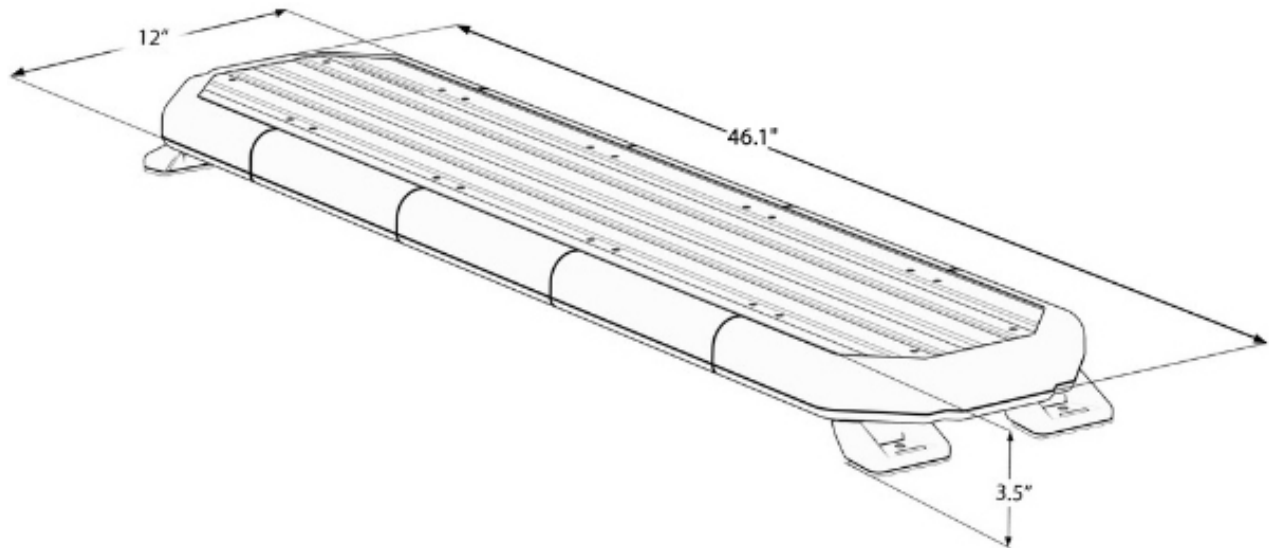
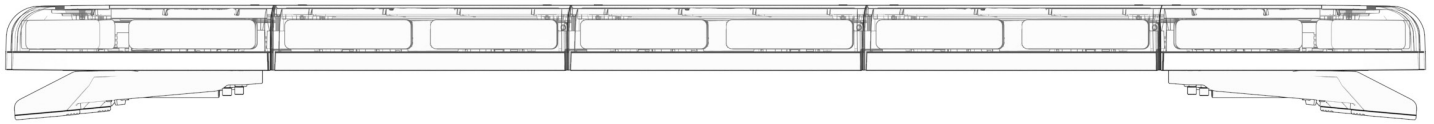




K-FORCE[®] SUPER TD 47 FULL LIGHT BAR



F-TKFSTD47

INSTRUCTION MANUAL



K-FORCE[®] SUPER TD 47 FULL LIGHT BAR

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 (Thick)*	Positive
 Black (Thick)*	Negative
 Brown	Forward Facing Lights
 Light Blue	Rear Facing Lights
 Purple	Full 360° Warning Lights Mode 1
 Yellow	Flash Pattern
 Light Green	Take Down
 Green	Alley


* Indicates a main power cable.

Wire Color	Function
 Blue	Left Arrow
 White	Center Out Arrow
 Orange	Right Arrow
 Grey	Cruise Lights (4 Corners)
 Red (Thin)*	Control Box In Positive
 Black (Thin)*	Control Box In Negative
 Peach	Super Take Down
 Yellow/Green	Full 360° Warning Lights Mode 2

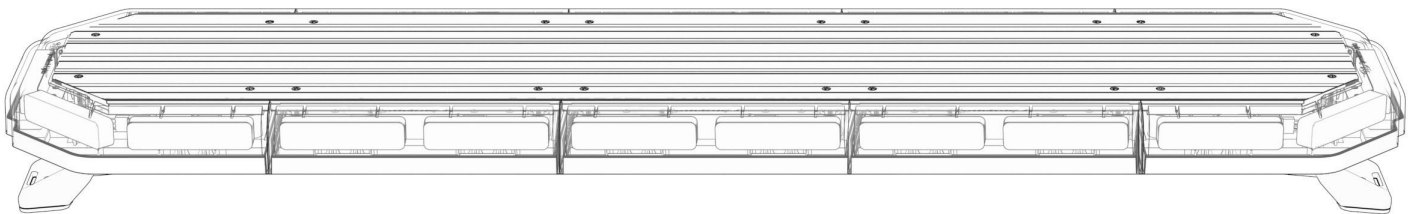
NOTE: All cables except Negative contact +12 VDC.

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

AUX Wiring Diagram

Wire Color	Function
 White-	Control box back light *

* Only functional when using in conjunction with STL Supreme Control Box (Sold separately)



Specifications

Voltage	12 VDC
Amps	< 15.4
Optic	TIR
LED Count	120
Cable Length	12' Light Bar Cable, 12.5' Cig Plug Cable
Flash Patterns	30



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SpeedTechLights.com

Supreme Control Switch Box Operation (Sold Separately)

Slide Switch:

- Off position: Turns off warning functions of the Light Bar.
- 1st position: Powers only the back of the Bar and rear facing 45° warning modules.
- 2nd position: Powers only the front of the Bar and forward facing 45° warning modules.
- 3rd position: Powers all warning functions of the Light Bar.

Mode Button:

- Activates warning in memory mode 2.

Take Down Button*:

- 1st press: TD Steady Burn On.
- 2nd press: TD Off.

Super TD Button*:

- 1st press: Super TD Steady Burn On.
- 2nd press: Super TD Off.

Alley Button*:

- 1st press: Alley Steady Burn On.
- 2nd press: Alley Off.

Traffic Advisor Buttons*:

- Traffic Advisor LEDs will flash in sequence with warning mode when not activated.
- Left Arrow: Right to Left Traffic Sweep.
- Center Out Arrow: Center Out Traffic Sweep.
- Right Arrow: Left to Right Traffic Sweep.

Flash Pattern Button:

- Cycles to the next flash pattern with each press.
- Non-Volatile memory recalls the last flash pattern selected in each Mode.
- Hold for 2 seconds to toggle Steady Burn mode.
- Hold for 3 seconds to toggle Random pattern mode.

Cruise Button (45° (Four Corner) Modules)*:

- 1st press: Cruise Steady Burn On.
- 2nd press: Cruise Off.

Night Button**:

- Activate back light LEDs in control box.

*** Warning lights do not need to be activated for these Buttons to function.**

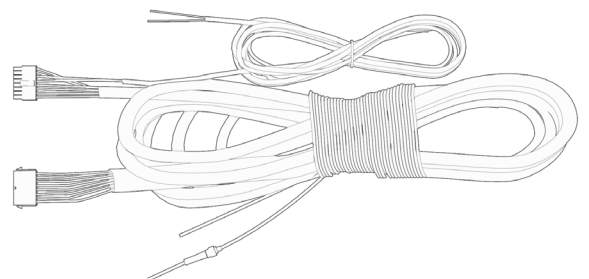
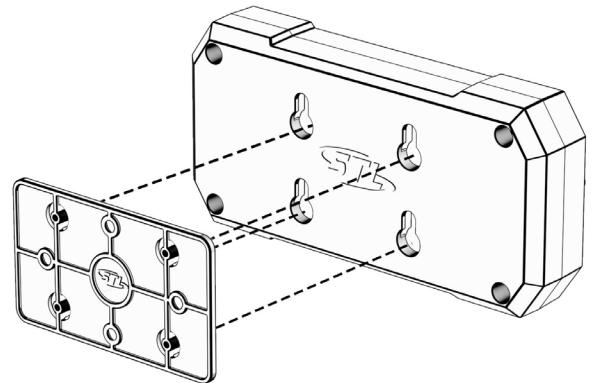
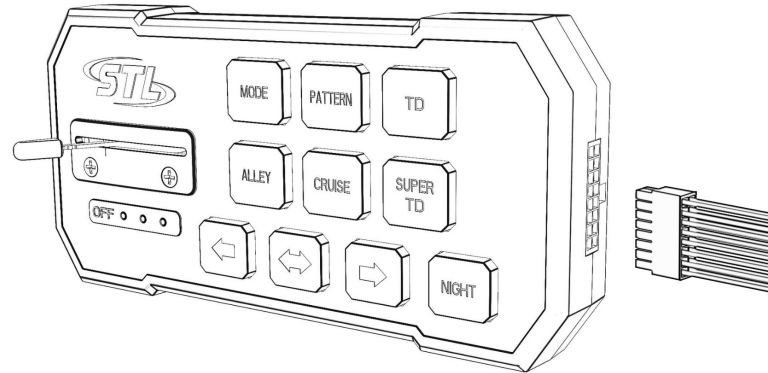
**** Hardwire the free standing cable to your headlight +12VDC line to automate this feature. NOTE: Once hardwired, this button ceases to function. Make sure the Night button is NOT toggled before doing this step otherwise the button will constantly remain activated.**

Back Plate Mount:

- Included with Supreme Control Switch Box purchase.

Extension Cable (Sold Separately)

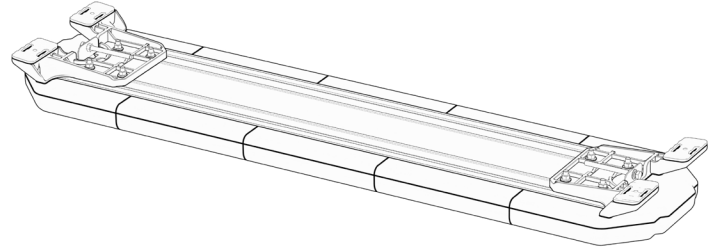
- If you have an extension cable with connectors, connect the corresponding ends to one another. Use the connector at the end of the cable to plug into the control box. You will remove the pig tail end of the inline fuse on the lightbar power cable and connect the in line fuse to the housing on the extension cable. Also connect the Black Ground cable from the lightbar to the extension cable Black Ground cable.
- 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.
- NOTE: When adding the extension cable, only the AUX and White cable on the extension cable will be functional. Main bar harness connections will cease to function.



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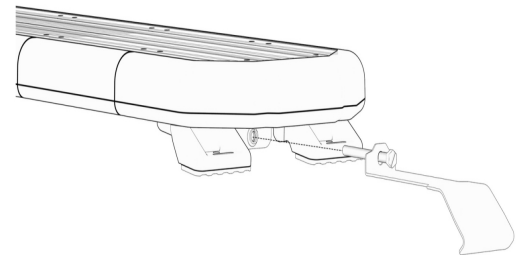
Foot Brackets (Included)

- This unit comes included with adjustable Foot Brackets.
- Adjust the Foot Brackets along the length of the aluminum track accordingly to create a flat, even contact with the roof.



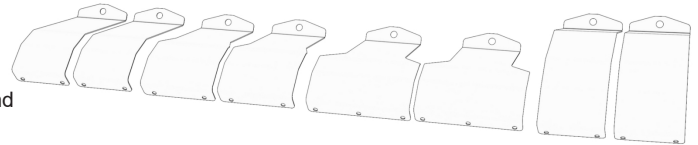
Universal Mounting Brackets (Included)

- This unit comes included with Universal Mounting Brackets.
- Adjust the Foot Brackets along the length of the aluminum track accordingly to reach the Universal Bracket and create a flat, even contact with the roof.
- Attach the Universal Bracket to the Light Bar Foot Bracket using the included I-bolt.
- Secure the Universal Bracket to the vehicle via the 2 pre-drilled holes, and use supplied screws at the bottom of the Bracket.
- Tighten the I-bolt equally on both sides to tightly secure everything together.



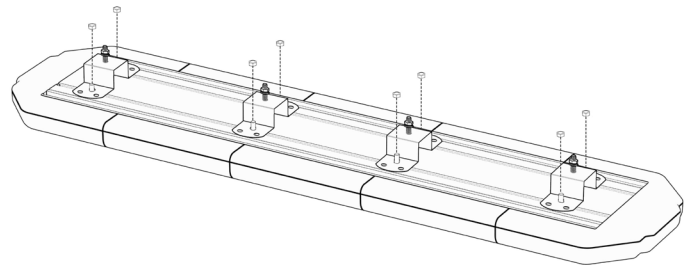
Vehicle Specific Mounting Brackets (Sold Separately)

- Adjust the Foot Brackets along the length of the aluminum track accordingly to reach the Vehicle Specific Bracket and create a flat, even contact with the roof.
- Attach the Vehicle Specific Bracket to the Light Bar Foot Bracket using the included I-bolt.
- Secure the Vehicle Specific Bracket to the vehicle via the 2 pre-drilled holes, and use supplied screws at the bottom of the Bracket.
- Tighten the I-bolt equally on both sides to tightly secure everything together.



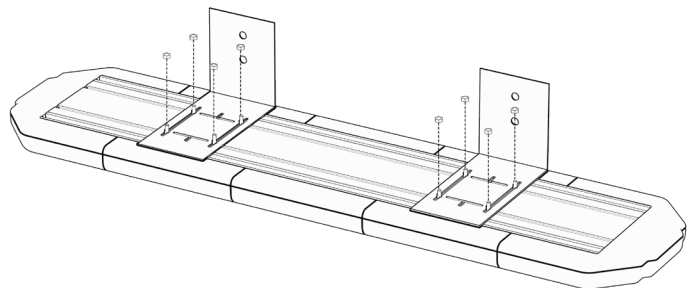
Stud Mount (Sold Separately)

- Loosen the hardware securing the Foot Bracket to the Light Bar and remove the Foot Bracket from the Light Bar.
- Place the main mounting bolt through the Stud Mount.
- Use the screws that were securing each Foot Bracket to the Light Bar and attach the Stud Mount to the Light Bar.
- Fully tighten the hardware to secure the Stud Mount to the Light Bar.



Headache Rack Mount (Sold Separately)

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





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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
- Double-Pong
- Half Steady A – Half Blink B
- Half Steady B – Half Blink A
- Half-Half -> Full Blink
- Alternating 1-2 Slow
- Alternating 1-2 Fast
- Combo-Patrol
- Combo-Rapid

Flash Pattern Shortcuts

- Hold for 2 seconds to toggle Steady Burn mode.
- Hold for 4 seconds to toggle Auto cycle through mode.

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