12-24 DC	**7A** 10 amp fuse included	**15A** amp fuse included	**24A** 30 amp fuse includ

Warranty and Disclaimer

Within FIVE years after the purchase date, the original buyer may return any SAR products that have failed due to a defect in materials or workmanship for a replacement product.

Installation of this product must be performed by a licensed professional. Should the failure of the product be the result of damage occurring as a result of improper installation, alteration of the product or an act or omission on the part of the consumer, this warranty is void. XKGLOW Lighting shall not be responsible for any consequential damages which arise from the use and/or installation of the product. If the kit is installed in any manner other than specified, XKGLOW Lighting reserves the right to deny any warranty claims at the discretion of the technical support department. Any product return must include the original packaging, invoice number and a statement of the alleged defect. Upon receipt of the returned product, the company will test the product for defect. If the results of the testing do not support the warranty claim, do not reveal any defect or indicate consumer negligence in the installation and handling of the product, then the product will be returned to you and you will be charged a reshipping fee. If the product is returned from an address within the continental United States, within the first 30 days after purchase, and is found to be defective, XKGLOW Lighting will exchange or refund the original purchase expense. This offer does not extend to the cost for shipping charges on any international packages.

Additional Disclaimer Terms

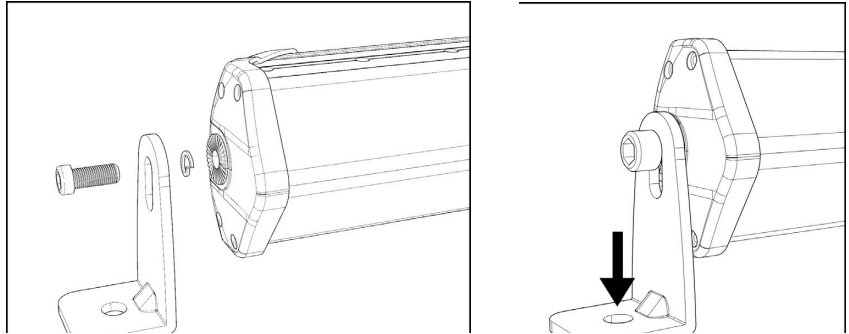Please check your local and state laws for the proper use of this product.

- Improper installation of electrical products such as lighting may cause damage to any vehicle or device to which the improperly handled or installed lighting is attached.
- Improperly installed product may cause electrical injury to persons.
- Installation of this product must be performed by a licensed professional.
- XKGLOW assumes no liability for the installation of the product.
- Warranty or liability will not exceed the product purchase price, which shall be buyer's sole and exclusive remedy.

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SAR Bar Installation

<u>Before installing the components on the vehicle, begin with a quick test off of the vehicle.</u> Follow the wiring information on the next page by first connecting all of the data input and data output wires between the SAR Controller and the SAR Bars. Then proceed by connecting all RED power wires to positive voltage and the BLACK power wires to a ground. The vehicle's battery will be sufficient for this test. Power on and test functionality of the system. It is not necessary to set orientation at this point as they may be mixed up when mounted on the vehicle.
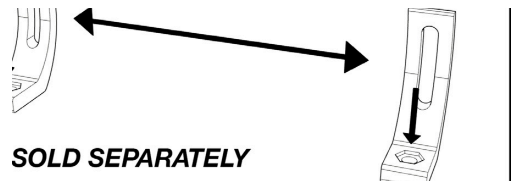
Mounting SAR Bars with L-brackets —

Included with each SAR Bar are two end-mount L-brackets. Following the diagram to the right, loosely mount the L-brackets to the ends of the light bar with the lock washer between the bar and the bracket. Place the light bar onto the vehicle in the desired location. Mark the holes indicated by the arrow and drill out the holes using a 3/8" drill bit. Secure the brackets with the included hardware. To finish the install, adjust light bar rotation to desired position and then tighten the end cap hex cap screws.
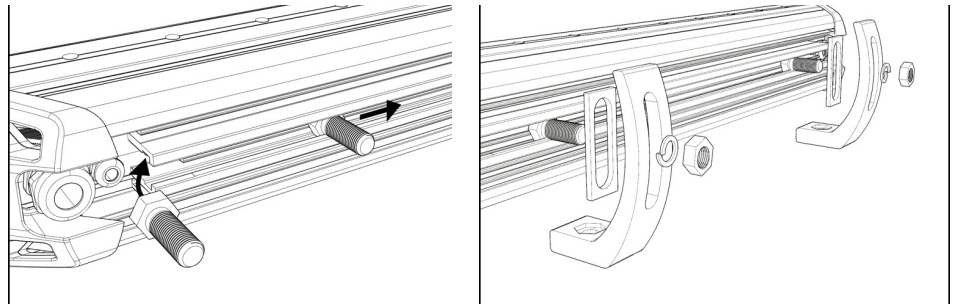
Mounting SAR Bars with Adjustable Rear Brackets

(SOLD SEPARATELY) — This portion covers installation of the SAR Bars with the optional Adjustable Rear Brackets. Begin first by mounting the brackets to the desired location on the vehicle. Please note that the **MAX** spacing between these brackets will be 7 inches **LESS** than the length of the bar (see arrow between brackets in diagram to the right). Example- on a 20 inch SAR Bar, the maximum distance these brackets can be apart is 13 inches. Measure, mark and drill a 3/8" hole for each bracket (downward facing arrows to the right). Secure the brackets to the vehicle using the supplied hardware.
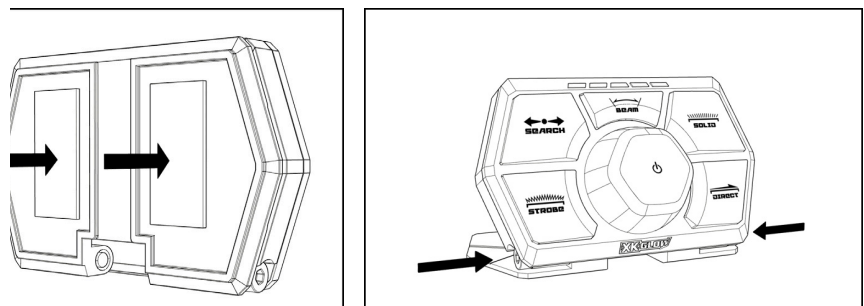
SOLD SEPARATELY

Insert the supplied bolts into the rear of the SAR Light bar. These will slide in on the side nearest the orientation button as shown in the first diagram to the right. Insert the rubber spacers onto the bolts. Position the light bar near the brackets, insert the bolts into the brackets, and secure with the included nuts and lock washers. To adjust rotation or to move the light bar from left to right, simply loosen these nuts, reposition, and snug back.
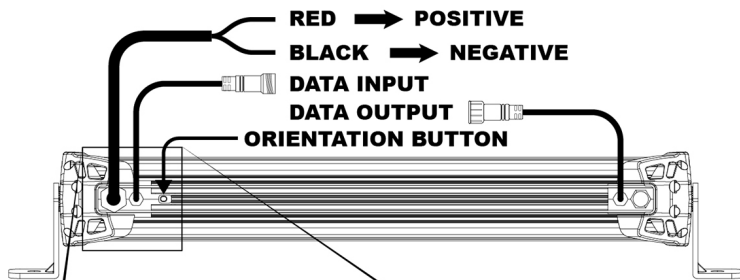
SAR Controller Installation

Find a convenient location to mount the SAR Controller. Using the provided 3M tape, firmly press the controller into the location. Use the center channel to feed the wiring through to the rear if necessary.
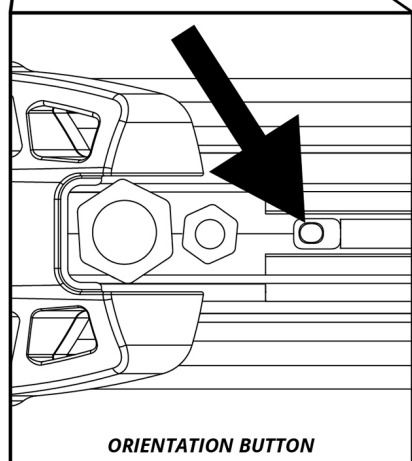
Once mounted, use the two screws pointed out in the second diagram to the right to adjust the angle of the SAR Controller. When in place, tighten the screws to lock the angle in place.
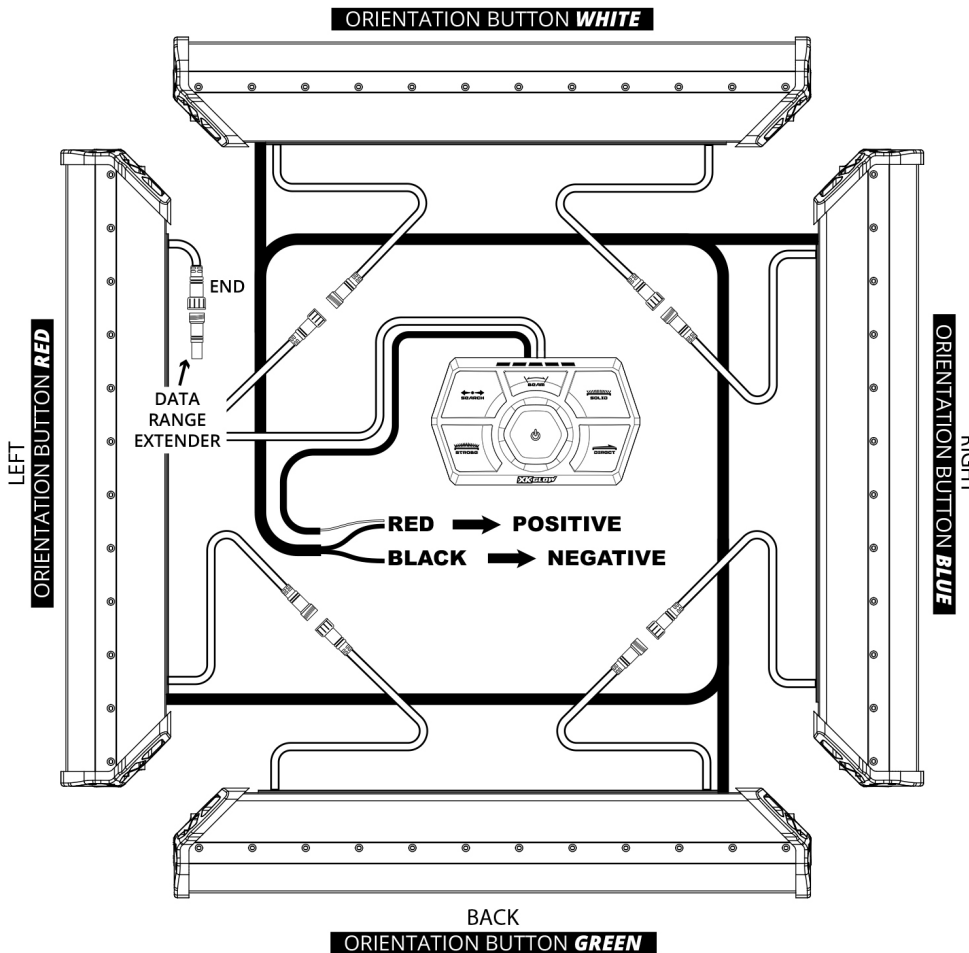
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Wiring Information

RED ➡ POSITIVE
BLACK ➡ NEGATIVE
DATA INPUT
DATA OUTPUT
ORIENTATION BUTTON

ere are 3 wires coming out of the back of each SAR Light Bar. oking at the rear of the light bar as shown to the left; starting m the left side is the **power wire** to go to power and ground. ta input wire will either plug directly into the SAR Controller into another SAR Light Bar on the vehicle. Next to the data ut wire is the **orientation button**. This is to set the light bar forward, left, right, or rear facing. On the right side of the bar he **data output wire** which goes to the next SAR Light Bar.
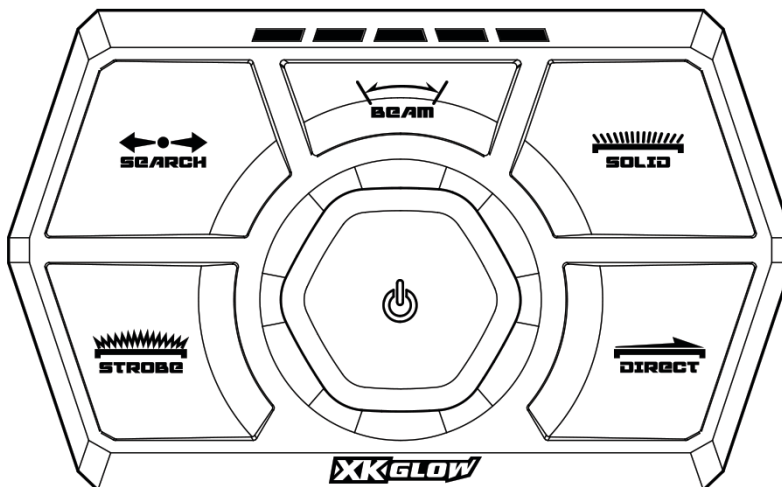
ORIENTATION BUTTON

ORIENTATION BUTTON **WHITE**

LEFT
ORIENTATION BUTTON **RED**

END

DATA
RANGE
EXTENDER

RIGHT
ORIENTATION BUTTON **BLUE**

RED ➡ POSITIVE
BLACK ➡ NEGATIVE

BACK
ORIENTATION BUTTON **GREEN**

ORIENTATION	LED COLOR
FRONT *DEFAULT*	WHITE
RIGHT	BLUE
REAR	GREEN
LEFT	RED

Using the above wiring diagram, wire up each component of the SAR System. Each SAR Light Bar and the SAR Controller must be connected to constant power and ground. **12-gauge wiring or lower** is required. Plug the SAR Controller into the first SAR Light Bar (data input wire) in the series. Using the data output wire from that bar, connect the next light bar in series. Repeat until all SAR Light Bars on the vehicle are connected. Please note – the order in which the bars are connected is not important. The orientation is set using the orientation button on the back of the light bar. Once the light bars are connected to power, use the chart above and set the orientation button to the corresponding color. If the total data wire length exceeds 24ft, please connect the data range extender plug (included in SAR 360 4-light bar system) to the output data wire of the last light bar.

Each SAR Light Bar must be connected to constant power with an inline fuse (included), however these can be connected to different power sources with common ground. Running multiple SAR Light Bars off of shared power and ground wires is fine, however, we do recommend staying below 40 amps per wire set. If your system exceeds 40 amps, simply run another power and ground wire to the SAR Light Bars with an additional inline fuse. The controller red wire must be connected to the same power as the 1st SAR bar.

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SAR CONTROLLER

SEARCH — Enable Search mode to ulitize the center dial to aim light. 90 and 360 degree Search modes available.

BEAM — The Beam select button adjust the width of the beam while in the Search mode. 6 beam width available.
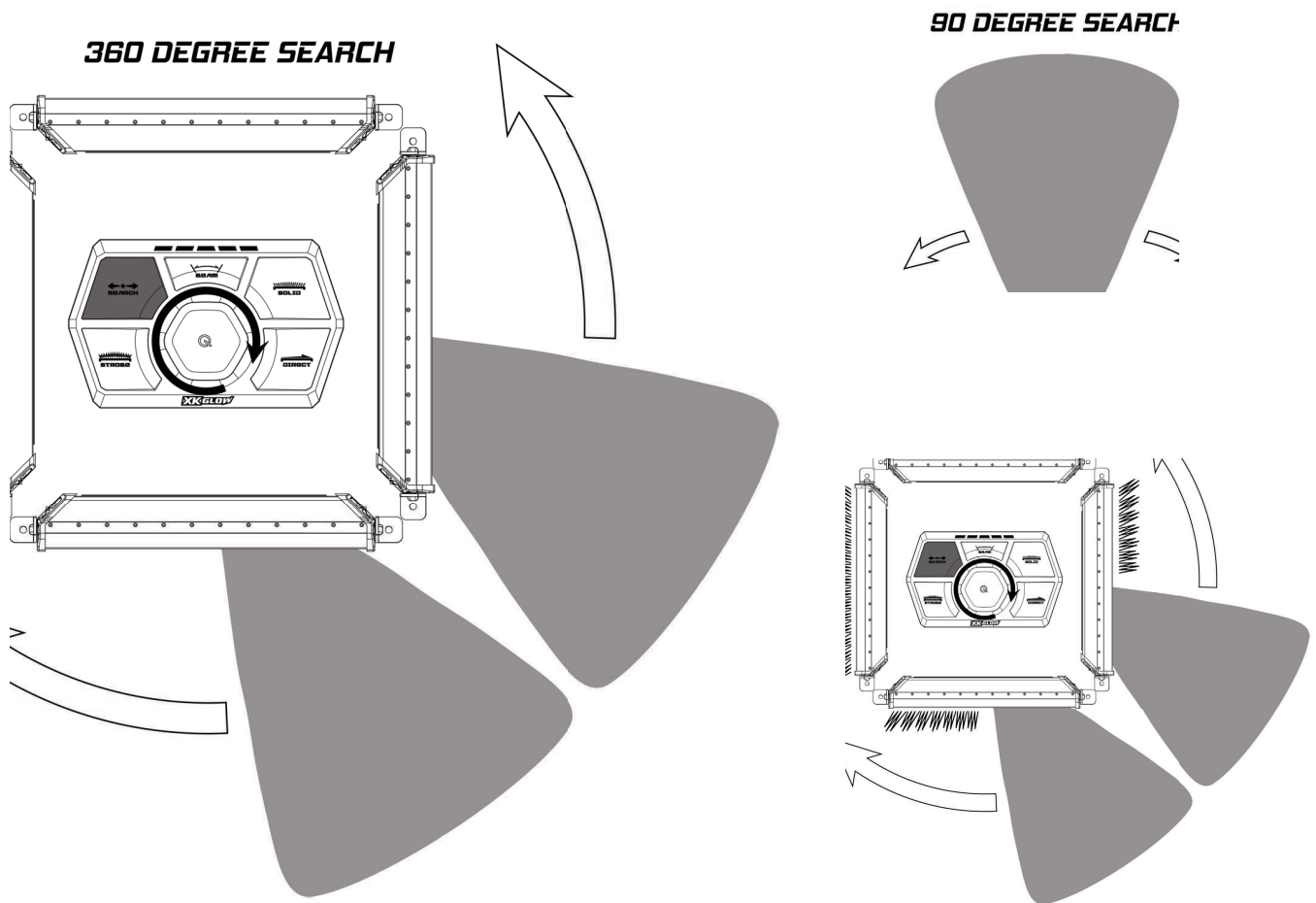
SOLID — Solid mode turns all connected SAR Bars to solid on.

STROBE — Strobe mode allows the user to cycle through five pre-defined strobe patterns.

DIRECT — Direct mode features Left, Right, and Center chasing patterns with the option to have the side bars strobe

The **SAR Controller** is the command center of the SAR System. The single controller is capable of controlling every SAR Light Bar equipped to a vehicle.

To turn the lights ON/OFF, click the center dial. The green indicator LEDs at the top of the SAR Controller will illuminate. These indicator LEDs will respond to different modes when activated for visual confirmation.

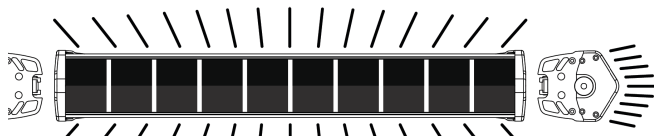**360 DEGREE SEARCH**

90 DEGREE SEARCH

Search Mode allows the user to direct the light where necessary. To activate Search, simply click the Search button. The forward-facing light bars will illuminate and can be controlled via the center turn dial. Turn the dial clockwise to direct right, and counterclockwise to direct left.

90 Degree Search vs 360 Degree Search –

- Use the 90-degree setting when only forward-facing light bars are used. The 90-degree mode will lock the light beam to the forward-facing bar only. Example- if you turn the dial all the way left, the light will automatically stop when it reaches the end of the light bar.
- Use the 360-degree setting when SAR Light Bars are installed on multiple sides of the vehicle. The 360-degree mode will allow the light to pass by the ends of the light bar when directed. Example- when the light reaches the end of the forward-facing bar, it will pass to the bar on that side of the vehicle.
- To toggle between the **90 Degree Search** and the **360 Degree Search**, simply hold the Search button until the indicator LEDs at the top of the controller flash.

Search/Strobe Mode –

- The Search and Strobe mode is a variant of the standard Search mode but adds strobe when necessary. In the standard Search mode, all LEDs outside of the controllable beam section remain off but, in the **Search/Strobe Mode**, those off LEDs strobe on and off for lateral visibility.
- To activate the **Search/Strobe Mode**, double click the Search button. To return to normal Search Mode, simply click the Search button again.

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SOLID

BEAM

the beam in the Search mode. While in Search mode, click the beam button to cycle through the 6 available widths ranging from 15 degrees all the way up to 90 degrees. A single click moves to the next larger beam width until the full 90 degrees is reached. Another click after 90 will return the beam back to 15 degrees and the cycle will s... diagram be...

...ow. Strobe mode features an auto-memory function so if ...ther mode is selected, the same strobe option will be ...ected when returning to Strobe mode.

LIGHTHOUSE MODE
Lights rotate around 360 degrees (if applicable).

TRIPLE BURST
All LEDs triple flash followed by a short pause.

ALTERNATING SINGLE FLASH
Each alternating reflector single flash strobes.
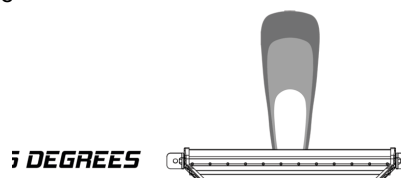
RAPID BURST
All LEDs quick strobe.
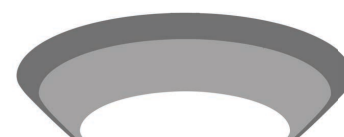
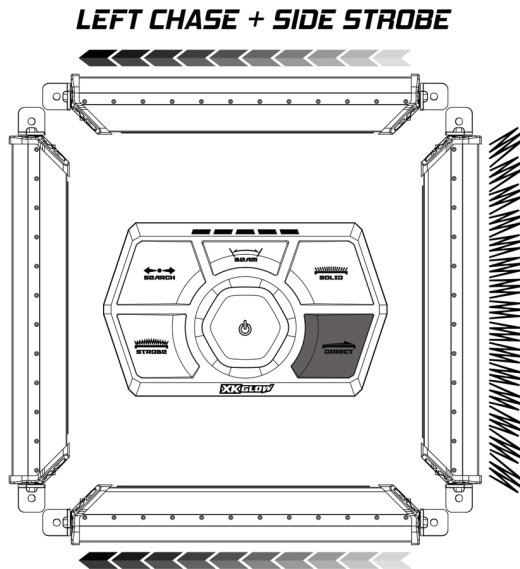**ALTERNATING RAPID BURST**

5 DEGREES

0 DEGREES

5 DEGREES

0 DEGREES

5 DEGREES

Direct mode is used in a situation where directing traffic is necessary, or even just when parked on the side of the road and want to be more visible to oncoming traff The Direct mode features 6 different directional settin The first three modes control the forward facing and re facing bars. The remaining three are a repeat of the fi three with the addition of the side facing bars. When modes 4-6 are activated, the side bars will constant strobe for additional lateral visibility if the on-road situation requires. A detailed breakdown of all 6 of thes settings can be seen in the diagram to the right. Just a the Strobe mode's auto-memory, the Direct mode features the same. Clicking out to another mode and return

RIGHT CHASE
Front and rear bars chase towards right side of vehicle.

LEFT CHASE
Front and rear bars chase towards left side of vehicle.

SPLIT CHASE
Front and rear bars chase outward towards both sides of vehicle.
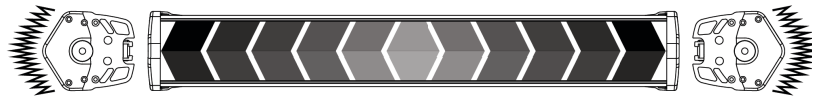
RIGHT CHASE + SIDE STROBE
Front and rear bars chase towards right side of vehicle.
Side bars on constant strobe.

LEFT CHASE + SIDE STROBE
Front and rear bars chase towards left side of vehicle.
Side bars on constant strobe.

SPLIT CHASE + SIDE STROBE
Front and rear bars chase outward towards both sides of vehicle.
Side bars on constant strobe.

LEFT CHASE + SIDE STROBE

OTHER CONTROLLER FUNCTIONS

Change controller power-on default mode
Turn on the system and change to the mode you desire to save as power-on default. Hold the STROBE and DIRECT button together for 3 seconds and release. The led indicator on the controller will blink 3 times. The current mode will be the default mode next time you power up SAR system.

Controller reset
Turn on the controller, hold SOLID button for 5 seconds and release. The indicators will blink 5 times and the controller will be reset back to factory setting.

SAR light bar reset
Turn on the SAR light bar. Hold the rubber indicator button on the back of the light bar for 5 seconds and release immediately. The indicator will change to white color and the light bar will change back to factory setting.

Learn more about off-road lights we have.