




BK9016LED

M-Tech Plus™ Minibar



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 Headlight & Lantern Co., 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 Headlight & Lantern Co., 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.

 **WARNING!** 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.

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.

 **Star Headlight & Lantern Co., Inc.**
 455 Rochester Street Avon, NY 14414 Phone: 585-226-9787 FAX: 888-478-2797
STAR WARNING SYSTEMS **STAR SIGNAL** **BRADFORD** www.starheadlight.com
VEHICLE PRODUCTS Vehicle Solutions

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

Permanent Mounting

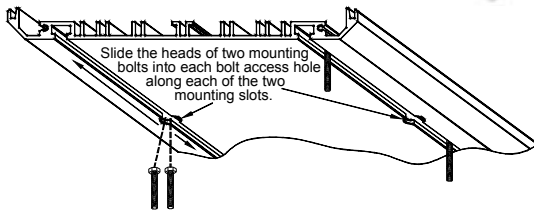
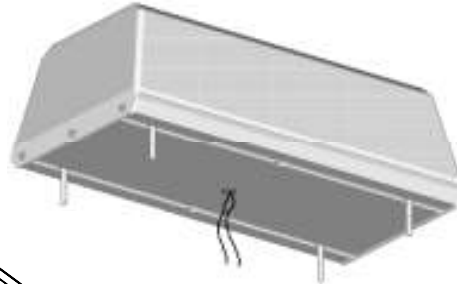
1. Using the gasket as a template, mark the four bolt holes on the mounting surface (and the center wire hole, if you will be needing one).



2. Drill a 9/32" hole in the four marked spots or the mounting bolts.

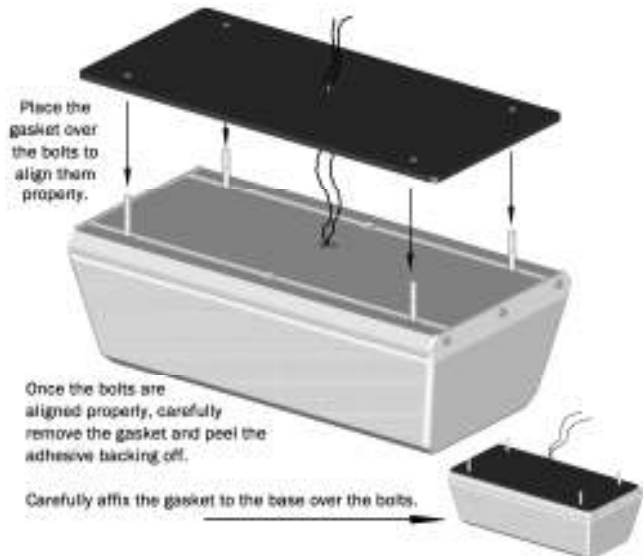
CAUTION: Take care not to drill through the headliner below.

3. Insert the head of two mounting bolts into each of the access holes found along the slots on the bottom of the bar and slide one to each end of the base.



4. Route the wires through the center of the gasket and align the bolts properly BEFORE REMOVING THE BACKING.

5. **Remove the adhesive backing on the gasket and carefully stick the gasket onto the base**, over the bolts, with the wires routed through the center hole.



6. Route your wires through the mounting surface if applicable.

7. Install your light with the four bolts going through your mounting holes. Place a washer and nut on each of the bolts and tighten until snug.

Magnet Mounting

If you are mounting the light on the roof of your vehicle, take extreme care to ensure that the magnet is firmly seated on your roof, and that the pull of the magnet is sufficient to secure the light in place. Since the composition of the metal in the roofs of different vehicles may vary, as well as the contour, texture, and/or condition, Star cannot guarantee the ability of the light to remain in place on a moving vehicle. **It is the sole responsibility of the owner to ensure the warning light is secure.**



Care should be taken when routing the cig plug cord so that it 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.

Pattern Programming and Synchronization

You can synchronize up to two Constellation minibars and four individual Constellation lights using the BKLD418-2 (sold separately).

- **ALL SYNCHRONIZED LIGHTS MUST BE PROGRAMMED FOR THE SAME PATTERN TYPE.**
- You cannot program the BK9016LED using the controller. It must be programmed independently.
- Lights with the SAME phase flash together (simultaneous).
- Lights with DIFFERENT phases flash opposite one another (alternate).

1. After mounting and wiring the BKLD418-2 controller, connect your BK9016LED to it using the BKSWH-357-18 extension cables (sold separately).



2. Remove the three screws from each end of the BK9016LED that secures the dome to each end of the extrusion and carefully lift the dome off.

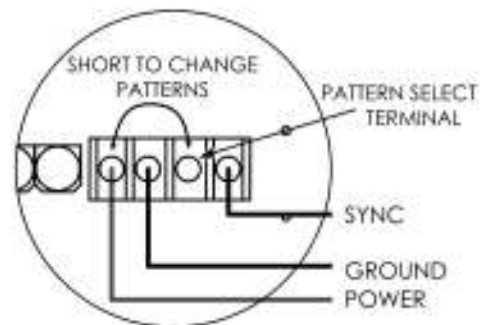
3. Locate the wiring terminal block.

4. Power up the controller which will activate the BK9016LED.

5. Using a small piece of wire, or other conductive material, briefly short, then release, the Pattern Select terminal with the Power terminal. This will scroll through the patterns listed on the next page.

6. Repeat steps 1-5 for any additional BK9016LED lights you have, ensuring you select the same **Pattern Type**.

7. Program any other heads for the same **Pattern Type** per the instructions included with them.



Flash Pattern #	Pattern Type	Patterns	Shortcut
1	K	Alternating Flicker †	← Pattern 1 (Phase 1): 3 sec or 1 flash
2	L	Alternating Fast Doubleflash	
3	M	Alternating Tripleflash	
4	N	Alternating PSU Flicker	
5	O	Alternating PSU Random	
6	F	Alternating Quadflash ††	← Pattern 6 (Phase 1): 6 Sec or 2 flash
7	G	Alternating Quadflash w/Post-Pop	
8	H	Alternating Singleflash	
9	I	Alternating Doubleflash	
10	J	Alternating Variable	← Pattern 11 (Phase 2): 9 sec or 3 flashes
11	P	Alternating Post Pop †††	
12	Q	Alternating Random	
13	R	Alternating Quintflash	
14	S	Alt. Fast Doubleflash, Alt. Flicker	
15	T	Alt. Quad, Alt. Flicker, Alt. Double, Flicker	← Pattern 16 (Phase 2): 12 sec or 4 flashes
16	G	Sim. Quad w/Post Pop (Phase 1) †††	
17	G	Sim. Quad w/Post Pop (Phase 2)	
18	U	Alt. Triple, Alt. Non-Synch Double, Alt. Quint, Flicker	
19	V	Steady burn one side, Other side Single Flash	
20	NONE	Cycle All	

† = Programming Shortcuts - Short Pattern Select terminal to Power terminal for indicated time.



ALL SYNCHRONIZED LIGHTS MUST BE PROGRAMMED 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 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.** 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.

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 Material Authorization number (RMA #) before you ship the product back. Please write the RMA # clearly on the package near the mailing label.