# CC215 / CC230

## 12 inch Subcardioid Constant Curvature Loudspeakers



### Overview

The CC Series is comprised of two full range models: CC215 and CC230. They are subcardioid constant curvature loudspeakers intended for permanent installation in a wide range of venues. They include a neodymium 12 inch woofer and 3 inch compression driver. The compression driver is mounted to a Medusa Waveformer, which ensures that arrays function as a cohesive unit, providing powerful, focused, and uniform sound distribution across large spaces. A lightweight design, fixed angles, and a variety of rigging options make setup fast and efficient. Integrated system design within Fulcrum One software streamlines system modeling, configuration, and deployment enhancing efficiency and accuracy in project planning.

CC Series loudspeakers incorporate Fulcrum's Passive Cardioid Technology™. Unlike active cardioid loudspeakers, passive cardioid technology does not require an additional amplifier channel or additional enclosure volume to achieve its impressive low frequency directional control. The subcardioid behavior is produced by a meticulously conceived acoustical circuit which balances the loading of the low frequency driver, the enclosure depth and volume, and specially constructed side-mounted ports which include a calibrated resistive element. By opting for a subcardioid pattern as opposed to a pure, hyper or super cardioid pattern, the rear rejection increases when the modules are deployed as a curved array.

Proprietary **TQ**™ Processing DSP technology delivers crystal-clear audio across all frequencies. TQ Processing is compatible with a wide range of DSP and amplifier platforms, offering system design flexibility.

When used with Driveflex amplifiers and Fulcrum One software, CC Series arrays are modeled, optimized, deployed, and controlled as part of an integrated system. TQ presets and limiters are automatically applied, including advanced array limiter protection. The Optimization function in Fulcrum One adjusts array behavior to extend and smooth coverage across listening areas and enables custom voicing profiles. These parameters are automatically loaded into connected Driveflex amplifiers, which are managed through Fulcrum One software. This integrated workflow simplifies setup and maintains consistent performance across the array.

### Performance Specifications[1]

**Operating Mode**

Single-amplified w/ DSP

**Operating Range [2]**

58 Hz to 20 kHz

**Nominal Beamwidth**

Horizontal: 100°
Vertical: 15° (CC215) / 30° (CC230)

**Transducers**

LF: 12.0" neodymium magnet cone driver, 3.0" voice coil
HF: 3.0" titanium diaphragm, neodymium magnet compression driver

**Power Handling @ Nominal Impedance [3]**

57 V / 400 W @ 8 Ω

**Recommended Power Amplifier**

400 W to 800 W @ 8 Ω

**Maximum Peak SPL [4]**

CC215: 142 dB
CC230: 141 dB
** Single box, Array preset, 50 Hz HPF*

### Physical Specifications

**Connections**

(2) Neutrik NL4 Speakon
Pin 1+/-: Full Range Pin 2+/-: NC

**Mounting / Suspension Points**

(16) M10 x 1.5 eye bolt angle points, (2) M10 x 1.5 yoke points, (1) M10 x 1.5 pull back point

**Dimensions / Weight**

See pages 3 & 4

**Finish**

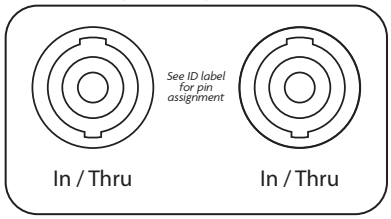
Black painted enclosure w/ matte black grille

### Options

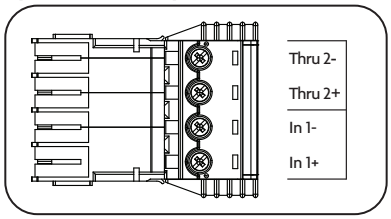
Phoenix block input, Custom color finish,
IP55 Weather-resistant (WR) enclosure & hardware

## Connections

**Neutrik NL4 Speakon Input**




**Optional Phoenix Input**




Phoenix 1778081 plug:
*Min* 24 AWG / 0.2 $mm^2$
*Max* 10 AWG / 6.0 $mm^2$

## Mechanical Specification Drawings

2D and 3D DWG dimensional drawings are available for download at www.fulcrum-acoustic.com/resources .

## Accessories

**VAFK**
Vertical array frame kit for CC215, CC230, and CCS18. Includes reversible extension bar. Use to suspend up to eight (8) loudspeaker enclosures.*

**CY-CC2**
Cluster yoke bracket kit. Use to mount two (2) of any combination CC215/CC230 to overhead structure.

**YK-CC2**
Standard yoke bracket for CC215 and CC230. Use to mount one (1) of either loudspeaker to overhead structure. Not to be used for wall mounting.

**AY-CC2**
Array yoke bracket kit for CC215 or CC230. Usable in pairs (2) to suspend arrays up to maximum four (4) CC215 and/or CC230 or as a pull-back attachment when using VAFK.*

**LBK215**
Standard link bar kit for CC215. Connects CC215 below VAFK, CC215, CC230, or CCS18.

**LBK215-EXT**
Extension link bar kit for CC215. Connects CC215 below another CC215 at a reduced splay angle of 10 degrees. Not to be used to connect below VAFK, CC230, or CCS18.

**LBK215-AY**
Array yoke link bar kit for CC215. Connects CC215 below AY-CC2.

**LBK230**
Standard link bar kit for CC230. Connects CC230 below VAFK, CC215, CC230, or CCS18.

**LBK230-AY**
Array yoke link bar kit for CC230. Connects CC230 below AY-CC2.

* *Use the CC rigging calculator to determine acceptable configurations of enclosures.*

## Notes

[1] **Performance Specifications** *All acoustic specifications rounded to nearest whole number. External DSP with Fulcrum Acoustic-provided settings is required to achieve the specified performance.*

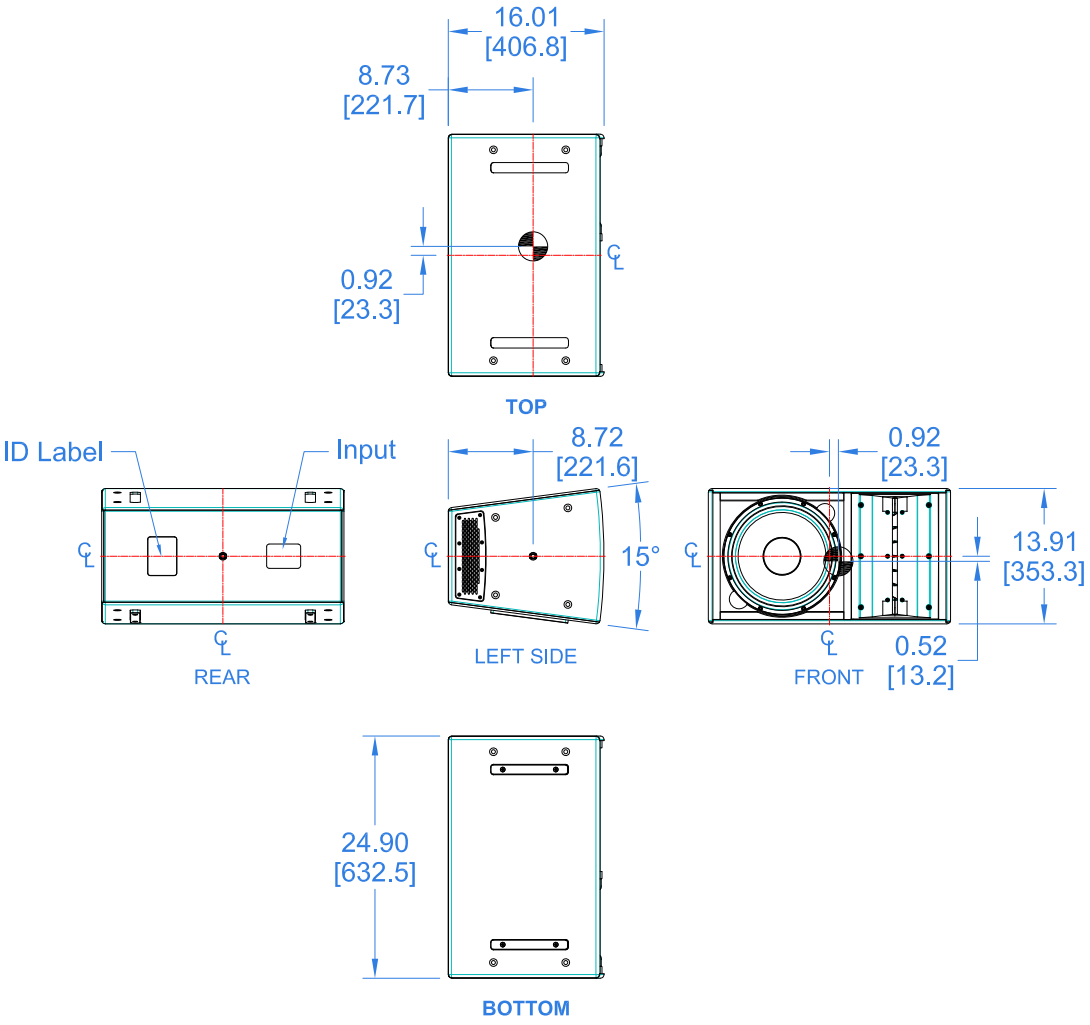
[2] **Operating Range** *The frequency range within which the processed response is within 10 dB of the average.*

[3] **Power Handling** *Based on the AES power handling of the transducers.*

[4] **Maximum Peak SPL** *Signal source is AES75 Music Noise, measured at 2 meters and scaled to 1 meter with no weighting. The maximum SPL that can be achieved under real-world conditions depends on a number of factors, including array size and shape, distance to the listener, nature of the source material for tests (its spectrum and peak-to-average ratio), SPL meter settings (e.g. A, C, flat, LEQ), and signal processing settings. No single number can encapsulate all these variables. Please refer to Fulcrum One design software to explore SPL capabilities of a specific system design.*

Notes:
1. Net Weight = Approx. 46.5 lb / 21.1 kg
2. Symbol ◎ = M10 x 1.5 eye bolt angle point
3. Symbol ○ = M10 x 1.5 nut plate
4. Symbol ⊕ = CoG

| REVISIONS | | |
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| REV | DESCRIPTION | APPR / DATE |
| 1 | New Issue | RAF 05/21/25 |
| 2 | Update weight, CoG, & yoke point location | RAF 09/26/25 |




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TOLERANCE IN INCHES
X.X±.1 X.XX±.015 X.XXX±.005
FRACTIONS ±1/32 ANGLES ±1/2°

(X.XX) = REF DIMS
NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL

FULCRUM ACOUSTIC, LLC
1 MAIN STREET WHITINSVILLE, MA 01588 USA

TITLE: Mechanical Spec, CC215

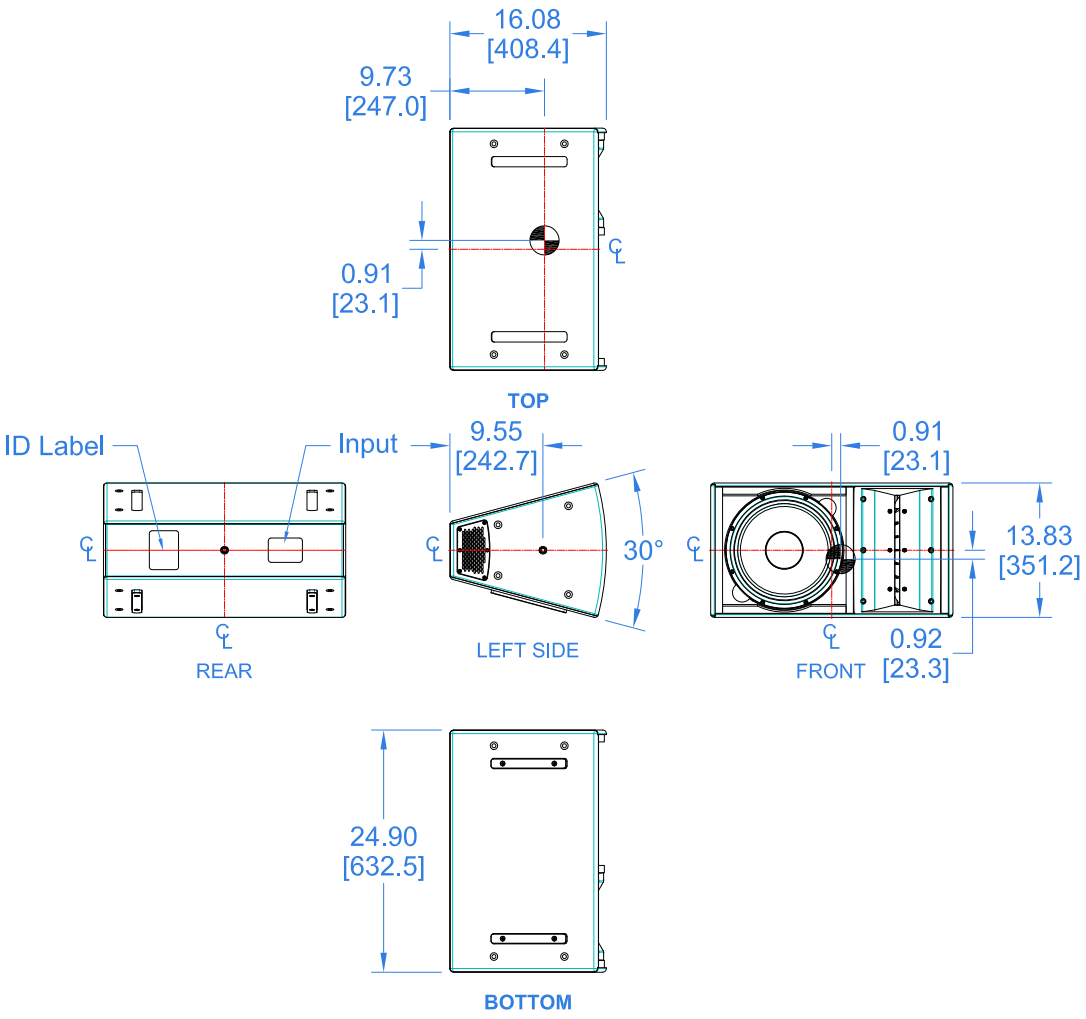
A | SHEET 1 OF 1 | SCALE: 1 : 16

DWG. NO. 820-100-187 | REV 2

*Drawing is reduced. Do not scale.*

Notes:
1. Net Weight = Approx. 44.0 lb / 20.0 kg
2. Symbol ◎ = M10 x 1.5 eye bolt angle point
3. Symbol ○ = M10 x 1.5 nut plate
4. Symbol ◓ = CoG

| REVISIONS | | |
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| REV | DESCRIPTION | APPR / DATE |
| 1 | New Issue | RAF 05/21/25 |
| 2 | Update weight & CoG | RAF 09/26/25 |



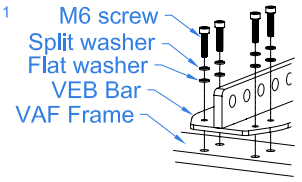

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*Drawing is reduced. Do not scale.*

Notes:
1. Net Weight = Approx. 39.0 lb / 17.7 kg
2. Material: 0.187" & 0.50" A36 Steel
3. VAFK includes (2) 3/8 inch screw pin anchor shackles
4. To mount VEB extension bar, place flat and split washers over (8) M6 screws (supplied) as shown in Fig. 1 and tighten screws to specified torque
5. To mount LBK link bars (not included), place flat and split washers over (6) M10 screws (supplied) as shown in Fig. 2 and tighten screws to specified torque

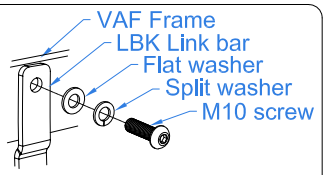
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| REV | DESCRIPTION | APPR / DATE |
| 1 | NEW ISSUE | RAF 7/2/25 |
| 2 | UPDATE DRAWING PART NUMBER | RAF 1/16/26 |
| 3 | UPDATE DRAWING PART NUMBER | RAF 3/24/26 |

Fig. 1




Torque screws to 5 N-m (44.3 in-lb) using M5 hex wrench

Fig. 2




Torque screws to 9 N-m (79.7 in-lb) using M6 hex wrench

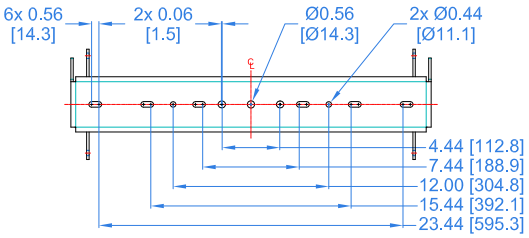


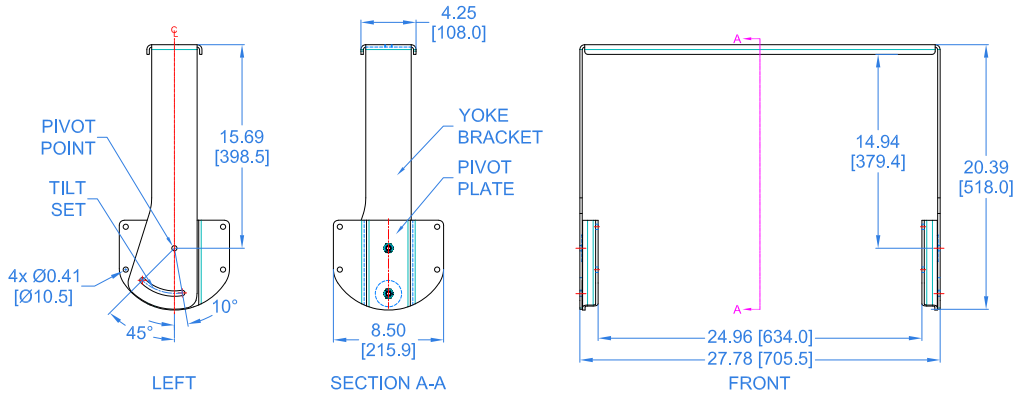

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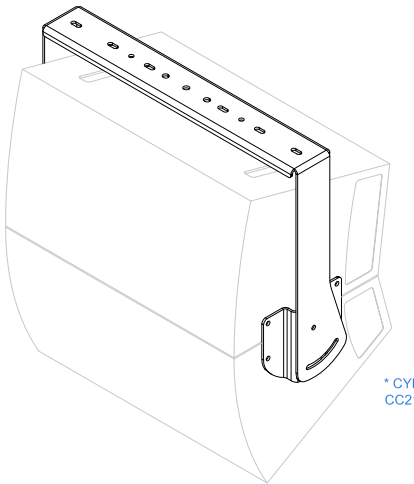
*Drawing is reduced. Do not scale.*

Notes:
1. Net Weight: Approx. 21.5 lb / 9.8 kg
2. Material: 0.1875" thick ASTM A36 steel
3. CYBK includes (1) yoke bracket, (2) pivot plates, (4) M10 button head hex screws, and (12) each flat washers and split washers
4. CYBK may be used to mount (2) of any combination CC215/CC230 to overhead structure; do not use for wall-mount applications
5. Stack (2) CC2xx in desired orienation; remove top (2) button head screws from upper enclosure and bottom (2) button head screws from lower enclosure
6. Using screws removed in step 5 above, place flat & split washers as shown in Fig. 1, install pivot plates, and tighten screws to specified torque
7. Place M10 flat & split washers over (4) M10 button head screws supplied with CYBK and mount bracket to pivot plates as shown in Fig. 1; set desired tilt angle of cluster and tighten screws to specified torque

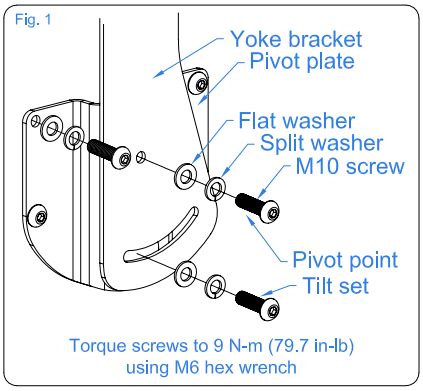
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| 1 | New Issue | RAF 10/10/25 |
| 2 | Update hardware geometry | RAF 03/25/26 |



* CYBK shown with CC215 and CC230

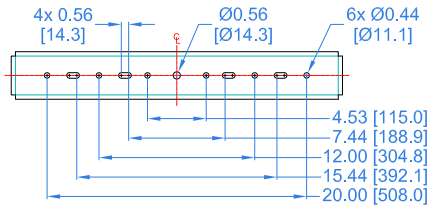


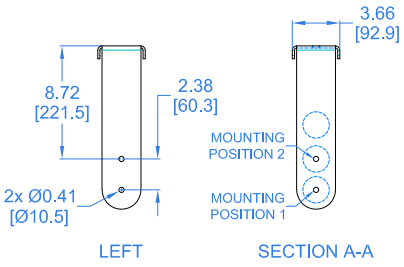

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| DRAWN BY: RAF DATE: 03/25/26 | | A SHEET 1 OF 1 SCALE: 1 : 12 |
| | | DWG. NO. 820-300-073 REV 1 |

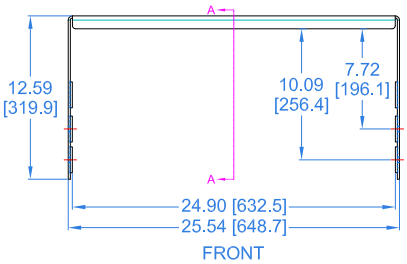
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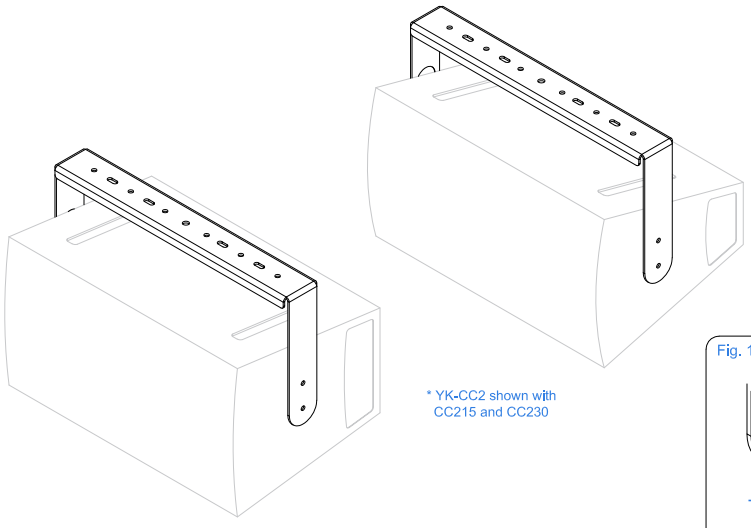
Notes:
1. Net Weight: Approx. 9.0 lb / 4.1 kg
2. Material: 8 GA ASTM A36 steel
3. Bracket includes (2) each M10 button head hex screws, flat washers, and split washers
4. YK-CC2 may be used to mount (1) CC215 or CC230 to overhead structure; do not use for wall-mount applications
5. Remove center M10 flat head screw from each side and discard
6. Place flat & split washers over supplied M10 button head hex screws as shown in Fig. 1 and tighten bolts to specified torque

| REVISIONS | | |
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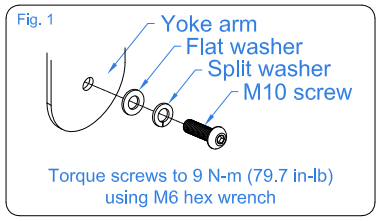


* YK-CC2 shown with CC215 and CC230




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TITLE: YK-CC2 Standard Yoke Bracket

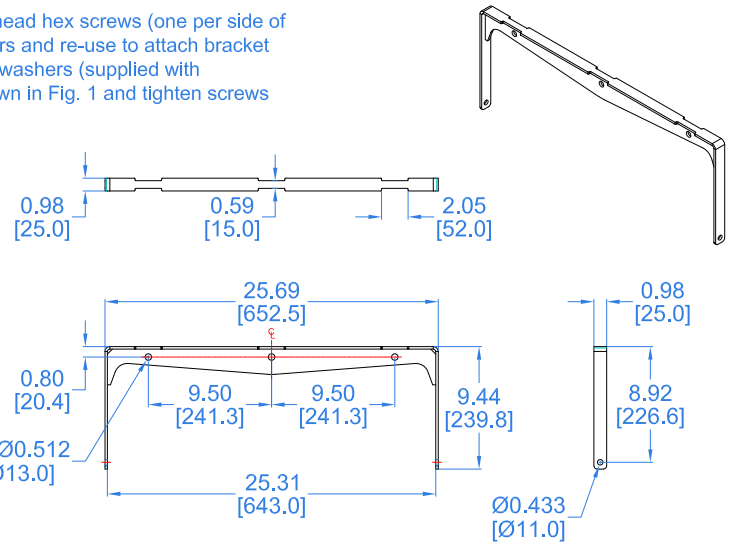
A | SHEET 1 OF 1 | SCALE: 1 : 12

DWG. NO. 820-300-071 | REV 1

*Drawing is reduced. Do not scale.*

Notes:
1. Net Weight: Approx. 4.0 lb / 1.8 kg
2. Material: 0.187" A36 steel
3. Bracket includes (2) 3/8" screw pin anchor shackles
4. AY-CC2 may be used to suspend arrays up to maximum (4) CC215 and/or CC230
5. Remove (2) M10 button head hex screws (one per side of loudspeaker) from link bars and re-use to attach bracket
6. Place (2) M10 flat & split washers (supplied with AY-CC2 bracket) as shown in Fig. 1 and tighten screws to specified torque

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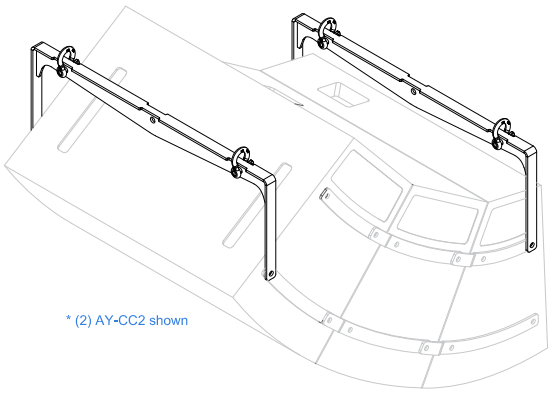
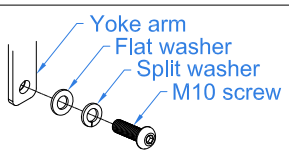




Fig. 1




Torque screws to 9 N-m (79.7 in-lb) using M6 hex wrench

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FRACTIONS ±1/32 ANGLES ±1/2°

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FULCRUM ACOUSTIC, LLC
1 MAIN STREET, WHITINSVILLE, MA 01588 USA

TITLE: AY-CC2 Array Yoke Bracket

A | SHEET 1 OF 1 | SCALE: 1 : 12

DWG. NO. 820-300-070 | REV 1

*Drawing is reduced. Do not scale.*

Notes:
1. Material: 0.187" A36 steel
2. FL = Front Left, FR = Front Right
3. RL = Rear Left, RR = Rear Right
4. Remove (8) M10 button head hex screws (four per side of loudspeaker) and re-use to attach brackets
5. Place (8) M10 flat & split washers (supplied with LBK215 kit) as shown in Fig. 1 and tighten screws to specified torque

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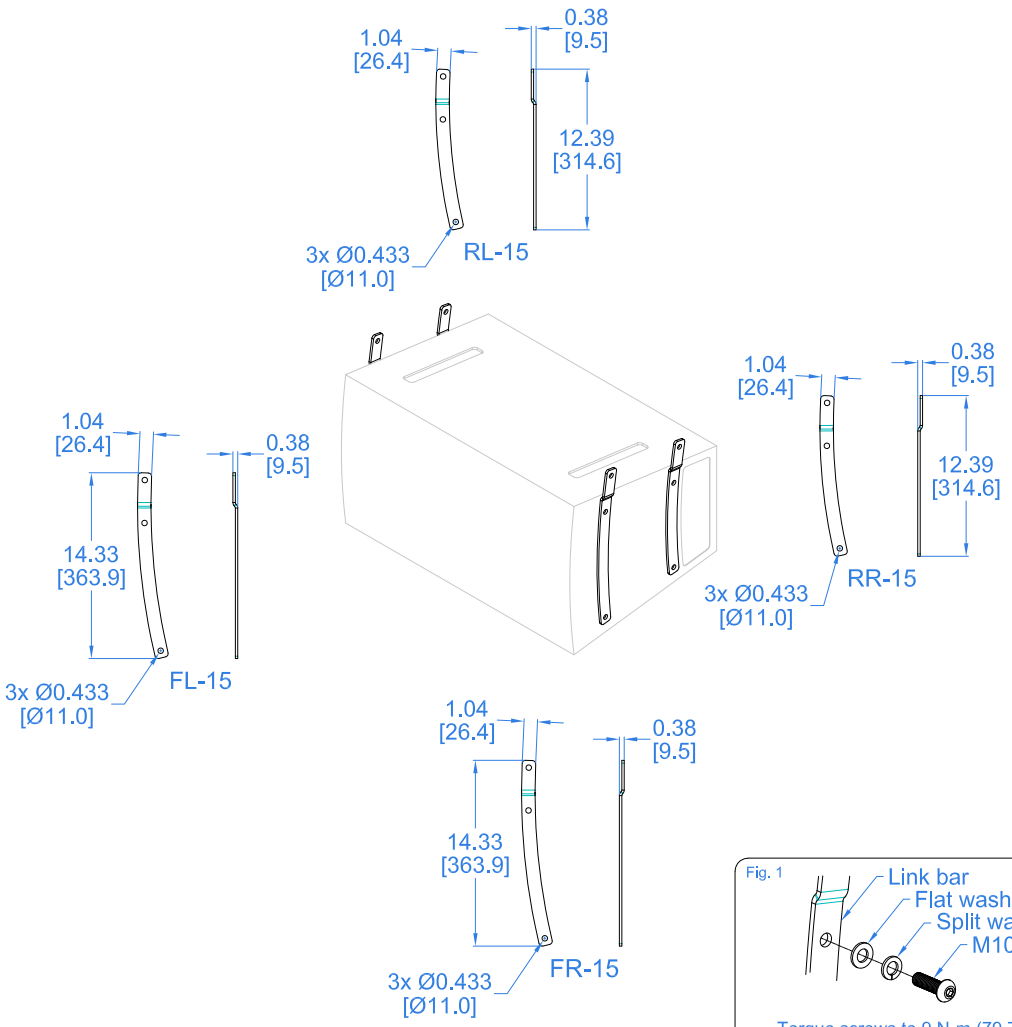



Fig. 1




Torque screws to 9 N-m (79.7 in-lb) using M6 hex wrench

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UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES

TOLERANCE IN INCHES
X.X±.1 X.XX±.015 X.XXX±.005
FRACTIONS ±1/32 ANGLES ±1/2°

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DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL

FULCRUM ACOUSTIC, LLC
1 MAIN STREET, WHITINSVILLE, MA 01588 USA

TITLE: LBK215 Link Bar Kit

A | SHEET 1 OF 1 | SCALE: 1 : 12

DWG. NO. 820-300-063 | REV 1

*Drawing is reduced. Do not scale.*

Notes:
1. Material: 0.187" A36 steel
2. FL = Front Left, FR = Front Right
3. RL = Rear Left, RR = Rear Right
4. Remove (8) M10 button head hex screws (four per side of loudspeaker) and re-use to attach brackets
5. Place (8) M10 flat & split washers (supplied with LBK215-EXT kit) as shown in Fig. 1 and tighten screws to specified torque

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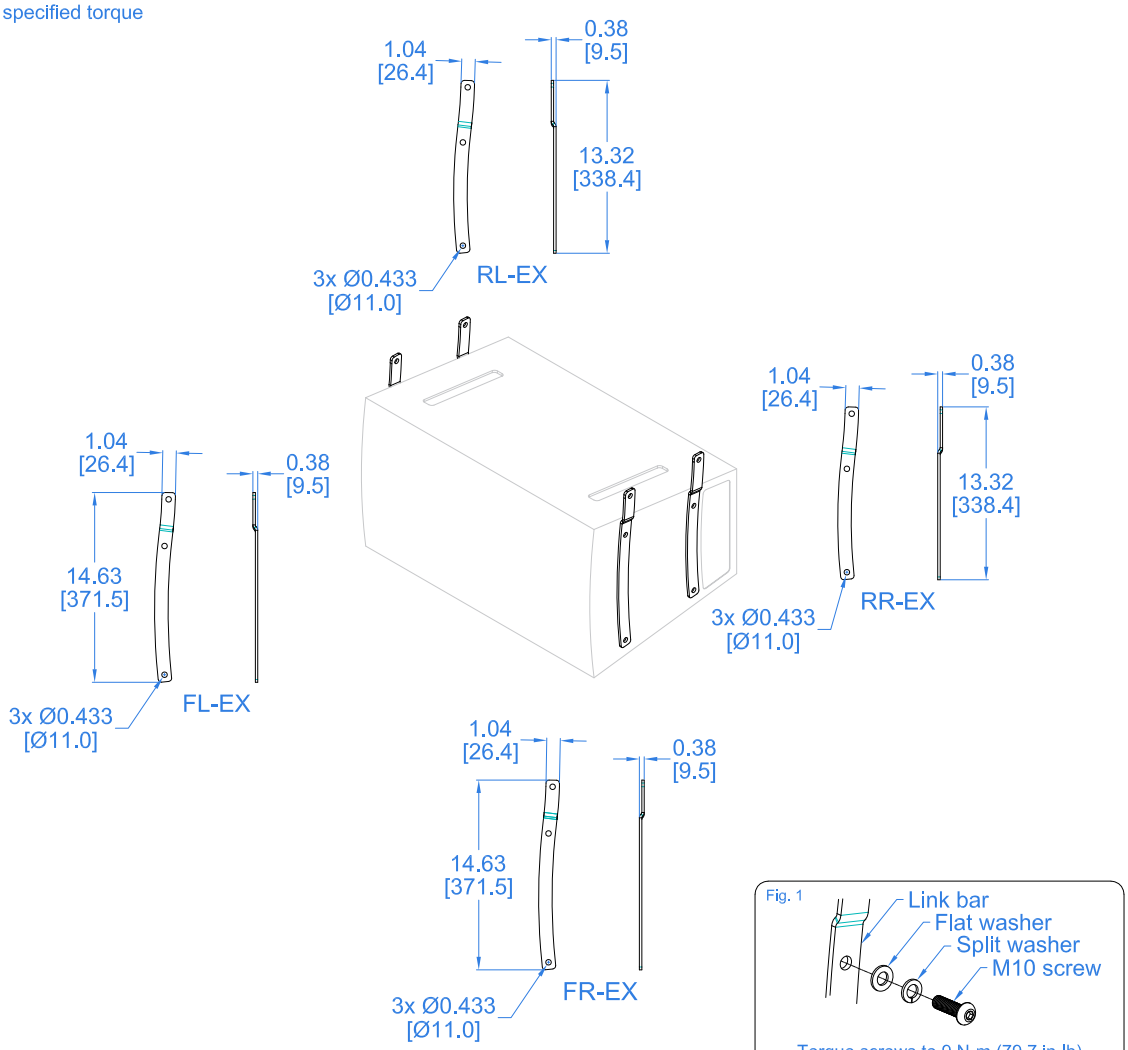



Fig. 1




Torque screws to 9 N-m (79.7 in-lb) using M6 hex wrench

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DRAWN BY: RAF DATE: 03/17/26

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES

TOLERANCE IN INCHES
X.X±.1 X.XX±.015 X.XXX±.005
FRACTIONS ±1/32 ANGLES ±1/2°

(X.XX) = REF DIMS
NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL

FULCRUM ACOUSTIC, LLC
1 MAIN STREET, WHITINSVILLE, MA 01588 USA

TITLE: LBK215-EXT Link Bar Kit

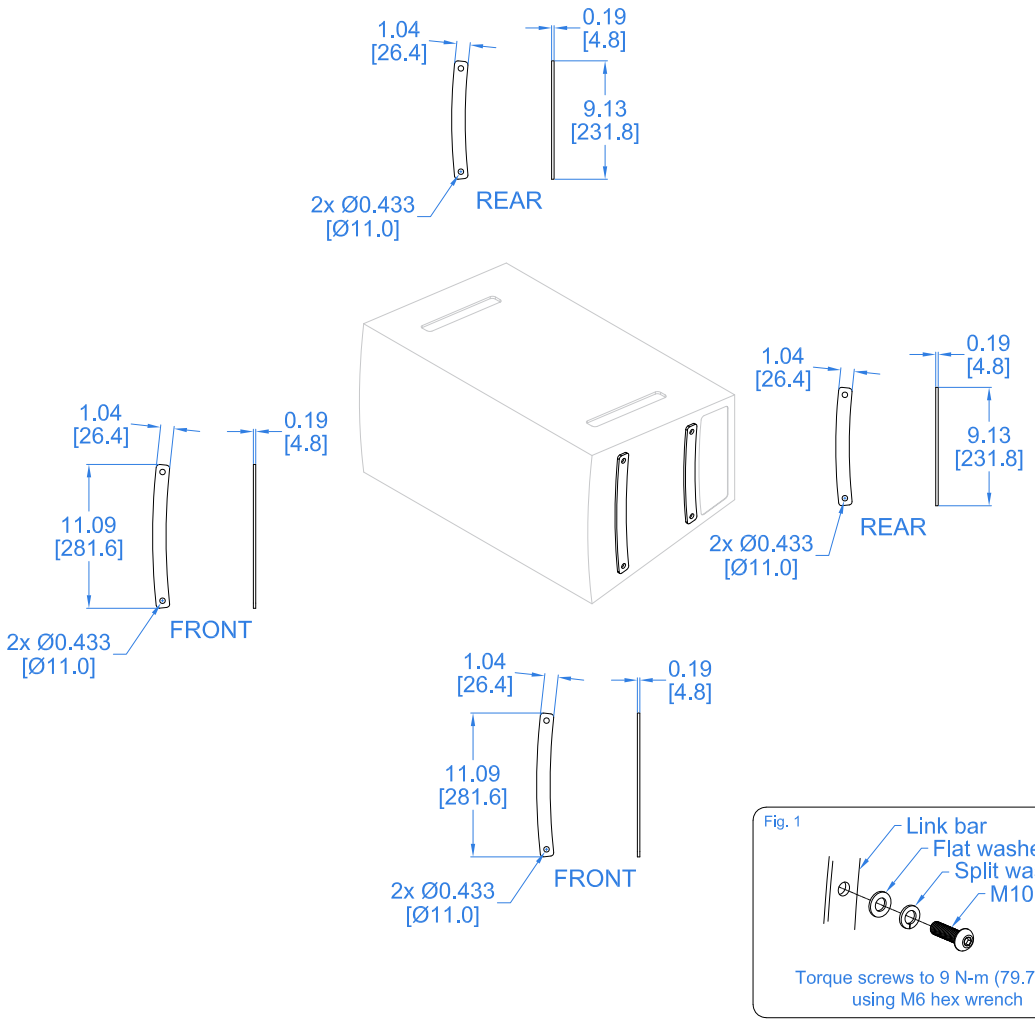
A | SHEET 1 OF 1 | SCALE: 1 : 12

DWG. NO. 820-300-064 | REV 1

*Drawing is reduced. Do not scale.*

Notes:
1. Material: 0.187" A36 steel
2. Kit includes (2) front and (2) rear brackets
3. Remove (8) M10 button head hex screws (four per side of loudspeaker) and re-use to attach brackets
4. Place (8) M10 flat & split washers (supplied with LBK215-AY kit) as shown in Fig. 1 and tighten screws to specified torque

| REVISIONS | | |
|---|---|---|
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| 1 | New Issue | RAF 03/18/26 |







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*Drawing is reduced. Do not scale.*

Notes:
1. Material: 0.187" A36 steel
2. FL = Front Left, FR = Front Right
3. RL = Rear Left, RR = Rear Right
4. Remove (8) M10 button head hex screws (four per side of loudspeaker) and re-use to attach brackets
5. Place (8) M10 flat & split washers (supplied with LBK230 kit) as shown in Fig. 1 and tighten screws to specified torque

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| REV | DESCRIPTION | APPR / DATE |
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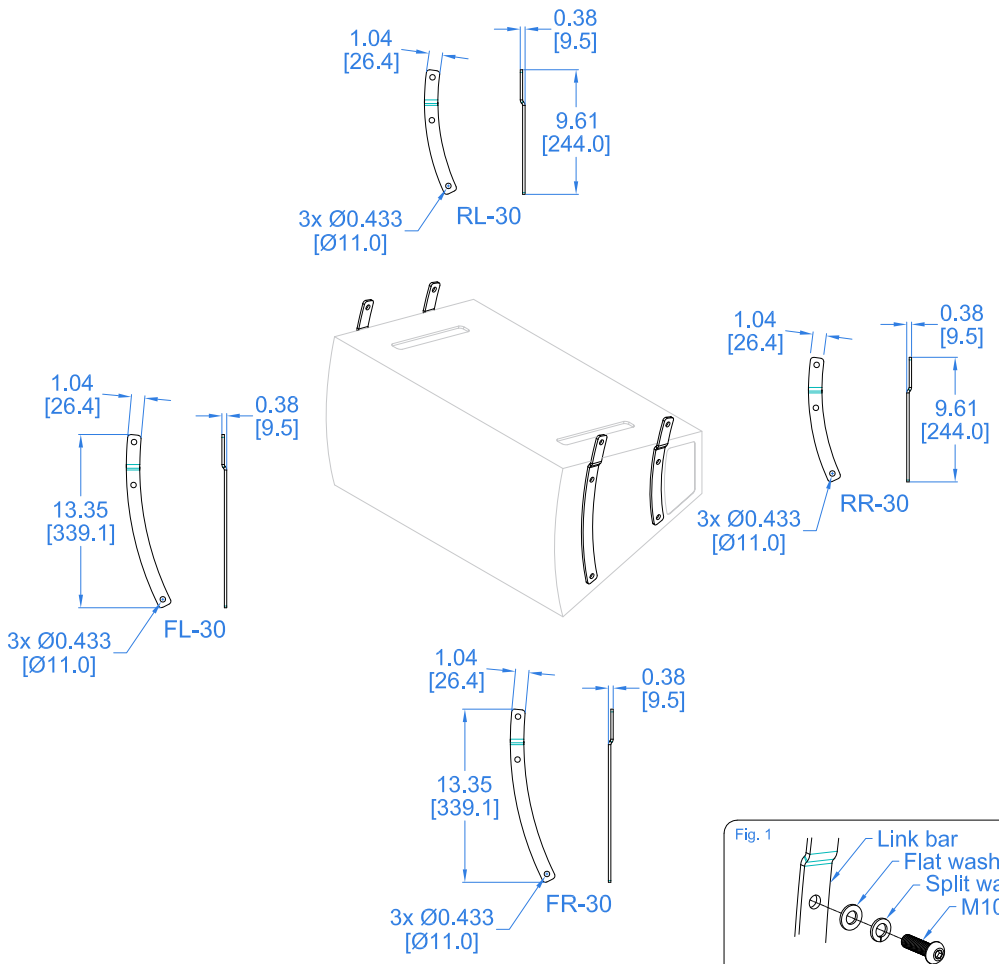



Fig. 1




Torque screws to 9 N-m (79.7 in-lb) using M6 hex wrench

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| THIRD ANGLE PROJECTION | UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES<br>TOLERANCE IN INCHES<br>X.X±.1 X.XX±.015 X.XXX±.005<br>FRACTIONS ±1/32 ANGLES ±1/2°<br>(X.XX) = REF DIMS<br>NO TOLERANCE IMPLIED<br>TSC = THEORETICAL SHARP CORNER<br>DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL | FULCRUM ACOUSTIC, LLC<br>1 MAIN STREET, WHITINSVILLE, MA 01588 USA |
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| DRAWN BY: RAF DATE: 03/18/26 | | A SHEET 1 OF 1 SCALE: 1 : 12 |
| | | DWG. NO. 820-300-066 REV 1 |

*Drawing is reduced. Do not scale.*

Notes:
1. Material: 0.187" A36 steel
2. Kit includes (2) front and (2) rear brackets
3. Remove (8) M10 button head hex screws (four per side of loudspeaker) and re-use to attach brackets
4. Place (8) M10 flat & split washers (supplied with LBK230-AY kit) as shown in Fig. 1 and tighten screws to specified torque

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| REV | DESCRIPTION | APPR / DATE |
| 1 | New Issue | RAF 03/18/26 |

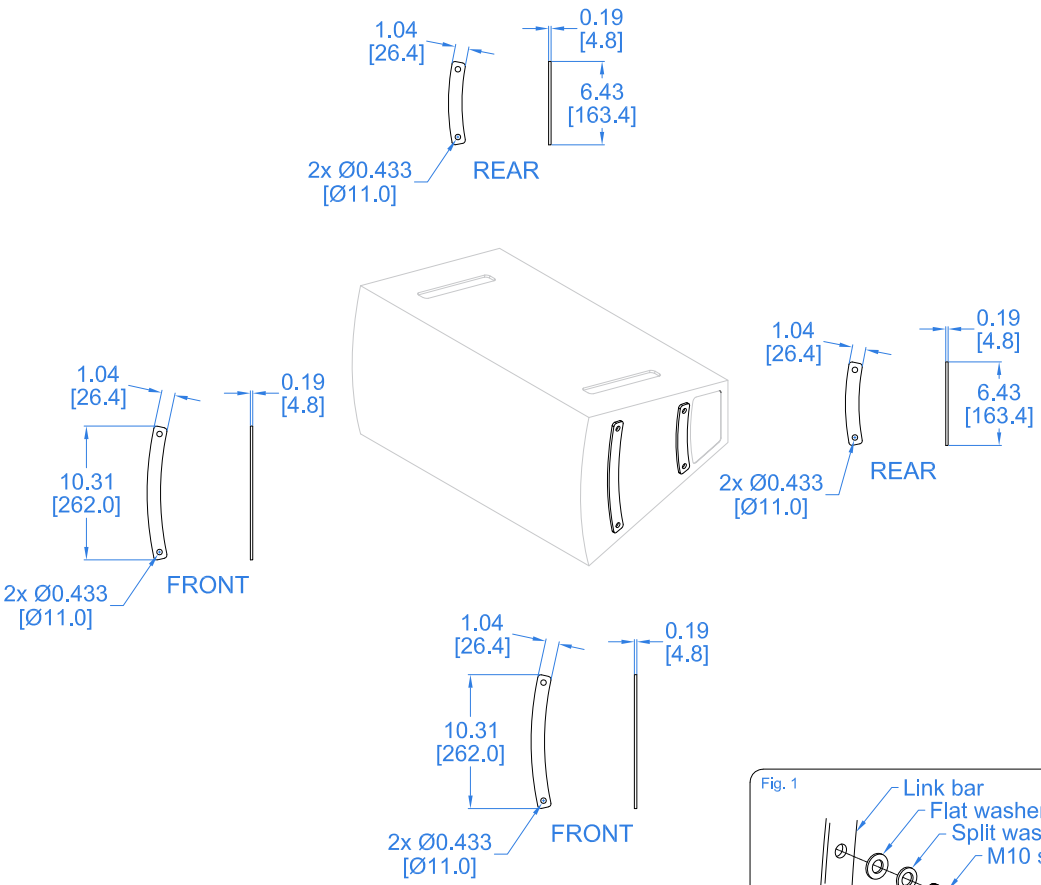



Fig. 1




Torque screws to 9 N-m (79.7 in-lb) using M6 hex wrench

THIRD ANGLE PROJECTION

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DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL

FULCRUM ACOUSTIC, LLC
1 MAIN STREET, WHITINSVILLE, MA 01588 USA

TITLE: LBK230-AY Link Bar Kit

A | SHEET 1 OF 1 | SCALE: 1 : 12

DWG. NO. 820-300-067 | REV 1

*Drawing is reduced. Do not scale.*