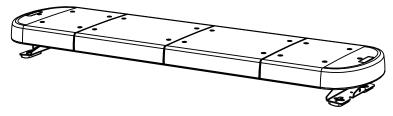


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SNLBL5 Exterior LED Lightbar



IMPORTANT NOTICE TO INSTALLER: Make sure to read and understand all instructions and warnings before proceeding with the installation of this product. Ensure that the manual and any warning cards are delivered to the end user of this equipment. Proper installation of the lightbar requires the installer to have a thorough knowledge of automotive electronics, systems, and procedures. Lightbars provide an essential function of an effective visual warning system. The use of the lightbar does not insure that all drivers can or will abide by or react to an emergency warning signal, especially at high rates of speeds or long distances. The operator of the vehicle must never take the right of way for granted and it is the operator's responsibility to proceed safely. The effectiveness of the lightbar is highly dependent on the correct mounting and wiring. The installer must read and follow the manufacturer's installation instructions and warnings in the manual. The vehicle operator should verify daily that the lightbar is securely fastened to the vehicle and properly functioning before operating vehicle. The lightbar is intended for use by authorized personnel only. It is the user's responsibility to ensure they understand and operate the emergency warning devices in compliance with the applicable city, state and federal laws and regulations. SIRENNET.COM assumes no liability for any loss resulting from the use of this warning device.

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ı	COMPONENTS	CONTENTS

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Components/Contents

Standard Equipment:

1 - SNLBL5 Exterior LED Lightbar built to your specifications

Other Parts that may be included depending on your configuration: 1 - Vehicle Specific Hook Kit w/ Hardware*

- 2 Fixed Height Mounting Brackets w/ Hardware or
- 1 Flat Mount Hardware Kit or
- 2 Headache Brackets w/ Hardware

*Kits will vary with each lightbar depending on vehicle specified on order

Unpack Lightbar

- 1. Remove the lightbar from box and packaging.
- Save packaging for later shipping.
 Check components/contents.
- 4. Please reference these instructions for proper wiring and installation.

Tools Required for Installation

- 1/2" Socket with ratchet or 1/2" box end
- Phillips Head ScrewdriverDrill bit #30

Important Information:

- Warning devices are strictly regulated and governed by Federal, State and Municipal ordinances. These devices shall be used ONLY on approved vehicles. It is the sole responsibility of the user of these devices to ensure compliance.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to your vehicle Owner's Manual for the location of any air bag deployment zones.
- DO NOT connect this device to a strobe power supply. This product is self-contained and does not require an external power supply.



IMPORTANT INFORMATION:

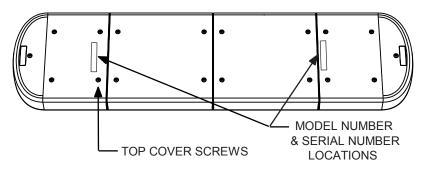
SNLBL5 Exterior LED Lightbar

Fusion Boost 6 LED Inboard Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.5 Amps @ 12.8 Vdc (Flashing) 1.0 Amps @ 12.8 Vdc (Steady On) WATTAGE: 6.4W (Flashing)
Fusion 12 LED Corner Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.8 Amps @ 12.8 Vdc (Flashing) 1.6 Amps @ 12.8 Vdc (Steady On) WATTAGE: 10.2W (Flashing)
Turbo Optic 3 LED Inboard Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.25 Amps @ 12.8 Vdc (Flashing) 0.5 Amps @ 12.8 Vdc (Steady On) WATTAGE: 3.2W (Flashing)
Fusion 6 LED Corner Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.5 Amps @ 12.8 Vdc (Flashing) 1.0 Amps @ 12.8 Vdc (Steady On) WATTAGE: 6.4W (Flashing)
Takedown 3 LED Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.21 Amps @ 12.8 Vdc (Flashing) 0.42 Amps @ 12.8 Vdc (Steady On) WATTAGE: 2.7W LIGHT OUTPUT: 240Im
Takedown 6 LED Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.42 Amps @ 12.8 Vdc (Flashing) 0.84 Amps @ 12.8 Vdc (Steady On) WATTAGE: 5.4W LIGHT OUTPUT: 480 lm
Takedown 9 LED Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.63 Amps @ 12.8 Vdc (Flashing) 1.26 Amps @ 12.8 Vdc (Steady On) WATTAGE: 8.1W LIGHT OUTPUT: 720 Im
Alley 3 LED Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.21 Amps @ 12.8 Vdc (Flashing) 0.42 Amps @ 12.8 Vdc (Steady On) WATTAGE: 2.7W LIGHT OUTPUT: 240 lm

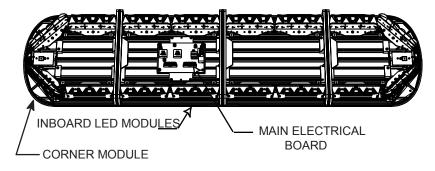
FLASHING = AVERAGE STEADY ON (100%) = PEAK

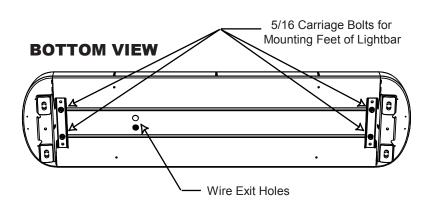
SNLBL5 Exterior LED Lightbar

TOP VIEW WITH COVERS ON



TOP VIEW WITH COVERS OFF



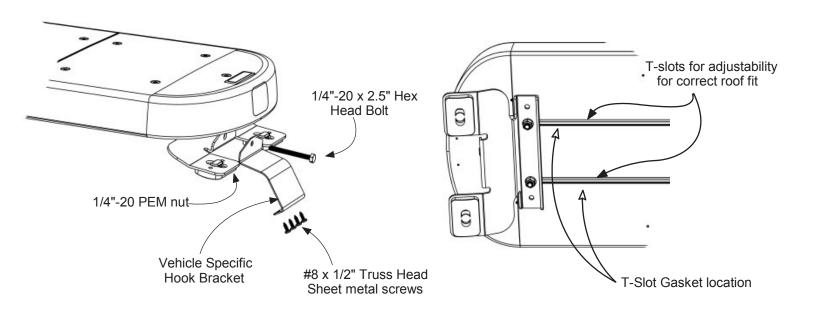


TECHNICA	L SPECIFICAT	TIONS	
Material:	Aluminum Base, Nylon base end caps, polycarbonate outer lenses, acrylic inner lenses.		
Roof Attachments:	1/4" bolt S	tainless A2	
Operating Temperature:	-40° to	+65° C	
LENGTH	# OF INBOARDS	DIMENSIONS	
23"	2		
35.5"	4		
41.8"	5		
48"	6	12.4"D x 2.3H inboard	
54.3"	7		
60.5"	8		
73"	10		

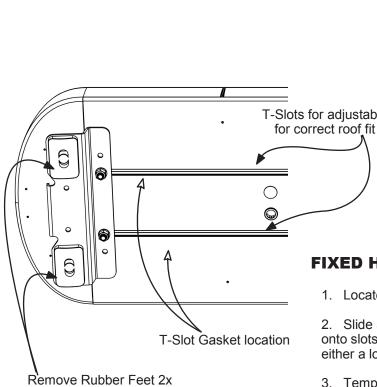
POWER SPECIFICATIONS					
Input Voltage Range:	10 -16 Vdc				
Light Bar Component	Current Draw Power Consumption (Average = Flashing) (Watts)				
Standby Current	.022 Amps .28 Watts				
Reverse Polarity	Fuse Protected				
Load Dump	Protected				
Wiring	Power Cable 15ft 10 AWG V Data Cable 15ft	. ()			

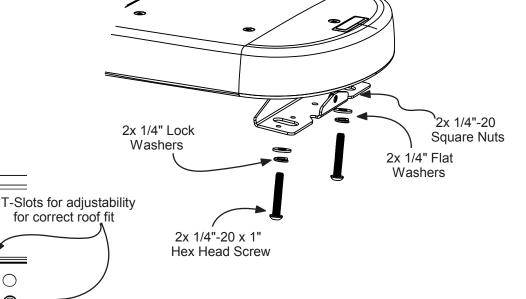
FIXED HEIGHT BRACKETS AND HOOK MOUNTING

- Slide 5/16 carriage bolts into extrusion t-slots. Place mounting foot onto slots and tighten foot with washer and nut, ensuring the use of either a lock washer or lock nut
- 2. Temporarily place lightbar in its correct position on the roof of the vehicle. The bar should be positioned about the center of the vehicle B pillar. Determine the appropriate position of the mounting feet brackets on the lightbar to the vehicle roof and reposition mounting feet as needed.
- 3. Install supplied vehicle specific hook brackets using supplied 1/4"-20 x 2.5 Hex Head bolts onto the bar mounting foot as shown. Nut is attached to mounting foot to prevent turning and improve ease of installation.
- 4. Using the vehicle specific hook brackets as a template, drill 4 pilot holes using a #30 (.128 dia.) drill bit on each side of the vehicle.
- 5. Secure each vehicle specific hook brackets by using the 8 supplied #8 x 1/2" Truss Head Sheetmetal screws, 4 per side.
- 6. Tighten each vehicle specific hook bracket to mounting foot by turning the 1/4" -20 x 2.5 Hex head bolt clockwise until bar is snug and no side to side or fore to aft movement occurs. Tighten to 50 in lbs max.
- 7. Route cables into vehicle. Use supplied rubber grommet in roof for sealing/ protection of wires. It is recommended that silicone be placed around grommet to ensure roof sealing.



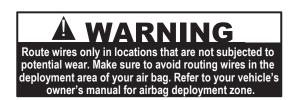






FIXED HEIGHT BRACKETS PERMANENT MOUNTING

- 1. Locate the permanent hardware kit that is included.
- 2. Slide 5/16 carriage bolts into extrusion t-slots. Place mounting foot onto slots and tighten foot with washer and nut, ensuring the use of either a lock washer or lock nut.
- 3. Temporarily place lightbar in its correct position on the roof of the vehicle. The bar should be positioned about the center of the vehicle B pillar. Determine the appropriate position of the mounting feet brackets on the lightbar to the vehicle roof and reposition mounting feet as needed.
- 4. Remove the rubber feet.
- 5. Measure and/or mark the 2 holes in roof to match mounting feet locations. See warning messages below. Drill holes for ½" bolts (F drill).
- 6. Install hardware as shown in image to the left.
- 7. Route cables into vehicle. Use supplied rubber grommet in roof for sealing/ protection of wires. It is recommended that silicone be placed around grommet to ensure roof sealing.





Care must be taken when drilling through the roof of the vehicle not to drill into any existing wiring and not to drill through the headliner or support members of the vehicle. Check both sides of the mounting service prior to drilling. De-burr any holes and remove any metal fragments. Install grommets into all wire passage holes.

ELECTRICAL INSTALLATION

Featured Highlights:

Mode Select: The SNLBL5 Lightbar is equipped with 2 selectable pattern configuration modes via the Mode Select Input. Default is Mode 1 where the input is floating, Mode 2 is in use when the input is activated. This feature allows 2 complete sets of patterns to be programmed into the Lightbar's non- volatile memory. Once programming configuration is complete, the Mode can be changed "on-the-fly" by an activation switch.

Cruise Mode: Allows the user to program any Light Head Group(s) to "Glow" when this feature is activated.

Directional Arrow Built-in: If the lightbar was purchased with a directional arrow, the directional controller is built-in w/4 arrow patterns for each direction and 9 warning patterns for warning functions.

A WARNING

ALL CUSTOMER SUPPLIED POWER WIRES CONNECTING TO THE POSITIVE (+) OR NEGATIVE (-) BATTERY TERMINAL OR LOCAL CHASIS GROUND (-) MUST BE SIZED TO SUPPLY AT LEAST 125% OF THE MAXIMUM CURRENT AND PROPERLY FUSED AT THE POWER SOURCE WITH APPROPIATELY RATED FUSE.

- 1. Route lightbar power cables as close to vehicles power source (battery) as possible.
- 2. Install a 40Amp Fuse (customer supplied) to the end of the RED wire of the Lightbar Power Cable.
 - a. Remove the fuse before connecting any wires to the battery.
 - b. DO NOT USE CIRCUIT BREAKER OR FUSIBLE LINK.
- 3. Connect the other end of the Fuse to the Positive (+) terminal of the battery.
 - a. DO NOT use any more than 2ft of wire between the battery terminal and the fuse. Ensure the wire is protected and secured from being cut into: this non-fused wire.
- 4. Connect the BLACK wire to the factory chassis ground right next to the battery.

Control (Data) Cable:

- 1. Route Lightbar Control Cable to the location where all controlling equipment will be, i.e. switch box, center console area.
- 2. Locate the Breakout Box in the same area to connect wires from the switching equipment to the Breakout Box wire harness. NOTE: Power is supplied to Breakout Box through data cable, no additional power connections necessary.

Initial Power up Test:

- 1. Insert 40 Amp Fuse (not included) into Fuse Holder.
- 2. Plug data jack into Data 1 connector of the Breakout Box.
- 3. Observe the GREEN Data Link indicator LED on the Breakout Box; the LED will turn steady ON about 15 seconds after main power is connected.
- 4. When GREEN LED is steady ON (see below), the lightbar is ready to be configured.

Low Power (Standby) Mode

If there is no output to the breakout box for 15 seconds, the lightbar will go into a "standby" mode. The standby mode is a low power mode that is used to extend the life of your battery. The green light will turn off when the lightbar enters standby mode. The red light will flash every five seconds showing that it has power. The lightbar will awaken from the standby mode if any input is activated on the breakout box.

In standby mode, each switch in the down position will contribute to another 0.03A of standby current.

ELECTRICAL INSTALLATION (CONTINUED)

Flash Pattern Selection

- a. First review the Flash Pattern Table (including on pg. 9) before attempting pattern selection to familiarize yourself with patterns available for the different Functions.
 - i. Depending on the Lightbar configuration purchased, the Arrow Pattern Table may or may not be applicable.
- b. Select the input Function(s) on breakout box (pg. 8) and apply +12V to activate.
 - i. To change patterns on more than one input function, simply connect desired input functions together. Before doing this, make sure all the inputs are using the same pattern table and are on the same pattern to make pattern identification easier.
- c. Momentarily apply +12V to the pattern select input on breakout box to advance to the next pattern.
 - i. Once the last pattern is reached, the next pattern advance will cycle back to pattern #1.
- d. Once the desired pattern is reached, simply disconnect the Input Function(s) and proceed to the next Input Function(s) to be configured.
 - i. The pattern is saved in non-volatile memory every time it is advanced.

Mode Configuration:

- a. Mode 1 (Default): the Mode Select Input will be floating (no-connection)
 - i. Continue on to Pattern Selection instructions (pg. 9) to set the patterns for this Mode.
- b. Mode 2: apply + 12V to activate Mode 2. This will need to be activated to configure the lightbar in Mode 2.
 - i. Continue on to Pattern Selection instructions (pg. 9) to set the patterns for this Mode.
 - ii. Once patterns have been setup, connect Mode Select Input to switching system.
 - iii. When the Mode Select Input is activated, the Mode 2 Patterns will flash.

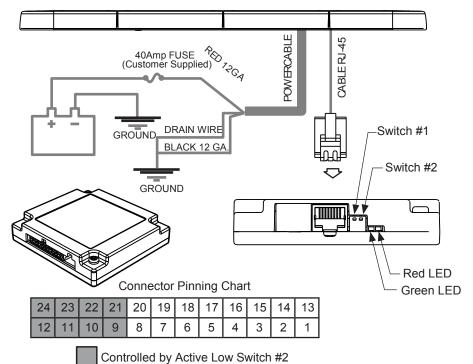
Cruise Mode Configuration:

- a. Apply +12V to activate Cruise Mode for configuration setup.
- b. Determine what module inputs are desired to use Cruise Mode.
- c. Apply +12V to the module inputs desired.
 - i. NOTE: Lights will flash preset flash pattern
- d. With both the Cruise Mode Input and the module inputs activated, momentarily apply +12V to the pattern select wire to toggle the Cruise Mode to ON (default is OFF).
- e. Observe the OFF sequence of the flash pattern is ON dim.
- f. Disconnect the module inputs wire(s) (while leaving cruise mode input activate) and observe the lightbar is NOT flashing, but the output function(s) recently set are glowing steady.





Care must be taken when drilling through the roof of the vehicle not to drill into any existing wiring and not to drill through the headliner or support members of the vehicle. Check both sides of the mounting service prior to drilling. De-burr any holes and remove any metal fragments. Install grommets into all wire passage holes.



BREAKOUT BOX

RED LIGHT

No Input Flashes every 5 seconds

Input Activated Steady On Added Input Brief Flash

GREEN LIGHT

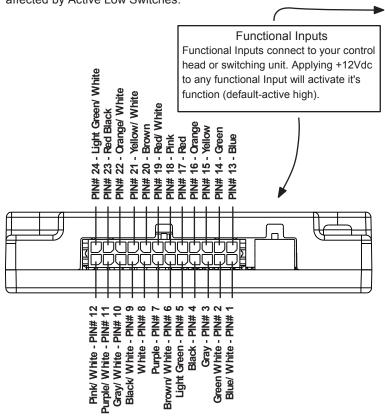
Command Rec'd Steady On - Has good connection

(See Below)

- Up = Active High
- Down = Active Low
- When the switch is in the up position inputs connected to that switch are active high. To activate an active high input, apply 12Vdc.
- When the switch is in the down position Inputs connected to that switch are active low. To activate the active low, apply ground (negative).

Note - Reference Switch table for explanation of what inputs are affected by Active Low Switches.

Controlled by Active Low Switch #1



			Discrete Functions
Wire Color	Pin#	Standard Functions	(8 Wire Arrow Control)
(Major Color/ Stripe)			
Light Green/ White	24	Left Turn Signal*	Discrete Output #4*
Red/ Black	23	Right Turn Signal*	Discrete Output #3*
Orange/ White	22	Rear Inboard 3	Discrete Output #2*
Yellow/ White	21	Rear Inboard 2	Discrete Output #1* (L)*
Brown	20	Front Take down	Front Take down
Red/ White	19	Alley Flash	Alley Flash
Pink	18	Alley Driver	Alley Driver
Red	17	Alley Passenger	Alley Passenger
Orange	16	Front Inboard 3	Front Inboard 3
Yellow	15	Front Inboard 2	Front Inboard 2
Green	14	Front Inboard 1	Front Inboard 1
Blue	13	Front Corners	Front Corners
Pink/ White	12	Arrow, Left*	Discrete Output #8 (R)*
Purple/ White	11	Arrow, Center*	Discrete Output #7*
Gray/ White	10	Arrow, Right*	Discrete Output #6*
Black/ White	9	Arrow, Warning	Discrete Output #5*
White	8	Pattern Select*	Pattern Select*
Purple	7	Low Power	Low Power
Brown/ White	6	Front Take down Flash	Front Take down Flash
Light Green	5	Auxiliary*	Auxiliary*
Black	4	Cruise Lights*	Cruise Lights*
Gray	3	Mode Select*	Mode Select*
Green/ White	2	Rear Inboard 1	Rear Inboard 1
Blue/ White	1	Rear Corners	Rear Corners

FLASH PATTERNS AND CONNECTOR INSTRUCTIONS

	LED Module	Flash Patte	rns	
#	Pattern Name	Sequence	fpm*	fps**
1	Quint	Alternating	70	1.18
2	Warp	Alternating	350	5.88
3	Inter-Cycle Flash	Alternating	-	-
4	Quad Flash	Alternating	80	1.35
5	RoadRunner™	Alternating	115	1.92
6	RoadRunner™	Simultaneous	115	1.92
7	Slow Runner	Alternating	70	1.16
8	Slow Runner	Simultaneous	70	1.16
9	Q-Switch™	Variable	-	-
10	Single, Steady Burn	Steady Burn	115	1.92
11	Quad, Steady Burn	Steady Burn	80	1.35
12	Warp, Steady Burn	Steady Burn	350	5.88
13	None,Steady Burn	Steady Burn	-	-
14	E-Pattern 1X Flash	Alternating	230	3.85
15	E-Pattern 2X Flash	Alternating	128	2.13
16	E-Pattern 1X Flash	Simultaneous	230	3.85
17	E-Pattern 2X Flash	Simultaneous	155	2.6
18	Warp 1,2,3,4	Variable	-	-
19	Warp 2,3,1	Variable	-	-
20	Warp 3,2,1	Variable	-	-
21	Steady Burn	Steady Burn	-	-

		Directional Bar Warning Function Patter				
1 F	PowerPulse Alternate	Center Out	180	3.00		
2 F	PowerPulse Alternate	Left/ Right	180	3.00		
3	Quad Alternating	Center Out	80	1.35		
4	Warp Alternating	Adjacent	3.50	5.88		
5	2X Individual Sweep		-	-		
6	Hyper Scan	Pulsing + Sweep	-	-		
7	Super Scan	Dual Rate Pulse/A	lt -	-		
8	Power Flash	Dual Rate Alt/Puls	e -	-		
9	Thunder and Lighting	Random	-	-		

Directional Bar Directional Function Left, Center Out, & Right Sequences					
1	Solid Arrow Plus Slow	Grow / Decay			
2	Solid Arrow Slow	Solid			
3	Individual Arrow Fast	Individual			
4	Chaser Arrow Fast	2X Individual			

Split Arrow Bars Have These Multi-color Patterns					
10	RoadRunner Alternating		115	1.92	
11	Warp	Adjacent	350	5.88	
12	Warp	Adjacent	350	5.88	
13	Inter-Cycle Flash	Adjacent	-	-	
14	Inter-Cycle Flash	Alternating	-	-	
15	Inter-Cycle Flash	Alternating	-	-	
16	Inter-Cycle Flash	Alternating	-	-	
17	Inter-Cycle Flash	Alternating	-	-	

LED Takedown / Alley Flash Pattern					
1	RoadRunner	Alternating	115	1.92	
2	PowerPulse	Alternating	180	3.00	
3	Q-Switch	Variable	-	-	
4	ETM	Simultaneous	214	3.57	
5	Steady Burn	Steady Burn	-	-	

LIGHTBAR CONTROLLER CONNECTOR INSTRUCTIONS

Input Group Control	Light Output Groups
Front Inboard 1	Red, Yellow
Front Inboard 2	Green
Front Inboard 3	Blue
Rear Inboard 1	Red, Yellow
Rear Inboard 2	Green
Rear Inboard 3	Blue
Take Down	White, Orange

^{*} Rear inboards have RED and BLUE wires

BREAKOUT BOX HOOKUP:

Make sure the 24-pin connector and the RJ-45 connector are snapped in securely.

Follow the label for the wire color to connect to a 12Vdc source, which turns on that given light or lights.

Make sure your wire connections are secured and isolated from any other wire.

				SWI	TCH	SETTINGS
SW1	SW2	SW3	SW4	SW5	SW6	PURPOSE
OFF	OFF	OFF				8 WIRE ARROW CONTROL
OFF	OFF	ON				NO ARROW
OFF	ON	OFF				N/A
OFF	ON	ON				4 MOD ARROW
ON	OFF	OFF				5 MOD ARROW
ON	OFF	ON				6 MOD ARROW
ON	ON	OFF				7 MOD ARROW
ON	ON	ON				8 MOD ARROW
			ON			PASSENGER-SIDE EXIT
			OFF			DRIVER-SIDE EXIT
				ON		SPLIT-COLOR ARROW MODULES
				OFF		FULL ARROW MODULE
					ON	TURN SIGNALS - YELLOW OUTPUT
					OFF	TURN SIGNALS ON BLUE OUTPUT

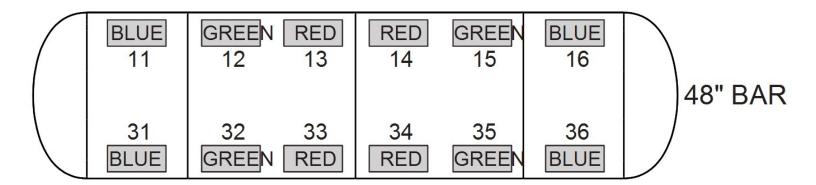
^{*}fpm=Flashes per Minute

^{**}fps=Flashes per Second

^{*} Front inboards have GREEN wires

LIGHT MODULE WIRE HARNESS LOCATIONS





REPLACEMENT OF INBOARD AND CORNER MODULES:

- 1. Disconnect main power.
- 2. Remove top cover by removing screws.
- 3. Locate module and remove mounting screws. Pull or slide module from lightbar.
- 4. Remove connector from rear of module by carefully pulling connector body from back of module.
- 5. Push module connector into replacement module ensuring locking latch is seated properly or connector is fully seated.
- 6. Replace module and hardware that fasten module to base extrusion.
- 7. Restore power to bar and test new module to ensure functionality.
- 8. Replace top cover of bar with screws removed in step 2.
 - Colors shown indicate wire colors on wire harness.
 - Inboard modules: color/color (eg. red/red) wires go to front inboard modules, color/white (eg red/white) go to back inboard modules.
 - Corner modules: orange/black wires go to front, red/ black wires go to back.
 - Split center modules: follow previous front/back color locations, and connect red wires from each side to the split board "IN" connectors. The "OUT" / "TO MODULE" connector goes to the short adapter wire harness and then the module.
 - Takedown modules: black/red wires with white or black label.
 - Alley modules: black/red wires with gray label

TROUBLESHOOTING

NORMAL OPERATION

Under normal operation with lightbar turned on the breakout box will have the Green and Red LED light on steady. When you change an input to the lightbar the Red LED on the breakout box will flash then go back to steady.

When the lightbar is off (no input active) the Green LED on the breakout box will stay on for 15 seconds then go off putting the lightbar into sleep (standby) mode. The Red LED will flash every 5 seconds to tell you there is power to the breakout box and it is waiting for an input to turn on the lightbar.

NO OPERATION

No LED on or flashing on Breakout box; Check input power and ground to lightbar, check data cable for damage and/or

opens, check FH4 (5A) fuse on the electronic control board in the lightbar.

Breakout box LED's operating correctly; Check FH1 (20A) & FH2 (20A) fuse on the electronic control board in lightbar.

(see above)

NO OR INCORRECT INBOARDS OR CORNER LIGHTS (WARNING)

Breakout box LED's operating correctly; Check FH1 fuse on the electronic control board in the lightbar.

No steady Red LED on breakout box; Check 24-pin connector at breakout box (insure it is snapped in correctly),

check appropriate input to breakout box for output lights which should be on.

No rear warning lights; Check dip switch SW5 setting for full (off) or split (on) arrow.

On full you may not get any warning.

After arrow dip switch changes main power must be cycled.

NO TAKE DOWNS OR ALLEY LIGHTS

Breakout box LED's operating correctly; Check FH2 (20A) fuse on the electronic control board in the lightbar.

No steady Red LED on breakout box; Check 24-pin connector at breakout box (insure it is snapped in correctly), check appropriate input to breakout box for output lights which should be on.

INCORRECT OR NO ARROW OPERATION

Breakout box LED's operating correctly; Check dip switches setting on the electronic control board in the lightbar.

After arrow dip switch changes main power must be cycled.

No steady Red LED on breakout box; Check 24-pin connector at breakout box (insure it is snapped in correctly),

check appropriate input to breakout box for output lights which should be on.

Arrow direction incorrect; Change passenger/driver side dip switch SW4 on the electronic control board.

After arrow dip switch changes main power must be cycled.

8-wire control not operating; Check dip switch setting SW1-3 (should be off, off, off) on the electronic control

board in the lightbar.

After arrow dip switch changes main power must be cycled.

Split arrow not operating; Check dip switch SW5 (should be on) on the electronic control board.

After arrow dip switch changes main power must be cycled.