



VLA-C-SB2 Installation Guide

SKU#JBLVLACSB2BK
Rev. A

The VLA-C-SB2 bracket is designed to suspend or be used as a pullback bar for the VLA-C Series loudspeaker array. Please read and follow these instructions carefully before beginning.

Suspending speakers must be performed by experienced professionals. If you have any doubts about the integrity of the structure you are attaching to or you are not sure about the proper hardware or method to use, consult a structural engineer.

Contents:

Qty.	Description
2 pcs	VLA-C-SB2 Bracket assembly (Includes 4 pcs ½-13x1.5" eyebolts)
1 pc	Installation guide

VLA-C-SB2-HK Hardware Kit:

Qty.	Description
12 pcs	Flat washer, M10 X 30mm OD, DIN9021
12 pcs	Split Lock washer, M10, DIN127B
12 pcs	Hex Cap Bolt, M10x1.5-40mm, C10.9,blk

CAUTION:

Installation must be done by qualified persons using safe rigging standards. The installer is responsible for proper selection and use of hardware to properly and safely suspend the speakers.

Refer to the VLA-C Line Array Calculator to determine safety limits of the frame with respect to the array size and inclination.

Torque values are for reference use only. The exact torque values are found by actual application or based upon work experience.

Recommended Working Load Limit: 1,100 lbs / 500 kg (7:1 Safety Factor)

Step 1.

Remove the Side-Panel External Trim Cover Panels from the speaker (Refer to VLA-C Series users guide). Hold onto the screws for later use.

VLA-C-SB2 For Suspension:

Step 2:

Remove and discard the existing screws from the speaker where the top bracket will be attached.

Step 3:

Position and align the (VLA-C-SB2) bracket's side mounting plate on the speaker's mounting holes then select the appropriate holes to use for the selected speaker tilt angles. (Figure 1).

Refer to VLA-C-Line array Calculator.

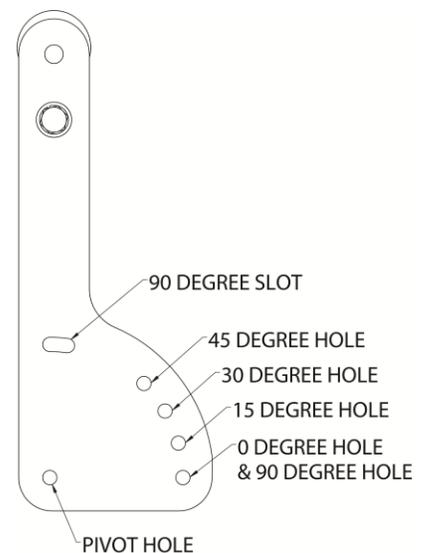


Figure 1

Step 4:

Attach the (VLA-C-SB2) bracket on the speaker using the provided M10 hex bolts, flat washers, and split lock washers.

- (Figure 2 = 0°)
- (Figure 3 = 15°)
- (Figure 4 = 30°)
- (Figure 5 = 45°)
- (Figure 6 = 90°)

Step 5:

Tighten screws permanently. *Reference Torque = 30-35 ft/lb*

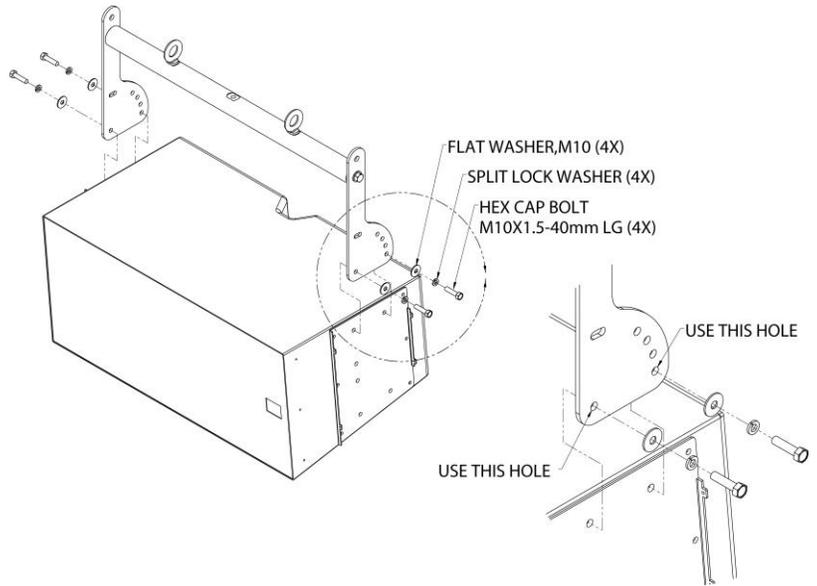


Figure 2 (0°)

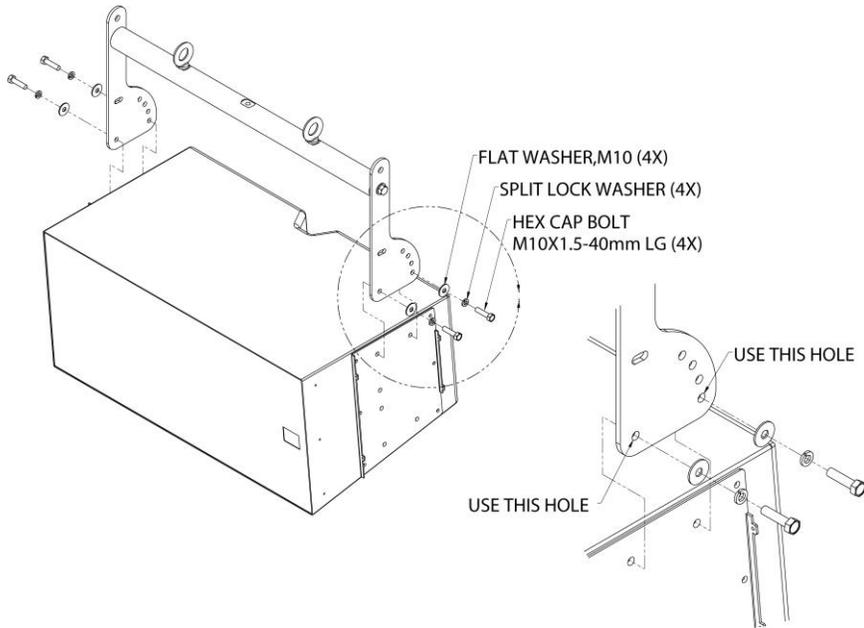


Figure 3 (15°)

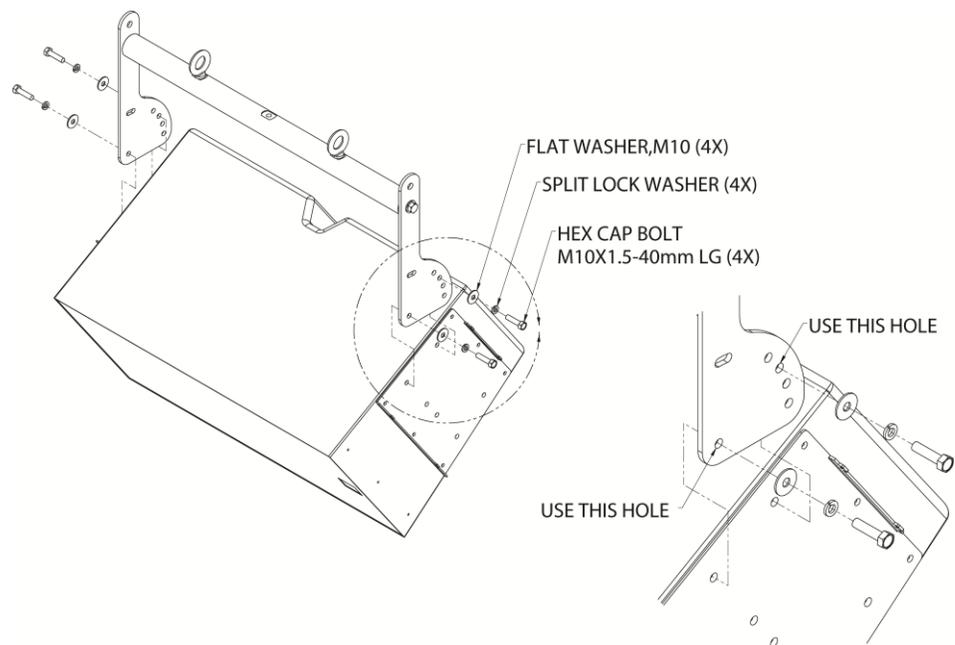


Figure 4 (30°)

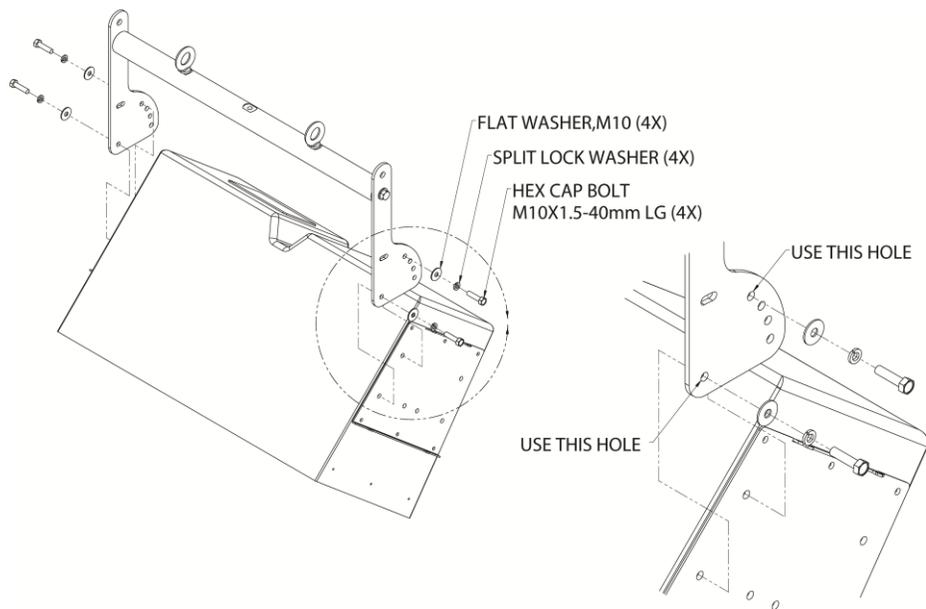


Figure 5 (45°)

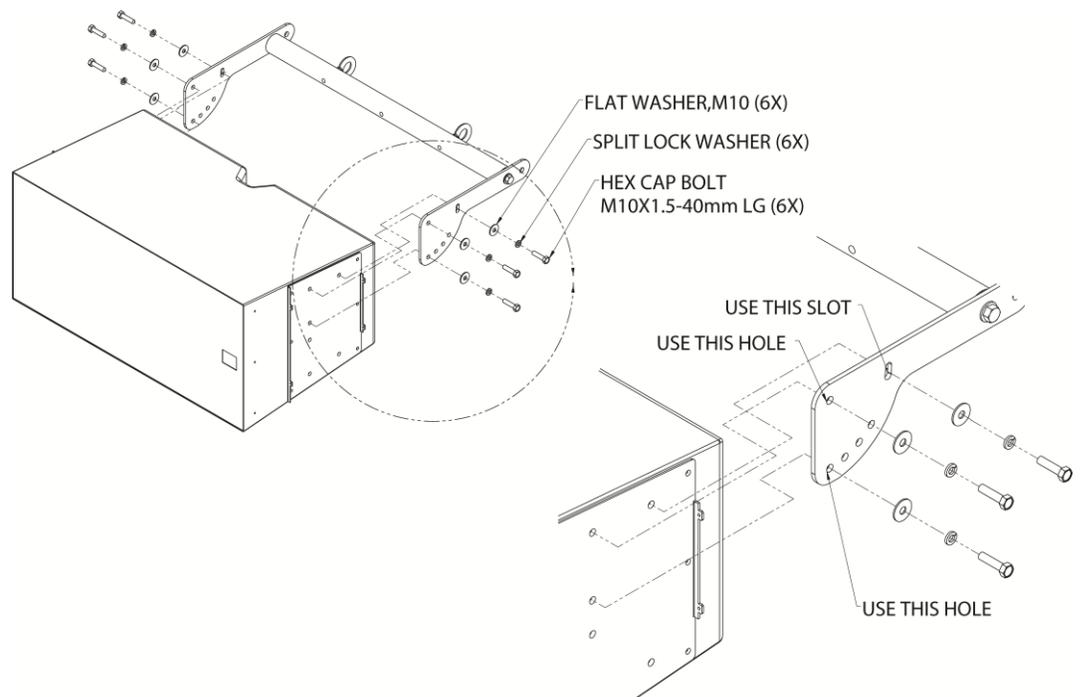


Figure 6 (90°)

Step 6: Suspend Line array

Two Point Suspension:

Option #1.

Suspend the speaker line array cluster from the upper holes of the bracket's side mounting plates using load rated hardware (Figure 7a).

Option #2.

Suspend the speaker line array cluster from the two eyebolts of the bar using load rated hardware (Figure 7b).

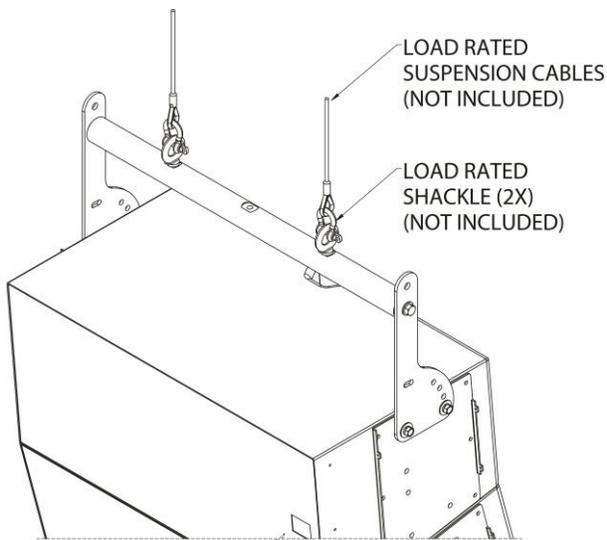


Figure 7b (Two Point Suspension)

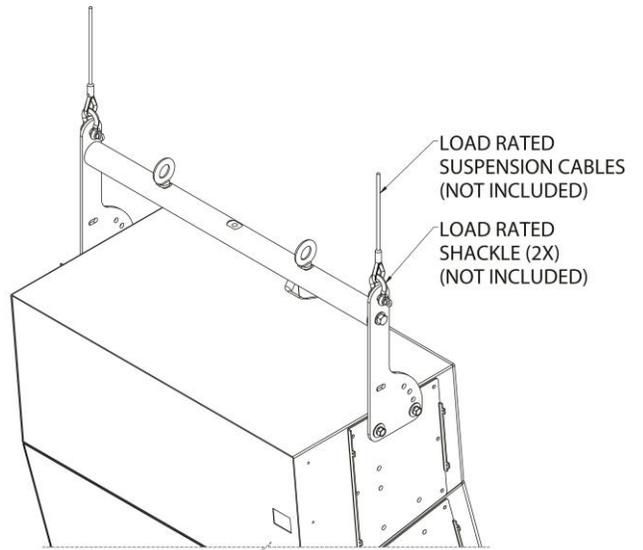


Figure 7a (Two Point Suspension)

Single point suspension:

Unscrew one of the eyebolts and move to the center hole of the bar. Tighten permanently. Suspend the speaker cluster from the center eyebolt using load rated hardware (Figure 8).

Note:

The direction of the crossbar's eyebolt must be in line with the direction of the pull or the cable. Slightly loosen the end bolts holding the round cross bar. The crossbar will naturally rotate axially so that the eyebolt is in-line with the direction of pull (ie, for maximum weight-carrying capability of the eyebolt). Then, re-tighten the two end bolts after position of crossbar eyebolts are set (Figure 9)

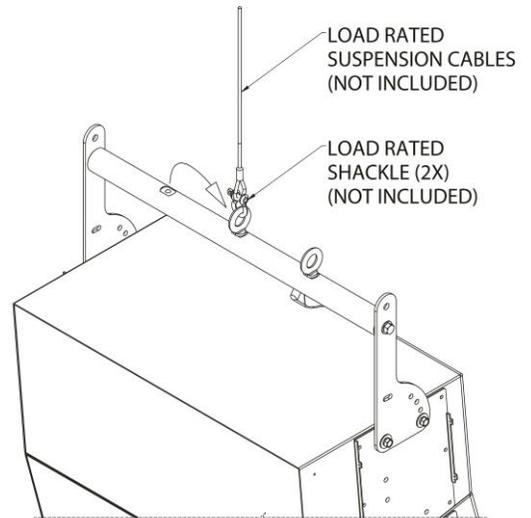


Figure 8 (Single Suspension)

Reference Bolt torque = 45-55 ft/lb

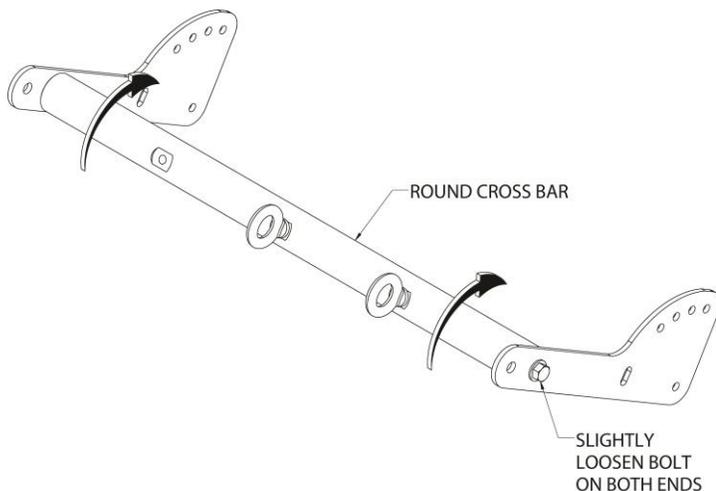


Figure 9

VLA-C-SB2 For Pull Back

Step 7:

Unscrew one of the eyebolts and move to the center hole of the bar. Tighten permanently (Figure 10).

Step 8:

90 Degrees Position

Remove and discard the existing 3 bottom screws from the speaker's mounting holes where the (VLA-C-SB2) bracket will be attached.

Step 9:

Position the (VLA-C-SB2) bracket's side mounting plate on the speaker's mounting holes, align holes, then secure using the provided M10 hex bolts, split lock washers and flat washers (Figure 11).

Step 10:

Tighten screws permanently. *Reference Torque = 30-35 ft/lb*

Step 11:

0 Degrees Position

Remove and discard the existing 2 bottom screws from the speaker's mounting holes where the (VLA-C-SB2) bracket will be attached.

Step 12:

Position the bracket's side mounting plate on the speaker's two bottom mounting holes, align holes then secure using the provided M10 hex bolts, split lock washers and flat washers. (Figure 12).

Step 13:

Tighten screws permanently. *Reference Torque = 35-40 ft/lb*

Step 14:

Attach load rated pull back cable to the center eyebolt of the bracket. Slightly loosen the end bolts holding the round cross bar so that the crossbar will naturally rotate axially, and the eyebolt is in-line with the direction of pull. Re-tighten bolts. Reference Torque = 45-55 ft/lb (Figure 13).

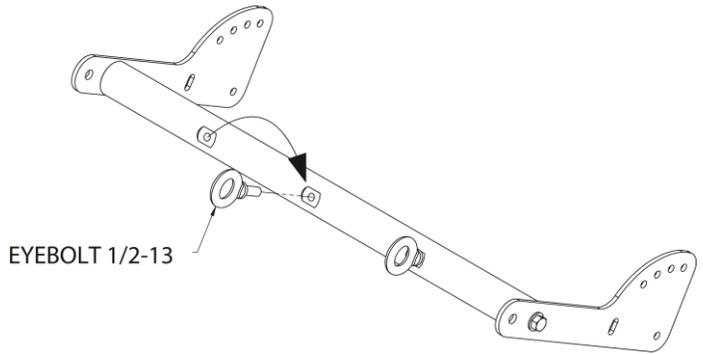


Figure 10

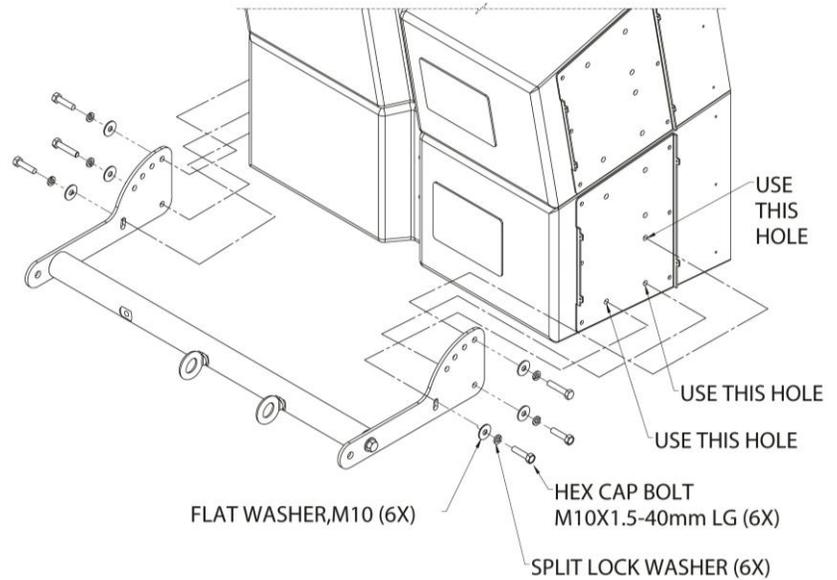


Figure 11 (90°)

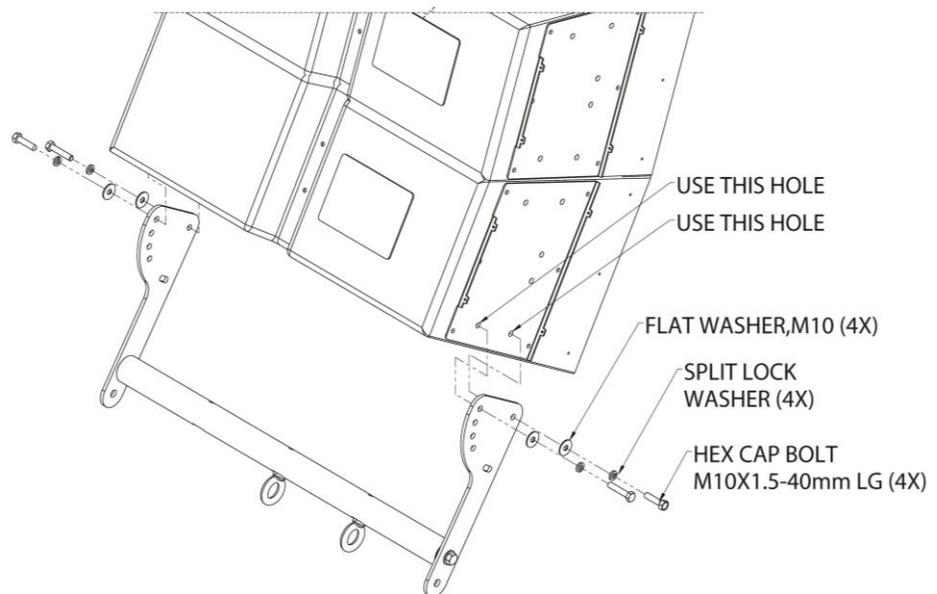


Figure 12 (0°)

Step 15:

Re-attach the Side-Panel External Trim Cover Panels to the side plates of the speaker using the same 8-32x1/2" trusshead screws. Apply Loctite Threadlocker Blue 242 or equivalent to screws before re-attaching (Refer to VLA-C Series users guide).

Step 16:

Check all screws and attachment connections before hoisting speaker cluster.

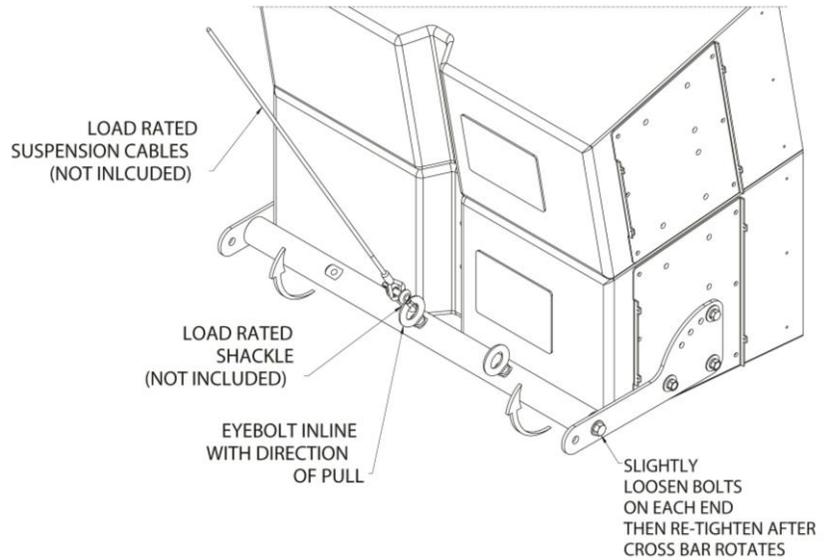


Figure 13

VLA-C-SB2 for VLA-C-125S Subwoofer Suspension

Step 17.

Remove the Side-Panel External Trim Cover Panels from the speaker (Refer to VLA-C Series users guide). Hold onto the screws for later use.

Step 18:

Attach the (VLA-C-SB2) bracket on the VLA-C125S Subwoofer using the provided M10 hex bolts, flat washers, and split lock washers.

- (Figure 14 = 0°)
- (Figure 15 = 15°)
- (Figure 16 = 30°)
- (Figure 17 = 45°)

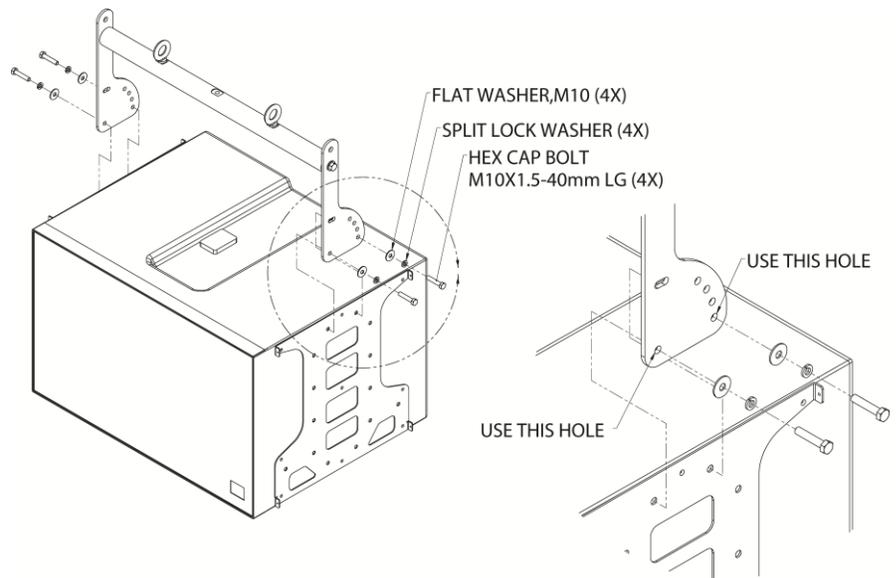


Figure 14 (0°)

Warning:

Do not use 90° bracket setting when VLA-C125S is at the top of the array.

Step 19:

Tighten screws permanently. Reference Torque = 30-35 ft/lb

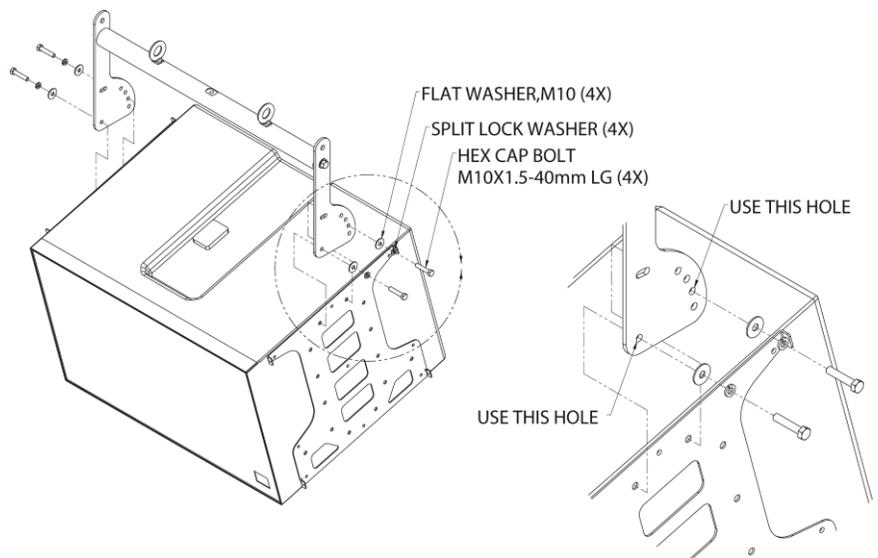


Figure 15 (15°)

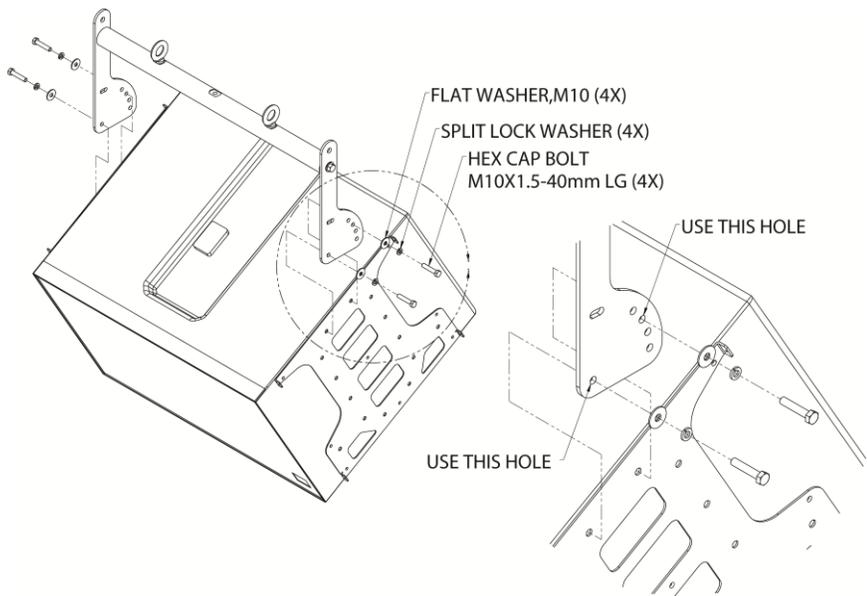


Figure 16 (30°)

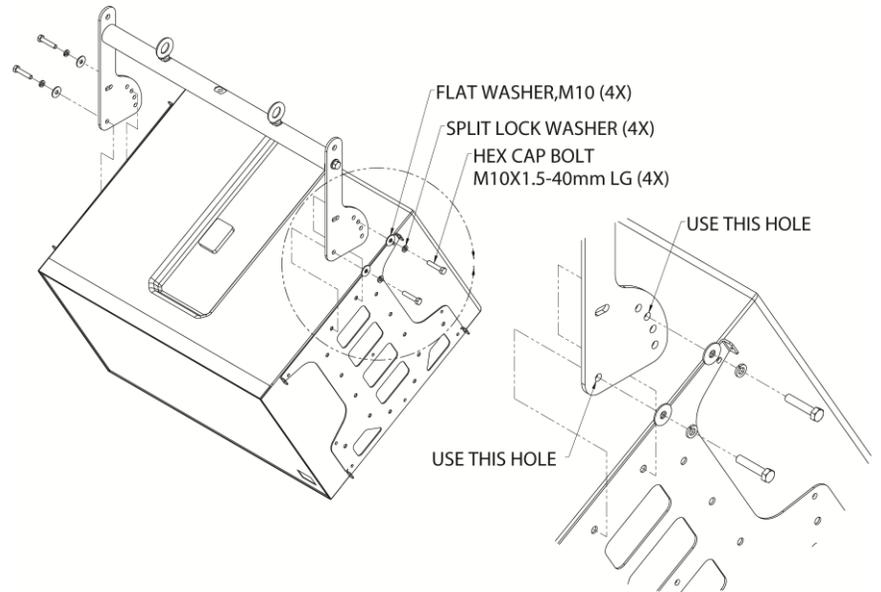


Figure 17 (45°)

VLA-C-SB2 For VLA-C125S Pull Back

Note:

VLA-C-SB2 as Pull Back at the bottom of VLA-C125S must only be set at either 0 degrees or 90 degrees.

Step 20:

Unscrew one of the eyebolts and move to the center hole of the bar. Tighten permanently (Figure 18).

Step 21:

For setting Pull Back at 0°:

Remove and discard the existing 2 bottom screws from the subwoofer's mounting holes where the (VLA-C-SB2) bracket will be attached (Figure 19).

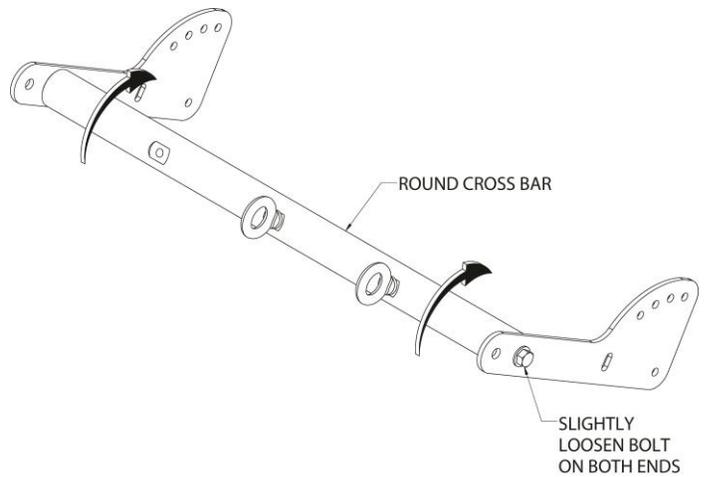


Figure 18

Step 22:

For setting Pull Back at 90°:

Remove and discard the existing 3 screws from the subwoofer's mounting holes where the (VLA-C-SB2) bracket will be attached. Position the (VLA-C-SB2) bracket's side mounting plate on the subwoofer's mounting holes, align holes, then secure using the provided M10 hex bolts, split lock washers and flat washers (Figure 20).

Step 23:

Tighten screws permanently.
Reference Torque = 35-40 ft/lb

Step 24:

Attach load rated pull back cable to the center eyebolt of the bracket. Slightly loosen the end bolts holding the round cross bar so that the crossbar will naturally rotate axially, and the eyebolt is in-line with the direction of pull. Re-tighten bolts. Reference Torque = 45-55 ft/lb (Figure 21).

Step 25:

Re-attach the Side-Panel External Trim Cover Panels to the side plates of the speaker using the same 8-32x1/2" trusshead screws. Apply Loctite Threadlocker Blue 242 or equivalent to screws before re-attaching (Refer to VLA-C Series users guide).

Step 26:

Check all screws and attachment connections before hoisting speaker cluster.

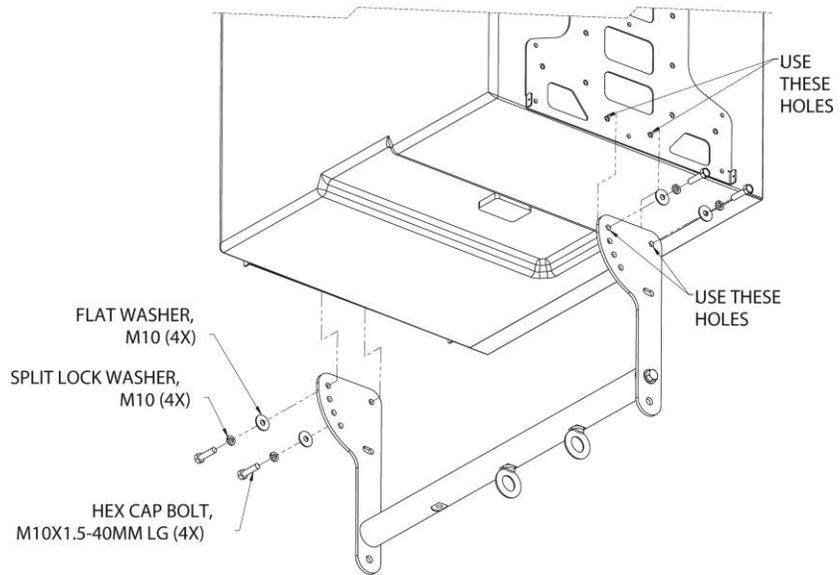


Figure 19 (0°)

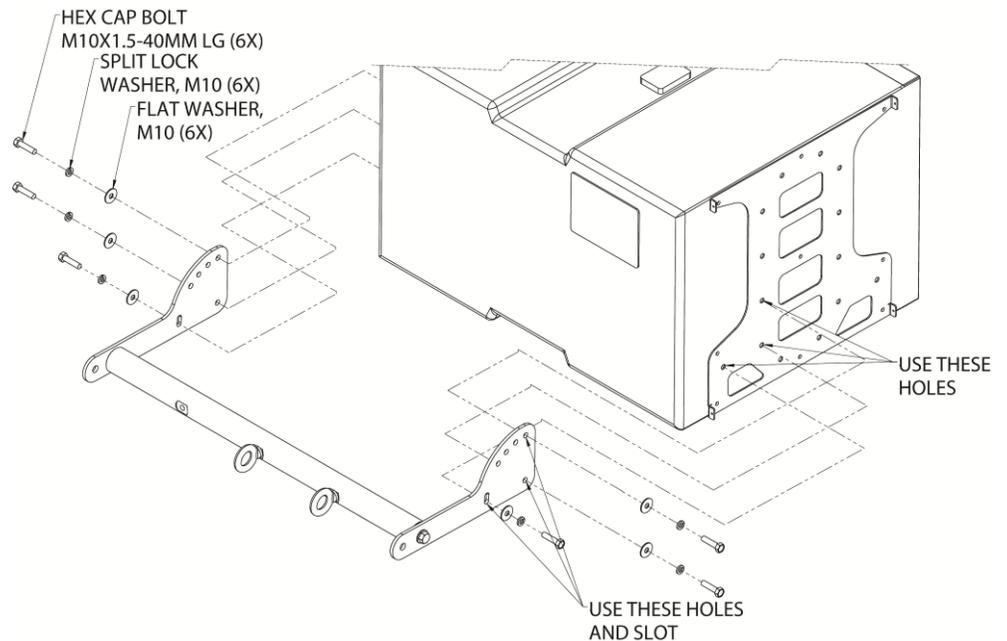


Figure 20 (90°)

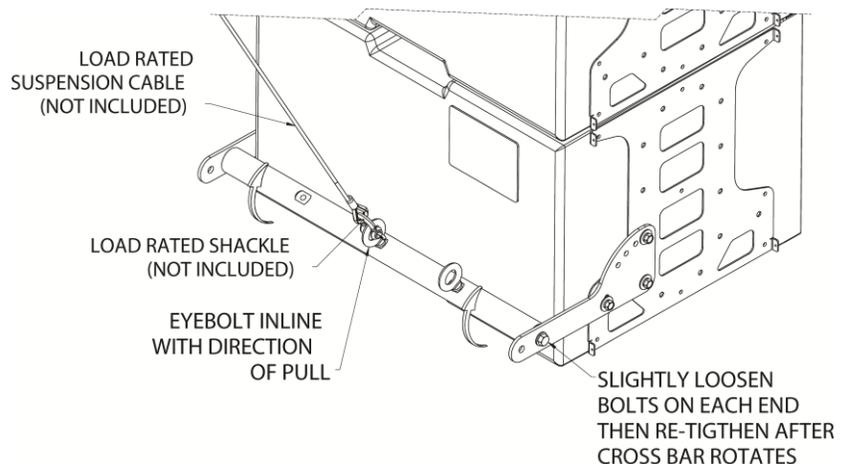


Figure 21