

# TD77-2QS

## LOGIC BASED TRAFFIC DIRECTOR CONTROL BOXES



**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.



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

### 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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**STAR**  
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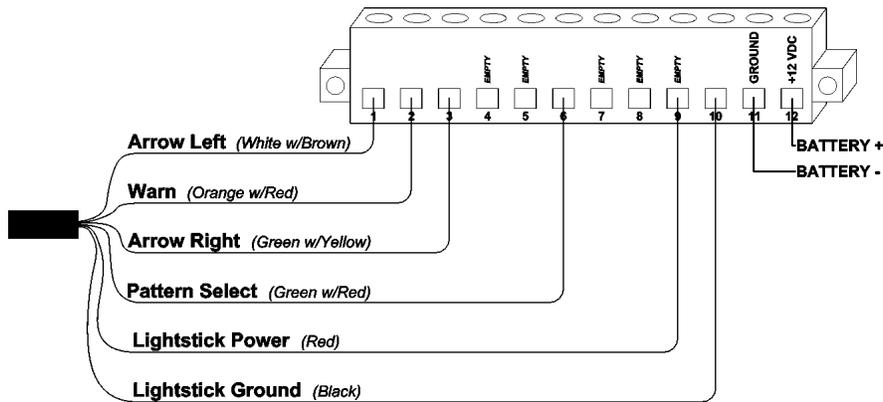
**BRADFORD**  
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## Mounting

- 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 bar will be mounted, determine the path your cable, which connects the controller to the Traffic Director, will take. The cable should exit the left side of the Traffic Director when you are facing both the stick and the controller.

## Electrical Connections



- Connect the wires from the lightstick to the green connector as shown above. The wire colors referenced above are for the Star DLQS series. If you are using a different lightstick, your colors may vary.
- Connect Terminal 11 to the negative side of your battery (marked **BAT-** above).
- Connect Terminal 12 (marked **BAT+** above) to the positive side of the battery.



***It is imperative that you supply a ground wire to the terminal marked "BAT -" on the controller. You must not let the controller's case supply ground. Use 18 AWG or heavier gauge wire for the power and ground connections***

## Operation



### Power Switch

Turns the lightstick On and Off. By default the Warn Pattern is active when the Power switch is turned on .

### Left, Center, Right

Activates directional pattern. Red when active.

### Warn

Activates the Warn pattern that you program below. Red when active.

### Fast

Not Used.

### Dim

Not Used.

### Alt

Changes pattern or pattern style.

This only applies to lightsticks that change patterns through a positive-side switched wire. See the manual that came with your lightstick to identify its corresponding pattern list.



*To avoid possible damage, the controller should be turned off prior to engine starting. It is possible, though not likely, to confuse the controller if the vehicle's battery is low and the engine is started with the controller running. If you notice that the controller's display shows something out of the ordinary, simply push the power switch to the off position and back on again. This should clear any fault caused by improper voltage being supplied to the unit.*

**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**

The majority of issues that cause the lightstick to function improperly can be caused by faulty wiring. Review the wiring positions illustrated on page one and ensure that all wires are secured tightly in their proper location. Also check that no wires are frayed with loose strands that could result in a short.

### **Fuses**

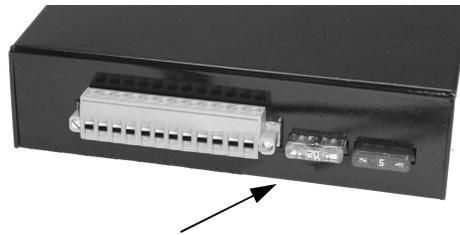
There are two automotive-type blade fuses located on the rear of the controller that are necessary for proper operation of the lightstick:

#### **Controller illuminates, but lightstick does not:**

The 20 amp fuse is connected to the lightstick. If it has blown, usually the controller will still function properly, but the lightstick will not illuminate.

#### **Neither the controller nor the lightstick illuminate:**

The 5 amp fuse is for the controller itself. If it has blown, the controller and lightstick will not work.



## **Service**

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