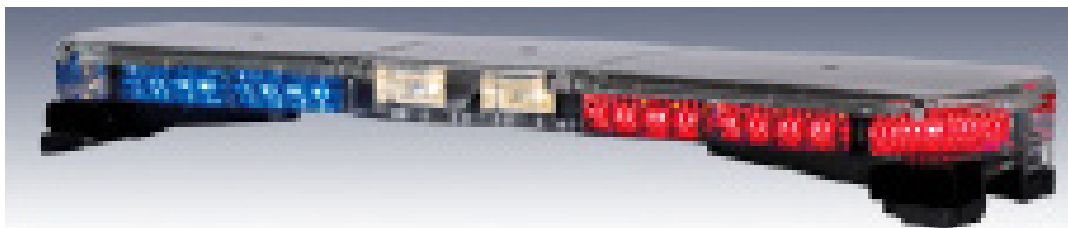


# INSTALLATION & OPERATION MANUAL



FOR RX 2700™  
LIGHTBAR WITH CENTRAL  
CONTROLLER



# RX 2700™

## CENTRAL CONTROLLER LIGHT BAR

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For future reference record your lightbar's serial no. here \_\_\_\_\_

**IMPORTANT:** *Read all instruction and warnings before installing and using.*  
**INSTALLER:** *This manual must be delivered to the end user of this equipment.*

## Introduction

The RX 2700™ Lightbar is approximately 2.7" high, yet delivers 360° of unobstructed warning signal. PriZm™ reflector technology means more signal power and versatility than any other lightbar of its size.

The low profile and aerodynamic lines reduce air drag, which results in fuel savings and stability at high speeds. This lightbar has a strong extruded internal frame, shock-resistant polycarbonate lenses, and warning signals that exceed SAE standards.

The RX 2700 is designed on a modular basis, which means that the lightbar can be customized to meet any requirement. The RX 2700 has room for numerous halogen and LED options. While we do not recommend a light installed in every location, the design of the RX 2700 offers the ultimate flexibility in the location of warning and auxiliary lights.



The use of this or any warning device does not ensure that all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.

The effectiveness of this warning device is highly dependent upon correct mounting and wiring. Read and follow the manufacturer's instructions before installing or using this device. The vehicle operator should insure daily that all features of the device operate correctly. In use, the vehicle operator should insure the projection of the warning signal is not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions.

This equipment is intended for use by authorized personnel only. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should check all applicable city, state and federal laws and regulations.

Code 3, Inc., assumes no liability for any loss resulting from the use of this warning device.

Proper installation is vital to the performance of this warning device and the safe operation of the emergency vehicle. It is important to recognize that the operator of the emergency vehicle is under psychological and physiological stress caused by the emergency situation. The warning device should be installed in such a manner as to: A) Not reduce the output performance of the system, B) Place the controls within convenient reach of the operator so that he can operate the system without losing eye contact with the roadway.

Emergency warning devices often require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.

**PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO ENSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.**

## Unpacking & Pre-Installation

Carefully remove the lightbar and place it on a flat surface, taking care not to scratch the lenses or damage the cable coming out of the bottom. Examine the unit for transit damage, broken lamps, etc. Report any damage to the carrier and keep the shipping carton.

Standard lightbars are built to operate on 12 volt D.C. negative ground (earth) vehicles. If you have an electrical system other than 12 volt D.C. negative ground (earth), and have not ordered a specially wired lightbar, contact the factory for instructions.

Test the unit before installation. To test, touch the black wire to the ground (earth) and the other wires to +12 volts D.C., in accordance with the instructions attached to the cable (an automotive battery is preferable for this test). A battery charger may be used, but please note that some electronic options (flashers, etc.) may not operate normally when powered by a battery charger. If problems occur at this point, contact the factory.

**WARNING!**



Utilizing non-factory supplied screws and/or mounting brackets and/or the improper number of screws may result in loss of warranty coverage on the equipment.

## Installation & Mounting

**MOUNTING HARDWARE** - Mounting hardware is usually packed in a small box inside the main carton although some mounting kits may be shipped separately. Refer to the Installation Manual included in the mounting kit for mounting instructions. **Note:** Hook-on mounting for "gutterless" type vehicles will require a special hook for mounting. Several special application hooks are available. Contact the factory for details.

## Wiring Instructions

Before attempting to connect wiring, refer to wire tag attached to the lightbar's main cable. Each wire in the cable controls a separate function of the Central Controller as described in the wire tag.

The RX 2700™ with Central Controller provides an ArrowStik® function as an optional feature. Connect the appropriate control wires to any control switch capable of providing +power at approximately 25ma current. As noted in the wire description, connecting both the LEFT Arrow and RIGHT Arrow wire to +power at the same time enables the Center-Out ArrowStik function.



Larger wires and tight connections will provide longer service life for components. For high current wires it is highly recommended that terminal blocks or soldered connections be used with shrink tubing to protect the connections. Do not use insulation displacement connectors (e.g. 3M® Scotchlock type connectors). Route wiring using grommets and sealant when passing through compartment walls. Minimize the number of splices to reduce voltage drop. High ambient temperatures (e.g. underhood) will significantly reduce the current carrying capacity of wires, fuses, and circuit breakers. Use "SXL" type wire in engine compartment. All wiring should conform to the minimum wire size and other recommendations of the manufacturer and be protected from moving parts and hot surfaces. Looms, grommets, cable ties, and similar installation hardware should be used to anchor and protect all wiring. Fuses or circuit breakers should be located as close to the power takeoff points as possible and properly sized to protect the wiring and devices. Particular attention should be paid to the location and method of making electrical connections and splices to protect these points from corrosion and loss of conductivity. Ground terminations should only be made to substantial chassis components, preferably directly to the vehicle battery. The user should install a fuse sized to approximately 125% of the maximum Amp capacity in the supply line to protect against short circuits. For example, a 30 Amp fuse should carry a maximum of 24 Amps. **DO NOT USE 1/4" DIAMETER GLASS FUSES AS THEY ARE NOT SUITABLE FOR CONTINUOUS DUTY IN SIZES ABOVE 15 AMPS.** Circuit breakers are very sensitive to high temperatures and will "false trip" when mounted in hot environments or operated close to their capacity.

## Optional LED ArrowStik® feature

The CODE 3 Central Controller has an optional programmable ArrowStik® feature integrated into the light bar. The ArrowStik® operates independently of the other features of the Central Controller. **Refer to the ArrowStik® Programming section of this manual for detailed information on pattern selection and operation instruction.**



This Product contains high intensity LED devices. To prevent eye damage, DO NOT stare into light beam at close range.

## OPTIONS & SPECIFICATIONS

Many options are available for the RX 2700™. This section is designed to describe the function of the various options.

### LED WARNING MODULES

#### Fusing Considerations

The RX 2700 Lightbar with Central Controller should be installed with an external fuse or circuit breaker in the RED lead of the two conductor 10 AWG power cable. If the lightbar is equipped with LIT3 mounting kit with external Halogen Takedown and Alley Lights, the recommend external fuse size is 50A. If the lightbar is not equipped with LIT3 mounting kit with external Halogen Takedown and Alley Lights, the recommend external fuse size is 30A. The Alley Lights and the Takedown Lights are protected by two 20A mini-ATO style fuses located on the Central Controller board. The internal circuitry of the Central Controller is reverse polarity and over current protected by automatically resetting solid state fuses. Each LED output on the Central Controller board is protected against over current and over heating with automatically resetting output devices.

#### Dim Operation

Lightbar LED modules are equipped with a low power "Dimming" mode. Dimming will be controlled by applying +12V by way of the appropriate wire(color) in the wire harness/wire list. When DIM is engaged, the LED's will operate in a reduced power mode. **Note: the corner mounted lighthoods are excepted from this function and will not dim.** Please contact the factory if more information is needed concerning the dimming mode.



The Dim setting reduces the light output of emergency warning lights reducing the effectiveness of them especially in brightly lit areas. Failure to use adequate light for the circumstances can cause motorists to fail to see the emergency vehicle and lead to serious personal injury or death. Never use the DIM setting in a brightly lit area. Use of the DIM setting may cause emergency lights to not comply with applicable emergency warning light standards. Use caution when using the DIM setting to assure that motorists can clearly see the emergency vehicle.

### Code 3® PriZm™ LED Reflector 360° Corner Modules

The RX 2700 Lightbar is equipped with new Code 3® PriZm LED Reflector 360° corner LED modules that provide a full 360 degrees of warning. The lighthood has been designed to exceed all applicable requirements for 360° warning devices in Red, Blue, Amber and White.

#### **Operating Specifications for 360° module:**

Operating Voltage: 10-16 VDC, Reverse Polarity Protection  
Current Draw : Red/Amber - .5A avg @ 12.8 Volts  
Blue/White - .8A avg @ 12.8 Volts  
Available Colors - Red, Blue, Amber and White

#### **360° Modules**

To ensure compliance with SAE and CA Title 13 requirements, the 360° Modules (corners) are PriZm™ 12-LED Reflector lighthoods.

### LED TAKEDOWN & ALLEY MODULES

In addition to the LED warning modules the lightbar may be equipped with optional LED Takedown and Alley modules. These modules provide equivalent performance to standard 50W MR16 Halogen lamps. Lamp replacement is not required due to long life LEDs.

#### **Operating Specifications for LED Takedown & Alley modules:**

**Operating Voltage:** 10-16 VDC, Reverse Polarity Protection  
**Current Draw:** 1.5A  
**Available Colors:** White

## LED DIRECTIONAL MODULES

In addition to the 360° warning modules the lightbar may be equipped with a number of single head front-rear warning LED modules. These modules are available in either the, PriZm 8-LED Reflector, PriZm 3-LED Reflector, 3-LED OLP OPTIX (dual stack 3-LED lighthead).

### Operating Specifications for front-rear module:

Operating Voltage: 10-16 VDC, Reverse Polarity Protection

Current Draw : Standby 16ma

Flashing Module:

Red/Amber - .25A avg @ 12.8 Volts

Blue/White - .4A avg @ 12.8 Volts

Steady Burn Module:

Red/Amber - .5A avg @ 12.8 Volts

Blue/White - .8A avg @ 12.8 Volts

Available Colors: Red , Blue, Amber, and White

The flash pattern for these modules is chosen by the following procedure:

### Selecting Flash Patterns

The Pattern Select wire is the BLK/RED wire in the sixteen conductor lightbar control cable and is activated by momentarily touching the wire to +power.

#### STEP 1

Power-up the lightbar and select the Level-1 flash mode by applying +power to the GRN/BLK wire in the 16 conductor control cable.

#### STEP 2

Observe the flashing pattern operation and determine which pattern is in operation for Level-1. Refer to Table 1A. This table shows the available flash patterns. Note: the Factory Default is different and identified in the table for each of the flash mode Levels (L1, L2, L3). Once the flash pattern has been determined, proceed to Step 3.

#### STEP 3

Scroll to the next flash pattern by momentarily holding the Pattern Select wire (BLK/RED) to +power for ~1 sec, until the lightbar LEDs switches flash patterns, and then releasing it. This will step to the next pattern in numbered order as listed in Table 1A for the selected 3-Level mode. The new pattern is automatically stored each time. Repeat this procedure for Level-2 and Level-3.

**Note: HOLD the Pattern Select wire to the +POWER source for about 1 second and release then observe that the flash pattern has changed to the next pattern in the sequence. To restore the Factory Default Emergency Warning Flash Patterns, hold the Pattern Select wire on the +POWER source for ~four (4) seconds while L1, L2 or L3 is enabled.**

Note: All control inputs are +power enabled.

### Control Input Function Definitions

Wire Color	Function	Description
GRN/BLK	Level 1	Level 1 Emergency Mode
WHT/BLK	Level 2	Level 2 Emergency Mode
RED/BLK	Level 3	Level 3 Emergency Mode
ORG/BLK	Takedown lights	Takedown Lights Steady Burn (overrides Takedown Flash)
BLU/BLK	Rear Cut-Off	Blacks-Out Rear Facing LEDs
GRN/WHT	Front Cut-Off	Blacks-Out Front Facing LEDs
RED/WHT	Right Alley Light	Right Alley Steady Burn (overrides Alley Light Flash)
BLK/WHT	Left Alley Light	Left Alley Steady Burn (overrides Alley Light Flash)
WHT	ArrowStik Flash	ArrowStik Flash (overrides L1, L2 & L3 for rear of light bar)
BLK/RED**	Pattern Select	Pattern Select for ArrowStik, L1, L2 & L3, enables test mode)
BLK	Takedown Flash	Enables Takedown Lights Wig/Wag Flash
RED*	ArrowStik Left	Left ArrowStik (overrides L1, L2 & L3 for rear of light bar)
GRN	Cruise Lights	End LEDs only (overridden by all other functions)
ORG*	ArrowStik Right	Right ArrowStik (overrides L1, L2 & L3 for rear of light bar)
BLU	Light bar DIM	Sets LED to Dim mode
BLU/WHT	Alley Light Flash	Enables Alley Light Wig/Wag Flash

Notes: \*When the Pattern Select wire is connected to +power when all other inputs are off, test mode is enabled to exercise all outputs in sequence until +power is removed from the wire.

\*\*When the ArrowStik Left and ArrowStik Right wires are both connected to +power, the Center-Out ArrowStik function is activated.

The priority for the 3-Level inputs is L3, L2 then L1 in that order. In other words, if power is applied to both the L1 and L2 inputs, the L2 function will be enabled.

If the lightbar is equipped with Steady Burning LED light heads, these heads are enabled with the 3-Level input wires. The jumper plug must be moved to JP1, JP2 or JP3 to select the 3-Level input which will enable the Steady Burning LED heads, (see Figure 1).

The Steady Burn function for both the Takedown and Alley lights will always override the Wig/Wag Flash function.

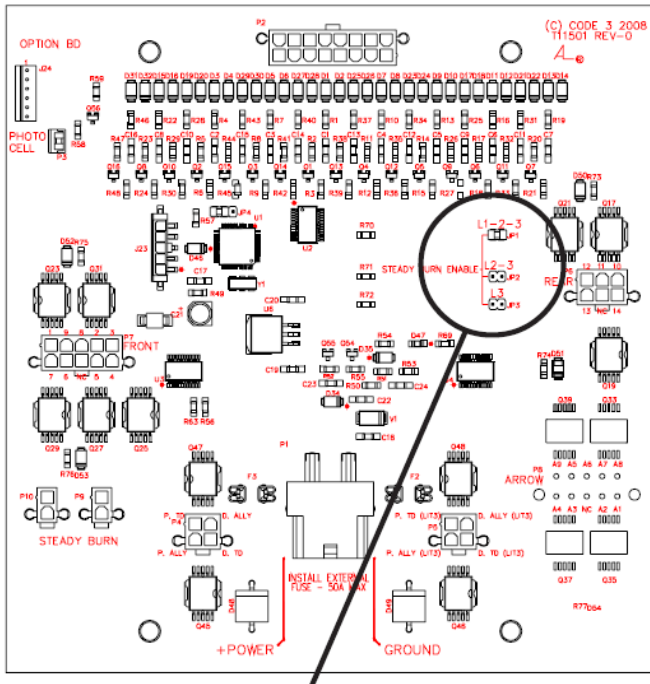
The Cruise Light function is mutually exclusive with all other functions. If any other input has +power applied, the Cruise Lights will be turned off.

The Dim function sets the brightness of the LEDs in both the ArrowStik mode and Emergency Warning Flash mode.

The Front Cut and Rear Cut functions must be used with the greatest care to ensure that the use of these functions does not diminish the effectiveness of the Emergency Warning signal.

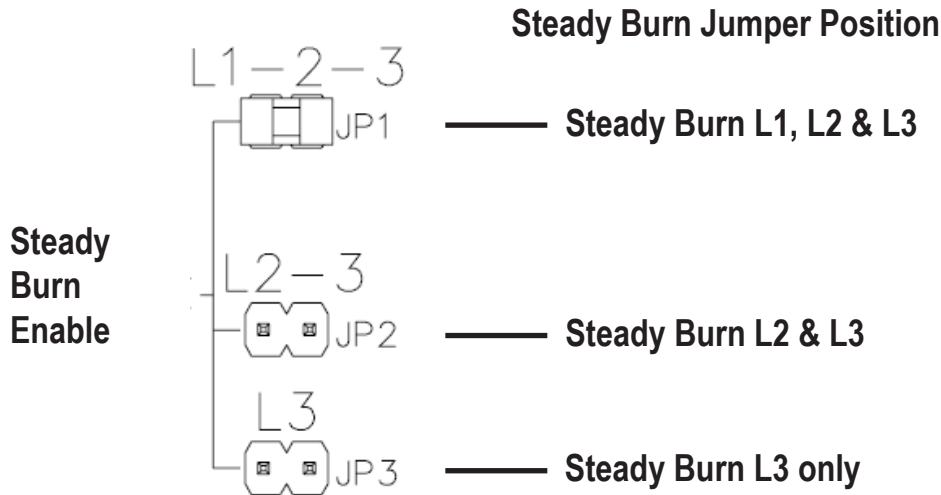
Factory Default	Lighting Level			Flash Pattern Description
	L1	L2	L3	
<b>Factory Default Level 2</b>	14	1	4	Fast Alternating Quad Flash
	15	2	5	Alternating Two Flash
	16	3	6	Alternating Single Flash
	17	4	7	Fast Picket Fense Quad Flash
	18	5	8	Slow Picket Fense Quad Flash
	19	6	9	Alternating Quad Flash
	20	7	10	Slow Alternating Six Flash
	21	8	11	Alternating Six Flash
	22	9	12	Variable Rate Even/Odd Flash
	23	10	13	Alternating Quad Flash 75 FPM (NFPA)
<b>Factory Default Level 1</b>	1	11	14	Fast Alternating Quad Flash (Rear Only)
	2	12	15	Fast Even/Odd Quad Flash (Rear Only)
	3	13	16	Alternating Quad Flash (Rear Only)
	4	14	17	Slow Alternating Six Flash (Rear Only)
	5	15	18	Variable Rate Even/Odd Head Flash (Rear Only)
	6	16	19	Fast Alternating Quad Flash (Front Only)
	7	17	20	Fast Even/Odd Quad Flash (Front Only)
	8	18	21	Alternating Quad Flash (Front Only)
	9	19	22	Fast Alternating Six Flash (Front Only)
	10	20	23	Variable Rate Even/Odd Head Flash (Front Only)
<b>Factory Default Level 3</b>	11	21	1	Cycle Flash (cycles through multiple flash patterns)
	12	22	2	Simultaneous Quad Flash (all LEDs) 75 FPM (NFPA)
	13	23	3	Null Flash (no flashing LEDs - only Steady Burns if equipped)

Table 1A



The Central Controller's Steady Burn feature allows up to two (2) of the light bar's LED modules to be designated to operate in Steady Burn mode. The Steady Burn LED modules are always connected to connectors P9 & P10.

The Steady Burn outputs are enabled by the 3-Level control inputs. The Central Controller may be configured so that Steady Burn LEDs are on when either L1, L2 or L3 are active (JP1 position); when L2 or L3 are active (JP2 position) or just when L3 is active (JP3 position). Simply move the jumper to the appropriate location (JP1, JP2 or JP3). Refer to the detail in Figure 1.



**FIGURE 1**

## ArrowStik™ Pattern Selection

### Introduction

The Central Controller is designed to offer user selectable traffic directing signals and traffic warning options. This allows the greatest flexibility when controlling the various RX 2700 configurations available. The end user can match the desired signal to a particular lightbar configuration whether it is a 6, 7 or 8 lighthead configuration.

The lightbar will come from the factory with the default patterns selected as indicated in Table 2. The default configuration will be for a 7 head system with all building patterns ( Building 7 HD ). If it is desired to change the pattern in any of the modes ( LEFT, CTR, RIGHT or FLASH ) or if you have other than a 7 head system ( 6 or 8 head ) and you want to optimize the patterns for your particular configuration, then follow the programming procedure outlined.

## Traffic Directing / Traffic Warning Pattern Options

Mode	LEFT	CENTER-OUT	RIGHT	FLASH
1.	Building 8HD, Fast	Building 8HD, Fast	Building 8HD, Fast	Quad Flash Standard Simultaneous Flash* Quad FI Simultaneous Even/Odd Flash*
2.	Building 8HD, 3 Flash	Building 8HD, 3 Flash	Building 8HD, 3 Flash	
3.	Traveling Ball 8HD, 3 Flash	Traveling Ball 8HD, 3 Flash	Traveling Ball 8HD, 3 Flash	
4.	Build/Collapse 8HD	Build/Collapse 8HD	Build/Collapse 8HD	
5.	Building 6HD, Fast	Building 6HD, Fast	Building 6HD, Fast	Quad FI Even/Odd Left/Right Flash* Quad FI Left/Right Traveling Ball Flash*
6.	Building 6HD, 3 Flash	Building 6HD, 3 Flash	Building 6HD, 3 Flash	
7.	Traveling Ball 6HD, 3 Flash	Traveling Ball 6HD, 3 Flash	Traveling Ball 6HD, 3 Flash	
8.	Build/Collapse 6HD	Build/Collapse 6HD	Build/Collapse 6HD	
<b>(Factory Default) 9.</b>	<b>Building 6HD, Fast</b>	<b>Building 6HD, Fast</b>	<b>Building 6HD, Fast</b>	<b>Standard Flash*</b>
10.	Building 6HD, 3 Flash	Building 6HD, 3 Flash	Building 6HD, 3 Flash	
11.	Traveling Ball 6HD, 3 Flash	Traveling Ball 6HD, 3 Flash	Traveling Ball 6HD, 3 Flash	
12.	Build/Collapse 6HD	Build/Collapse 6HD	Build/Collapse 6HD	

### Selecting the ArrowStik™ Pattern

As mentioned previously, the Central Controller will come from the factory with the ArrowStik patterns set in the default configuration which, is the Building 7HD configuration. See Table 2. The current configuration can be determined by observing the operation of the ArrowStik™ unit. Note that Flash Signal Patterns marked with an Asterisk "\*" are available in Fast, Medium or Slow flash rate.

**Note: It will be important to observe the operation of the ArrowStik unit during the programming procedure while stepping through the signal options. Signals are available for 6, 7 or 8 head configurations. Also refer to the traffic directing signal options in Table 2 for the following procedure.**

The Pattern Select wire is the BLK/RED wire in the sixteen conductor lightbar control cable and is activated by momentarily touching the wire to +power.

#### STEP 1

Power-up the lightbar and select the ArrowStik mode that you wish to program (LEFT, CENTER-OUT, RIGHT or FLASH).

#### STEP 2

Observe the ArrowStik operation and determine the current mode. Determine what pattern and configuration the control head is currently in, if not in the factory default.

Once the pattern / configuration has been determined, proceed to Step 3.

#### STEP 3

Refer to Table 2, on Page 8. This table shows the available patterns for each mode and their order in program memory. Notice that for the LEFT, CENTER-OUT and RIGHT positions there are four (4) pattern choices; Building, Building with 3 Flash for the end lights, Build/Collapse with 3 flash for the end lights, and Build/Collapse with no end flash, three (3) configurations for the number of heads; 6, 7, or 8 HD and three (3) speeds; Fast, Medium and Slow. There are a total of twelve possible selections for each configuration of light heads and then you return to the top selection, Building 8 HD, Fast. Starting from the first pattern in Table 1 you can step through each pattern, ( 1-4 ) for an 8HD, ( 5-8 ) for a 6HD and ( 9-12 ) for a 7 HD configuration, by momentarily holding the Pattern Select wire to +power for 1-2 sec, until the Arrowstik™ LEDs stop, and then releasing. This will step to the next pattern in Table 2 for the selected mode. The new pattern is automatically stored each time.

**Note: HOLD the Pattern Select wire to +POWER source until you are sure Arrowstik™ pattern has changed (~1 second) before releasing the wire from the +POWER source. To restore the Factory Default Arrowstik™ patterns, hold the PGM wire on the +POWER source for ~four (4) seconds.**

When the FLSH function is selected, the same procedure applies as above, but you will notice in Table 2 that the patterns are not grouped by the number of heads or outputs. These are traffic warning patterns and work equally well for any configuration of LED modules. There are a total of nine ( 1-9 ) traffic warning patterns available. Flash patterns marked with an asterisk "\*" may also be selectable in Fast, Medium or Slow flash rate. When you have programmed the desired pattern for the selected function, proceed to Step 4.

#### STEP 4

Select another mode and repeat the previous steps until all of the functions are programmed as desired.

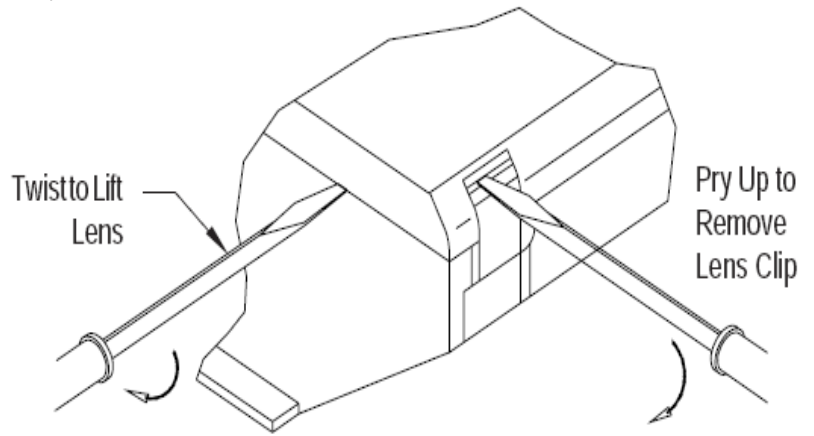
# Maintenance

## Lens Cleaning

Use plain water and a soft cloth, or Code 3® lens polish and a very soft paper towel or facial tissue. Plastic scratches easily, as a result, cleaning is recommended only when necessary (about every six months). Do not subject the lenses to car washes that use brushes, as these will scratch the lenses.

## Lens Removal

First, disengage the lens clips (4 per lens) as shown in Figure 2. Finally, insert a screwdriver into the small slot in the lens clip pocket for the lens edge, and twist the screwdriver to lift the lens.



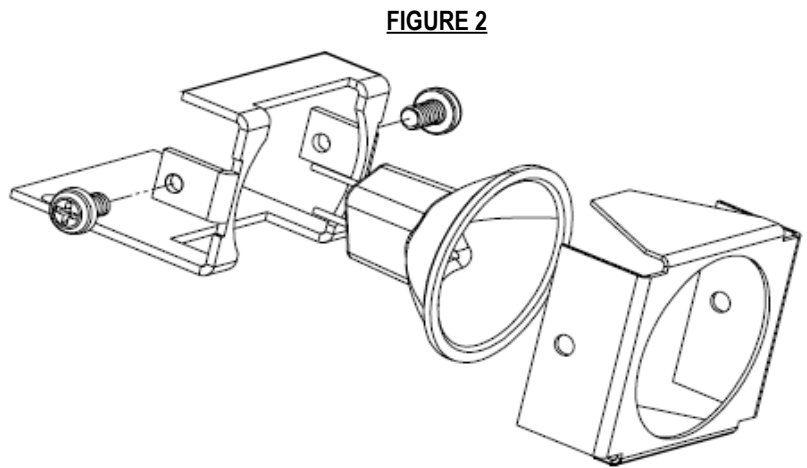
## Lamp Replacement

Remove the lens as outlined above. Next, inspect the lamp and refer below to replace the lamp.

Note: Make sure lamp is cool before attempting to change it. Also, when installing a new lamp, be sure not to touch the glass with fingers. If contact is made, clean the glass with a soft cloth after inspection.

## MR-11 Style Assembly

For MR-11 style alley light assemblies refer to Figure 3 for lamp replacement. Remove the lamp assembly by removing the appropriate fasteners, remove fasteners sandwiching MR-11 in bracket, and remove lamp. Replace the lamp and reassemble.



MR-11 ALLEY ASSEMBLY

FIGURE 3

## H-3 55w Style Assembly

**Caution:** Extreme care must be taken when removing halogen lamps to prevent burns and bursting of glass.

**Step 1** Remove the H-3 55w lighthouse from the lightbar by removing the appropriate fasteners and disconnecting the wiring.

**Step 2** With the lighthouse assembly placed on a work surface with the lighthouse up, remove the four screws that attach the lighthouse to the lightbar mounting bracket (see Figure 4). It is not necessary to remove the heat shield.

**Step 3** Remove the two lamp mounting screws with a Phillips screwdriver (see Figure 5) and remove the lamp.

**Step 4** Replace the lamp and reinstall the two lamp mounting screws making sure to replace and attach the black ground wire with one of the lamp mounting screws.

**Note:** Replacement H-3 55 watt lamps are available from Code 3®, Inc. or you may obtain the lamp from your local auto parts store. If you obtain the lamp from your local auto parts store, it may be necessary to change the terminal on the power wire to mate with the new lamp's terminal (depending on the lamp manufacturer). This terminal (fully insulated 1/4" female quickslide) is also available at your local auto parts or hardware store.

**Step 6** Reinstall the 55w lighthouse to the lightbar mounting bracket with the four screws previously removed.

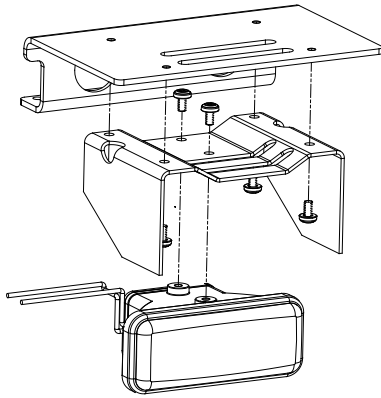
**Step 7** Remount the 55w lighthouse assembly in the lightbar and reconnect the wiring.

Use the same procedure to replace the lamp for the 55w Dual Lighthouse assembly (see Figure 6).

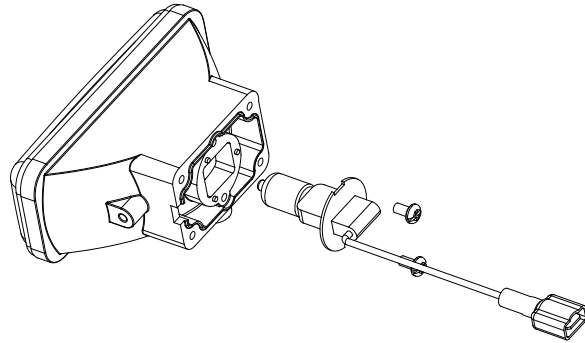
**WARNING!**



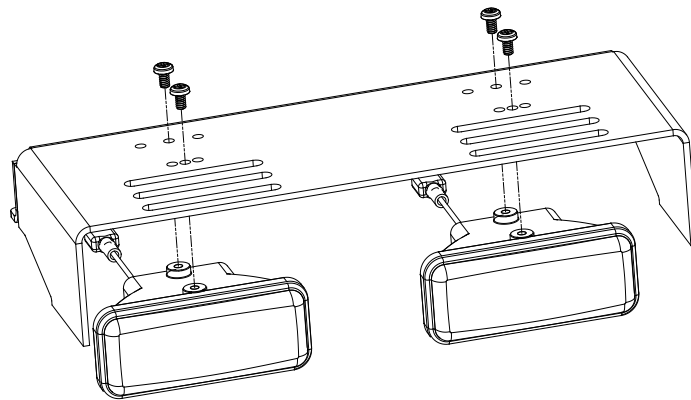
Lamps are extremely hot! Allow to cool completely before attempting to remove. Gloves and eye protection should be worn when handling halogen lamps as they are pressurized and accidental breakage can result in flying glass.



**FIGURE 4**

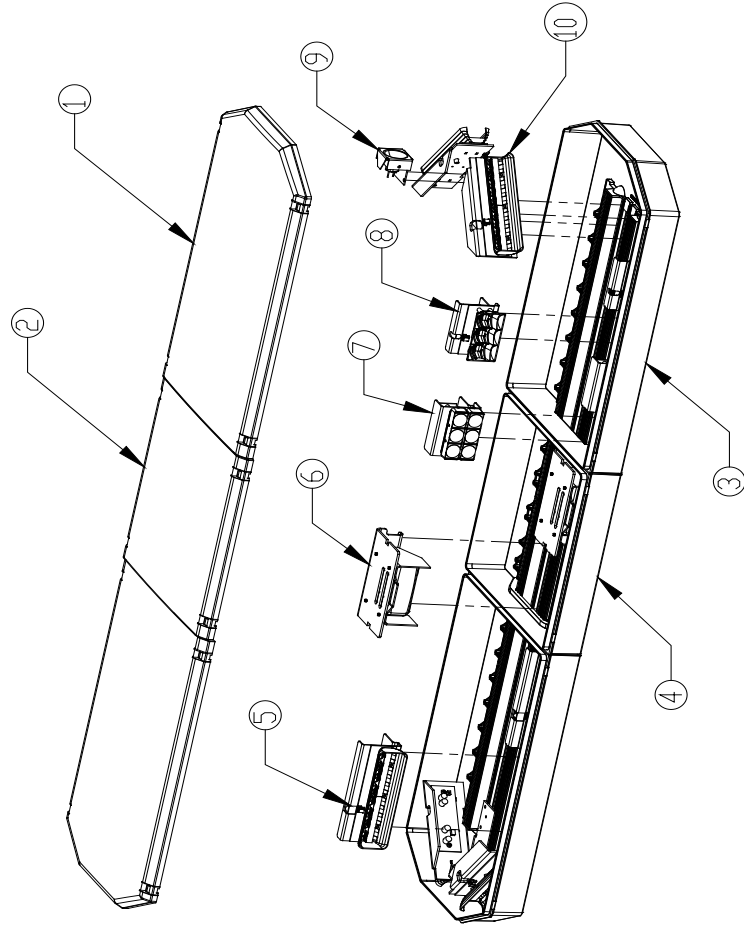


**FIGURE 5**



**FIGURE 6**

# RX 2700™ EXPLODED VIEW



## Parts List

(Reference numbers identify items shown in Figure 7)

<u>Ref No.</u>	<u>Description</u>	<u>Part No.</u>
1	Outboard Lens Cap Clear	T03271
	Red	T03272
	Blue	T03273
	Amber	T03274
2	Center Lens Cap Clear	T03281
	Red	T03282
	Blue	T03283
	Amber	T03284
3	Bottom Outboard Lens - Clear	T51041
4	Bottom Center Lens - Clear	T09959
	Lens Clip	T01777
5	8-LED Reflector Light head Red	<b>CALL FACTORY</b>
	Blue	
	Amber	
7	3-LED Dual Stack Light head Red/Amber	
	Blue/Amber	
	Red/Blue	
8	3-LED Reflector Light head Red	
	Blue	
	Amber	
10	12-LED Corner Reflector Light head Dual Driver Side Red	
	Blue	
	12-LED Corner Reflector Light head Dual Passenger Side Red	
	Blue	
	55W Stationary Module	S27251M
6	55W Dual Stationary Module	S27295M
9	MR11 35W Alley Module	S22513M
11	PCB, Central Controller	T11523
	PCB, Central Controller with ArrowStik control	T11522

# Troubleshooting

All RX 2700™ Lightbars are thoroughly tested prior to shipment. However, should you encounter a problem during installation or during the life of the product, follow the guide below for information on repair and troubleshooting. Additional information may be obtained from the factory technical help line at 314-996-2800.

## LED MODULE TROUBLESHOOTING GUIDE

**Note:** LED modules must be replaced as a module. There are no user serviceable parts.

PROBLEM	QUESTIONS	POSSIBLE CASUE	SOLUTION
LED directional module not operating	Are all head out in front or in back, and not just a single directional module out?  Yes  No	a. Front and/or rear cut function powered  a. Defective module b. Cable/Connector unplugged	a. Remove power (turn off) Front and/or Rear Cut  a. Replace module. b. Check cable & connector
LED corner module has on head out.	N/A	a. Defective module b. Cable/Connector unplugged	a. Replace module. b. Check cable & connector
Cruise Lights do not operate	N/A	a. No power on Cruise wire b. Another central controller function is on.	a. Connect Cruise wire to switch b. Turn off other functions.

**Notes:**

**Notes:**

# WARRANTY

Code 3®, Inc.'s emergency devices are tested and found to be operational at the time of manufacture. Provided they are installed and operated in accordance with manufacturer's recommendations, Code 3®, Inc. guarantees all parts and components except the lamps to a period of 1 year, LED Lighthouse modules to a period of 5 years (unless otherwise expressed) from the date of purchase or delivery, whichever is later. Units demonstrated to be defective within the warranty period will be repaired or replaced at the factory service center at no cost.

Use of lamp or other electrical load of a wattage higher than installed or recommended by the factory, or use of inappropriate or inadequate wiring or circuit protection causes this warranty to become void. Failure or destruction of the product resulting from abuse or unusual use and/or accidents is not covered by this warranty. Code 3®, Inc. shall in no way be liable for other damages including consequential, indirect or special damages whether loss is due to negligence or breach of warranty.

**CODE 3®, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS OR MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT.**

# PRODUCT RETURNS

If a product must be returned for repair or replacement\*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3®, Inc. Write the RGA 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 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.; nor for the packaging, handling, and shipping; nor for the handling of products returned to sender after the service has been rendered.

**Problems or Questions? Call The Technical Assistance HOTLINE - (314) 996-2800**



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