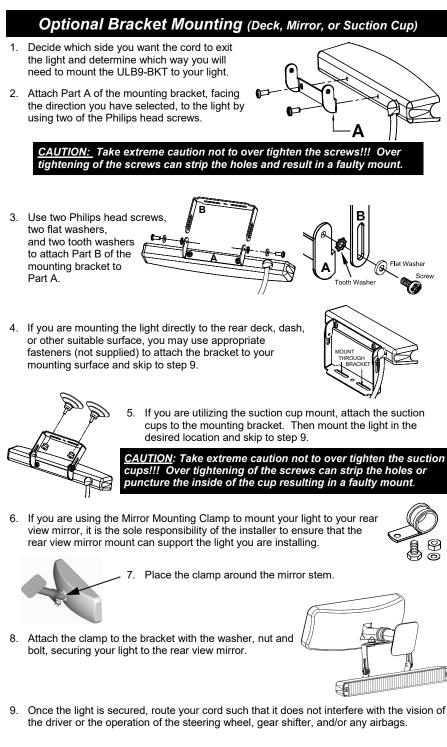
## Flush Window Adhesive Mount

- Snap one pivot bracket onto each side of the light.
  Select a location for your light and hold the light up to the window adjusting the pivots such that the light is approximately level.
  Select a location for your light and hold the light up to the window adjusting the pivots such that the light is approximately level.
  Marking DO NOT MOUNT ON DEFROSTER LINES!!
- 4. Remove the backing from the double sticky tape on the light and place the light in the chosen location pressing VERY LIGHTLY on just the brackets. Check the light from the front and back to verify placement. If placed correctly, press firmly on the brackets ensuring maximum contact and adhesion. Note if a placement mistake is made, quickly remove light by levering off the brackets with a flat blade screwdriver.





Because it takes about 72 hours or 3 days for the adhesive to reach full bonding potential, check the light often during this period to ensure the tape maintains full contact with the bracket and glass.



# **ULB9E and ULB9S Connections and Operation**

## (cig plug version only)

The **ULB9E** and **ULB9S** can be left plugged into the cig plug outlet in your vehicle. It can be turned on and off using the lighted power switch on the cord.

The **pattern select switch** is used to preset the desired pattern. You can cycle through the different patterns by briefly pressing the pattern select switch and releasing it:



- The ULB9E has 12 patterns (in two different phases)
- The ULB9S has 35 patterns

. After the final pattern is reached, the patterns will cycle through again.

If the light fails to work, check the following

- Check the ON/OFF rocker switch on the cig plug to be sure it is in the ON position.
- Twist the plug a few times to remove any ash or other deposits which might be preventing a good contact from being made.
- Remove the fuse from the vehicle fuse box and check to see if it has blown.
- Remove the fuse from the cig plug on the light and check to see if it has blown.
- Clean the lighter socket and contact surfaces.

# ULB9E-1 and ULB9S-1 Wiring and Operation

### (hardwired version only)

The **ULB9E-1 and ULB9S-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: <u>AFTER PROGRAMMING</u>, Connect the white wires from up to six lights together to synchronize them together.

**Green** - Pattern Select: Touch and release to Ground to scroll through the patterns. The light will cycle back to the first pattern after pattern #24.

# Full/Split Mode Programming (excludes ULB9S)

By default, the lights are programmed for the two halves of the light alternate with one another (Split Mode). If you would like to change this setting so the entire light flashes at the same time (Full Mode) proceed as follows:

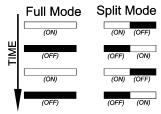
#### ULB9E:

Hold the Pattern Select Button until the light blinks 7 times (~21 seconds). Repeat to change the functionality back to its original setting.

### ULB9E-1 and ULB9S-1:

- Connect <u>Black</u> to Ground.
- Connect Red and White to power.
- Hold the green wire to Ground and release it when the light flashes 4 times.(~12 seconds).
- After an additional second, release the white wire.

This procedure will toggle the Full/Split mode.



# **ULB9S Pattern Programming**

- Slow Warn 1.
- Alt. Doubleflash, Flicker 2.
- All Double, Alt. Pre-Pop Triple, Slow Warn 3
- Alternating Doubleflash, Non-Synch 4
- Alt. Triple, Alt. Pre-Pop Triple, Flicker \* Alt. Quad, Flicker, Alt. Double, Flicker 5.
- 6.
- Alt. Pre-Pop Quint, Alt. Quint, Flicker 7.
- 8. All Tripleflash
- 9. Alt. Quadflash w/Post Pop
- 10. All Quadflash w/Post Pop
- 11. Alt. Quintflash
- 12. One Side Steady/Other Side Singleflash †
- 13. Alt. Pre-Pop Quintflash
- 14. All Flicker
- 15. Alt. PSU Flicker
- 16. One Side Steady/Other Side Short-Long †
- 17. One Side Rapid Fire, Other Side Pop
- 18. Comet 1
- \* = Default Pattern
- † = California Title 13 Approved w/Red Steady/Blue Flashing

- 19. Alt Long Singleflash (Medium Warn)
- 20. Alt. Short Alt. Long 21. Flip-Flop
- 22. Slow Warn, Super Fast Warn
- 23. All Doubleflash, Alt. Doubleflash
- 24. All Double, Alt. Double, Flicker
- 25. Fast Warn
- 26. Superfast Warn
- 27. Warn Fade
- 28. Pre-Pop Warn
- 29. All Singleflash
- 30. Alt. Tripleflash
- 31. All Quintflash
- 32. One Side Pop, Other Side Rapid Fire
- 33. Comet 2
  - 34. Delta Omega
  - 35. Cycle All Patterns
  - Note: For the FLKULB9 series, the pattern alternates between the two heads, rather than back and forth on each head.

### **ULB9S Programming Shortcuts**

Press and hold the Pattern Select Switch for the length of time that corresponds to the pattern you would like to jump to. When the LEDs flash the corresponding number of times shown in the chart below, release the switch and the light will be in the selected pattern.

Length of Hold	<u>Unit Blinks</u>	<u>Jumps to</u>	<u>Description</u>	
3 seconds	1 time	Pattern 1	Slow Warn	
6 seconds	2 times	Pattern 5	Alt. Triple, Alt. Pre-Pop Triple, Flicker	
9 seconds	3 times	N/A	Swaps Steady Burn Side for Patt. 12 & 16	

# ULB9E / ULB9E-1 / ULB9S-1 Pattern Programming

These lights have 12 different patterns in one of two phases. To change patterns, press and release the Pattern Select Button or touch and release the Green wire to ground.

Note: The second phase will only be noticeable when synchronizing two of the lights (hardwire versions only).

Phase 1 Flash Pattern	Phase 2 Flash Pattern	Pattern Type	STSTEM Pattern Description	Shortcut
1	13	К	Flicker	
2	14	L	Fast Doubleflash	Pattern 1 (Phase 1): 3 sec or 1 flash
3	15	м	Tripleflash	Dettern 42 m
4	16	Ν	PSU Flicker	Pattern 13 (Phase 2): 9 sec or 3 flashes
5	17	0	PSU Random	
6	18	F	Quadflash †	
7	19	G	Quadflash w/Post-Pop †	Pattern 6 (Phase 1):
8	20	Н	Singleflash †	6 Sec or 2 flash
9	21	1	Doubleflash †	Pattern 18 (Phase 2): 12 sec or 4 flashes
10	22	J	Variable AKA Delta-Omega	12 sec or 4 flashes
11	23	С	Post Pop	
12	24	E	Random	
NA			Steady	18Sec

#### Pattern Shortcuts:

Hold Pattern Select Button or hold Green wire to ground for indicated time.

#### Steady Burn:

Not in pattern cycle. Only accessible through shortcut. Hold Pattern Select Button or hold Green wire to ground for 18 seconds (light will flash 6 times)

### STEADY BURN PROGRAMMING (excludes ULB9S cig plug versions)

1. Hold the Pattern Select Button or touch the green wire to Ground until the light blinks 6 times (approximately 18 seconds), then release it.

For lights in Split Mode, one side will become steady, while the other flashes.

- To change the pattern on the flashing side, press and release the Pattern Select Button or touch and release the green wire to Ground.
- To flip-flop the steady side and the flashing sides, hold the Pattern Select Button or touch the green wire to ground until the light flashes 5 times (approximately 15 seconds) and then release it.

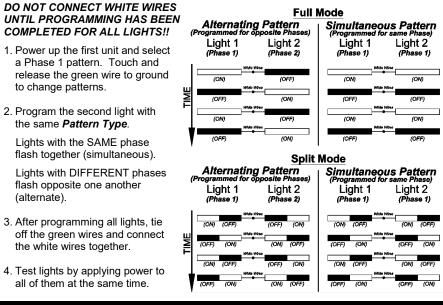
For lights in Full Mode, the entire light should illuminate steady burn.

2. To exit Steady burn pattern: **Split Mode** - Hold the Green wire to Ground until the light blinks six times (approximately 18 seconds).

Full Mode - Touch and release the Green wire to Ground.

## SYNCHRONIZATION (ULB9E-1 and ULB9S-1 only)

You can synchronize up to 6 lights with compatibility, using the same Pattern Type.



FOR SYNCHRONIZATION BOTH LIGHTS MUST BE SET FOR THE SAME PATTERN TYPE!

#### LED FIVE YEAR LIMITED WARRANTY

The manufacturer warrants this LED light against factory defects in material and workmanship for five years 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 uto 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. 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.