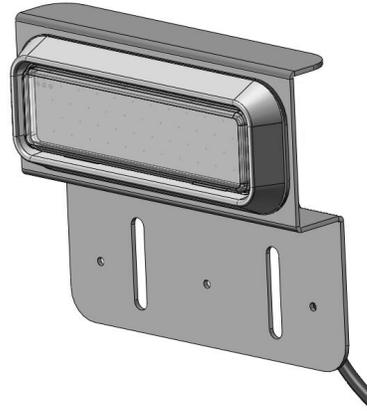


TD93-DLXTAHK

Auxiliary Warning Light Kit for
TD93, TD93DLXT, and TD93DLXTARO



Important: This product is used to warn 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.



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, dimes, 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.



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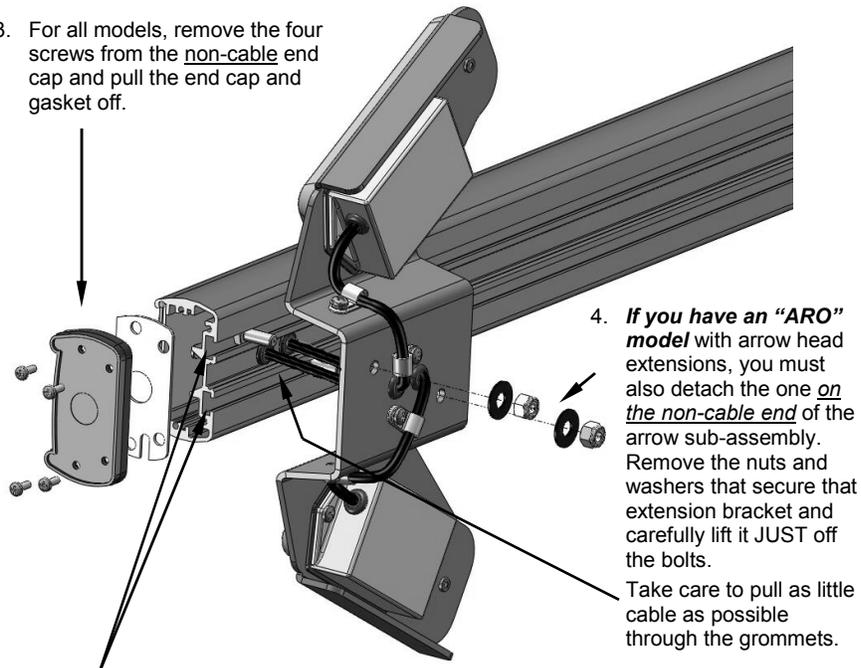
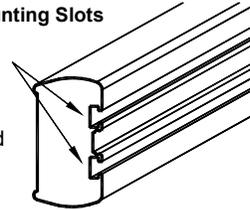
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PLIT460 REV. A 3/7/13

Mounting

1. Each Traffic Director is designed with slots that run the length of the extrusion along the back. Use these slots to mount the TD93-DLXTAHK heads.
2. Before mounting traffic director on the vehicle decide where Auxiliary DLXT Heads will be located along the length of the traffic director, and how all the connecting cables will be routed when the traffic director is in place. (Note: that the mounting slots or center recess may be used to route the cables providing cable diameter does not rise above extrusion such that it interferes with the mounting brackets.)
3. For all models, remove the four screws from the non-cable end cap and pull the end cap and gasket off.

Mounting Slots



4. **If you have an "ARO" model** with arrow head extensions, you must also detach the one on the non-cable end of the arrow sub-assembly. Remove the nuts and washers that secure that extension bracket and carefully lift it JUST off the bolts. Take care to pull as little cable as possible through the grommets.
5. Slide both of the 1/4-20 hex bolts that came with your TD93-DLXTAHK into the one slot you'll be using to mount the Auxiliary DLXT Brackets. Use the slot that is most appropriate for your application. **If you do NOT have an ARO model**, skip to Step 9.
6. **If you have an ARO model**, the bolts are the same as the ones used for the extension bracket, so you can slide the original bolt and one of the new ones towards the center of the stick and use the other new bolt to re-mount the arrow head extension bracket. A screw driver may be used to push the bolts under and past the sub-assembly. (Mounting the Auxiliary DLXT Brackets will be done later.)
7. **If you have an ARO model**, position two of the hex bolts (one original, one new) back under the mounting holes in the arrow head sub-assembly and carefully place the sub-assembly back on the bolts, feeding as much of the cable as possible back into the extrusion.
8. **If you have an ARO model**, reinstall the washers and nuts loosely, taking care not to pinch the cables that run into the extrusion.

9. Reinstall the end cap by carefully positioning it between the o-ring sealing cords while taking care that it does not curl up or push any gaskets out of the way.



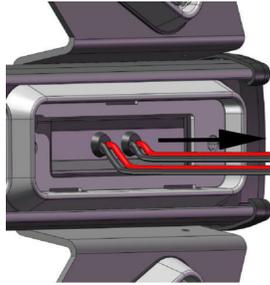
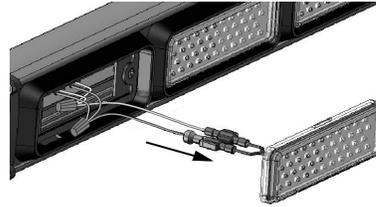
This step is VERY important in order to maintain the water-resistant integrity of the traffic director.

10. Reinstall the four screws that secure the end cap. Be sure to tighten them down evenly so that a good seal is made. **If you do NOT have an ARO model**, skip to Step 12.

11. **If you have an ARO model**, follow these steps to feed the cable back into the extrusion.

- A. Turn the traffic director over so that the LED heads are up.

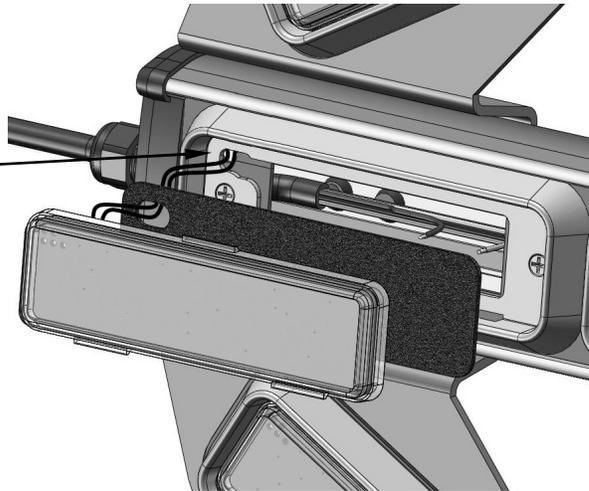
- B. Using a small flat bladed screw driver carefully pry the DLXT head out of the housing. Take care not to damage the gasket between the head and the bezel.



- C. Inside of the extrusion there are two small grommets with black and red wires running through them, and into two wire nuts. Carefully pull the black and red wires towards you, back through the grommets, until you have taken up all of the slack on the backside between the extrusion and the arrow sub-assembly.

- D. Once you have assured all of the slack is gone and the wires are not pinched, fully tighten the arrow sub-assembly nuts securing it to the extrusion.

- E. Carefully push all of the wires back into the extrusion, running the two wires from the head through the hole in the corner of the back bezel gasket.



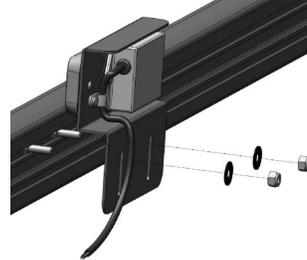
- F. Position the LED head gasket back into place inside the bezel and snap the LED head back into the bezel



Take care that the LED head gasket remains flat when you snap in the LED array.

(Mounting CONT'D)

12. Use the now installed 1/4-20 hex bolts on the back of the extrusion to attach all the TD93DLXTAHK heads to the arrowstick.
13. Make all the final traffic director wire connections to the customer supplied wires/cables and then mount to the vehicle.



Wiring

There are three basic versions of the TD93-DLXTAHK:

- TD93-DLXTAHK-**** (*=color)
TD93-DLXTAHK-STT
TD93-DLXTAHK-W
- Standard Auxiliary Warning Light**
Auxiliary Stop/Tail/Turn Light
Auxiliary Worklight (or Backup light)

Use the diagram below that corresponds to your model:

TD93-DLXTAHK-**

TD93-DLXTAHK PATTERNS

Flash Pattern #	Pattern Type	Phase	Pattern Description
1	A	1	Fast Singleflash (1.9 CPS)
2	B		Flicker flash (1.7 CPS)
3	C		Post pop (1.4 CPS)
4	D		PSU-flicker (0.4 CPS)
5	E		Random (1.9 CPS) (DEFAULT PATTERN)
6	F		Quadflash (1.0 CPS)
7	G		Quadflash w/Post-Pop (1.0 CPS)
8	H		Singleflash (1.0 CPS)
9	I		Doubleflash (1.0 CPS)
10	J		Delta-Omega (0.3 CPS)
11	A	2	Fast Singleflash (1.9 CPS)
12	B		Flicker flash (1.7 CPS)
13	C		Post pop (1.4 CPS)
14	D		PSU-flicker (0.4 CPS)
15	E		Random (1.9 CPS)
16	F		Quadflash (1.0 CPS)
17	G		Quadflash w/Post-Pop (1.0 CPS)
18	H		Singleflash (1.0 CPS)
19	I		Doubleflash (1.0 CPS)
20	J		Delta-Omega (0.3 CPS)

TD93-DLXTAHK-STT

TD93-DLXTAHK-W

