

SB44-5

Advanced Programmable Traffic Director Controller



Important: This product is used to **direct** traffic. Improper use may result in vehicular collision, personal injury and/or death. Star Headlight & Lantern Co., Inc., and its subsidiaries shall not be held responsible for damages directly or indirectly caused by improper use of this product. Always carefully consider the effect on traffic that the selected light pattern will have before engaging the lights.



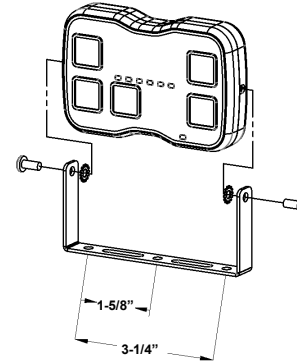
NOTICE

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.

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 SINCE 1889 VEHICLE PRODUCTS Vehicle Solutions

Mounting

- Select a place to mount your controller that is a dry location out of direct sunlight, free of dirt and dust. Under the vehicle's instrument panel is usually the best choice.
- After identifying where your lights will be mounted, determine the path(s) the wires will take.



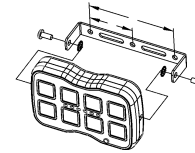
A U-bracket (P/N 274-SB44-U) is included for mounting.

Attach the U-Bracket to the controller as shown to the left. The bracket is designed such that it can be swiveled in any direction depending upon your mounting location. Use appropriate hardware (not included) to attach the U-Bracket to your mounting surface.

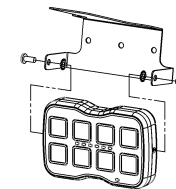
Optional Mounts

(Sold Separately)

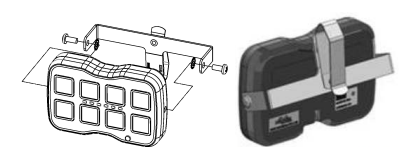
Low Profile U-Bracket
274-SB44-ULP



Headliner Bracket
274-SB44-H



Visor Clip Bracket
274-SB44-VC



Electrical Connections

| Wire Color | Button | Standard Function | Optional Function |
|------------|--------|-------------------------|-------------------------------------|
| YELLOW | 4 | Auxiliary Device +12VDC | N/A |
| GREEN | 5 | Traffic Director Left | Low Current Auxiliary Device +12VDC |
| BLUE | 6 | Traffic Director Right | Low Current Auxiliary Device +12VDC |
| BROWN | 8 | Traffic Director Warn | Auxiliary Device +12VDC |
| BLACK | N/A | N/A | Ground/Battery Negative |
| RED (3) | N/A | N/A | Battery Positive (12VDC) |

SPECIFICATIONS

- Operating Voltage: 10-16VDC
- Max Average Total Output: 6A
- PB4 or PB8 Max Output (each): 2.5A avg. (5.0A peak)
- PB5 and PB6, Max Average Output: 60mA
- Standby Current (Off): <1mA
- Operating Temperature: -40° to 55°C

Programming Options

These controllers have three options that can be programmed by following the instructions below.

BACK LIGHT: Scrolls through 14 options of brightness for the backlighting.

TRAF DIREC: (ON by default) - This controller is normally programmed to operate a Traffic Director. The LED display on the face of the controller will mimic the Traffic Director output when buttons **PB5** (Left Arrow), **PB6** (Right Arrow), **PB5+PB6** (Center Out), and **PB8** (**WARN**) are pressed. Additionally, there is a "radio" functionality of these buttons which only allows one function to be active at a time. If you are not controlling a Traffic Director and want **PB5**, **PB6**, and **PB8** to activate auxiliary devices, toggle this option OFF. This will turn off the LED display and deactivate "radio" functionality of these buttons.

WARN: (ON by default) - By default, **PB8** is programmed to use for activating the **WARN** pattern on your Traffic Director. The LED display will mimic the Traffic Director when **PB8** (**WARN**) is pressed and **PB5** and **PB6** will be turned off. If you are not using a **WARN** pattern on your Traffic Director and want **PB8** to activate an auxiliary device, toggle this option OFF.



To program any of the options listed above proceed below:

1. Enter Programming Mode by pressing and holding the **POWER** button until you hear an oscillating tone and **PB5** turns off.
2. Review the diagram above. While continuing to hold the POWER button, press and release the corresponding push button to toggle the option that you wish to change.
3. Once you have finished programming all of the desired options, release the **POWER** button.

Once your Traffic Director is installed, please test all the patterns, options, and alternate versions to familiarize yourself with the various patterns and the operation of the controller.

Troubleshooting

Button Flashes Rapidly / No Output:

Individual over-current or short - If the controller detects a current greater than 4.5A (or a short) on any of the outputs, when that output is activated, the corresponding button will flash rapidly. Every few seconds the button will turn back on to check if the problem is resolved. If it still is over-current the button/output will error out again. If the over-current issue has been resolved the output will function normally.

One Or More Outputs Deactivated:

System over-current - This controller has a maximum average output of 6 amps. If this limit is exceeded, the system will start turning off the outputs sequentially, starting with button 4, until the current is under 6 amps. Every few seconds the buttons will turn back on to check if the problem is resolved. If it has not, they will turn off again.

Electrical Current Test:

While holding down the **POWER** button, the LED Display will indicate the amount of current being drawn by the currently active function.

All Off = ~ 0 amps  **All On** = Full Load/System Limit

Service

LIMITED WARRANTY

The manufacturer 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.** 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 Materials Authorization number (RMA #) before you ship the product back.

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