

## MG-2D Grid Assembly Guide and Load Ratings

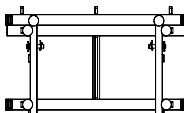
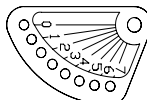
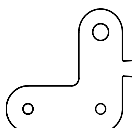
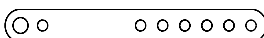
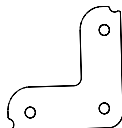
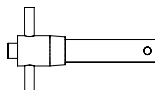
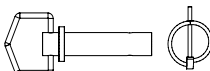



This Assembly Guide provides instructions of how to safely use and assemble the MG-2D Multipurpose Grid. The MG-2D is designed to provide a flexible flying or ground support solution for almost every installation of M2Ds and M2D-Subs. The CamLinks, Front Links and various other hardware included with the MG-2D can be used in a number of configurations and orientations.

There are three basic configurations for the MG-2D, and each has a variety of adjustment depending on the links being used. The following configurations are covered in this Assembly Guide:

1. Flown
  - A. With the 1st M2D or M2D-Sub at 0 to -7 degrees of downtilt
  - B. With the 1st M2D or M2D-Sub at 0 to 15 degrees of uptilt
  - C. With the grid reversed when more extreme uptilt is required
2. Ground Supported
  - A. With the bottom M2D at 0 to 7 degrees of uptilt
  - B. With the bottom M2D at 0 to -15 degrees of downtilt
  - C. With the bottom M2D-Sub at 0 to 7 degrees of uptilt, and the M2D downtilted over the M2D-Sub
3. Transition from an M3D to the MG-2D (Optional MTK-2D Required)

### 40.112.050.01 - MG-2D Multipurpose Grid Kit Contents

	<u>Item</u>	<u>Qty</u>	<u>M.S. Part Number</u>	<u>Description</u>
A	1	40.112.050.01	Grid Assembly	
	B	2	45.112.051.01	MG-2D CamLink, Labeled
	C	2	61.112.052.01	MG-2D Front Link
	D	2	61.112.027.01	MG-2D Adjustable Link, 3 degree increments.
	E	2	61.112.032.01	M2D Downtilt Link
	F	4	134.007	0.5" x 2.5" Quick Release Pins (QRPs)
	G	2	134.019	Hitch Pin, 0.88" x 4.25", Black Handle
	I	6	124.074	Leveling Foot

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### 1.A. MG-2D In Flown Configuration


This configuration shows the most common requirements for flying an M2D system. Using this combination of links provides 0 to -7 degrees of downtilt for the first cabinet in the array. The grid may also be tilted up or down, up to a maximum of 35 degrees using single or multiple rigging points.

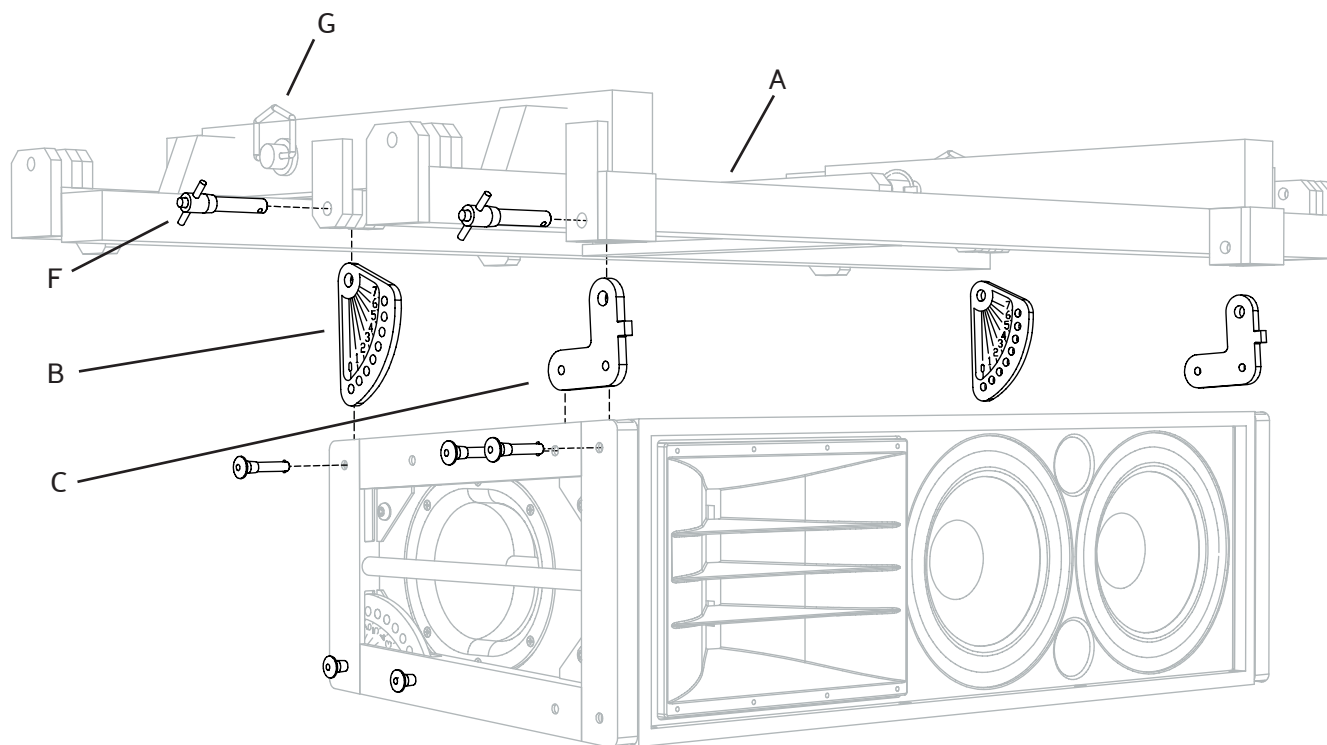
Install the CamLink (B) as shown for 0 to -7 degrees of downtilt between the grid and the first cabinet. Install the MG-2D Front Links (C) as shown, and secure with all three QRPs.


#### Maximum Load:

7:1 safety factor: Up to 12 M2Ds or the equivalent weight of M2Ds and/or M2D-Subs

5:1 safety factor: Up to 16 M2Ds or the equivalent weight of M2Ds and/or M2D-Subs

 **WARNING:** The leveling feet must always be removed from the MG-2D before installing the grid overhead. This is done by unscrewing from the MG-2D the entire leveling foot assembly including the threaded leg.



 **CAUTION:** When flying an array from the MG-2D, it must always be supported by at least one pick-up hole from the MG-2D's central member. The extension frame may be used as a secondary pick-up location for tilting the array or spreading the rigging between two points.

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### 1.B. MG-2D In Flown Configuration

This configuration may be used when flying an M2D system that will require uptilt of the first M2D or M2D-Sub while keeping the grid level. The grid may also be tilted up or down to a maximum of 35 degrees, when two motors are used in an upstage / downstage configuration.

Install the Adjustable Link (D) as shown for 0 to 15 degrees of uptilt (in 3 degree increments) between the grid and the first cabinet.

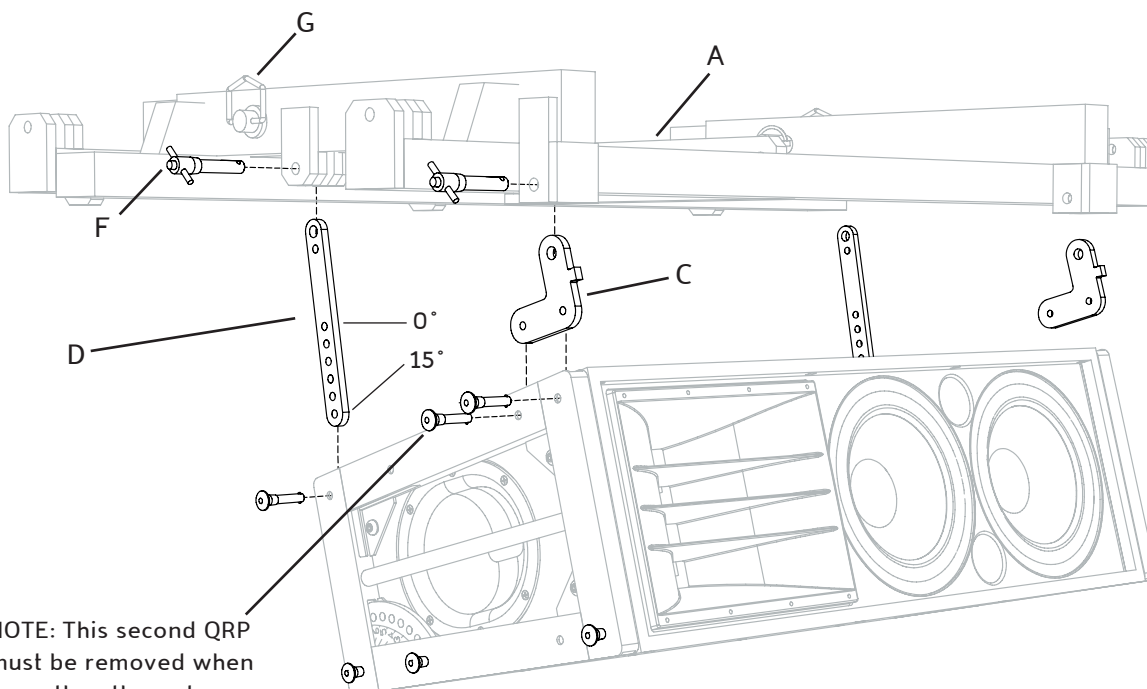
#### Maximum Load:

7:1 safety factor: Up to 12 M2Ds or the equivalent weight of M2Ds and/or M2D-Subs

5:1 safety factor: Up to 16 M2Ds or the equivalent weight of M2Ds and/or M2D-Subs



**WARNING:** The leveling feet must always be removed from the MG-2D before installing the grid overhead. This is done by unscrewing from the MG-2D the entire leveling foot assembly including the threaded leg.



**NOTE:** This second QRP must be removed when more than three degrees of uptilt is required.



**CAUTION:** When flying an array from the MG-2D, it must always be supported by at least one pick-up hole from the MG-2D's central member. The extension frame may be used as a secondary pick-up location for tilting the array or spreading the rigging between two points.

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### 1.C. MG-2D In Flown Configuration

This configuration is useful in applications where the MG-2D must be tilted upwards so extremely as to cause the array's center of gravity to fall forward of the array. Reversing the MG-2D positions the grid extension arm in front of the array, providing a forward pick-up point. Further uptilt can be achieved by using the MG-2D's extension arm in the retracted, middle or fully-extended position. The MG-2D **MUST** be suspended from the main body of the grid. Only use the extension arm as a secondary pick-up location.

Install the Front Links (C) and the Adjustable Links (D) as shown. The second (most inward) M2D QRP is omitted in the Front Link when connecting to the rear of M2D. CamLinks may not be used when the MG-2D is in this orientation.

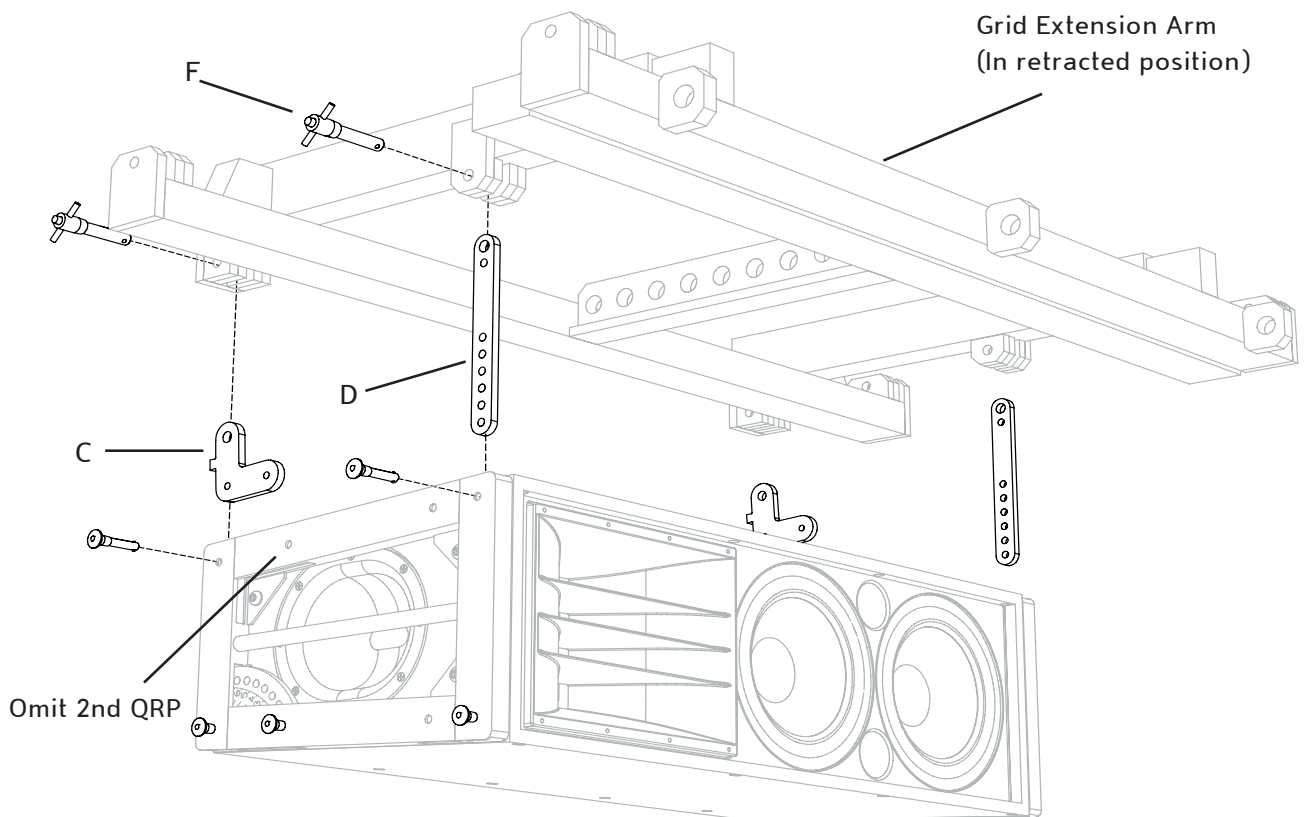
#### Maximum Load:

7:1 safety factor: Up to 12 M2Ds or the equivalent weight of M2Ds and/or M2D-Subs

5:1 safety factor: Up to 16 M2Ds or the equivalent weight of M2Ds and/or M2D-Subs



**WARNING:** The leveling feet must always be removed from the MG-2D before installing the grid overhead. This is done by unscrewing from the MG-2D the entire leveling foot assembly including the threaded leg.



**CAUTION:** When flying an array from the MG-2D, it must always be supported by at least one pick-up hole from the MG-2D's central member. The extension frame may be used as a secondary pick-up location for tilting the array or spreading the rigging between two points.

## MG-2D Grid Assembly Guide and Load Ratings



### 2.A. MG-2D In Ground Support Configuration

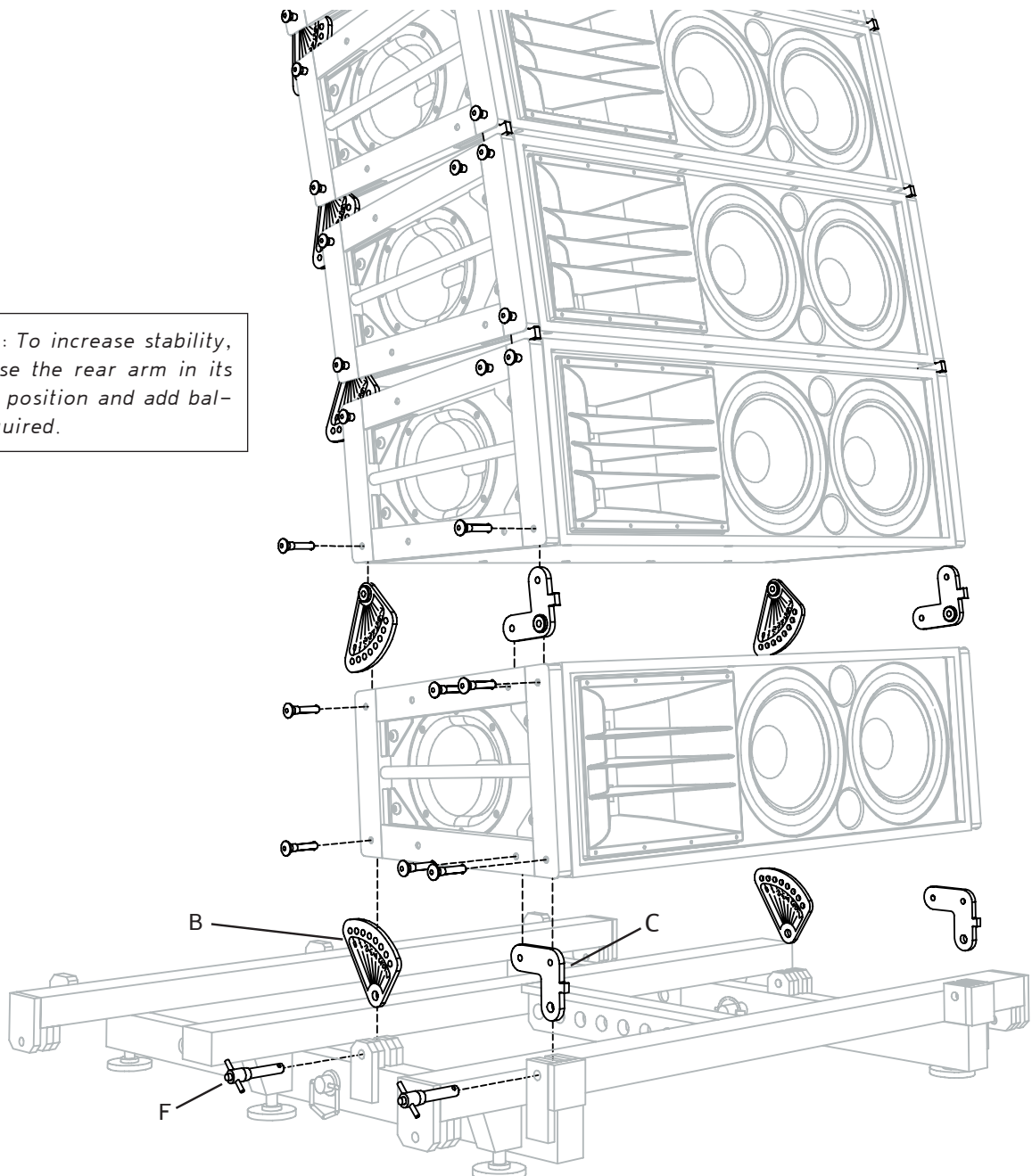
This configuration is used for applications requiring 0 to 7 degrees of uptilt for the first M2D. The drawing shows an example configuration of M2Ds being stacked onto an MG-2D with the frame extended.

Install the MG-2D's blue CamLinks (B) and Front Links (C) in the same orientation as shown below.

Once the first M2D is attached to the MG-2D, install the additional loudspeakers as follows: With the CamLinks tucked away, set the Front Links as shown on the uppermost M2D. Using the Front Link as a peg, sit the M2D on the Front Link's spacer. Set both QRP's into the Front Link of the M2D, then set the CamLink to the desired splay angle.



**WARNING:** To increase stability, always use the rear arm in its extended position and add ballast if required.



## MG-2D Grid Assembly Guide and Load Ratings



### 2.B. MG-2D In Ground Support Configuration

This configuration is used for applications requiring 0 to 15 degrees of downtilt for the first M2D. This drawing shows an example configuration of M2Ds being stacked onto an MG-2D with the frame extended.

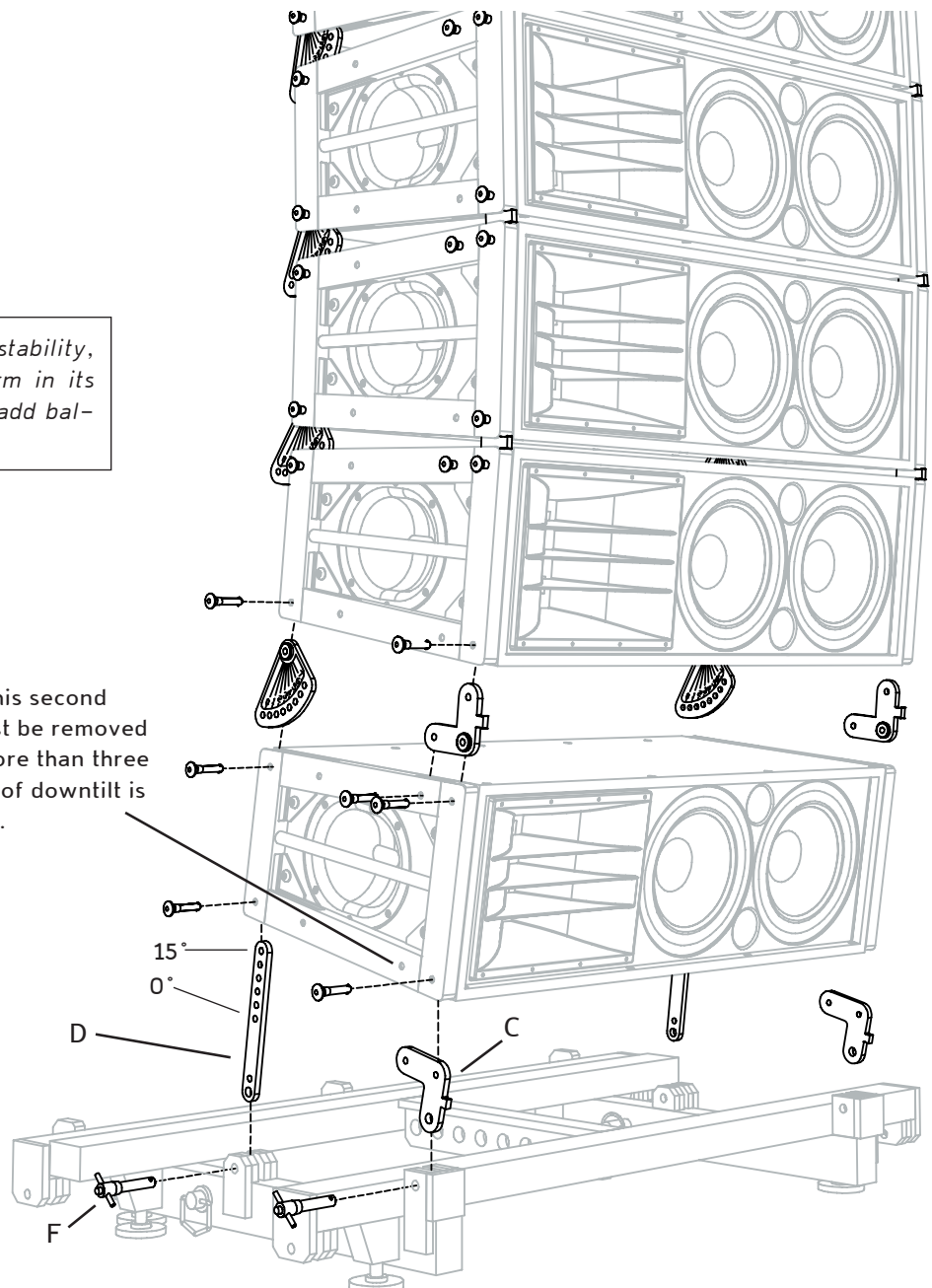
Install blue Adjustable Links (D) and Front Links (C) in the same orientation as shown below..

Once the first M2D is attached to the MG-2D, install the additional loudspeakers as follows: With the CamLinks tucked away, set the Front Links as shown on the upper most M2D. Using the Front Link as a peg, sit the M2D on the Front Link's spacer. Set both QRPs into the Front Link of the M2D, then set the CamLink to the desired splay angle.



**WARNING:** To increase stability, always use the rear arm in its extended position and add ballast if required.

**NOTE:** This second QRP must be removed when more than three degrees of downtilt is required.





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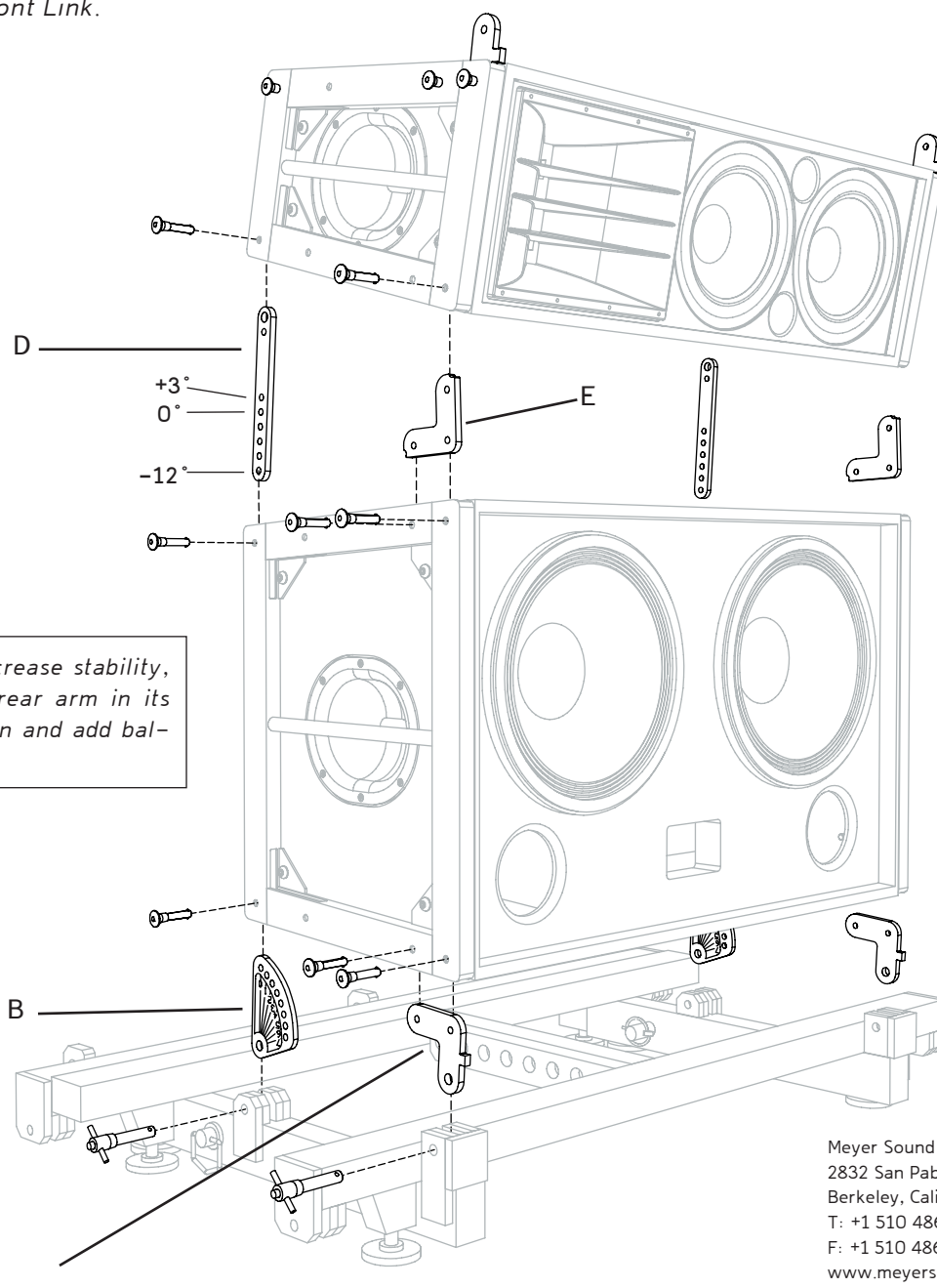


### 2.C. MG-2D in a Ground Support Configuration

This drawing shows an example configuration of M2D-Subs stacked onto the MG-2D, with a downtilted M2D being installed above.

Install the blue "L" shaped Downtilt Link (E) as shown, in place of the standard black M2D Front Links between the M2D-Sub and the M2D. Use the Adjustable Links (D) as shown in the rear of the cabinets, using the smaller 5/16" hole instead of the 1/2".

*NOTE: If 0 to 7 degrees of uptilt is needed between the M2D-Sub and first M2D, substitute a standard black M2D CamLink in place of the blue adjustable link (D) shown. The Downtilt Link (E) may also be replaced with a standard black M2D Front Link.*



**WARNING:** To increase stability, always use the rear arm in its extended position and add ballast if required.

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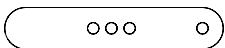
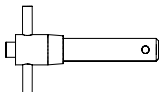


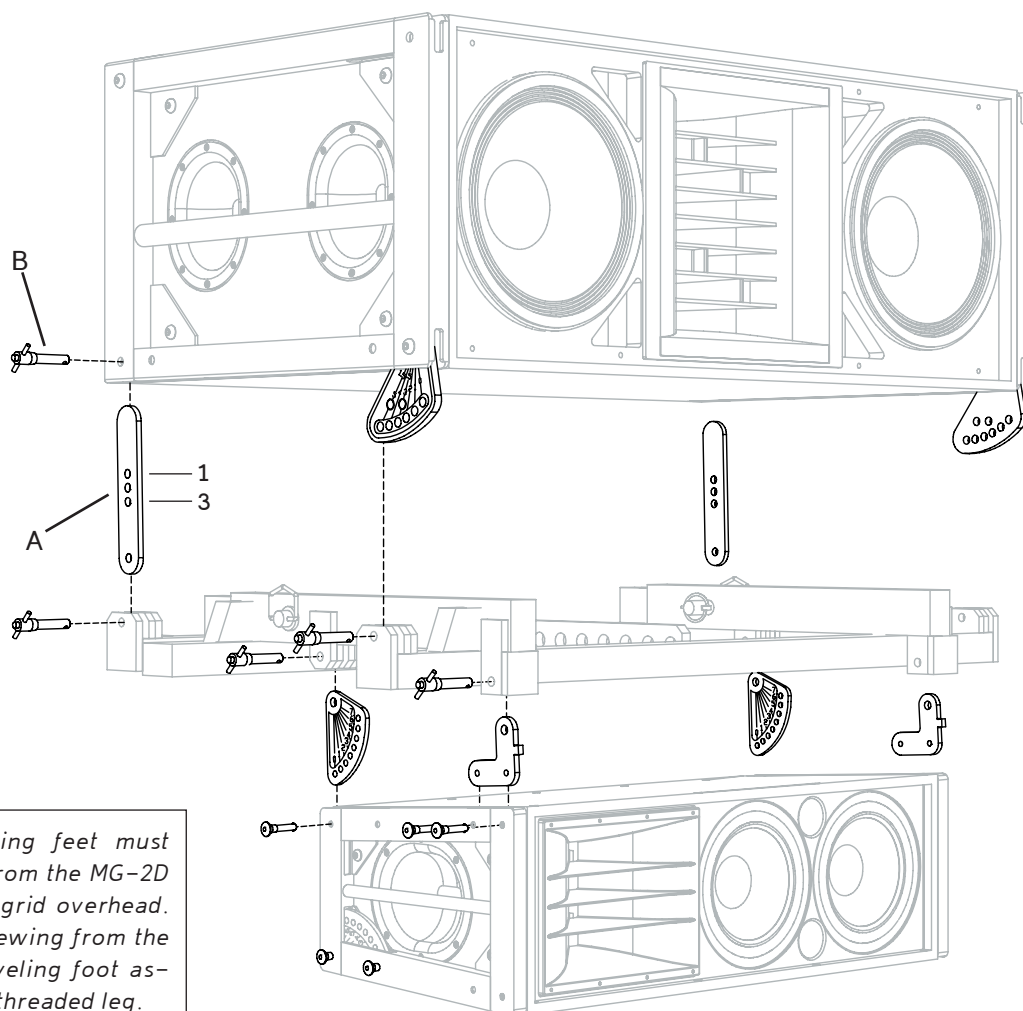
### 3. MG-2D used as a transition frame from M3Ds to M2Ds (Optional MTK-2D is required)

This drawing shows how the MG-2D can be configured to provide a transition from M3Ds or M3D-Subs to M2Ds or M2D-Subs. The grid is oriented as shown below.

Install the MTK-2D's Transition Links into the rear open tubes of the MRF-3D with the Link's single holes downward. Use the M3D CamLinks as the front transition links between the M3D and the MG-2D. CamLink holes 5, 4 and 3 degrees may be used and correspond to the Transition Link's 3 hole choices. Setting the CamLink to hole position 3 and the Transition Link at hole 3 (see below) will result in the MG-2D being parallel to the M3D. This is also true with a combination of CamLink hole 5 and Transition Link hole 2.

#### 40.112.058.01 - MTK-2D Transition Kit Contents

	Item	Qty	M.S. Part Number	Description
	A	2	61.112.029.01	Transition Links
	B	4	134.007	.5" x 2.5" QRPs



**WARNING:** The leveling feet must always be removed from the MG-2D before installing the grid overhead. This is done by unscrewing from the MG-2D the entire leveling foot assembly including the threaded leg.