200A, 200S, 240, and 266T*L Series

Star ✦ Beacons

featuring the

S-LINK SYSTEM

⚠️ *Hardwire Models : +12-24VDC*

Cig Plug Models : +12VDC only

⚠️ **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.

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.

PROUDLY MADE IN THE USA
An ISO 9001:2008 Certified Company

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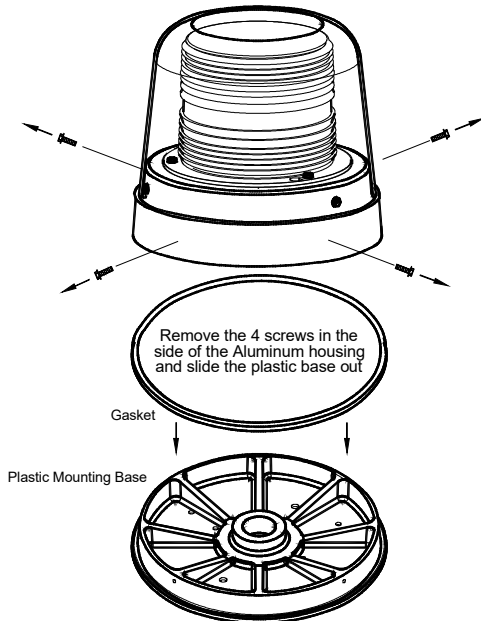Please write the RMA # clearly on the package near the mailing label.

Star Headlight & Lantern Co., Inc.

455 Rochester Street   Avon, NY 14414   Phone: 585-226-9787   FAX: 888-478-2797

SINCE 1889   STAR WARNING SYSTEMS®   STARSIGNAL VEHICLE PRODUCTS®   BRADFORD Vehicle Solutions   www.starheadlight.com

Remove the 4 screws in the side of the Aluminum housing and slide the plastic base out
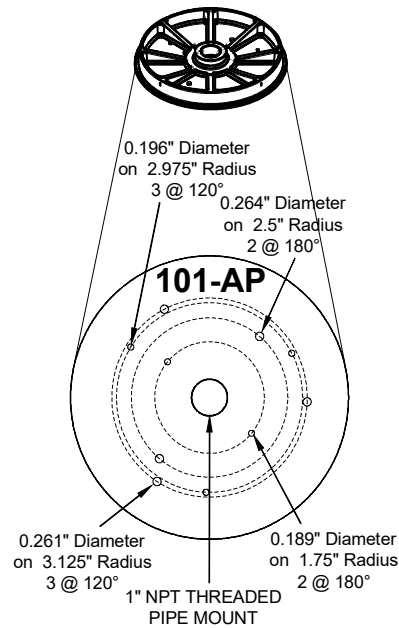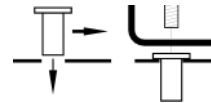
Gasket

Plastic Mounting Base

1. Remove the four screws in the side of the aluminum housing.

2. Slide the plastic base out of the aluminum case.
   Do not to damage the gasket.

3. Determine which knockouts on the base will work best for your application and clear them using a punch or other appropriate tool.

4. Using the plastic mounting base as a template, mark the appropriate holes on the mounting surface.

5. Drill a 3/8" hole in the marked locations. Then, if applicable, drill a 3/8" hole for the wires in the center of the outer holes.
   CAUTION: Take care not to drill through the headliner of the vehicle below.

101-AP

0.196" Diameter on 2.975" Radius 3 @ 120°

0.264" Diameter on 2.5" Radius 2 @ 180°

0.261" Diameter on 3.125" Radius 3 @ 120°

0.189" Diameter on 1.75" Radius 2 @ 180°

1" NPT THREADED PIPE MOUNT

6. Insert the rubber well nuts into the mounting holes so the wider lip rests on the mounting surface.

7. Route the wires through the center hole and install the screws through the base, into the well nuts, and tighten until snug.

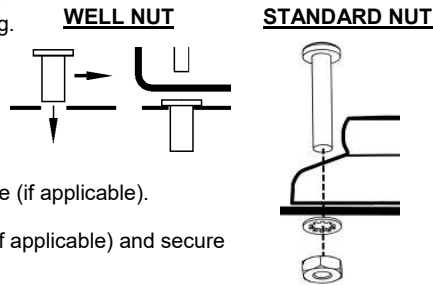8. Place the light on the base and reinstall the four screws.

Pipe Mounting

For NPT pipe, mount the light using the threaded entrance hole in the base of the light, then skip to the **Wiring Instructions**.

200S, 240, and 266 Surface Mounting

1. Decide which holes you will be using to mount your light. Models without a flange will have knockouts inside the base that can be used. To locate them, carefully remove either the clamp ring or the screws near the base of the lens and lift off the lens. Use a punch or drill to remove the knock-outs present.

2. Using the gasket as a template, mark the appropriate mounting holes. Mark a center hole if you will be running your wires through the mounting surface.

3. In the marked locations, drill appropriately sized holes for the hardware you are using.

WELL NUT   **STANDARD NUT**

4. If using well nuts, push them through the mounting holes until the bottom side of the wider lip rests on the surface of the vehicle.

5. Install the wire grommet on the center hole (if applicable).

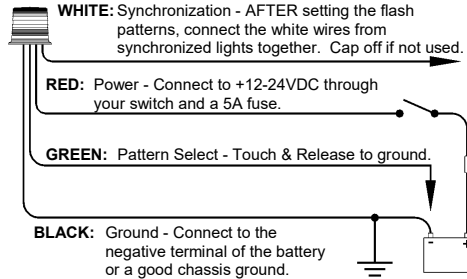6. Route the wires through the center hole (if applicable) and secure the light with included hardware.

Magnet Mounting

WARNING!!!! Care should be taken when positioning any warning light on the roof, dash, or instrument panel of the vehicle, so that the light and/or cord does not interfere with the proper operation of any airbags! Failure to heed this warning may result in serious or fatal injury.

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. As the composition of the metal in the roofs of different vehicles may vary, as well as the contour, texture, and/or condition, the manufacturer cannot guarantee the ability of the light to remain in place upon a moving vehicle. It is the sole responsibility of the owner to ensure the warning light is secure.

- **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.***

- If the light fails to work when the plug is inserted into the cigarette plug socket, twist the plug a few times to remove any ash or other deposits which might be preventing a good contact from being made. If the problem persists, check for a fuse inside of the plug itself. If present, remove the fuse from the circuit, check to see if it has blown, and clean the lighter socket and contact surfaces. Reconnect the fuse and test the light again.

Wiring Instructions

WHITE: Synchronization - AFTER setting the flash patterns, connect the white wires from synchronized lights together. Cap off if not used.

RED: Power - Connect to +12-24VDC through your switch and a 5A fuse.

GREEN: Pattern Select - Touch & Release to ground.

BLACK: Ground - Connect to the negative terminal of the battery or a good chassis ground.

⚠️ **Cig Plug Models : +12VDC only**

CAUTION:
All of our DC powered warning lights are polarity sensitive. These lights are polarity protected *only if the appropriate fuse* is used. All wires connected to the positive terminal of the battery should be fused <u>at the battery</u> for their rated load. **Testing the light before this fuse is properly installed will void the warranty on the light.**

Please Note: If your light contains a PURPLE wire, it is a dead wire that is not used and can be cut short.

Pattern Programming

To change patterns, press the pattern select button on the cig plug, or touch the **green wire** to ground on hard-wired models.

If applicable, after the pattern has been set, tape or place a wirenut over the end of the green wire to prevent it from coming into contact with ground.
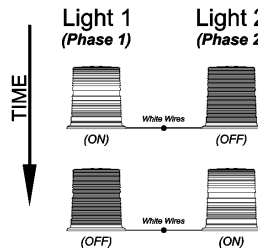
POWER   PATTERN SELECT

Alternating Pattern
(Programmed for opposite Phases)

Light 1 *(Phase 1)*   Light 2 *(Phase 2)*

TIME

White Wires

(ON)   (OFF)

White Wires

(OFF)   (ON)

Simultaneous Pattern
(Programmed for same Phase)

Light 1 *(Phase 1)*   Light 2 *(Phase 1)*

White Wires

(ON)   (ON)

White Wires

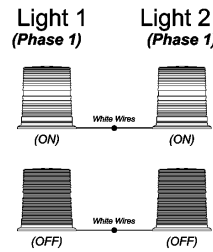(OFF)   (OFF)

SYNCHRONIZATION
(Hard wire only)

You can synchronize up to six lights with S-LINK SYSTEM compatibility.

DO NOT CONNECT WHITE WIRES UNTIL PROGRAMMING HAS BEEN COMPLETED FOR ALL LIGHTS!!

1. Program the first unit.

2. Program the second light with the same *Pattern Type*.

   Lights with the SAME phase flash together (simultaneous).

   Lights with DIFFERENT phases flash opposite one another (alternate).

3. After programming all lights, cap off the green wires and with the power off, connect the white wires together.

4. Test lights by applying power to all of them at the same time.

Phase 1 Flash Pattern	Phase 2 Flash Pattern	Pattern Type	Pattern Description	Shortcuts
1	13	K	Flicker †	Pattern 1 (Phase 1): **3 sec or 1 flash**
2	14	L	Fast Doubleflash	
3	15	M	Tripleflash †	Pattern 13 (Phase 2): **9 sec or 3 flashes**
4	16	N	ECE Quadflash †	Pattern 4 (Phase 1): **6 sec or 2 flash**
5	17	O	ECE Doubleflash †	
6	18	F	Quadflash †	
7	19	G	Quadflash w/Post-Pop †	
8	20	H	Singleflash †	Pattern 16 (Phase 2): **12 sec or 4 flashes**
9	21	I	Doubleflash †	
10	22	J	Variable AKA Delta-Omega	
11	23	C	Post pop 1.4CPS †	
12	24	E	Random 0.4CPS	
NA			Steady	18 Sec/5 Blinks

† - SAE J845 approved patterns when properly configured

Pattern Shortcuts: Hold Green wire to ground for indicated time.

Steady Burn: Not in Pattern Cycle. Hold Green wire to ground for 18 seconds (light will flash 5 times).