

BC-2-SML

Rail Mount for LED Emitter Bars and Vehicle Mount Halogen and HID Lights (Bar Clamp) - 3/8" - 1.25"

Product ID: 1833



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

BC-2-SML Heavy Duty Clamping System

Product Type: Heavy Duty Clamping System

Dimensions: 6.50"-W x 5.00"-D x 3.00"-H

Weight: -

Compatible Bar Sizes: 3/8" to 1.25" Diameter

Capacity: ~40 lb

Material: Delrin II

Finish Color: White or Black

Features

Works w/ Square/Round Tubes, Bars, Pipes, or Rails

Special Orders - Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-214-616-6180

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The BC-2-SML from Larson Electronics is a Heavy Duty Clamping System for rail mount, bar clamp mounts, pipe mounts, and other tube stock applications. This bar clamp mount is designed specifically to mount LED light bars, halogen and HID off road lights, and High Intensity Discharge (HID) vehicle mount lights to vehicles, heavy equipment, ATVs, and boats.

This unit is a heavy duty clamping system that enables owners of vehicles, heavy equipment, and boats to mount lights or other equipment to square or round tubes, bars, pipes, or rails. The adjustable clamping system cinches to size around rails of different diameters and can handle payloads to 40+ pounds under extreme vibration.

The mounting plate on this light mount bracket was designed to mount all types of indoor and outdoor lighting including our [explosion proof lights for hazardous location light applications](#), [LED light bars](#) and [Infrared emitters](#).

The bar clamp mount is made from Delrin II (acetal copolymer) and is available in

white and black. Delrin is designed to be an alternative to metal, and is strong, durable and cannot be damaged by water and UV rays. Thus Delrin is an ideal material for boating applications and is popular in the petrochemical space, due to its chemical and heat resistance. This rail or tube mount adjusts to fit bars, rails, racks, etc. with square or tubular dimensions ranging from 3/8 inch to 1.25 inches in diameter. There are 2 sets of interlocking brackets which are cinched around the square or round tube, using the imbedded pair of 1/4-20 stainless steel, socket head bolts.

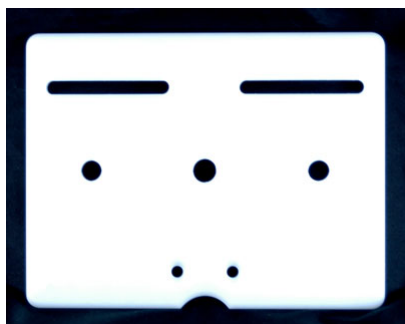
A mounting plate attaches to the clamps, creating a mounting surface for just about anything. Existing mounting holes include the mounting pattern for the Larson Electronics LED emitter bars, LED spreader light bars, High Intensity Discharge (HID) equipment lights, HID boat lights and LED spotlight bars and all manner of off road and vehicle lights that are mounted with a simple stud (bolt) mount. Most auxiliary lighting on vehicles boats and heavy equipment is mounted with a 3/8 inch bolt at the base of the light. This mount can accommodate this mounting option.



[Click Photo to Enlarge](#)

Note on Mounting Holes: The top mounting plate ships with pre-drilled holes that are designed for accepting the bolt patterns for Radioray and Stryker remote control spotlights. These spotlights went under a design revision in 2020. Older Radioray mounting holes are NOT the same as newer Radioray mounting holes. Older Stryker mounting holes are NOT the same as newer Stryker mounting holes. Please choose correct mounting option at time of ordering to ensure fitment with your spotlight.

- Old Radioray. This is compatible with Pre-2020 Radioray series 2XXX, 5XXX, 7XXX, and 9XXX series spotlights.
- New Radioray GT. This is compatible with Post-2020 Radioray GT series 2XXXGT, 7XXXGT, and 9XXXGT series spotlights. The mounting holes of the GT Series of Radioray spotlights (Post-2020) are NOT compatible with previous generation (Pre-2020) models.
- Old Stryker. This is compatible with Pre-2020 Stryker series 3XXX series spotlights.
- New Stryker ST. This is compatible with Post-2020 Stryker ST series 3XXXST series spotlights. The mounting holes of the ST Series of Stryker spotlights (Post-2020) are NOT compatible with previous generation (Pre-2020) models.



[Click Photo to Enlarge](#)

A 3.8 inch hole in the center accommodates post mount lights (like the HID off road lights, 24 volt equipment lights, 12 volt flood lights, Vision-X HID lights and Duralux HID equipment lights and the Larson Electronics permanent mount lights).

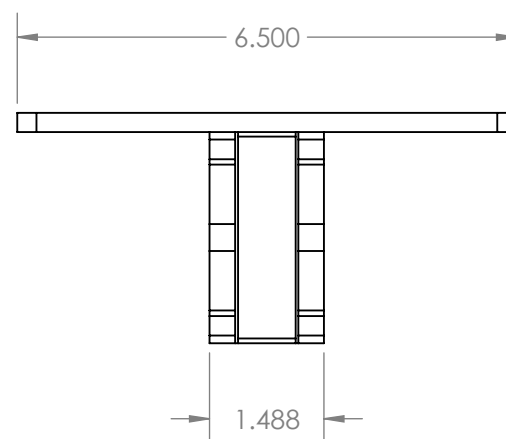
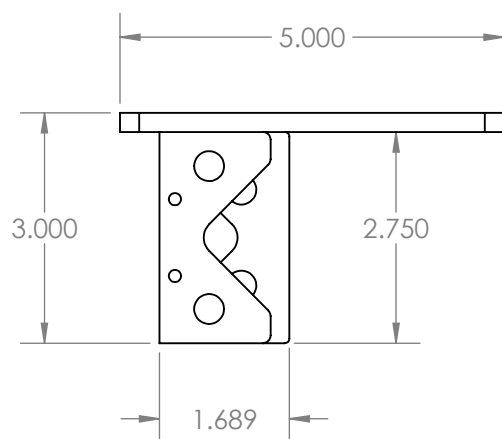
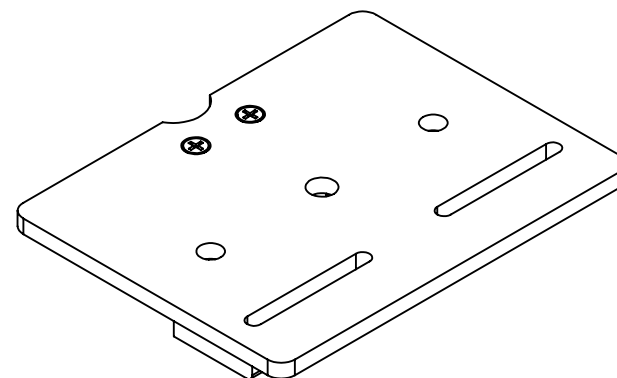
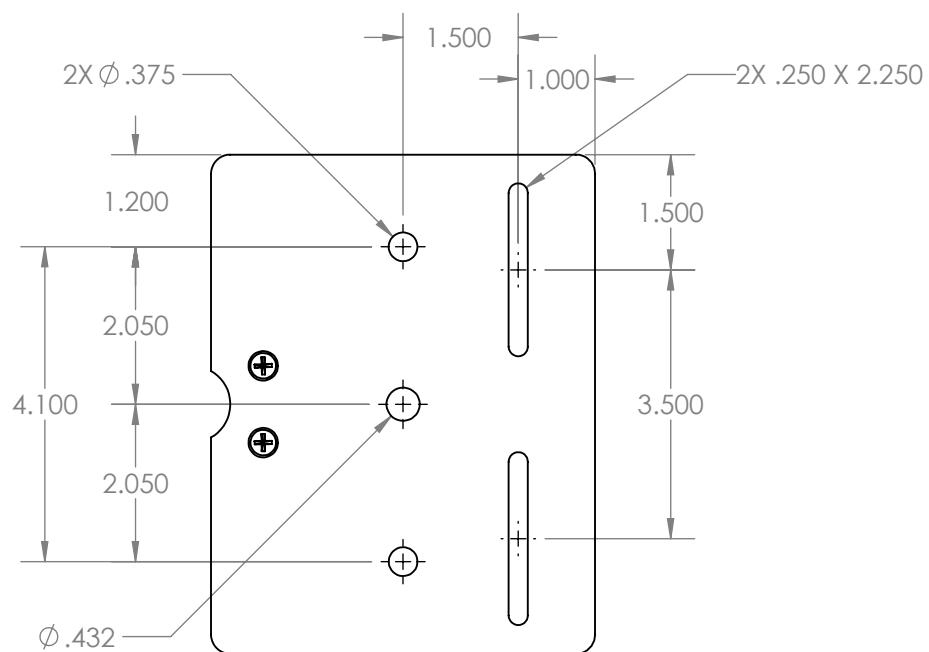
The design of the bar clamp enables the operator to position it on horizontally or vertically situated poles, rails, etc. Two sets of mounting holes offer the operator the ability to mount the mounting plate on the top or the side of the brackets. Thus this bracket system can be mounted on horizontal or vertical rails, bars or tubes. This was in response to customer's demand for mounting solutions for vertical rails on pumping trucks, etc. This clamping system is effective on heavy equipment, boats, ATVs, trucks, toy haulers, etc.

Material: Delrin (acetal copolymer) has an excellent balance of properties and processing characteristics.

- Melt temperature of 450°F with little effect on part strength
- UV-resistant grades
- High tensile and flexural strength, fatigue resistance, and hardness
- Excellent lubricity
- Moisture absorption resistant
- Good electrical properties, combined with high mechanical strength and a UL electrical rating of 100°C, qualify these materials for electrical applications requiring long-term stability.
- Acetal copolymers have excellent resistance to chemicals and solvents. This makes them ideal for mounting explosion proof lights in tanks, vessels and paint booths.
- Most organic reagents tested have no effect, nor do mineral oil, motor oil, or brake fluids. Resistance to strong alkalis is exceptionally good; specimens immersed in boiling 50% sodium hydroxide solution and other strong bases for many months show no property changes.
- Strength of acetal copolymer is only slightly reduced after aging for one year in air at 240°F. Impact strength holds constant for the first six months, and falls off about one-third during the next six-month period. Aging in air at 180°F for two years has little or no effect on properties, and immersion for one year in 180°F water leaves most properties virtually unchanged. Samples tested in boiling water retain nearly original tensile strength after nine months.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the

lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.



TITLE:			
BC-2-SML			
SIZE	DWG. NO.	REV	
A			
SCALE: NTS		SHEET 1 OF 1	

FINISH			
SURFACE AREA [sq. in]		NAME	
DIMENSIONS ARE IN INCHES		DRAWN	CHRISTOPHER THAUER
MATERIAL		CHECKED	N/A
DO NOT SCALE DRAWING		DATE	11/8/2021

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LARSON ELECTRONICS LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LARSON ELECTRONICS LLC IS PROHIBITED.

UNLESS OTHERWISE NOTED:
 Angle +/- .5 deg
 .X +/- .02
 .XX +/- .01
 .XXX +/- .005

Frequently Asked Questions (FAQ)