

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 dependant 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. SoundOff Signal assumes no liability for any loss resulting from the use of this warning device.

Components/Contents

Standard Equipment:

- 1 - nForce LED Lightbar built to your specifications
- 1 - Breakout Box
- 1 - 24 Pin Harness

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 form.

Unpack Lightbar

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

Tools Required for Installation

- 7/16" Socket with ratchet
- Phillips Head Screwdriver

**SoundOff
Signal**
Smart Design.

1.800.338.7337 / www.soundoffsignal.com

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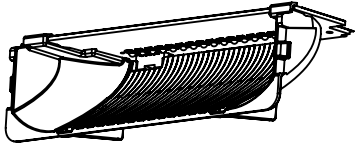
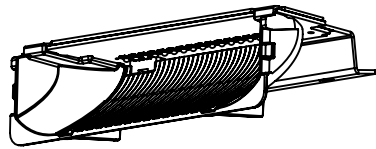
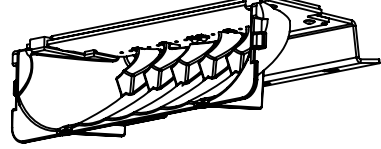
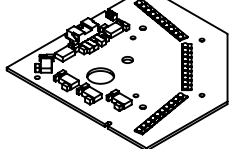
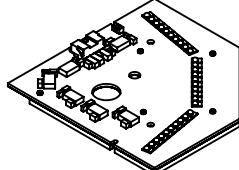
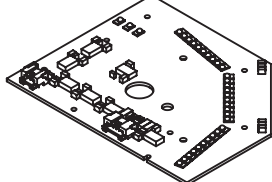
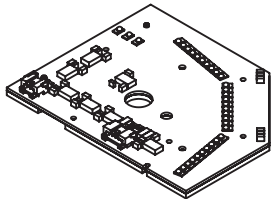
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Important Information:

- To view the full Software Revision History click the  in the upper right hand corner of the nFORCE Lightbar Software application.
- 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.

⚠ WARNING

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

	<p>6 LED Single, Dual & Tri Color Inboard Module</p> <p>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)</p>
	<p>9 LED Single Color Inboard Module</p> <p>INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.75 Amps @ 12.8 Vdc (Flashing) 1.5 Amps @ 12.8 Vdc (Steady On) WATTAGE: 9.6W (Flashing)</p>
	<p>6 LED Single Color Takedown Module</p> <p>INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 1 Amps @ 12.8 Vdc (Steady On) WATTAGE: 12.8 (Steady On)</p>
	<p>12 LED Single, Dual & Tri Color Corner Module</p> <p>INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 1 Amps @ 12.8 Vdc (Flashing) 2 Amps @ 12.8 Vdc (Steady On) WATTAGE: 12.8W (Flashing)</p>
	<p>12 LED Single, Dual & Tri Color Corner Module w/Alley</p> <p>INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 1 Amps @ 12.8 Vdc (Flashing) 2.5 Amps @ 12.8 Vdc (Steady On) WATTAGE: 12.8 (Flashing)</p>
	<p>18 LED Single Corner Module</p> <p>INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 1.5 Amps @ 12.8 Vdc (Flashing) 3 Amps @ 12.8 Vdc (Steady On) WATTAGE: 19.2W (Flashing)</p>
	<p>18 LED Single Corner w/Alley</p> <p>INPUT VOLTAGE RANGE: 10-16Vdc WARNING CURRENT DRAW: 1.5 Amps @ 12.8 Vdc (Flashing) 3.5 Amps @ 12.8 Vdc (Steady On) WARNING WATTAGE: 19.2W (Flashing) ALLEY CURRENT DRAW: .25 Amps @ 12.8 Vdc (Flashing) .5 Amps @ 12.8 Vdc (Steady On) ALLEY WATTAGE: 6.4W (Steady On)</p>

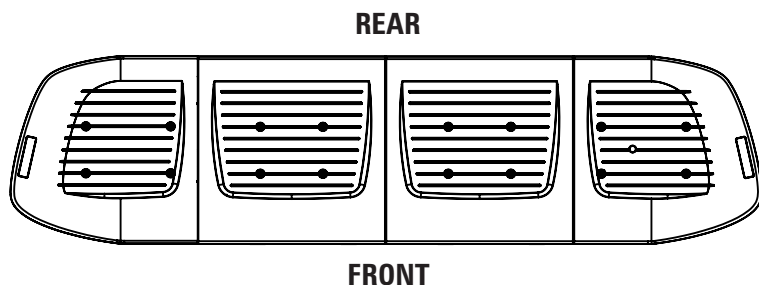
IMPORTANT INFORMATION:

FLASHING = AVERAGE
STEADY ON (100%) = PEAK

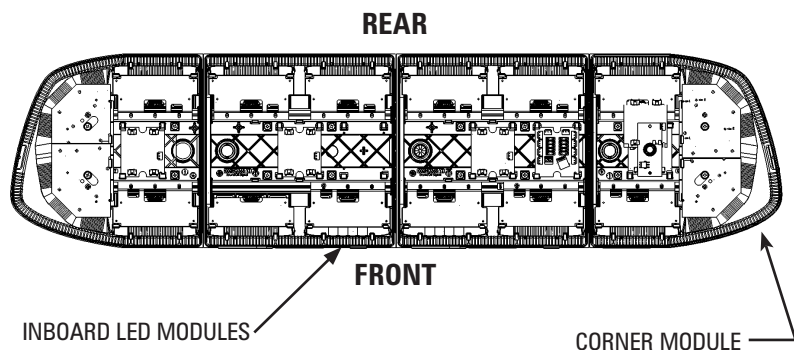
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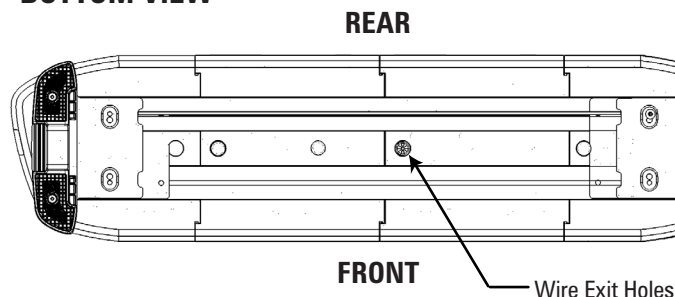
TOP VIEW WITH COVERS ON



TOP VIEW WITH COVERS OFF



BOTTOM VIEW



TECHNICAL SPECIFICATIONS

Material:	Aluminum Base, polycarbonate outer lenses, ASA/PC top cover.	
Roof Attachments:	1/4" bolt Stainless A2	
Operating Temperature:	-40° to +65° C	
LENGTH	# OF INBOARDS	DIMENSIONS
24"	2	12"D x 2.5"H inboard
36"	4	
42"	5	
48"	6	
54"	7	
60"	8	
72"	10	

POWER SPECIFICATIONS

Input Voltage Range:	10 -16 Vdc			
Light Bar Component	Current Draw (Average = Flashing)		Power Consumption (Watts)	
Standby Current	Ignition ON	Ignition OFF	Ignition ON	Ignition OFF
	0.010 Amps	0.002 Amps	0.13 Watts	0.03 Watts
Reverse Polarity	Protected			
Load Dump	Protected			
Wiring	Power Cable 15ft 14 AWG Wires, (+) Red, (-) Black Data Cable 25ft RJ-45 Type			

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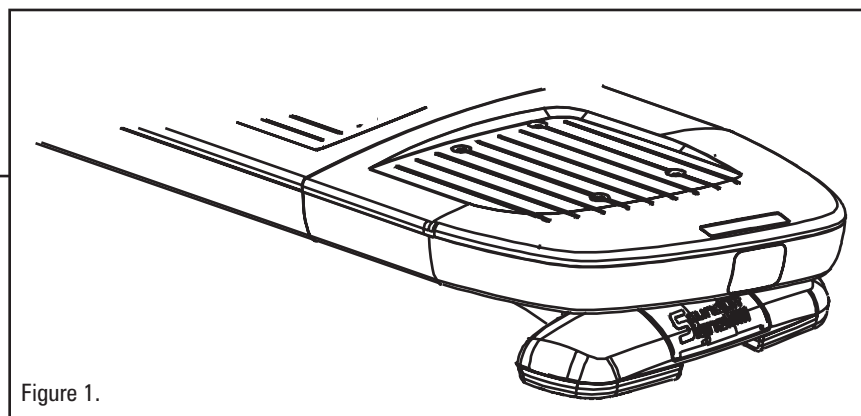


Figure 1.

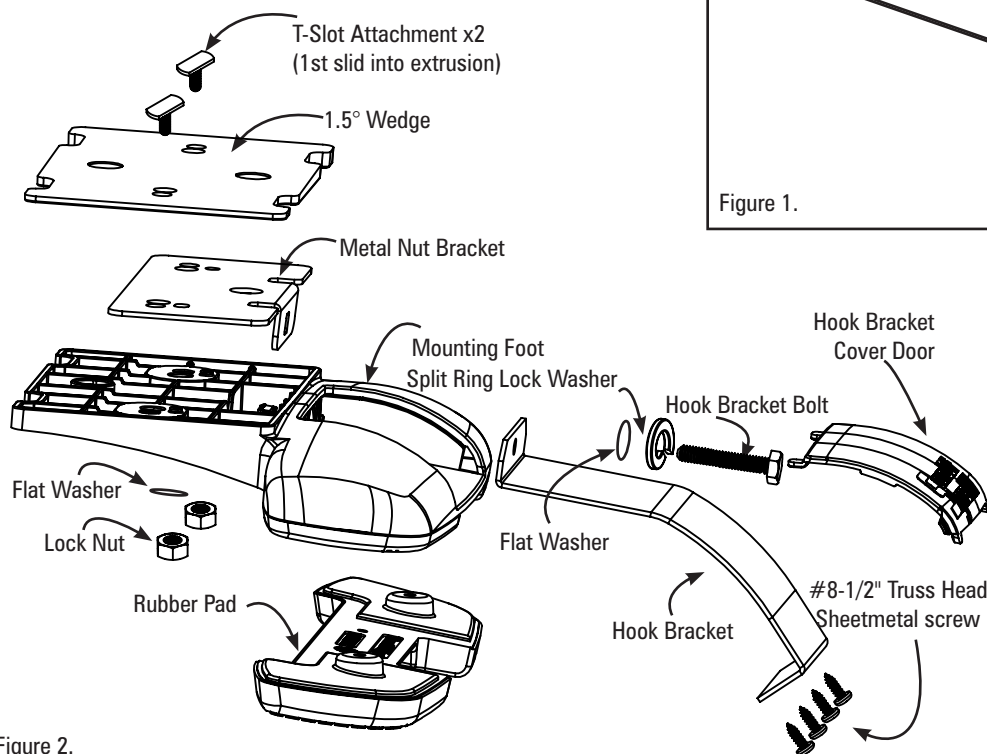


Figure 2.

FIXED HEIGHT BRACKETS AND HOOK MOUNTING

1. Attach the supplied screws to the mounting foot to secure the rubber pad as shown in Figure 3. Be sure the torque does not exceed 10 IN-LBF.
2. Keeping the lightbar level with the road, attach Mounting Feet to the roof of the vehicle using the 2 supplied T-Slot bolts. If the lightbar needs to be leveled, a 1.5° wedge has been provided.
3. Place lightbar centered on the roof, and hold brackets up to the lightbar. A 1/4" to 1/2" gap should be between the hook bracket and front wall of the mounting foot prior to putting any tension on the hook bracket bolt (See Figure 4). Adjust the mounting foot position to accommodate for this gap.
4. Tighten 2 lock nuts to secure mounting foot to lightbar with max torque between 80-90in/lbs. DO NOT OVERTIGHTEN!
5. Using holes in the hook bracket as a template, drill 4 holes in the roof using the appropriate size drill. Secure hook bracket to roof with 4 screws on each side. Tighten hook bracket bolts with max torque 40-50in/lbs.
6. Tighten the 2 hook bracket bolts with max torque 45-50in/lbs.
7. Install the cover door over the hook bracket bolt to finish the assembly. Place tab of one side into place and then push the second tab into place with a flat-head screw driver.

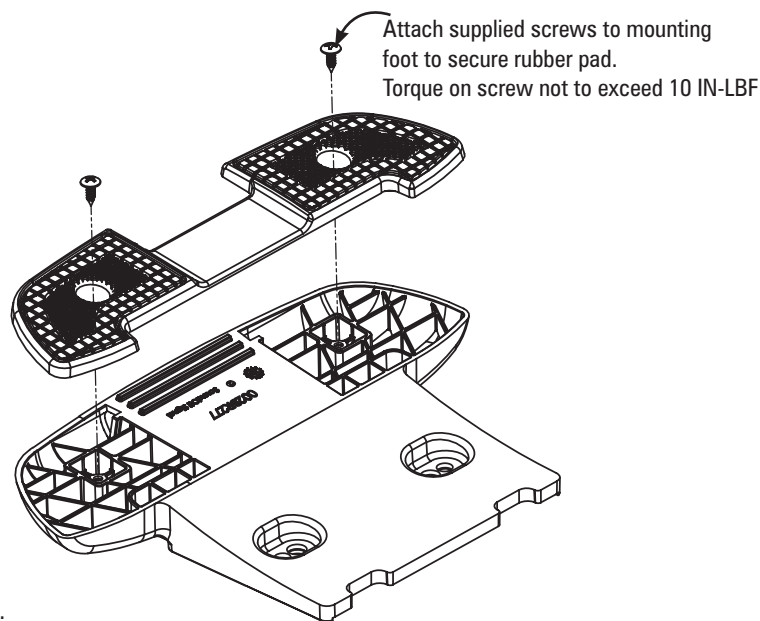


Figure 3.

WARNING

Route wires only in locations that are not subjected to potential wear. Make sure to avoid routing wires in the deployment area of your air bag. Refer to your vehicle's owner's manual for airbag deployment zone.

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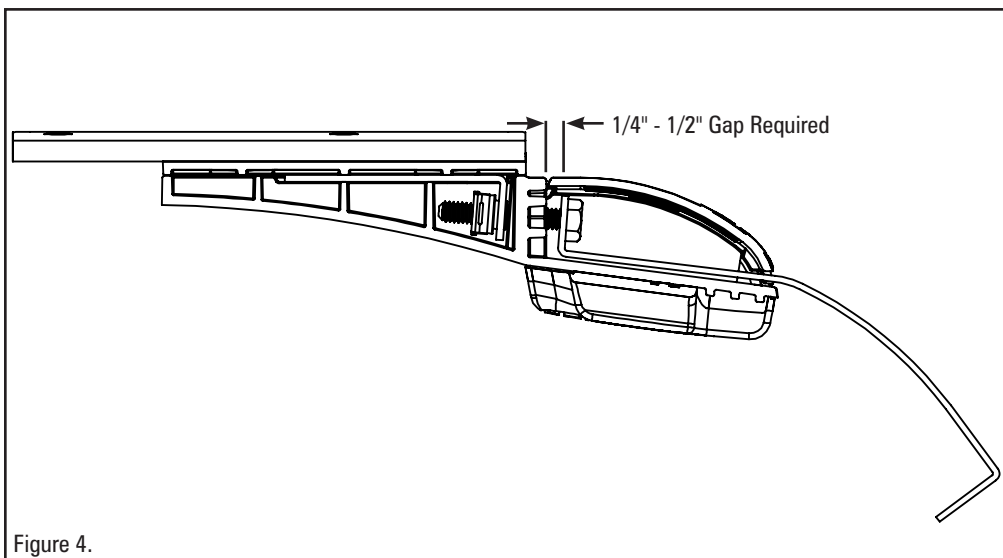
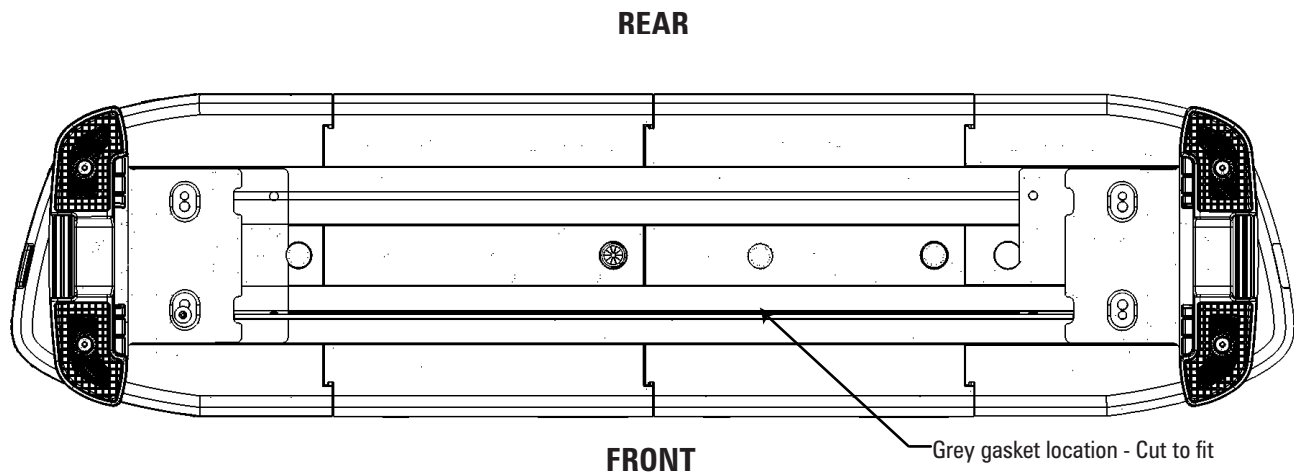


Figure 4.

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GASKET MOUNTING INSTRUCTIONS

Install the Grey gasket in the front slot of the lightbar as shown above

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ELECTRICAL INSTALLATION

Featured Highlights & Terminology:

Mode Select: The nForce 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 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 which applies voltage to the Mode 2 input wire.

Cruise Mode: Allows the user to program any light group(s) to "Glow" when this feature is activated. For dual / tri color bars, the color for each light group is selectable.

Directional Arrow Built-in: The directional controller is built-in w/ 6 arrow patterns for each of the 3 modes (left arrow, right arrow, and center out arrow) and the color is selectable for dual / tri color bars

Scene Light Mode: Allows the user to program any Light Head Group(s) to turn on steady when this feature is activated to provide additional scene lighting. **The activation of this input also activates the Takedown function**

Stop / Tail / Turn Mode: Allows the user to program any Light Head Group(s) to turn operate in 2 levels of intensity for tail and stop/turn functions.

Low Power Mode: Operates lighting at reduced intensity.

⚠ WARNING

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

Power Cable:

1. Route lightbar power cables as close to vehicles power source (battery) as possible.
2. Install a maximum of 30Amp 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 and ensure the wire is protected and secured from being cut into; this is 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 jumpers from the switching equipment to the breakout box.
3. Refer to breakout box hookup table on page 9.

Initial Power up Test:

1. Plug RJ-45 power / data plug into 'Lightbar' connector on the breakout box.
2. **Apply power to pink/white ignition wire on breakout box. See table 1 on page 9.**
3. Observe the GREEN Data Link indicator LED on the Breakout Box; the Green LED will be ON showing power is connected.
4. The Red indicator LED on the breakout box will be steady ON whenever any of the input wires are active or data is received from a siren.

Low Power (Standby) Mode (reduced standby current)

If there is no input to the breakout box 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 lightbar will awaken from the standby mode if any input is activated on the breakout box.

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ELECTRICAL INSTALLATION (CONTINUED)

Warning Flash Pattern Configuration:

- a. Apply voltage to Ignition Input Wire and then set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- b. Apply voltage to the activation wire of the function which requires pattern to be changed (i.e. Front Corner, Takedown, Left Alley, etc.)
- c. Apply voltage to the Mode activation wire to configure mode 2 flash patterns, leave Mode activation wire floating to configure mode 1 flash patterns
- d. Momentarily apply voltage to the pattern select wire to change the warning flash pattern
- e. Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

NOTE: Takedown and Alley light patterns are limited to pattern #1 – 22

*fpm = Flashes per Minute

**fps = Flashes per Second

FLASH PATTERNS

#	Name	SAE Compliant Timing	California Title 13 Compliant Timing	Color	Sequence	fpm	fps
1	Random Single #1	Yes	No	#1	Variable	-	-
2	Random Single #2	No	No	#1	Variable	-	-
3	Quint	Yes	No	#1	Alternating	70	1.2
4	Quad 2	Yes	No	#1	Variable	-	-
5	Q-Switch	Yes	No	#1	Variable	-	-
6	Double	Yes	No	#1	Alternating	115	1.9
7	Power Pulse	Yes	No	#1	Alternating	180	3.0
8	RoadRunner	Yes	Yes	#1	Alternating	115	1.9
9	SlowRunner	Yes	No	#1	Alternating	70	1.2
10	Warp	No	No	#1	Alternating	350	5.8
11	Inter-cycle	No	No	#1	Alternating	-	-
12	Warp 1, 2, 3	No	No	#1	Alternating	-	-
13	E-Single	Yes	No	#1	Alternating	125	2.1
14	E-Double	Yes	No	#1	Alternating	125	2.1
15	E-Triple	Yes	No	#1	Alternating	125	2.1
16	E-Single Simultaneous	Yes	No	#1	Simultaneous	125	2.1
17	E-Double Simultaneous	Yes	No	#1	Simultaneous	125	2.1
18	Super Slow Runner	No	No	#1	Alternating	55	0.9
19	Quint Simultaneous	Yes	No	#1	Simultaneous	70	1.2
20	Road Runner Simultaneous	Yes	No	#1	Simultaneous	114	1.9
21	Quint Pass/Steady Driver	Yes	No	#1	-	70	1.2
22	Road Runner Pass/ Steady Driver	Yes	No	#1	-	114	1.9
23	Quint 2	Yes	No	#1	-	70	1.2
24	Warp 2	No	No	#1	-	350	5.8
25	Inter-Cycle 2	No	No	#1	-	-	-
26	Random Dual #1	Yes	No	#1/2	Variable	-	-
27	Random Dual #2	No	No	#1/2	Variable	-	-
28	Quint Dual	Yes	No	#1/2	Alternating	70	1.2
29	Quad 2 Dual	Yes	No	#1/2	Variable	-	-
30	Q-Switch Dual	Yes	No	#1/2	Variable	-	-
31	Double Dual	Yes	No	#1/2	Alternating	115	1.9
32	Power Pulse Dual	Yes	No	#1/2	Alternating	180	3.0

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ARROW PATTERNS

#	Name	SAE Compliant Timing	California Title 13 Compliant Timing	Color	Sequence	fpm	fps
1	Single Fast	No	No	-	-	-	-
2	Single Slow	No	No	-	-	-	-
3	Chaser Fast	No	No	-	-	-	-
4	Chaser Slow	No	No	-	-	-	-
5	Fill Fast	No	No	-	-	-	-
6	Fill Slow	No	No	-	-	-	-
7	Grow/Shrink	No	No	-	-	-	-
8	Warning w/Arrow	No	No	-	-	-	-
9	Warning w/Arrow Fill	No	No	-	-	-	-
10	Arrow Random 1	No	No	-	-	-	-
11	Arrow Random 2	No	No	-	-	-	-

FLASH PATTERNS CONT.

#	Name	SAE Compliant Timing	California Title 13 Compliant Timing	Color	Sequence	fpm	fps
33	Road Runner Dual	Yes	No	#1/2	Alternating	115	1.9
34	Slow Runner Dual	Yes	No	#1/2	Alternating	70	1.2
35	Warp Dual	No	No	#1/2	Alternating	350	5.8
36	Inter-Cycle Dual	No	No	#1/2	Alternating	-	-
37	Warp 1, 2, 3 Dual	No	No	#1/2	Alternating	-	-
38	Dual Color Flash 1	No	No	#1/2	Variable	-	-
39	Dual Color Flash 2	No	No	#1/2	Variable	-	-
40	Impact	No	No	#1/2	Variable	-	-
41	Explosion	No	No	#1/2	Variable	-	-
42	Quint Simultaneous Dual	Yes	No	#1/2	Simultaneous	70	1.2
43	Road Runner Simultaneous Dual	Yes	No	#1/2	Simultaneous	114	1.9
44	Quint 2 Dual	Yes	No	#1/2	-	70	1.2
45	Warp 2 Dual	No	No	#1/2	-	350	5.8
46	Inter-Cycle 2 Dual	No	No	#1/2	-	-	-
47	Super Slow Runner Dual	No	No	#1/2	-	-	-
48	Tri Color Flash 1	No	No	#1/2/3	Alternating	-	-
49	Random Tri	No	No	#1/2/3	Alternating	-	-
50	Quint Tri	Yes	No	#1/2/3	Alternating	70	1.2
51	Quad 2 Tri	Yes	No	#1/2/3	Alternating	-	-
52	Tri Color Flash 2	No	No	#1/2/3	-	-	-
53	Double Tri	Yes	No	#1/2/3	Alternating	115	1.9
54	Power Pulse Tri	Yes	No	#1/2/3	Alternating	180	3.0
55	Road Runner Tri	Yes	No	#1/2/3	Alternating	115	1.9
56	Slow Runner Tri	Yes	No	#1/2/3	Alternating	70	1.2
57	Warp Tri	No	No	#1/2/3	Alternating	350	5.8
58	Inter-Cycle Tri	No	No	#1/2/3	Alternating	-	-
59	Warp 1-2-3 Tri	No	No	#1/2/3	Alternating	-	-
60	Super Slow Runner Tri	No	No	#1/2/3	Alternating	55	0.9
61	Quint Simultaneous Tri	Yes	No	#1/2/3	Simultaneous	70	1.2
62	Road Runner Simultaneous Tri	Yes	No	#1/2/3	Simultaneous	114	1.9
63	Quint 2 Tri	Yes	No	#1/2/3	Alternating	70	1.2
64	Warp 2 Tri	No	No	#1/2/3	Alternating	350	5.8
65	Inter-Cycle 2 Tri	No	No	#1/2/3	Alternating	-	-
66	Tri Color Flash 3	No	No	#1/2/3	-	-	-

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ELECTRICAL INSTALLATION (CONTINUED)

Arrow Flash Pattern Configuration:

- Apply voltage to Ignition Input Wire and then set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- Apply voltage to the Left Arrow activation wire to set Left Arrow pattern, apply voltage to Right Arrow activation wire to set Right Arrow pattern, apply voltage to Left Arrow and Right Arrow activation wires to set Center out Arrow pattern
- Momentarily apply voltage to the pattern select wire to change the arrow flash pattern
- Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

Arrow Color Configuration:

- Apply voltage to Ignition Input Wire and then set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- Determine which module inputs are needed for Arrow function
- Apply voltage to the Left Arrow or Right Arrow activation wires
- Apply voltage to the light group wire(s) required (i.e. Rear Inboard 1, Rear Inboard 2, etc.)
- Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

NOTE: If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The light-bar will flash color #1 of all modules configured for Arrow function. If a module flashes every 2 seconds and is not intended to be on when an Arrow function is activated, repeat steps 'd' and 'e' until module no longer flashes.

- Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

Takedown and Work-light Configuration:

- Apply voltage to Ignition Input Wire and then set Switch #2 on Breakout box to down (Switch #1 must be in Up position)
- Determine which module inputs are needed for Takedowns or Work-lights
- Apply voltage to the Takedown activation wire
- Apply voltage to the light group wire(s) required (i.e. Front Inboard 1, Rear Inboard 2, etc.)
- Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

NOTE: If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The light-bar will flash color #1 of all modules configured for takedown. If a module flashes every 2 seconds and is not intended to be on when takedown is activated, repeat steps 'd' and 'e' until module no longer flashes.

- Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

Scene light Configuration:

- Apply voltage to Ignition Input Wire and then set Switch #2 on Breakout box to down (Switch #1 must be in Up position)
- Determine which module inputs are needed for Scene Lighting
- Apply voltage to the Scene light activation wire
- Apply voltage to the light group wire(s) required (i.e. Front Inboard 1, Rear Inboard 2, etc.)
- Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

NOTE: If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The light-bar will flash color #1 of all modules configured for scene light. If a module flashes every 2 seconds and is not intended to be on when scene light function is activated, repeat steps 'd' and 'e' until module no longer flashes.

- Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

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ELECTRICAL INSTALLATION (CONTINUED)

Stop / Tail / Turn (STT) Light Configuration:

- Apply voltage to Ignition Input Wire and then set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- Determine which module inputs are needed for Stop / Tail / Turn Lights
- Apply voltage to the Left Turn or Right Turn activation wires
- Apply voltage to the light group wire(s) required (i.e. Rear Inboard 1, Rear Inboard 2, etc.)
- Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

NOTE: If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The light-bar will flash color #1 of all modules configured for STT function. If a module flashes every 2 seconds and is not intended to be on when an STT function is activated, repeat steps 'd' and 'e' until module no longer flashes.

- Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

Cruise Mode Configuration:

- Apply voltage to Ignition Input Wire and then set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- Determine which module inputs are needed for cruise mode
- Apply voltage to the Cruise Mode activation wire
- Apply voltage to the light group wire(s) required (i.e. Front Corner, Front Inboard 1, etc.)
- Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

NOTE: If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The lightbar will flash color #1 of all modules configured for cruise mode. If a module flashes every 2 seconds and is not intended to be on when Cruise mode is activated, repeat steps 'd' and 'e' until module no longer flashes.

- Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

IMPORTANT

WHEN PASSING CABLES THROUGH FIREWALL OR OTHER SHEETMETAL, INSERT GROMMET TO PROTECT THE CABLE!

⚠ WARNING

Route wires only in locations that are not subjected to potential wear. Make sure to avoid routing wires in the deployment area of your air bag. Refer to your vehicle's owner's manual for airbag deployment zone.

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PHOTO SENSOR (if equipped)

The photo sensor continuously monitors ambient light conditions and will control functions configured for operation with the photo sensor input. By default, the photo sensor will (SET) all light modules into low power mode when dark ambient light levels below 50 lux are detected for more than 5 seconds. When ambient light levels exceed 300 lux for 5 seconds, the low power mode will (CLEAR) turn off and the lightbar will revert back to full intensity.

The photo sensor is subject to ambient light conditions of the specific environment for the vehicle and needs to be thoroughly tested by the installer to ensure proper light levels and delay are selected to provide the most effective operation in different lighting conditions.

The photo sensor detects ambient light levels, so parking the vehicle under a bright street light during night-time use may (CLEAR) turn off the photo sensor input. Likewise, driving through a dark tunnel during daytime use may (SET) the photo sensor input. Ensure the operator of the vehicle is aware of such possible conditions and provide additional controls to the breakout box to allow the operator the ability to manually over-ride the functions when required.

Changing the ambient light SET/CLEAR levels may be modified by updating the setting in the 'Photo Sensor' tab in the PC Application.

The photo sensor controls may be updated by using the PC App. Refer to the PC App instructions for more detail.

PHOTO SENSOR OVER-RIDE CONFIGURATION INSTRUCTIONS

1. Click on 'Breakout Box Inputs' tab and click on 'P1: Photo Sensor' and note priority and which functions are activated when the photo sensor is active.



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PHOTO SENSOR OVER-RIDE CONFIGURATION INSTRUCTIONS CONT.

2. Click on the input wire/siren control to be used to over-ride the functions activated by the photo sensor and change the priority of the selected input wire/siren control to be a higher priority than the photo sensor control priority. Set the functions activated by the photo sensor to 'Turn Function OFF' (Red button) when the input wire/siren control is active.



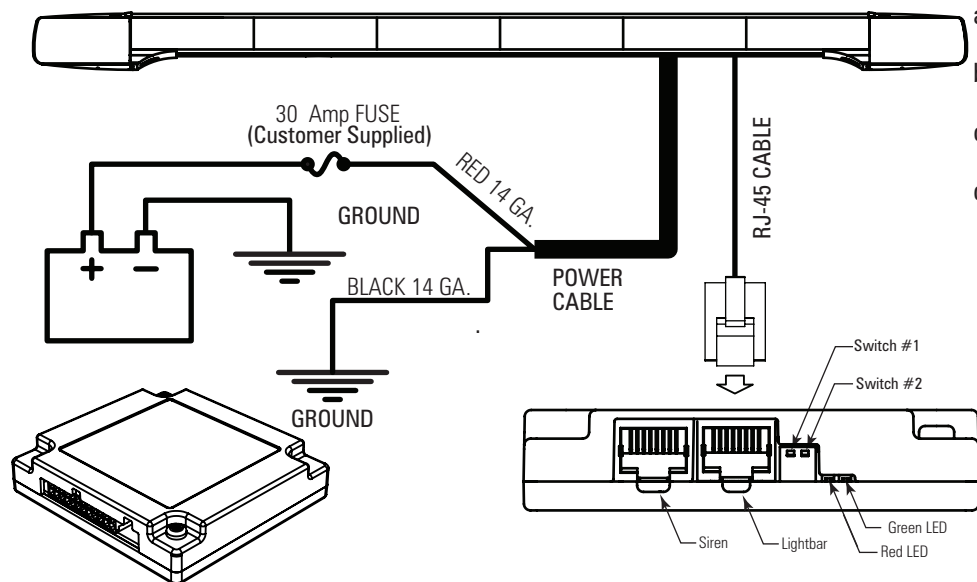
3. From the example in #2, when +V is applied to the gray wire, Low Power 1 will be turned off even if the photo sensor is active since the gray wire control is a higher priority than the photo sensor control.

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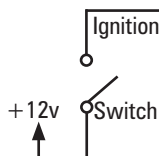
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nFORCE[®] LED Lightbar

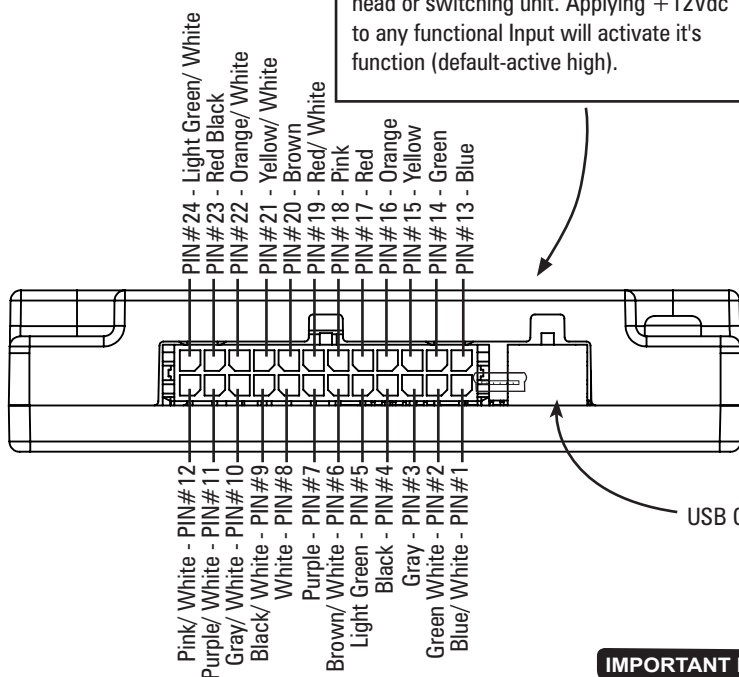


Connector Pinning Chart

24	23	22	21	20	19	18	17	16	15	14	13
12	11	10	9	8	7	6	5	4	3	2	1



Functional Inputs
Functional Inputs connect to your control head or switching unit. Applying +12Vdc to any functional Input will activate it's function (default-active high).



USB CONNECTOR MINI TYPE B

IMPORTANT INFORMATION:

BREAKOUT BOX HOOKUP:

- Refer to Table 1 for Breakout Box input wire default functions
- 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.

Table 1.

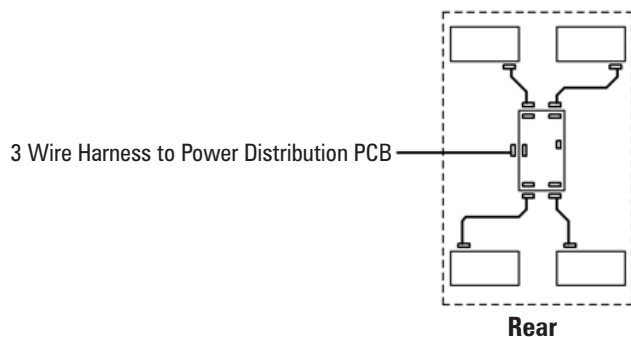
Wire Pin #	Wire Color	Wire Function
1	Blue/White	Rear Corners
2	Green/White	Rear Inboard 1
3	Gray	Mode Select
4	Black	Cruise Mode
5	Light Green	Scene Lighting
6	Brown/White	Takedown Flash
7	Purple	Low Power
8	White	Pattern Select / Tail
9	Black/White	Left Turn
10	Gray/White	Arrow - Right
11	Purple/White	Arrow - Left
12	Pink/White	Ignition Input
13	Blue	Front Corners
14	Green	Front Inboard 1
15	Yellow	Front Inboard 2
16	Orange	Front Inboard 3
17	Red	Alley Passenger
18	Pink	Alley Driver
19	Red/White	Alley Flash
20	Brown	Takedown
21	Yellow/White	Rear Inboard 2
22	Orange/White	Rear Inboard 3
23	Red/Black	Right Turn
24	Light Green/White	Sync

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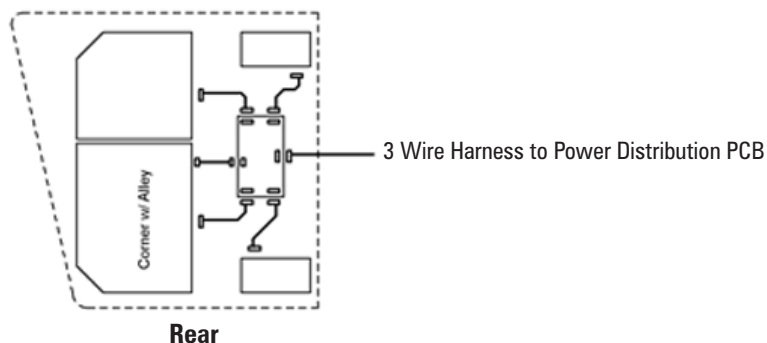
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LIGHT MODULE WIRE HARNESS LOCATIONS

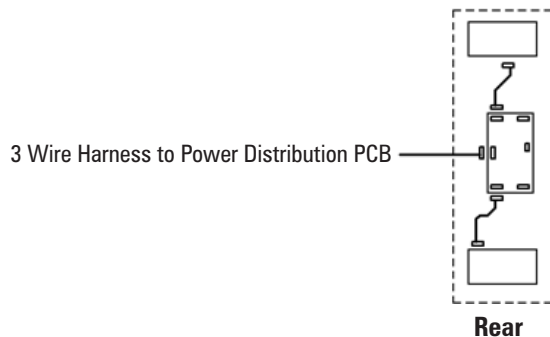
**12" Inboard Tub
Front**



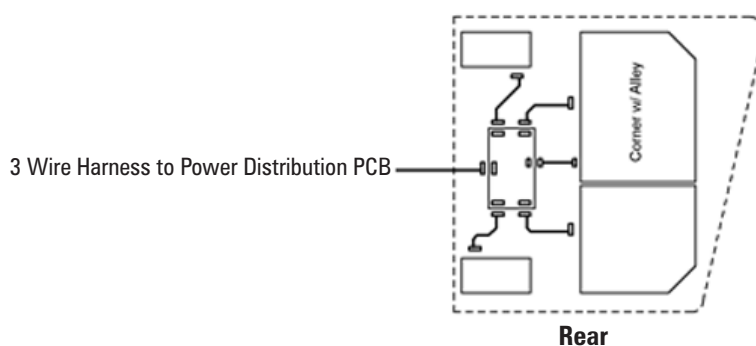
**Driver Side End Tub
Front**



**6" Inboard Tub
Front**



**Passenger Side End Tub
Front**



REPLACEMENT OF INBOARD AND CORNER MODULES:

1. Disconnect main power.
2. Remove top cover by removing screws.
3. Locate module. If it has a bracket, remove the screw (if no bracket skip this step).
4. Push down on black tab to un-clip the module.
5. Remove connector from rear of module by carefully pulling connector body from back of module.
6. Push module connector into replacement module ensuring locking latch is seated properly or connector is fully seated.
7. Replace screw if the module has a bracket (if no bracket skip this step).
8. Restore power to bar and test new module to ensure functionality.
9. Replace top cover of bar with screws removed in step 2.

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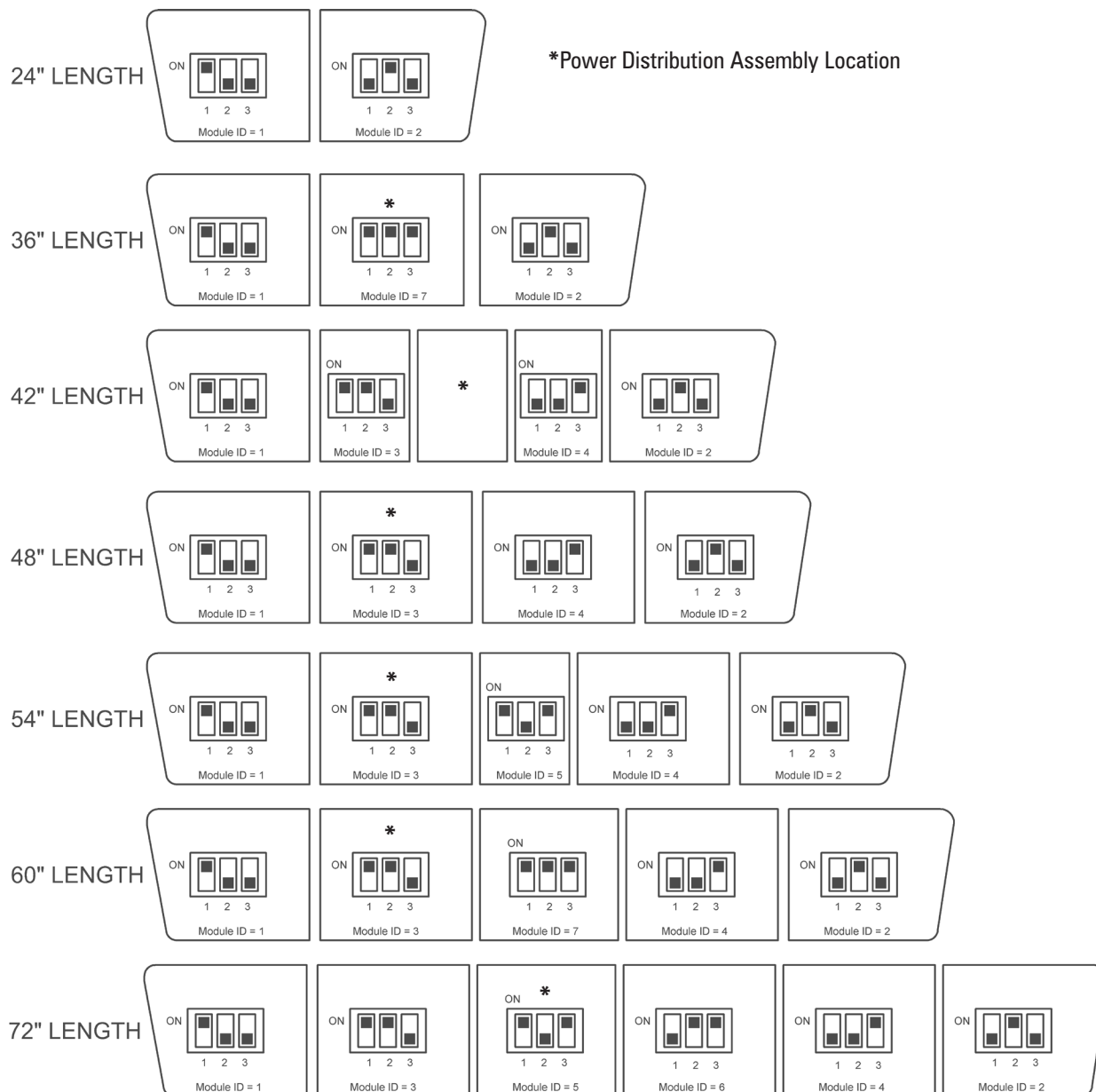
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Driver Module Replacement:

- Verify power has been removed from lightbar before attempting service
- Remove top cover
- Unplug 3 pin power/data connector and LED module connectors from driver module assembly, noting location.
- Remove driver module
- Snap new driver module assembly into housing
- Plug 3 pin power/data connector and LED module connectors into driver module assembly
- Set DIP switch according to lightbar length and driver module location as shown below:
- Apply power to lightbar and verify proper operation.
- Set Switch #2 on Breakout Box to Down position then to Up position to store configuration into new driver module
- Verify DIP switch settings if lightbar does not function properly, and repeat step 'i' if DIP switch setting is changed



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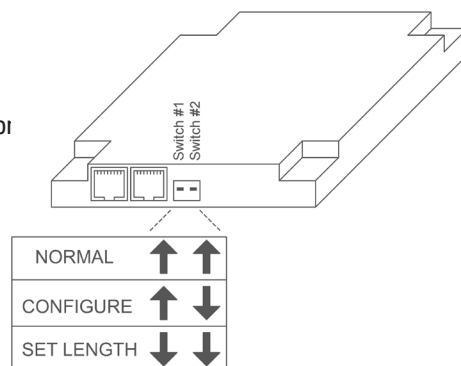
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Setting Light-bar Length: (Length comes preset from factory)

**** NOTE: Entering this configuration mode, will reset the light-bar to factory defaults**

- a. Set Switch #1 and Switch #2 on Breakout box to down position
- b. Momentarily apply voltage to pattern select wire to change the length of the light-bar configuration
 - a. 24" Red LED OFF, Green LED OFF
 - b. 36" Red LED OFF, Green LED Flashes 1 Time
 - c. 42" Red LED OFF, Green LED Flashes 2 Times
 - d. 48" Red LED OFF, Green LED Flashes 3 Times
 - e. 54" Red LED ON, Green LED OFF
 - f. 60" Red LED ON, Green LED Flashes 1 Time
 - g. 72" Red LED ON, Green LED Flashes 2 Times
 - c. Repeat step 'b' until correct light-bar length is selected
 - d. Set Switch #1 and Switch #2 on Breakout box to Up position to store light-bar length



NOTE: For settings above, Switch #2 does not need to be moved to the up position after each configuration. The switch can remain in the down position until the lightbar is completely configured and then moved to the Up position to store all the settings.

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nForce TROUBLESHOOTING

NORMAL OPERATION

Under Normal operation with lightbar turned ON, the breakout box will have the Green LED flash approx every 5 seconds and the Red LED light will be on steady whenever an input is active and both switches will be in the UP (off) position. Each driver module inside the lightbar has a fused circuit from the power distribution module. The LED on the driver module will flash whenever there is an active function selected on the breakout box.

NO OPERATION

No Green LED flashing on Breakout box;

Check input power and ground to lightbar, check data cable for damage and/or opens.

Check Ignition Input wire and verify a minimum of 10.0 Volts is present on the wire

Defective power distribution assembly – replace.

NO or INCORRECT INBOARDS or CORNERS LIGHTS (WARNING)

Breakout box LED's operating correctly;

Check DIP switches on driver modules in lightbar. Verify they are all set correctly

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. Verify voltage is present at the wire input to the breakout box for the function being tested

NO TAKEDOWNS LIGHTS

Breakout box LED's operating correctly;

Verify configuration and make sure light modules are configured for takedown function

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 LIGHT OPERATION IN ONLY 1 TUB

Breakout box LED's operating correctly;

Remove top cover of tub in which lights are not functioning. Verify DIP switch is set correctly.

Check LED on Driver Module PCB is flashing when power is applied to any input wire on breakout box. If there is no LED illumination check for voltage across Red and Black power input wires to driver module. If voltage is present, replace driver module. If voltage is not present, locate the power distribution PCB (possibly in different tub) and verify fuse is not blown open. If fuse is blown, check for shorts in cabling replace any damaged cables and replace fuse. If fuse blows again, replace defective driver module assembly.

INCORRECT OR NO ARROW OPERATION

Breakout box LED's operating correctly;

Verify configuration and make sure light modules are configured for arrow function

Verify lightbar length is properly set – note that entering mode will reset lightbar to factory defaults.

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.

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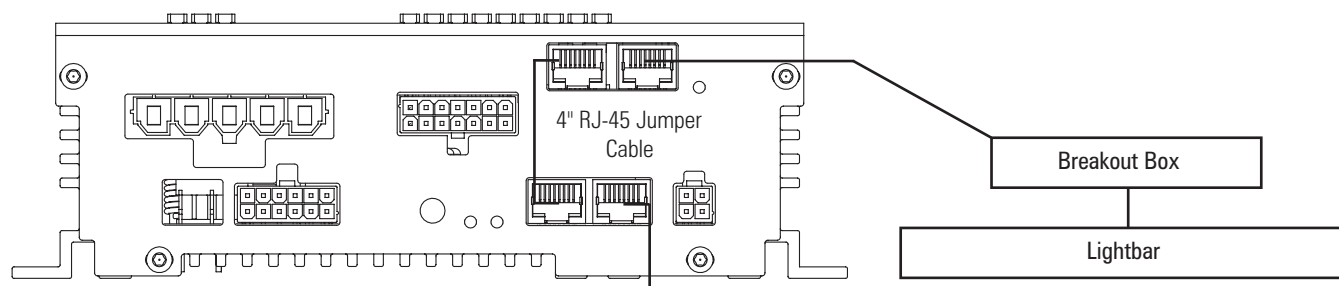
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Connection of Lightbar Breakout Box to SoundOff Signal Siren:

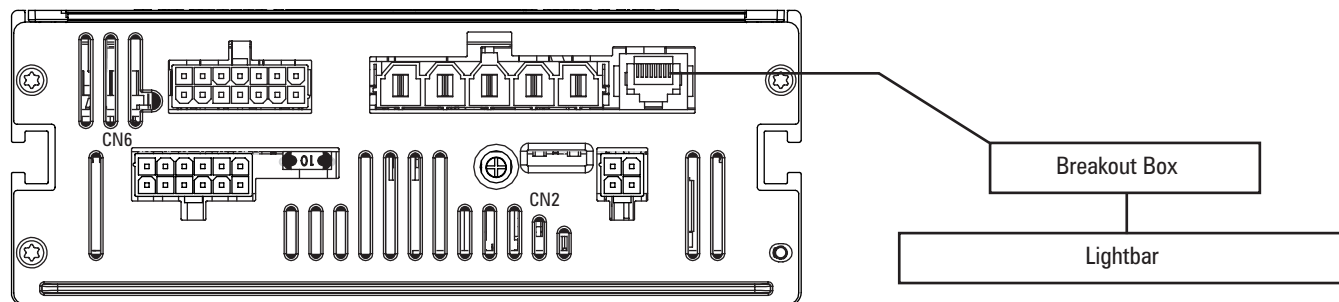
Note: Requires PC configuration app to map siren control switches to lightbar functions

Plug 1 end of RJ-45 cable to available jack on siren amplifier
Plug other end of RJ-45 cable to 'siren'

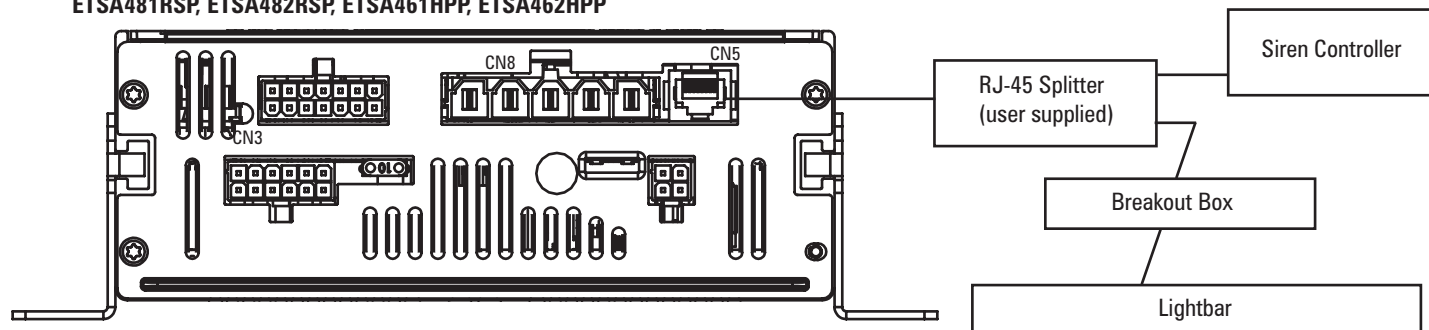
ETSA380R or ETSA385HR



ETSA481CSR or ETSA482CSR



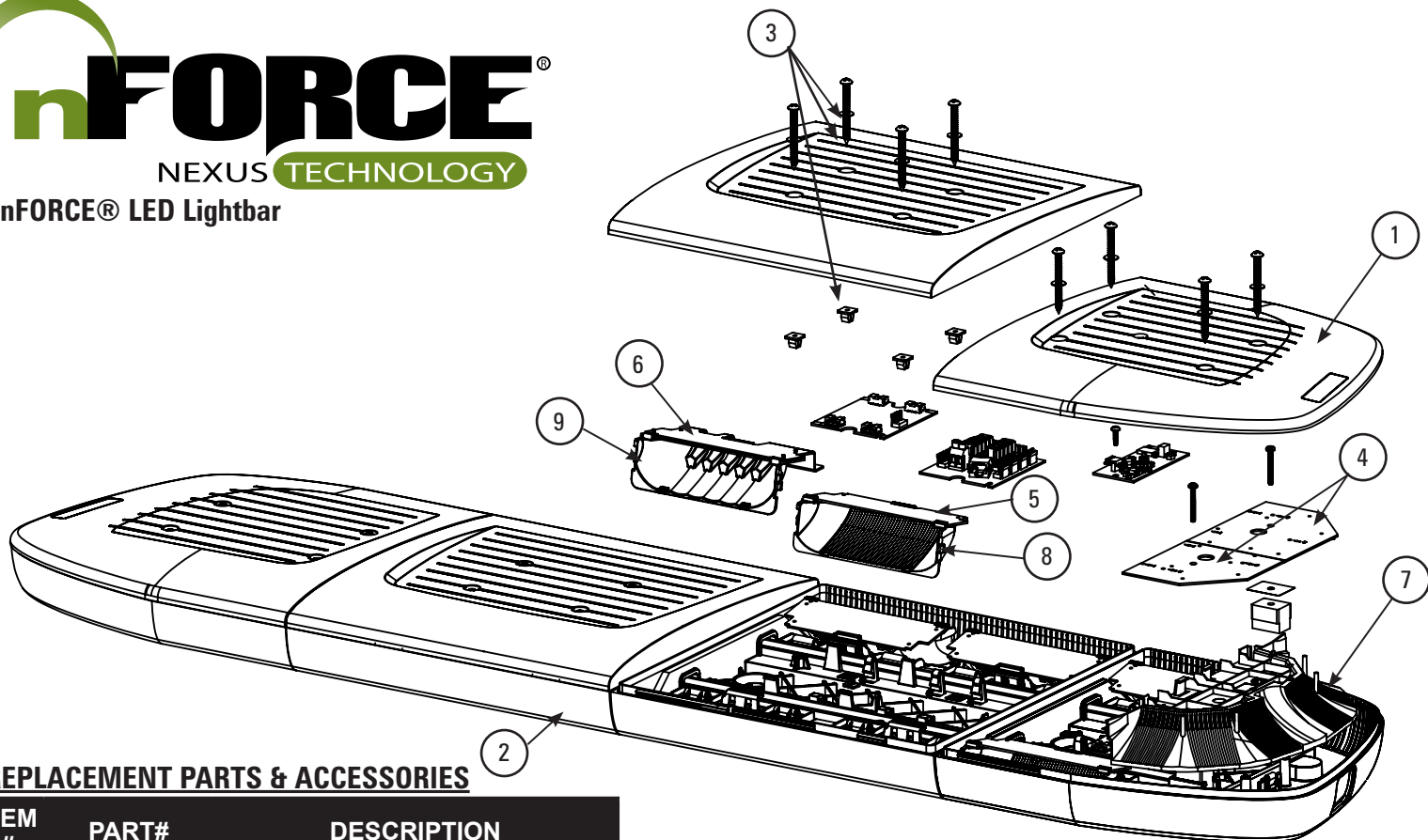
ETSA481RSP, ETSA482RSP, ETSA461HPP, ETSA462HPP



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REPLACEMENT PARTS & ACCESSORIES

ITEM #	PART#	DESCRIPTION
	PNFLBK00	STANDARD FIXED HEIGHT MOUNT
	PNFLBF00	FIXED HEIGHT PERMANENT MOUNT
	PNFLBK02	HEADACHE RACK MOUNT
	PETLF00	FIXED HEIGHT PERMANENT MOUNT KIT
	PNFLBK03	MAGNETIC MOUNT FOOT KIT (24" ONLY)
	PNFLBK04	STANDARD FIX HEIGHT MOUNT 48" TAHOE
	PNFLBK05	STANDARD FIX HEIGHT MOUNT 54" TAHOE
	PNFLBF(xx)	HOOK BRACKET KITS
	PNFLBJ00	BREAKOUT BOX
	PNFLBHNDT1	BREAKOUT BOX DATA CABLE
	PNFLBHNPW1	POWER HARNESS
	PNFLBHND5(xx)	DISTRIBUTION HARNESSES
	PNFLBHNMD(x)	MODULE HARNESSES
	PNFLBHNA1	ALLEY HARNESS
	PNFLBWMKT1	WIRE MANAGEMENT KIT
	PNFLBWGKT1	WEDGE KIT
	PNFLBHPKT1	HOLE PLUG KIT
	PNFLBFTCV1	STANDARD FIXED HEIGHTTT FOOT CAP REPLACEMENT
3	PNFLBTCSKT1	TOP COVER SCREW KIT
	PNFLBDRV(x)	DRIVER BOARDS
	PNFLBDAD1	AUTO DIM DRIVER BOARD
	PNFLBTRDRL(xx)	AUTO DIM RETRO FIT KIT

ITEM #	PART#	DESCRIPTION
	PNFLBDST(x)	DISTRIBUTION BOARDS
1	PNFLBTT(xx)LGY	TOP COVERS - GRAY GELOY
2	PNFLBTB(xx)LC	BOTTOM LENSES - CLEAR LEXAN
4	PNFLBCSS112(x)	12 LED CORNER MODULES - SMALL
4	PNFLBCSS118(x)	18 LED CORNER MODULES - SMALL
4	PNFLBCSD124(x)	24 LED DUAL CORNER MODULES - SMALL
4	PNFLBCST130(XXX)	30 LED TRI CORNER MODULES - SMALL
4	PNFLBCLS112(x-x)	12 LED CORNER MODULES - LARGE NO ALLEY
4	PNFLBCLS118(x)-Z	18 LED CORNER MODULES - LARGE NO ALLEY
4	PNFLBCLD124(x)-Z	24 LED DUAL CORNER MODULES - LARGE NO ALLEY
4	PNFLBCLT130(XXX)-Z	30 LED TRI CORNER MODULES - LARGE NO ALLEY
	PNFLBCLS112(x)-W	12 LED CORNER MODULES - LARGE WITH ALLEY
	PNFLBCLS118(x)-W	18 LED CORNER MODULES - LARGE WITH ALLEY
	PNFLBCLD124(x)-W	24 LED DUAL CORNER MODULES - LARGE WITH ALLEY
	PNFLBCLT130(XXX)-W	30 LED TRI CORNER MODULES - LARGE WITH ALLEY
5	PNFLBLS106(x)	6 LED INBOARD MODULES
5	PNFLBLS109(x)	9 LED INBOARD MODULES
5	PNFLBLD112(x)	12 LED DUAL INBOARD MODULES
5	PNFLBLT118(XXX)	18 LED TRI INBOARD MODULES
6	PNFLBHS106W	TAKEDOWN/WORKLIGHT MODULE - DUAL
9	PNFLBRFTD1	TD/WL REFLECTOR
8	PNFLBRFL845	INBOARD REFLECTOR

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If you have questions regarding this product, contact Technical Services, Monday - Friday, 8 a.m. to 5 p.m. at 1.800.338.7337 (press #4 to skip the automated message).
This instruction sheet is for the proper installation of your light bar. Please see our website for the ongoing maintenance of your light bar.
Questions or comments that do not require immediate attention may be emailed to techservices@soundoffsignal.com.

WARRANTY & RETURN GOODS PROCEDURE

CLEANING & CARE OF YOUR LIGHTBAR:

Keeping the lenses clean and scratch free will optimize the performance of the lightbar. The exterior of the lightbar including lenses should be cleaned with mild soapy water and a soft cotton cloth to remove dirt, grime and insects. Never use window cleaners or harsh chemicals on the lenses; this may cause failure of the lenses or reduce clarity resulting in the reduction of light output.

MOUNTING INTEGRITY:

A review of bolt/hardware/mounting bracket integrity should be performed at the beginning and end of each shift.

WARNING MESSAGES - PLEASE READ: _____

WARNING - DRILLING ANY HOLES INTO THE LIGHTBAR IS NOT RECOMMENDED! THE RISK OF DAMAGING INTERNAL COMPONENTS AND THE RESULTING FAILURE OF THE LIGHTBAR WILL VOID ANY WARRANTY OF THIS PRODUCT.

WARNING - 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 SHARDS OR REMNANTS. INSTALL GROMMETS INTO ALL WIRE PASSAGE HOLES.

WARNING - ROUTE WIRES ONLY IN LOCATIONS THAT ARE NOT SUBJECTED TO POTENTIAL WEAR. MAKE SURE TO AVOID ROUTING WIRES IN THE DEPLOYMENT AREA OF YOUR AIR BAG. REFER TO YOUR VEHICLE OWNER'S MANUAL FOR AIR BAG DEPLOYMENT ZONES.

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

IMPORTANT: When passing cables through fire wall or other sheet metal, insert grommet to protect the cable!

WARRANTY RETURN PROCESS:

Please contact your SoundOff Signal Sales Representative, Customer Services staff or our Technical Department (800.338.7337) for a RMA #, Return Merchandise Authorization Number.

The following information is required for issuance of the RMA #:

- Reason for returning the product*
- Address where replacement product is to be shipped*
- Telephone number where you may be reached*
- SoundOff Signal invoice number on which product was purchased**
- SoundOff Signal part number and serial number**
- E-mail address where RMA # should be e-mailed**
- Fax number where RMA # should be faxed**

* RMA # will not be given without this information.

** If available, please provide this information.

SoundOff Signal will NOT accept returns without an RMA #. Each RMA # is good for only one (1) return and will expire (10) days after the date it was issued. Products must be shipped back to SoundOff Signal and the RMA # clearly marked on the outside of the package near the shipping label. Please use the following address on your shipping label:

SoundOff Signal
ATTN: RMA # / Technical Services
3900 Central Parkway
Hudsonville, MI 49426

WARRANTY EXCLUSIONS:

Shipping & Handling, labor and service fees are non-refundable. SoundOff Signal is not liable for any damage due to installation or personal injury as a result of using SoundOff Signal product.

WARRANTY FORFEITURE:

Warranty will not be granted if the Warranty Return Policy & Procedure rules are not strictly followed. Physical damage resulting from customer abuse will void warranty. Warranty will also be voided if any SoundOff Signal and/or manufacturer serial tags, product stickers, seals, or the like, are removed, altered or tampered with. Returned product that is damaged by shipping via the RMA # procedure is not the responsibility of SoundOff Signal.

Document effective date on cover and below supersedes previously dated policies and statements.

There are no other warranties, expressed or implied, including, but not limited to, any implied merchantability or fitness for a particular use. SoundOff Signal reserves the right to modify this warranty statement at any time; or to discontinue, modify, or upgrade any products of its manufacture with design improvements without prior notice.

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