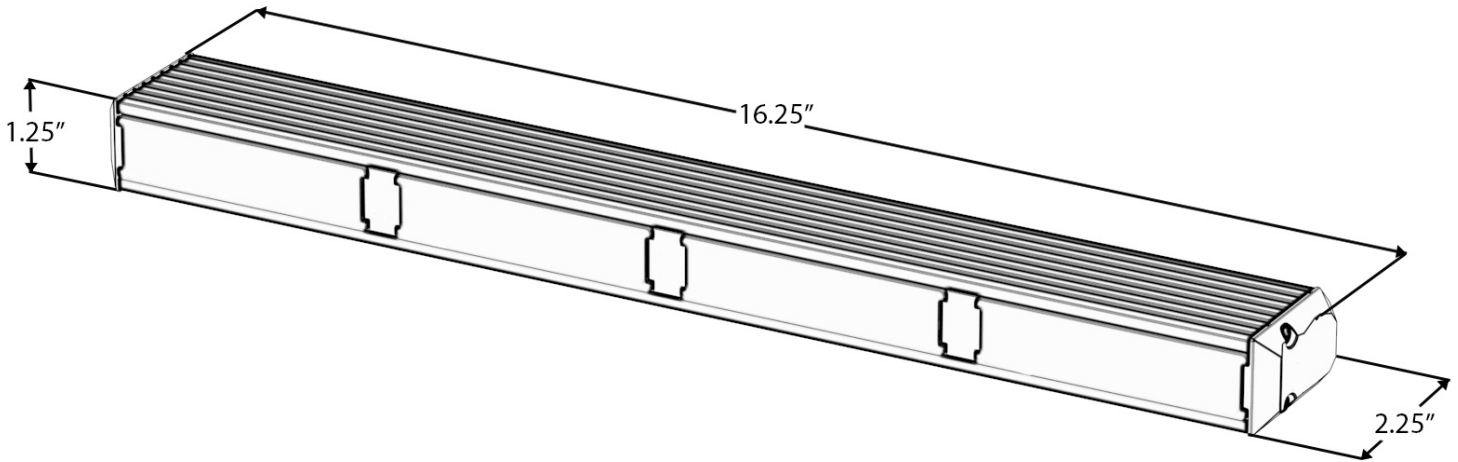
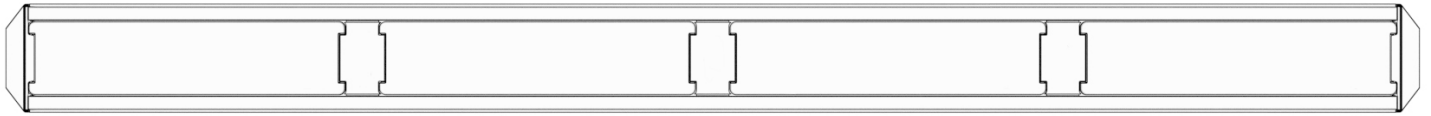




VIRTUE[®] ELITE 4

MULTICOLOR DASH LIGHT



B-VRLE4

INSTRUCTION MANUAL



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Warnings and Notices for Users and Installers

This document must be delivered to and read by the end user and installer as it serves to provide you with the required information for proper and safe use of your STL product. Before operating this or any STL products the user and installer must read this manual all the way through. You will find important information in this manual that could prevent property damage and/or serious injury to the user and installer.

STL products are intended to alert pedestrians and other operators of the presence of personnel, the operation of emergency vehicles, an emergency site, and any warning needs. This does not ensure that pedestrians or drivers will react, heed, or observe emergency warning signals. Nor does the use of emergency signals grant or ensure you the right of way. It is your responsibility to make sure you can proceed safely before driving against traffic, entering an intersection, responding at a high rate of speed, or walking on or around traffic lanes.

Your STL emergency vehicle devices should be tested daily to ensure the device and all its functions are operating correctly. If you experience a malfunction contact STL's Customer Service immediately for troubleshooting options, or a warranty or service claim. You must ensure that the projection of the visual and audible signal is not blocked by vehicle components (i.e.: open trunks, visors, compartment doors), vehicles, other obstructions, or people.

This is professional grade equipment and is intended for strict use by authorized personnel only. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. You must know and be familiar with all applicable city, state, and federal laws and regulations prior to the use of emergency vehicle warning devices.

SpeedTech Lights, Inc assumes no liability for any loss resulting from the use of this warning device. Proper installation is vital to the performance of the warning devices and safe operation of the emergency vehicle. Since the operator is under stressful environments the equipment must be properly wired and mounted to ensure effectiveness and safety. Therefore controllers must be properly installed and placed within convenient reach of the operator so eye contact with the roadway is never lost.

The effectiveness of your STL equipment is highly dependent upon correct mounting and wiring. Improper wiring and mounting of the warning device will reduce the output and performance of the equipment. Emergency warning devices frequently 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 severe personal injury and/or serious vehicle damage, including fire.

Electromagnetic interference can be caused by many electronic devices used in emergency vehicles. To ensure that this doesn't happen to you, Light Bars should be mounted a minimum of 12" - 34" from the radio antenna and do not power your equipment from the same circuit or share the same grounding circuit with radio communication equipment. After installation, test all the vehicle's equipment together to ensure everything operates free of interference.

Driver and/or passenger airbags (SRS) will impact the way you mount your equipment. Any equipment installed in the deployment area of the airbags will damage or dislodge the airbags and sensors. This will also reduce the effectiveness of the airbags to protect the passengers and therefore these areas must be avoided. Installers must make sure that this equipment along with any parts, hardware, wiring, power supplies, and switch boxes do not interfere with the airbags, SRS wiring, or sensors.

All STL equipment needs to be mounted and installed according to the vehicle manufacturer's instructions and securely attached to a part of the vehicle of sufficient strength to withstand the forces applied by the equipment. This device should be permanently mounted within the zones specified by the vehicle manufacturer. This especially applies to equipment mounted on the exterior of the vehicle to avoid dislodging. Mounting units on the interior of the vehicle by a method other than permanent mount is discouraged as it may become detached under aggressive driving conditions such as sudden braking, collision, or swerving.

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 Your STL Product

- Unpack your unit to identify all parts including but not limited to: Light Bar, switch box, brackets, screws, bolts, wiring harness, fuses, etc.
- Some parts may be in small bags.
- Some products may be packaged inside boxes of other products.
- Some parts such as Gutter Brackets, may be in the foam protection. Double check that no parts are left within the foam protection or left in the box.



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Important Points for Your Safety and Longevity of Your Light Bar

- Installers are required to have a good understanding of automotive electronic systems and procedures for proper installation.
- Never stare directly into the LEDs as momentary blindness and/or eye damage may occur.
- Never take any lights through a car wash. Use only water to clean the outer body/lens of your equipment.
- Never use a pressure washer to clean any STL products. Inspect and test your product daily to ensure it operates properly and is mounted correctly.
- Never cut wires or work on a unit while the unit is still connected to a power source.
- Never install this product or route any wires through or in the deployment area of the airbag. Doing so may cause serious personal injury as it will damage or reduce the effectiveness of the airbag by causing the unit to become a projectile. Reference the owner's manual for your vehicle to find the airbag deployment area. The User/Installer assumes all responsibility to determine proper mounting location, based on providing ultimate safety to all passengers in the vehicle.
- If the product requires you to drill holes, the installer must ensure that the drilling process does not damage any vehicle components or other vital parts. Check all sides of the mounting surface before beginning to drill. Make sure to deburr all drilled holes and remove any metal remnants or shards to avoid injury and wires from becoming spliced. Grommets are to be installed in all wire passage holes.
- Grommets, cable ties, looms, and other installation hardware should be used to anchor and protect all wiring. Fuses should be properly sized and located as close to the power take off points as possible to protect the wiring and device. To protect against short circuits, a fuse is included by STL for all products. DO NOT use a fuse with a higher amp rating than the initial fuse included by STL for all products.
- Insulation displacement connectors are not to be used.
- In order for STL products to operate at optimum efficiency, a secure and good electrical connection to the battery's Ground Post must be made. The recommended procedure requires the unit's ground wire be connected directly to the NEGATIVE (-) battery post. DO NOT use Circuit Breaks.
- Instruction manuals should be stored in a safe place for reference if you need to reinstall the unit or perform maintenance. They can also be found at the main site under the product listing at www.SpeedTechLights.com. If your product is no longer available on the website contact STL's Customer Service at 800-757-2581 for assistance.
- If your product requires the use of a control box or remote device to turn on and control your equipment, make sure it is installed in a location that allows both the user and the vehicle to operate safely in any driving condition.
- Never activate or control your equipment in hazardous driving conditions.
- Use SXL type wire in the engine compartment where higher heat resistance is required according to SAE J-1128. All wires should be in accordance with the minimum wire size and other recommendations made by the manufacturer and be protected from hot surfaces and moving parts.
- FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS, WARNINGS, NOTICES, AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE THAT WILL VOID YOUR WARRANTY AND/OR CAUSE SERIOUS INJURY TO YOU AND YOUR PASSENGER.

Pre-Installation and Testing

BENCH TEST all units prior to installation by connecting the Positive Cable (Red) and Negative Cable (Black) to a power source to ensure all the features and parts of the Light Bar are functional.

Test Check List:

- LED diode and LED Module functionality
- Flash patterns
- Non-volatile memory
- Physical damage

If you have trouble call Customer Service at 800-757-2581 before proceeding.

Maintenance

While STL's Light Bars are very durable, there are some things you need to keep in mind and practice to preserve the longevity and function of your Bar.

- Never take any STL Light Bars through a car wash, such as a pressure washer, automatic car wash, brushes that will scratch your equipment or similar car washes or equipment where chemicals, high pressure water, and materials may scratch or damage your equipment.
- Use Water (H₂O) with a soft cloth to clean your Light Bar and lenses.
- Yellowing of clear lenses may occur overtime. Lenses can be purchased by calling STL Customer Service at 800-757-2581.

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Wiring Diagram

Wire Color	Function
 Red*	Positive- Memory Mode 1
 Green*	Positive- Memory Mode 2
 Black*	Negative
 Yellow	Flash Pattern
 White	Sync (Max 2 units)

* Indicates a main power cable.

NOTE: All cables except Negative contact +12 VDC.

NOTE: Flash Mode 2 function can only be activated while Flash Mode 1 cable is receiving +12VDC too.

Specifications

Voltage	12 VDC
Amps	< 2.3
Optic	Linear
LED Count	40
Cable Length	11' Light Bar Cable, 1.5' Cig Plug Cable (Sold Separately)
Flash Patterns	40

Flash Pattern Synchronization

- Make sure both units that need to be synced together are powered On and flashing on the same pattern.
- Connect the White cables of both units to each other.
- Connect the Yellow cables of both units and contact +12 VDC to cycle all units to the next pattern.
- Power all units Off and back On to verify Synchronization is complete.

Cigarette Lighter Plug Switch Operation (Sold Separately)

On/Off/On Switch:

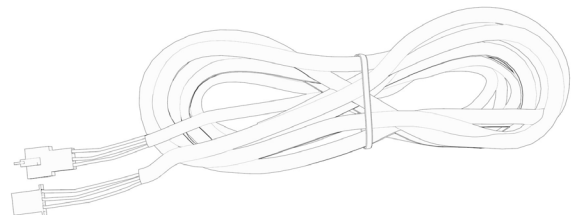
- Top On Position: Turns on the Light Bar in Memory Mode 1.
- Off Position: Turns off the Light Bar.
- Bottom On Position: Turns on the Light Bar in Memory Mode 2.

Flash Pattern Button:

- Cycles to the next flash pattern with each press.
- Non-Volatile memory recalls the last flash pattern selected.
- Hold for 2 seconds to toggle Steady Burn mode.
- NOTE: Do NOT operate in Steady Burn mode longer than 1 hour.
- Hold for 3 seconds to toggle Random pattern mode.

Extension Cable (Sold Separately)

- If you have an extension cable with connectors, connect the corresponding ends to one another. Use the connector at the end of the cable to plug into the control box.
- If you have an extension cable with one connector, you will need to cut the connector off of the main cable harness coming out of the Light Bar. Save it as a spare part. You will solder and heat shrink each wire within the cable harness to each wire in the extension cable harness. DO NOT cross connect wires. Use the connector at the end of the extension cable to plug into the control box.
- If you have an extension cable with no connectors, you will need to cut in the middle of the main cable harness coming out of the Light Bar. You will solder and heat shrink each wire within the cable harness to each wire in the extension cable harness. DO NOT cross connect wires. Use the reattached connector from the end of the main cable harness to plug into the control box.
- NOTE: DO NOT leave connectors, cables, solder points exposed to heat, moisture, or debris.

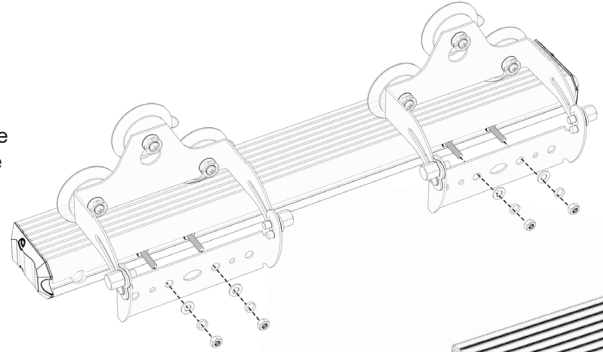


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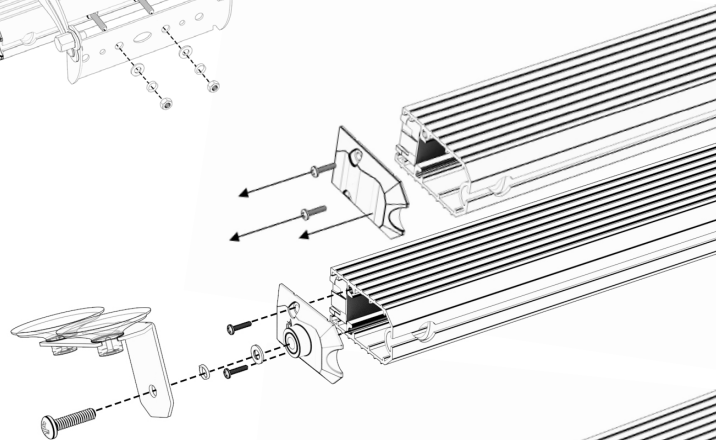
90° Suction Cup Bracket (Sold Separately)

- Position the slide track screws included with the unit such that the screws line up with the bracket oval tracks. Use the included nuts and washers to secure the bracket to the unit.
- Attach rubber suction cups to the bracket.
- Fasten included screws into suction cup.
- NOTE: Do not moisten suction cups prior to application.



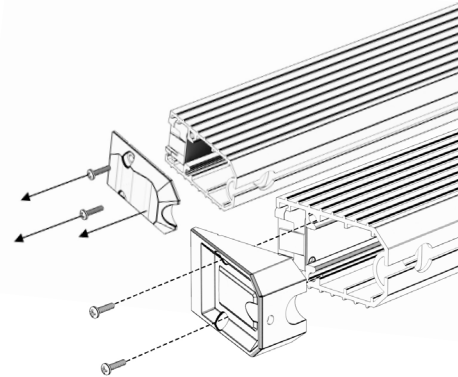
360° Suction Cup & L-Brackets (Sold Separately)

- Remove the standard end caps from the unit.
- Replace with the 360° Suction Cup end caps using screws from the standard end caps.
- Attach the brackets to the end caps using the included hardware.
- Attach the suction cups to the brackets.
- Fasten included screws into suction cup.
- The brackets can be used as L-bracket mounts by not attaching the suction cups and using the oval mounting tracks.
- NOTE: Do not moisten suction cups prior to application.



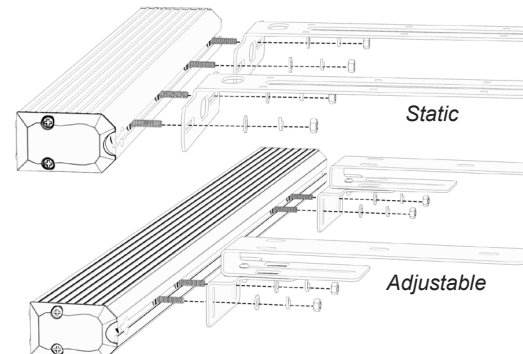
Surface Mount End Caps (Sold Separately)

- Remove the standard end caps from the unit.
- Replace with the Surface Mount End Caps using screws from the standard end caps.



Headliner Mounting Bracket (Sold Separately)

- The Static Headliner Bracket will be 1 solid piece.
- Position the slide track screws included with the unit such that the screws line up with the bracket oval tracks. Use the included nuts and washers to secure the bracket to the unit.
- The Adjustable Headliner Bracket includes 1 base bracket and 1 J-bracket.
- Attach the base bracket to the J-bracket via the long central tracks.
- Position the slide track screws included with the unit such that the screws line up with the base bracket oval tracks. Use the included nuts and washers to secure the base bracket to the unit.



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Windshield Visor Assembly and Mounting

The windshield visor contents include:

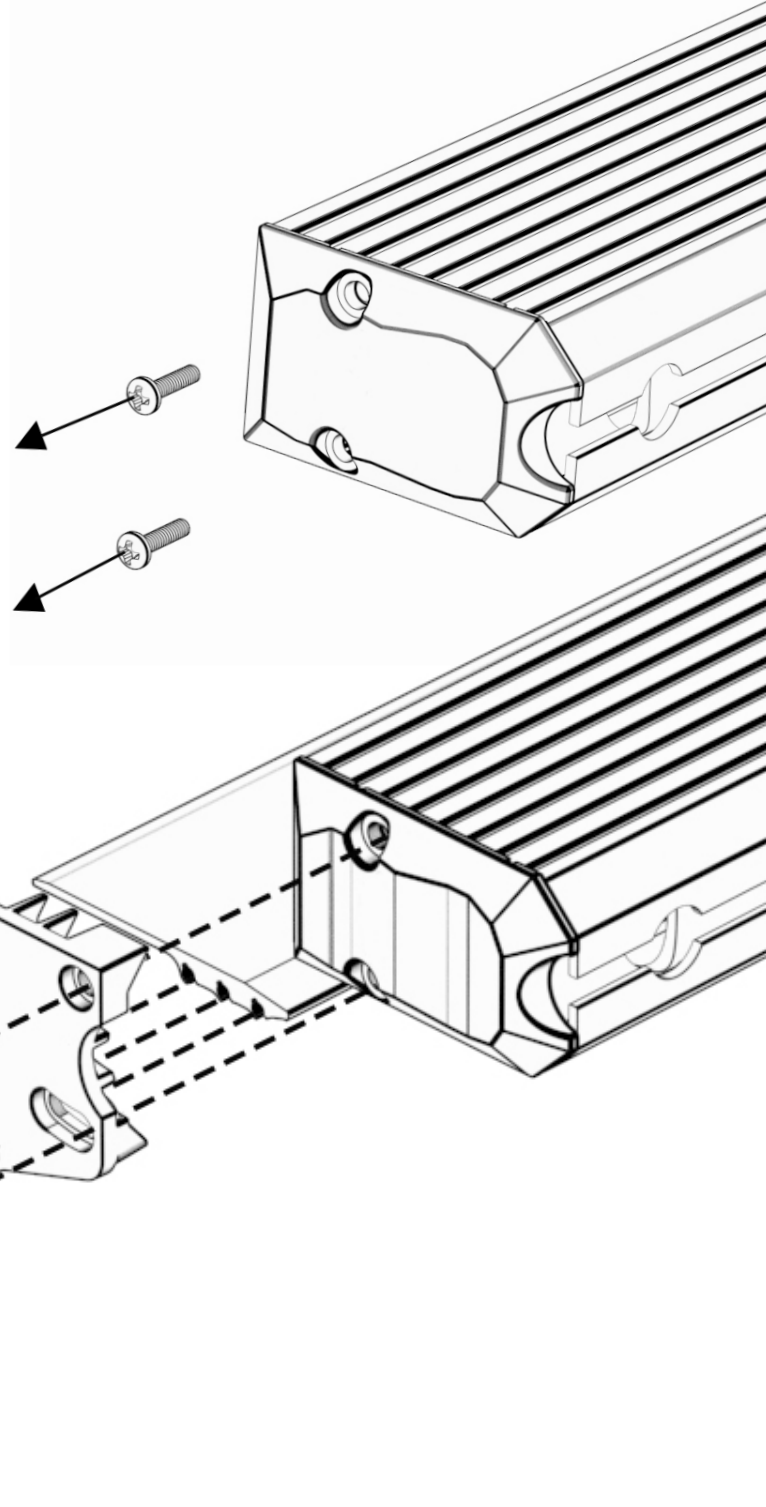
- (1) Visor
- (2) Visor end caps
- (6) Short screws
- (4) Long screws

1. Remove the stock end cap screws from both ends of the Light Bar.

NOTE: Save these screws to revert back to non-visor configuration.

2. Secure (2) visor end caps onto both ends of the visor using (6) short screws.

3. Secure the visor assembly to the Light Bar using (4) long screws included with the windshield visor.

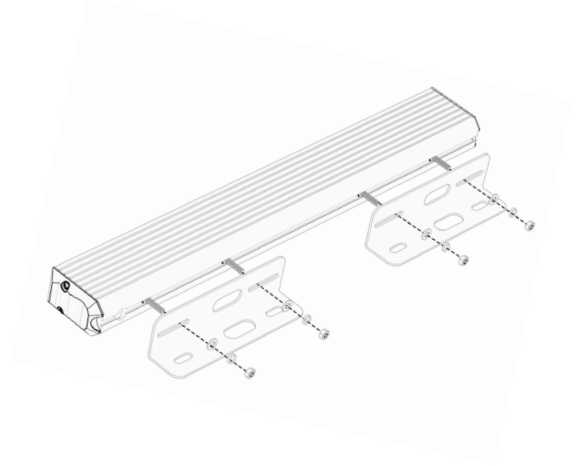


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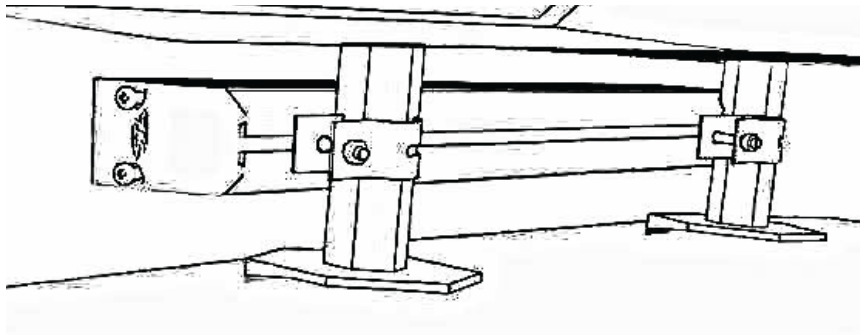
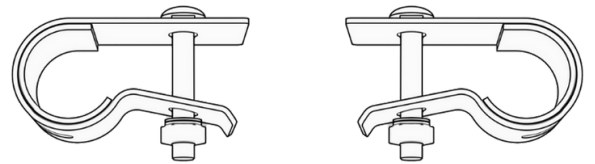
Static Mounting Bracket (Sold Separately)

- Position the slide track screws included with the unit such that the screws line up with the bracket oval tracks. Use the included nuts and washers to secure the bracket to the unit.



Head Rest Bracket (Sold Separately)

- The Head Rest bracket set will also include two (2) slide track screws, two (2) rubber strips, and two (2) nuts.
- Detach the headrest from the seat.
- Slide the rubber grip strips inside the bracket so it cups the curved surface of the bracket, then slide the head rest rods into the bracket.
- Slide the long mounting screws into the track of the stick bar.
- Secure the bracket to the stickbar using the nuts such that the flat part of the bracket is flush against the stickbar.





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Flash Pattern List

- Half-Half Slow
- Half-Half Medium
- Half-Half Fast
- Half-Half Medium->Fast
- Half-Half Triple Burst
- Alternating 1-1 Slow
- Alternating 1-1 Medium
- Alternating 1-1 Fast
- Alternating 1-1 Medium->Fast
- Alternating 1-1 Triple Burst
- Alternating 2-2 Slow
- Alternating 2-2 Medium
- Alternating 2-2 Fast
- Alternating 2-2 Medium->Fast
- Alternating 2-2 Triple Burst
- Full Slow
- Full Medium
- Full Fast
- Full Medium->Fast
- Full Triple Burst
- Night-Rider Double Sweep Slow
- Night-Rider Double Sweep Fast
- Single-Pong
- Primary: Half Steady A – Half Blink B
- Secondary: Half Steady A – Half Blink B
- Primary: Half Steady B – Half Blink A
- Secondary: Half Steady B – Half Blink A
- Half-Half -> Full Blink
- Alternating 1-2 Slow
- Alternating 1-2 Fast
- Combo-Patrol
- Combo-Rapid
- Primary: Half-Half Slow
- Primary: Half-Half -> Full Blink
- Primary: Alternating 1-1 Medium
- Primary: Combo-Rapid
- Secondary: Half-Half Slow
- Secondary: Half-Half -> Full Blink
- Secondary: Alternating 1-1 Medium
- Secondary: Combo-Rapid
- Park Half-Half
- Park 1-1 Alternating
- Park Half-Half Double Blink
- Park 1-1 Alternating Double Blink

Synchronization

- Make sure both units that need to be synced together are powered On and flashing on the same pattern.
- Connect the Sync cables of the 2 units to each other.
- Trigger the Flash Pattern changer of both units simultaneously to cycle to the next pattern.
- Power both units Off and back On to complete the Sync process.

NOTE: It's best to connect both units to a single control switch when syncing units together.

About Flash Patterns

- All STL LED products are equipped with a non-volatile memory which will recall the last flash pattern when the product is turned on.
- Follow the wiring diagram to identify the Flash Pattern wire to manually cycle through patterns.

Flash Pattern Shortcuts

- Hold for 2 seconds to toggle Steady Burn mode. NOTE: Do NOT operate in Steady Burn mode longer than 1 hour.
- Hold for 3 seconds to toggle Auto cycle through mode.

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