

INSTALLATION INSTRUCTIONS FOR SL-LB MANUAL LIFT BARRIER GATE ARMS



YOUR SL-LB MANUAL LIFT BARRIER GATE ARM WILL ARRIVE WITH WEIGHT PLATES ATTACHED TO THE BASE UNIT THAT CORRESPOND WITH THE LENGTH OF BARRIER ARM ORDERED. IF YOU EVER WANT TO ADD A LONGER ARM, WE CAN SIMPLY SHIP ARM SECTIONS, CONNECTING SLEEVES, PENDULUM SUPPORTS, CABLE TRUSS SUPPORTS AND ADDITIONAL WEIGHT PLATES TO EASILY RECONFIGURE YOUR SL-LB UNIT INCREASING THE SIZE UP TO 35 FEET IN LENGTH

ANCHOR BOLTS FOR MOUNTING PLATE TO CONCRETE ARE NOT INCLUDED. PURCHASE 1/2" DIAMETER & 6" TO 8" LONG CONCRETE ANCHORS. (J BOLTS, OR LDT)

PADLOCK OR PIN LOCK FOR LOCKING GATE ARM IS NOT INCLUDED

Mounting Suggestions for the SL-LB Manual Lift Barrier Gate Arm

PLEASE CONSULT WITH AN ENGINEER FOR THE BEST ADVICE ON MOUNTING PADS. AS SOIL CONDITIONS ARE ALWAYS DIFFERENT



Surface mounted plate with 4 pre- drilled 5/8" diameter bolt holes. The mounting plate is 15" X 15" and 1" in from edges gives you center of the bolt holes.

Mount on to concrete or build a concrete pad and use four 1/2" diameter and 6" to 8" long concrete anchors. (j bolts, or LDT) [Anchor bolts for mounting plate to concrete are not included](#)

This base needs to be bolted on to a concrete surface or a concrete pad. Be sure that the concrete is cured before drilling the bolt holes in to it. Or pre- make the pad with wet set anchor bolts.

A 20" X 20" pad is usually a sufficient size and should be at least 8" thick. Reinforce using 8 #4 rebar evenly spaced in every direction. Make sure concrete is 2" or more over the rebar. Use a 3 to 4000 psi concrete.

You can also opt to use a drop-in anchor so that you can easily unbolt from the pad and move the unit to another pad and back again. Such as, CONFAST® Drop-in Anchors.

Or you can build portable concrete pads that can be moved around by a fork lift.

Please check with a structural engineer as this build idea is only a suggestion.

Portable pad:

Should be at least 36" X 36" and 8" thick or more.

The portable concrete pad would require 2 forklift slots. 2" high by 8" wide slots in the concrete pad that would accept the fork lift forks for moving the concrete pad.

4000 psi concrete should be used. 8 #4 rebar, 4 in each direction evenly spaced with a minimum of 2" of concrete over the rebar.

Wet set four 1/2" diameter J bolt concrete anchors or check with an expert about curing time before drilling anchors in to the concrete.

Installation Instructions for installing your new SL-LB Manual Lift Barrier Gate Arm

Step 1: Unpackage and inspect for damages or missing pieces - Report damage or missing items to 520-780-9751 immediately.

Step 2: Bolt base unit to the concrete or concrete pad. Anchor Bolts are not included. Purchase $\frac{1}{2}$ " diameter and 6" to 8" long.



Step 3: Remove the bolt and nut that is holding the unit in the upright shipping position, set bolt and nut aside, you will need it later in the installation process. Use a $\frac{9}{16}$ " socket.

Step 4: Maneuver unit so that it is in a horizontal position and ready to accept the barrier arm.

Step 5: Put bolt and nut from Step 3 in to the horizontal hasp to secure it in to the horizontal position.



If you purchased an SL-LB Manual Lift Barrier Gate Arm that has a Cable Truss Support:

The Triangle Shaped Cable Truss Bracket will already be installed on to your base unit. You will need to remove it so you can install the white/reflective striped barrier arm section. Use a $\frac{3}{4}$ " socket to loosen and remove bolts holding the triangle shaped bracket in place. Set bolts and washer aside as you will need them for Step 7.

Step 6: Insert the white/reflective striped barrier arm section with the two holes into the red receiver tube on base unit. (See Step 8 if your unit has a barrier arm longer than 12 feet).



Step 7: Secure with the provided bolts and washers and tighten. Use a $\frac{3}{4}$ " socket.

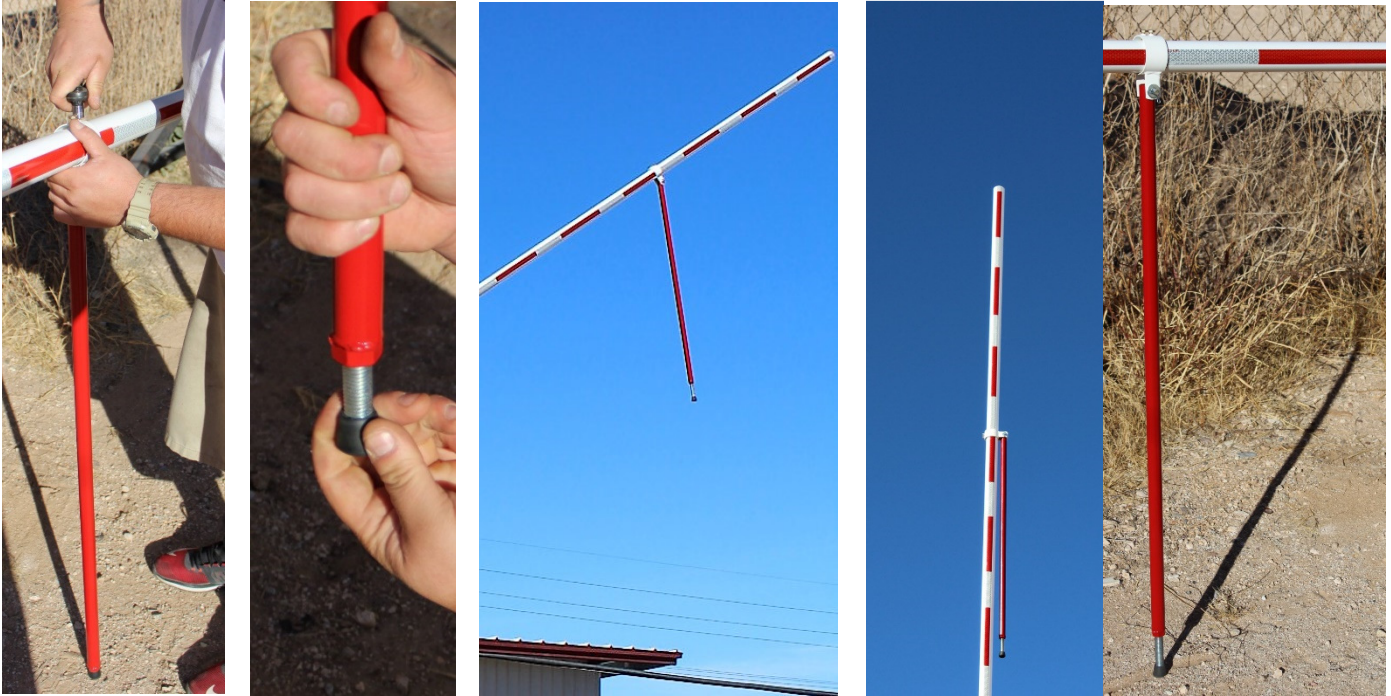
If you have the triangle shaped bracket that you removed before in Step 6, put the triangle shaped bracket on after you have inserted the barrier arm section and use the bolts and washers that you set aside. Use $\frac{3}{4}$ " socket to tighten.

Step 8: If your unit came with an additional arm section(s), there is an aluminum connecting sleeve(s) located in the parts box on the pallet. Use the sleeve(s) to connect the arm section(s). Secure with the provided bolts and washers and tighten. Use a $\frac{3}{4}$ " socket.



Step 9: Install Pendulum Support on arms 16 feet and longer. The best spot is 5 to 8 feet in from the tip of barrier arm. Slide the collar over the arm and use a 7/16" socket to tighten the two, bolt head set screws until snug against the arm and the collar does not move or slide. Pendulum Supports are optional on arms 12 feet to 16 feet and required on arms 17 feet to 35 feet.

If you purchased a unit that includes a Cable Truss Support go to page 6 & 7 before installing this pendulum support post. You will need to install the cable clamp bracket before the pendulum support.



Step 10: Remove the bolt from Step 3 and Step 5 that is keeping the unit secured in the horizontal position.

Step 11: Congratulations! You are now ready to control a vehicle traffic lane with your new Secure Lane SL-LB Manual Lift Barrier Gate Arm.

UNITS EQUIPPED WITH A CABLE TRUSS SUPPORT (extra-long arm support)

If you purchased an SL-LB Manual Lift Barrier Gate Arm that has a Cable Truss Support:

The steel cable and the small round clamp bracket will need to be installed by you. The steel cable and round clamp bracket is located inside the parts box.



This steel cable with eye bolt and quick link is located in the "Parts" box on the pallet

Attach the round Cable Truss Clamp Bracket on to the Barrier Arm about 10 to 11 feet from the tip of the arm. Then you may slightly tighten bolt head set screws with a 7/16" socket. Only slightly tighten at this point because you will need to move this clamp bracket to get any slack needed as you are attaching the eye bolt/cable to the triangle shaped bracket at the main base. Next you can attach the steel cable to the top of this clamp bracket with the quick link and hand tighten the quick link. *(be sure to put this cable truss clamp bracket on before the pendulum support – see Step 9 for pendulum support instruction)* Once the cable truss clamp bracket is on you can then install pendulum support See Step 9 on page 5.



Bring the steel cable with the eye bolt to the triangle shaped bracket. And install as shown. Now stretch out the cable and adjust the cable truss clamp bracket so that most of the slack is taken out and now you can tighten the cable truss clamp bracket with a 7/16" socket until clamp bolt head set screws are snug against the arm and the clamp bracket does not slide or move. Now go back to the triangle shaped bracket and begin to turn the bolt with a 9/16" socket to tighten and straighten the arm.





Use 9/16" socket to turn bolt, this will tighten the cable and straighten the arm



Have someone hold a screw driver through the eye bolt as pictured while you tighten the cable. This will ensure you don't pinch your fingers while tightening the cable

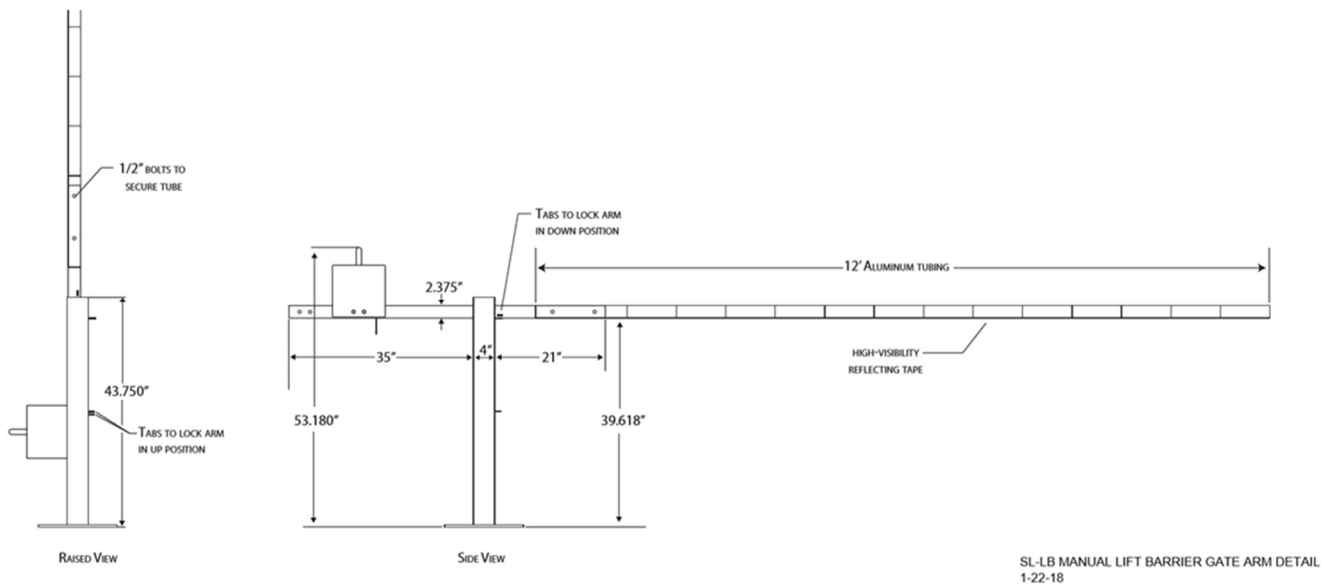


The arm will have a bend or sag before you tighten the cable. This is normal and you will see as you turn the bolt with the socket or wrench the cable gets more taught and the arm will begin to straighten. Once you are satisfied with the tightness of the cable and the arm is straight, stop. Over tightening will give you an upward bow. If that happens loosen the bolt until arm is straight and not bowed upward.



Installation Trick: Have someone press down gently on the top of the arm like this while you are tightening the cable: This will take the sag out while you are tightening and will make it easier to turn the eye bolt. Be sure to have the pendulum support installed for this install trick as shown in picture to the left.

If you would like to lock the barrier arm in to the closed horizontal position, simply insert a padlock or pin lock in to the horizontal hasp and lock. If you would like to lock your barrier arm in the open vertical position, raise the arm to full upright position and insert padlock or pin lock in to the vertical hasp and lock.



MODEL SL-LB WARRANTY

THANK YOU FOR PURCHASING AN SL-LB MANUAL LIFT BARRIER ARM (WITH CABLE TRUSS SUPPORT AND PENDULUM SUPPORT) FROM SECURE LANE LLC. BELOW ARE THE TERMS UNDER WHICH YOUR PRODUCTS ARE COVERED UNDER OUR MANUFACTURER'S WARRANTY...

2-YEAR WARRANTY – COVERS ALL WEAR PARTS ON THE BARRIER, INCLUDING THE PENDULUM SUPPORTS AND CABLE TRUSS SUPPORTS. ALL WORKMANSHIP IS COVERED UNDER THIS 2-YEAR WARRANTY. THIS WARRANTY DOES NOT APPLY TO COSMETIC DAMAGE, SUCH AS SCRATCHES, ABUSE OR GENERAL WEAR AND TEAR.

THIS GUARANTEE PROVIDES YOU WITH FREE REPLACEMENT WEAR PARTS IF NEEDED FOR YOUR SL-LB MANUAL LIFT BARRIER GATES FOR A PERIOD OF UP TO 2 YEARS. INCLUDES BEARINGS, FOAM HANDLE GRIPS AND RUBBER BUMPERS.

THIS GUARANTEE PROVIDES YOU WITH FREE REPLACEMENT PARTS FOR THE PENDULUM SUPPORTS IF THEY SHOULD FAIL DURING REGULAR INTENDED USE. IF PARTS WILL NOT EASILY FIX THE FAILURE, A NEW PENDULUM SUPPORT WILL BE SHIPPED TO YOU FREE OF CHARGE. PHOTO EVIDENCE OF FAILURE WILL BE REQUIRED.