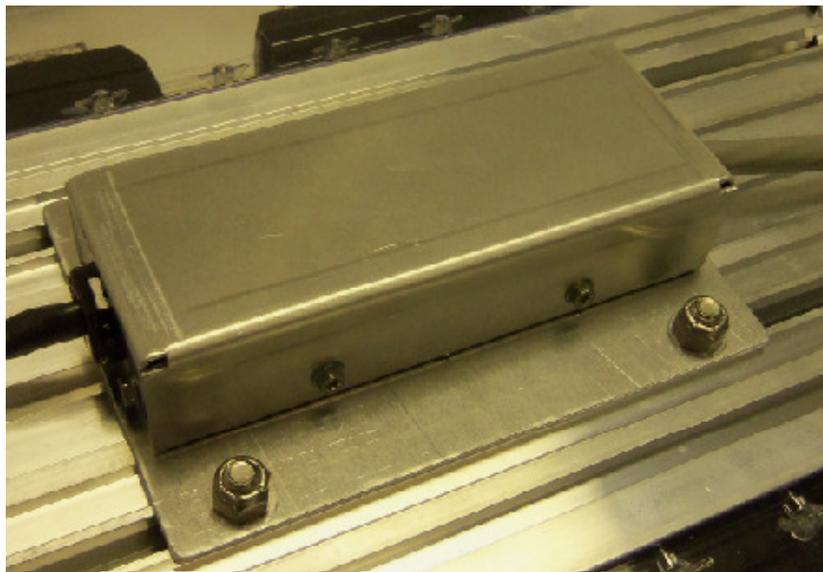


INSTALLATION INSTRUCTION SHEET



LIGHTBAR EXTERIOR CABLE JUNCTION BOX

Code 3,® Inc., a subsidiary of
Public Safety Equipment, Inc.

CODE 3[®]
PUBLIC SAFETY EQUIPMENT, INC.

Introduction

This product provides a means to electrically connect a pre-existing lightbar cable to a new lightbar/cable assembly. It is meant to speed the process of upgrading an apparatus with new lighting technology. The junction box is mounted to the underside of the lightbar frame.

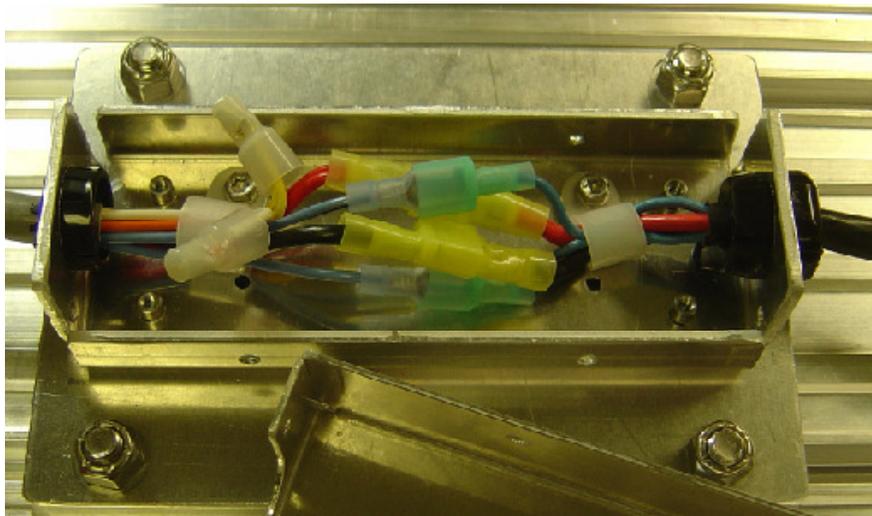
Installation And Wiring

1. Place the new lightbar near the old and determine how much of the existing lightbar cable will be needed to reach the junction box mounted on the new lightbar. Please remember that the junction box can be moved back and forth along the carriage bolt track to meet up with the old cable. Remove the new lightbar temporarily.
2. Trace the lightbar functions of the existing lightbar to the corresponding conductors and note their color (i.e. Red & Red/black wires control outboard rotating lights). Refer to the table on the back side of this sheet to reference some very general Code 3 wiring conventions. Then cut the cable from the existing lightbar where it goes into the lightbar.
3. Remove the existing lightbar. NOTE: The mounting blocks or feet should remain to mount the new lightbar.
4. Determine whether the new lightbar can be mounted directly to the old mounts. The spacing between the carriage bolt tracks on the new lightbar is 3.75". The carriage bolt diameter is 5/16". Make any modifications necessary (new mounts, drill new holes, etc) and make sure the new lightbar can be mounted. Do not mount the bar at this time.
5. Place the new lightbar upside down near where it will be mounted (put something down to protect the top of lenses from being scratched).
6. Strip the cable jacket of the existing cable back far enough to expose approximately 3" of the conductors. Refer to the wire tag (found on the cable of the new bar) for functions and their corresponding conductor (and color wire).
7. Strip the conductors that will be used to connect to the new bar about 3/8" to allow crimping of a spade terminal. Connect the supplied terminals to the conductors (multiple if necessary) using a crimping tool (not provided). All other conductors should be terminated with wire nuts or crimp caps (some provided). If they are not covered, they may create a short in the junction box.

IMPORTANT: Read all instructions and warnings before installing and using.
INSTALLER: This manual must be delivered to the end user of this equip-

Wire Color	Gauge	Typical Function	Comment
Red	10 Ga.	Rotating Lights	Only found in a 4-wire cable
Black	10 Ga.	Ground	Could also be 8 Ga.
Red	14 Ga.	Rotating Lights - Outboard or DS / Strobe - main power	May also control LED's
Red/black	14 Ga.	Rotating Lights - Inboard or PS / Strobe - main power	May also control LED's
Blue	16 Ga.	Speaker or Center section lights	
Blue/black	16 Ga.	Speaker or Center section lights	
Orange	16 Ga.	Stationary Flashing light/flasher	
White	16 Ga.	Stationary Flashing light/flasher	
Orange/black	16 Ga.	Takedown lights	
White/black	16 Ga.	Intersection lights	
Green	16 Ga.	Strobe control	
Green/black	16 Ga.	Strobe control	
Yellow	16 Ga.	DS Alley light	
Yellow/black	16 Ga.	PS Alley light	

8. Connect newly terminated conductors of existing cable to lightbar cable making sure that switch functions match up with lightbar components. The junction box assembly should look similar to the picture below.
9. Place junction box cover onto the assembly making sure that no conductors are pinched. Screw cover to junction box.
10. Turn bar right side up and place onto existing mounting. Test the new lightbar before fastening the lightbar to the mounting.



PRODUCT RETURNS

In order to provide you with faster service, if you are going to return a product for repair or replacement*, please contact our factory to obtain a Return Authorization Number (RA number) before you ship the product to Code 3, Inc.. Write the RA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

*Code 3, Inc. reserves the right to repair or replace product at its discretion. Code 3, Inc. assumes no responsibility or liability for expenses incurred for the removal and/or reinstallation of products requiring service and/or repair.

PROBLEMS OR QUESTIONS? CALL OUR TECHNICAL ASSISTANCE HOTLINE (314) 996-2800

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