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STL Mounting Brackets

Operation Manual and Instructions

Congratulations, you are the owner of a STL Mounting Bracket! Your bar is equipped with the latest technology and features at the best value found industry wide, GUARANTEED. In addition to that, your purchase comes with the STL 5 Year Warranty against any manufacture defects that may occur with your bar. So please read this document carefully and call Customer Service at 800-757-2581 Monday - Friday 8:30 AM - 4:30 PM central time if you need assistance. We are available and happy to help!

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 insure 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 sure 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, lightbars 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 bags (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 manufacture'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 spwecified 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.

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.
- 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.
- 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.
- 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.

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.

Instructions for Mounting, Wiring and Programming

IMPORTANT! To ensure proper installation installers are required to have a good understanding of automotive electronic, systems and procedures for proper installation. When you are drilling into the vehicle's surfaces, ensure that the area is free of any electrical wires, vehicle upholstery, fuel lines, etc. that could be damaged. All wiring passing through drilled holes should use grommets and silicone sealant to prevent wire or moisture damage when passing through compartment walls. WARNING! Larger wires and secure or tight connections will ensure longer service life for your product. It is highly recommended that soldered connections have heat shrink used to protect the connection. Special attention should be given to the location and method of splicing wiresto make electrical connections to protect these splices from lost power or connection and corrosion. Insulation displacement connectors are not to be used. To reduce voltage drop, minimize the number of splices in the wires. The current carrying capacity of wires and fuses will be significantly reduced under high ambient temperature (e.g. under the hood). 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. 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. Do NOT use Circuit Breaks with STL Products. Ground terminations should only be made directly to the battery.

Mounting Headliner Bracket:

- The Adjustable bracket here will be four (4) pieces per side. Two (2) forked pieces and two (2) rectangular pieces.
- The Static bracket will be one solid piece.
- Mount the forked part to the back of the bar with the forked pieces pointed away from the LEDs.
- Mount the rectangular piece to the back of the bar lining it up with one of the two mounting locations that will provide the best fit.
- Mount bracket via to vehicle headliner







Mounting Suction Cup:

- Slide mounting screws down the track in the back of the bar.
- Line up the screws to the appropriate holes in the bracket.
- Secure the bracket using the included nuts.

Surface Mount End Caps:

- Remove end cap from the bar
- Replace with the surface mount end cap.

Mounting 360° Suction Cup Bracket:

- Attach the bracket to the end cap using the included hardware.
- Attach the suction cups to the bracket.
- The bracket can be used as an L-Bracket mount by not attaching the suction cups.





Mounting License Plate Bracket:

- This kit includes 3 metal pieces. 2 short and 1 long piece. The long piece will attach to the vehicle using the same hardware that secures the license plate to the vehicle.
- Mount the surface mount product to each of the short pieces using the hardware supplied with your light.
- Connect the short pieces to the long piece using the hardware included with the bracket.
- Lights can we configured to hang vertically or horizontally.

Mounting Static Brackets:

- This bracket can work with Deck and Dash as well as Grille products.
- For Grille products, run the cable through the central hole. Use the hardware included with the Grille product to mount the unit to the bracket in the oval tracks.
- For Deck and Dash products, position the slide track screws included with the Deck and Dash product such that the screws line up with the oval tracks. Use the included nuts and washers to attach bracket to unit.

Mounting Universal Z Bracket:

• For Deck and Dash products, position the slide track screws included with the Deck and Dash product such that the screws line up with the oval tracks. Use the included nuts and washers to attach bracket to unit.

Mounting Half Octo Bracket:

• Run the cable of the Half Octo through the central hole. Use the hardware included with the Grille product to mount the unit to the bracket in the oval tracks.









Mounting Z Flange Bracket:

- Push the Z model into the bracket up through the rear.
- Use the hardware included with your Z product to mount the unit to the Flange.
- Use the hardware included with the Flange to secure the Flange to the vehicle.



Mounting Flare Flange Bracket:

- Push the Flare model into the Flange up through the rear.
- Use the included hardware to mount the Flange to vehicle.



Mounting Flare L and C Bracket:

- Position the Flare so that the power cables run out the side of the L bracket with the bend.
- Use the included hardware to secure the Flare to the bracket.
- Use the included hardware to mount the L bracket to the vehicle.
- When using the C bracket in conjunction with the L bracket, follow all instructions for L bracket first, but no not mount the L bracket to the vehicle yet.
- Position C bracket over lip of hood or trunk and secure to the vehicle.
- Attach L bracket assembly to C bracket.

Mounting Flashlight Bicycle Bracket:

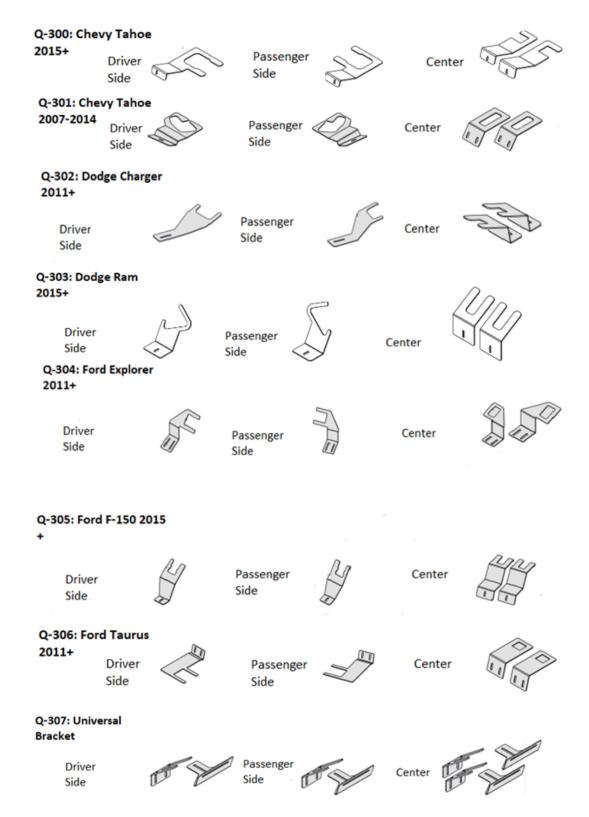
- Strap the flashlight to the bracket using the larger cradle area.
- Strap the bracket to the handlebars of the bicycle using the smaller cradle area.







Mounting Visor Brackets:



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Mounting Vehicle Specific Bracket:

- For Jeep bracket, remove existing hardware from vehicle, place bracket in mounting location and refasten vehicle hardware.
- For all other models, position the bracket forward on the roof such that the bracket sits flat against the surface of the vehicle and with user supplied hardware mount the bracket to the vehicle.
- Using the mounting hardware included, attach the lightbar to the bracket at the end cap of the lightbar.





JEEP WRANGLER JK

DOUBLE 50"



JEEP WRANGLER JK 50" W/ LOWER WINDSHIELD

Mounting Headache Rack Brackets:

- Loosen the hardware securing the Foot Bracket to your Light Bar and remove the Foot Bracket of the Light Bar
- Use the 2 screws that were securing each Foot Bracket to the Light Bar to attach the Headache Rack Bracket to the Light Bar using the two vertical cutaways on the Headache Rack Bracket.
- This secures the Bracket to the Light Bar.
- The Headache Rack Bracket may then be directly mounted. Or, by using the supplied secondary piece, you may "sandwich" your back rack with 2 user supplied nuts and bolts.



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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