

EAAW[®]

EASTERN ACOUSTIC WORKS



ADAPTive[™]

systems

Accessory & Rigging Guide

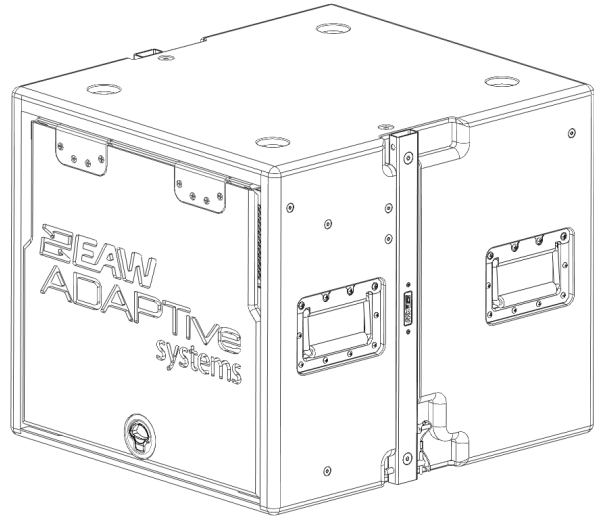
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Cabling System and Distro Racks

ADAPTive systems come complete with purpose-built data and power cabling as well as all necessary power distribution units (PDUs), Distro Racks, panels and switches. Each cluster is self-contained and only requires mains power, audio signal and network connectivity to operate. (User must provide XLR cabling if the system is operated with analog audio inputs.)



Each Distro Rack contains the following (maximum):

- (2) Motion Labs™ PDU (8 circuits for 6x ADAPTive modules + 2x switches)
- (2) Netgear® Prosafe® 16-Port Network Data Switches [GS716T-200]
- Link USA™ Network Distribution Panel

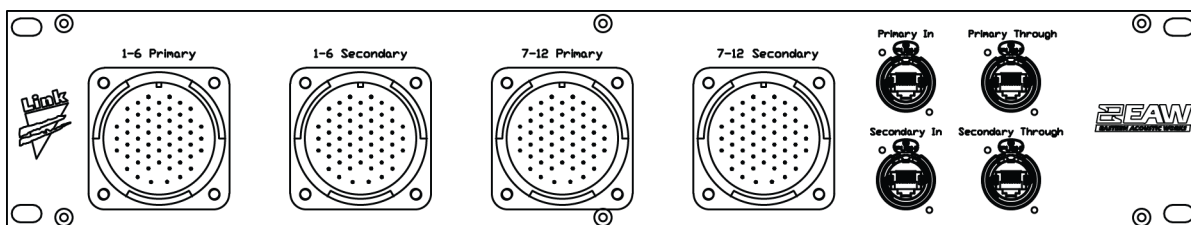
Each fully-loaded Distro Rack is capable of supplying up to 12 ADAPTive modules with full power and with complete data redundancy. If the user elects not to employ data redundancy, each Distro Rack could supply 24 ADAPTive modules with network connectivity and audio signal, but additional PDUs would be required to deliver AC power.)

Audio/Data Connections

Dante™ Digital Audio & Control Network

EAW recommends that users deliver digital audio and control signals via Ethernet and the Dante™ protocol using the fully redundant network.

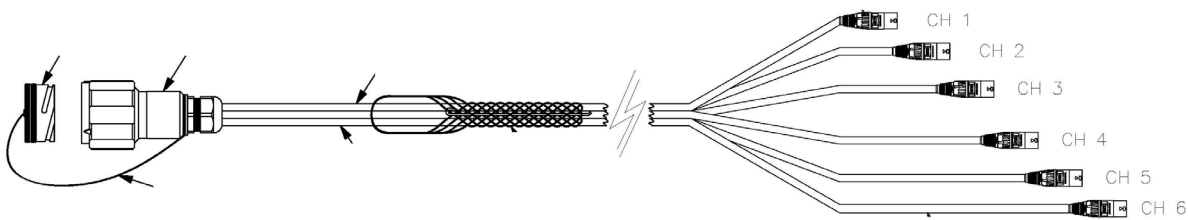
Connect a CAT5e (or higher) cable from a Dante™-capable platform to the Distro Rack input etherCON™ network connector to pass Dante™ Digital Audio signal. Two sets of etherCON™ connectors provide complete redundancy, and switchover from one data port to the other is automatic.



To ensure synchronous arrival of audio, modules within each cluster **MUST** be cabled in a star topology, connecting each module directly to the Distro Rack with a short or long multipin etherCON™ cable loom. For redundancy, a secondary cable loom connects to the secondary etherCON™ port which ties into a secondary data switch.

Thanks to latency compensation capabilities within the Dante™ protocol, it is possible to daisy-chain multiple Distro Racks together (all ADAPTive modules connected in a star topology) while still maintaining synchronous output.

To ensure correct cabling, ADAPTive Systems include a cable package based around 6-module fan-out looms of customized lengths as well as extenders. This system supports a variety of array lengths.
(Refer to Table below for quantities of looms and extensions for each configuration.)



Modules (per column)	Short Loom	Long Loom	Extension
1-6	1	0	0
7-12	1	1	0
13-18	2	1	1
19-24*	2	2	1
25-32*	Contact EAW		

*Array size results in a Design Factor of less than the recommended 10:1. Refer to EAW Resolution for further details.

Cable lengths are as follows:

Short Loom: 6, 8, 10, 12, 14, 16 feet (6 tails)
Long Loom: 18, 20, 22, 24, 26, 28 feet (6 tails)
Extension: 24 feet

Though not required, LK54 extenders may to facilitate remote placement of Distro Racks.

NOTE: Though field-tested and highly reliable, multicore junctions carrying Ethernet data reduce the network's resistance to interference and data loss. In all cases, it is strongly recommended to minimize the number of extensions and multicore couplings used in a given system. Wherever possible, use of a single extender is best.

The two, identical, locking Neutrik® etherCON™ connectors on the rear of each module combine an RJ45 connector with a locking shell. They are designed for connecting Ethernet audio and control signals between additional modules and other Dante™ enabled devices. It is critical that users connect the Primary port to the primary network, and the Secondary port to the secondary network. Crossing network ports and networks (i.e. connecting the Primary port to the Secondary network) will result in communication errors.

While the ADAPTive systems provide a complete data and power cabling solution, users can consult the cable and connector information below to develop their own cabling solutions if desired to meet specific challenges they face in system deployment. It is critical that all components of any user-provided solution meet these specifications.

Cable:	Ethernet CAT5e UTP or better (300 feet/91 meters maximum)
etherCON™ Connector:	RJ45 with or without Neutrik® NE8MC cable carrier
Multi-Pin Connector:	Link USA™ LK54P (female end on looms, male end on panels)
Green Status LED:	A link has been established with another device.
Orange Status LED:	Data is being transferred to/from this port.

Analog Audio

Users wishing to deliver analog audio signal must provide their own XLR cables. The two XLR-type connectors on the rear of each module, one female and one male, are designed for professional audio signal levels, nominally 0 dBu (= 0.775 V). Normally, use the female XLR as the signal input. Use the male XLR as a loop-thru output to connect the same signal input to additional modules. *For correct system operation, it is critical that all modules within an array or cluster receive an identical input signal. All signal processing is performed within each module.*

The wiring convention is as follows:

- Pin 1: Shield
- Pin 2: +/Hot
- Pin 3: -/Cold

Once an analog signal has been connected to one module within a system, that module can act as a Dante™ on-ramp and transmit digital audio data to the rest of the networked modules via Dante™. Though users may choose to loop analog audio to all modules in an array for additional redundancy, it is not necessary to do so.

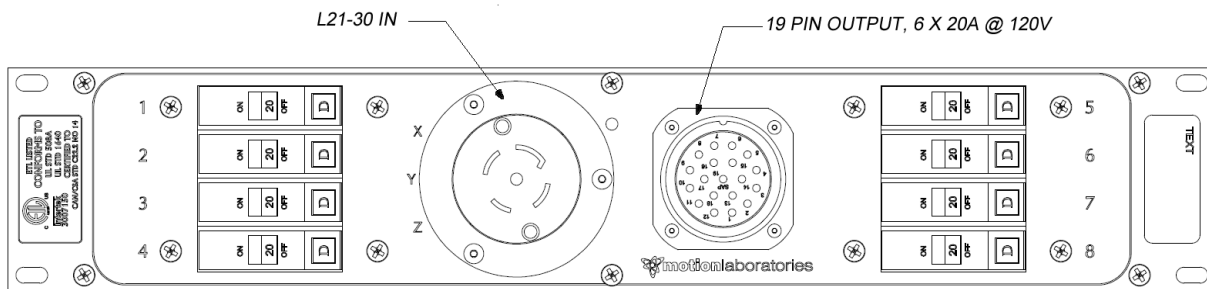
AES/EBU

Users wishing to deliver digital audio using the AES/EBU standard must provide their own XLR cables. Connect the output from your AES/EBU digital audio source to the XLR-3F Input connector on the rear panel. *Do not use loop-through connector when running system with AES/EBU input. Due to induced latency, loop output does not pass AES/EBU signals.*

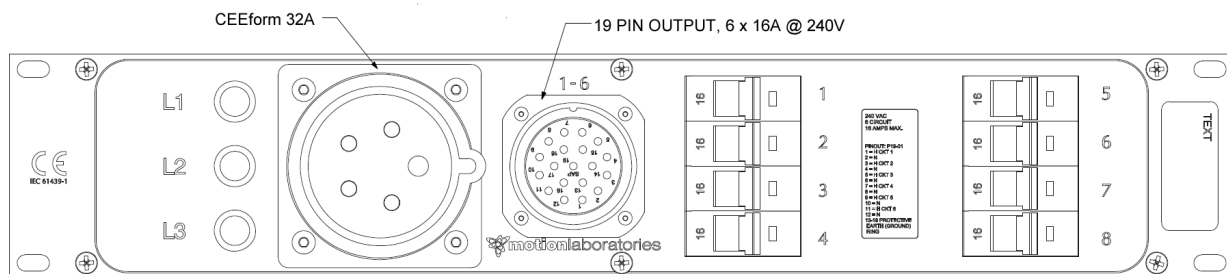
Once an AES/EBU signal has been connected to one module within a system, that module can act as a Dante™ on-ramp and transmit digital audio data to all other networked modules via Dante™. Users need not supply every module with AES/EBU audio.

AC Mains Connection

Power is supplied to each module from the provided Motion Laboratories™ power distribution unit(s), or PDU(s). One PDU is capable of powering six (6) modules, as well as two data switches. Up to two PDUs may be mounted in a Distro Rack, but each PDU must be powered directly from the AC mains source; they cannot be looped and should not be ‘wired’. Please ensure that your main AC service is rated appropriately for the total current draw of the system, plus any supplemental electronics.



US version with L21-30 inlet



International version with CEEform 32A connector

An included industry-standard 19-pin Socapex™-to- powerCON™ TRUE1™ breakout cable distributes power from the PDU to six ADAPtive modules. All modules use Neutrik® powerCON™ TRUE1™ connectors, and the tail lengths of each Neutrik® powerCON™ TRUE1™ are designed to connect to six modules in a column without excess slack. *(Refer to Table below for quantities of looms and extensions for each configuration.)*

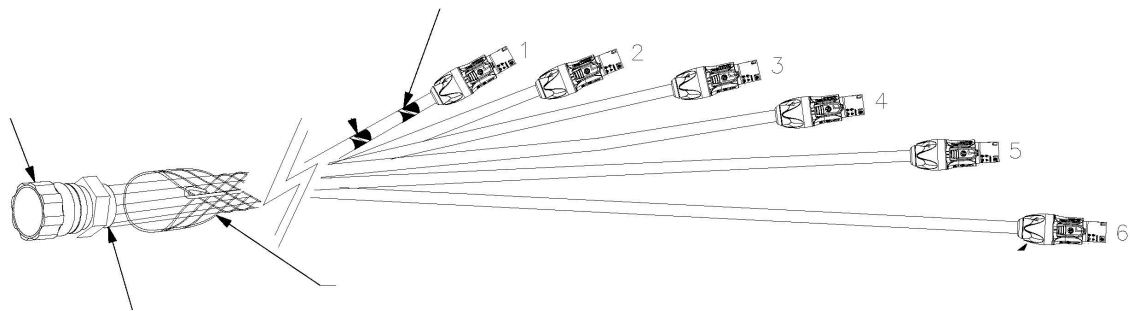
Do not attempt to utilize standard 20A or 32A powerCON™ connectors. They will not fit and may damage the module, and/or cause injury to the user.

Mains power is supplied to each PDU via an L21-30 (US) or CEEform 32A (International) connector.

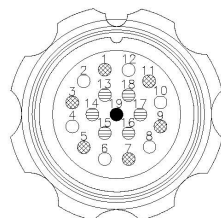
ADAPTive electronics modules will operate on voltages ranging from 90 to 265V AC, 50/60 Hz. No module setting changes are necessary to switch between regional voltage ranges (120, 208, 220, etc.)

As with data, ADAPTive systems include pre-defined AC power cable assemblies with tails and extensions, based around 6-module fan-out looms of varying lengths, as well as extenders. This system supports a variety of array lengths:

- PIN ID PIN FUNCTION
PINOUT DESIGNATION: P19-01
- 1 X CIRCUIT 1 HOT
2 CIRCUIT 1 NEUTRAL
3 Y CIRCUIT 2 HOT
4 CIRCUIT 2 NEUTRAL
5 Z CIRCUIT 3 HOT
6 CIRCUIT 3 NEUTRAL
7 X CIRCUIT 4 HOT
8 CIRCUIT 4 NEUTRAL
9 Y CIRCUIT 5 HOT
10 CIRCUIT 5 NEUTRAL
11 Z CIRCUIT 6 HOT
12 CIRCUIT 6 NEUTRAL
13 GROUND WIRE ATTACHMENT
14 GROUND RING
15 GROUND RING
16 GROUND RING
17 GROUND RING
18 GROUND RING
19 NOT USED

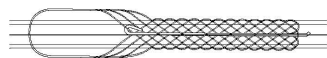


DETAIL A



CEEP 19 PLUG

DETAIL B



STRAIN RELIEF GRIP

# of Modules (per column)	Loom	Extension
1-6	1	0
7-12	2	1
13-18	3	2
19-24*	4	3
25-32*	Contact EAW	

*Array size results in a Design Factor of less than the recommended 10:1. Refer to EAW Resolution for further details.

Loom: 6, 8, 10, 12, 14, 16 feet (6 tails)
Extension: 12 feet

CAUTION: *There is no power switch on the loudspeaker. When connected to the AC mains, the loudspeaker will be fully operational, with the output level controlled by the signal source feeding the loudspeaker as well as by internal DSP.*

CAUTION: The supplied AC mains plug may not be appropriate for local AC mains receptacles. If not, have a qualified electrician remove the existing AC mains plug and install a plug appropriate for the AC mains supply receptacle and following all local codes.

CAUTION: The chassis of this product is grounded through the grounding conductor of the power cord. To avoid electric shock, plug the power cord into a properly wired and grounded receptacle before making any connections to or operating the product.

Electrical Warnings

AC MAINS SUPPLY

WARNING: Read all instruction and cautionary notes concerning electrical power in the EAW Loudspeaker Owner's Manual.

AC Mains Cable

The AC mains cables supplied with the MotionLabs PDU mate with the Neutrik® powerCON™ TRUE1 AC MAINS jack on the loudspeaker.

TRUE1 refers to both TRUE1™ and TRUE1 TOP™. Phase in date depends on product.

WARNING: Ensure that AC power supply has a properly grounded safety ground. Failure to follow this warning could cause equipment damage, injury, or death.

Rigging

ADAPTive arrays are intended to be suspended or ground-stacked. This section details how to physically configure an ADAPTive Series column. The following are the recommended methods for most situations. Specific situations may require other methods. It is the user's responsibility to determine the viability and safety for alternate methods and implement them accordingly.

A Note about Splay Angles

The Anya system requires no splay angles, with modules designed to be tight-packed in a straight vertical orientation. Vertical directivity is controlled exclusively via DSP.

Warnings

WARNING: Suspending anything, especially overhead of people, should be done with extreme caution. Always engage the services of a certified professional who is qualified to determine the requirements for and to implement overhead rigging. Only persons with the knowledge of proper hardware and safe rigging techniques should attempt to suspend ADAPTive module columns overhead. Failure to follow these precautions may result in damage, injury, or death.

DANGER: When suspending or stacking ADAPTive modules, avoid placing any parts of the body between the enclosures or between an enclosure and the Flybar. Always use the integral handles to lift or position enclosures. Failure to follow this precaution may result in damage, injury, or death.

CAUTION: The physical size of each ADAPTive product means that more than one person will be required to lift and carry it. However, always use proper lifting techniques to avoid injury. Use good judgment to determine if you need lifting assistance such as another person, a back support belt, or mechanical assistance.

IMPORTANT RIGGING WARNING: Each captive Rigging Pin is used to attach modules together within an internal rigging substructure integral to the enclosures. There is no option to splay each module and the modules are only designed to be flown in a straight vertical orientation. Use the correct holes on the Flybar as determined by EAW Resolution 2, based on rigging conditions and weight restrictions.

Ground Stacking

ADAPTive columns may be ground-stacked. Normally, a ground-stacked main column is used where suspension is not possible, too difficult, or too time-consuming. The ADAPTive Caster Pallets may be used to stack up to four modules. Ensure that the casters are chocked and that the ground or stage is plumb and level.

WARNING: Ground-stacked columns, especially the maximum recommended columns requires assembly by personnel qualified to ensure adequate stability from tip over for the particular application.

Flying

Suspension Load Rating – Working Load Limits (WLL) .

CAUTION: Different combinations of modules and Flybar mounting locations allow for a variety of hanging positions which creates unique loading of stresses on structural members in any given column. Always consult Resolution for specific WLL information for any given column configuration.

WARNING: It is the responsibility of the user to ensure the attachment to the Flybar, the rigging method, and attachment to structure are inspected by a certified professional who is qualified to determine the requirements for and implement overhead rigging.

Suspension of Anya Flybar

For suspension of a single Anya column, four suspension options are available (See figure below)

- A. One point – Array is suspended from center front point.
- B. Two points – Array is suspended from two points, one on each side (left and right) of center.
- C. Three points – Array is suspended from front & outermost two points, and rear-most center point.
- D. Four points – Array is suspended from outermost front and rear points.

In all situations, it is critical to verify in EAW's Resolution software that your configuration does not exceed recommended loads for any aspects of the Anya rigging system. It is the responsibility of the installer/technician to verify the chain motors, connecting members (i.e. slings, spansets, shackles, etc.) and facility's rigging structure is certified and capable of meeting the required load of the system.

For arrays larger than a single column, use Resolution to determine the appropriate hang style and support method for each column (many options are available).

Always refer to EAW Resolution Software before installation to determine load exact load values on rigging and max limits of any array configuration.

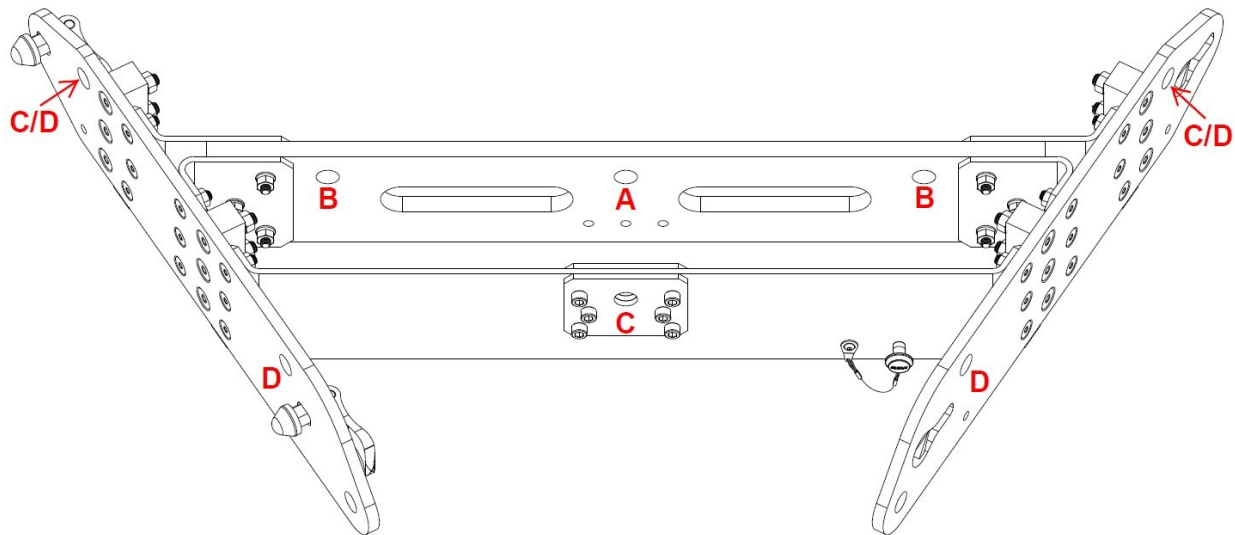
Once assembled, ensure that trim angle of array is plumb and level (0 degrees).

SINGLE ANYA WEIGHT = 285 lb (129.3 kg)

ANYA FLYBAR WEIGHT = 98 lb (44.5 kg)

SINGLE COLUMN ANYA ARRAY [10X DESIGN FACTOR]				
HANG/PICK POINT QUANTITY	1	2	3	4
SHACKLE REFERENCE	A	B	C	D
SHACKLE SIZE [MIL RR-C-271F]	3/4in (Ø 0.85in PIN)			
MAXIMUM ANNA / COLUMN	11	18	18	18
PICK POINT QUANTITY WLL (shown in lbs./kg)	3300 / 1497	5425 / 2461		

*The above weights are for a 10:1 Safety Ratio. Consult Resolution for other ratings.



Suspension of Anna – OPTION 1 – Standard Flybar

For suspension of an Anna column utilizing the standard Flybar, four suspension options are available (See figure below)

- A. One point – Array is suspended from center front point.
- B. Two points – Array is suspended from two points, one on each side (left and right) of center.
- C. Three points – Array is suspended from front & outermost two points, and rear-most center point.
- D. Four points – Array is suspended from outermost front and rear points.

In all situations, it is critical to verify in EAW's Resolution software that your configuration does not exceed recommended loads for any aspects of the Anya rigging system. It is the responsibility of the installer/technician to verify the chain motors, connecting members (i.e. slings, spansets, shackles, etc.) and facility's rigging structure is certified and capable of meeting the required load of the system.

For arrays larger than a single column, use Resolution to determine the appropriate hang style and support method for each column (many options are available).

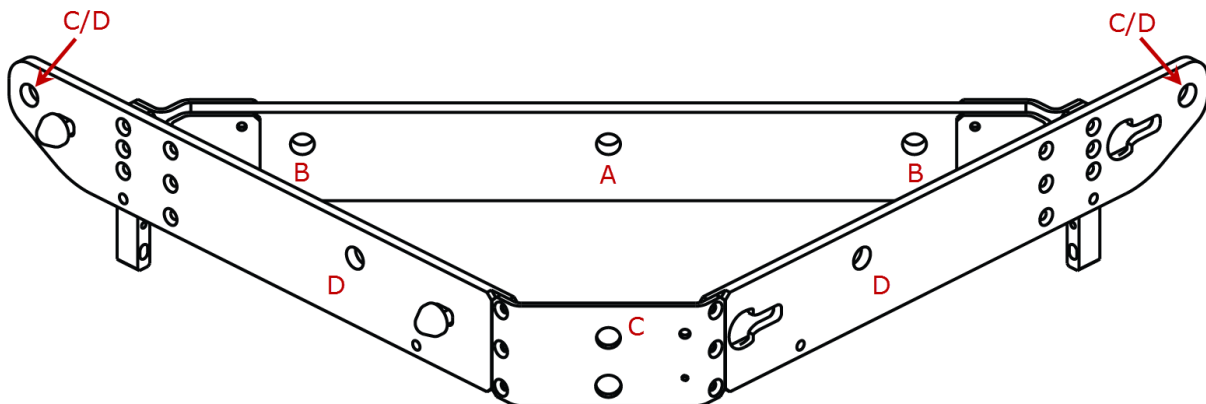
Once assembled, ensure that site angle of array is plumb and level (0 degrees). Minor angle offsets due to cable weight, etc. are measured and compensated in Resolution to ensure that directivity remains correct.

SINGLE ANNA WEIGHT = 135 lb (61 kg)

STANDARD ANNA FLYBAR WEIGHT = 75 lb (34 kg)

SINGLE COLUMN ANNA ARRAY [10X DESIGN FACTOR – STANDARD FLYBAR]				
HANG/PICK POINT QUANTITY	1	2	3	4
SHACKLE REFERENCE	A	B	C	D
SHACKLE SIZE [MIL RR-C-271F]	3/4in (Ø 0.85in PIN)			
MAXIMUM ANNA / COLUMN	15	18	18	18
PICK POINT QUANTITY WLL (shown in lbs./kg)	2150 / 975	2555 / 1159		

*The above weights are at a 10:1 Safety Ratio. Consult Resolution for other ratings.



Suspension of Anna – OPTION 2 - Flybar Lite

For suspension of an Anna column utilizing the Flybar Lite, two suspension options are available (See figure below)

- A. One point – Array is suspended from center front point.
- B. Two points – Array is suspended from two points, one on each side (left and right) of center.

In all situations, it is critical to verify in EAW's Resolution software that your configuration does not exceed recommended loads for any aspects of the Anna rigging system. It is the responsibility of the installer/technician to verify the chain motors, connecting members (i.e. slings, spansets, shackles, etc.) and facility's rigging structure is certified and capable of meeting the required load of the system.

For arrays larger than a single column, use Resolution to determine the appropriate hang style and support method for each column (many options are available).

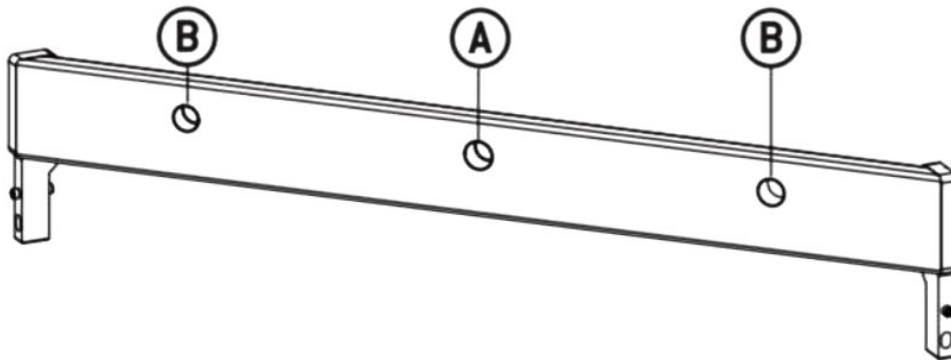
Once assembled, ensure that site angle of array is plumb and level (0 degrees). Minor angle offsets due to cable weight, etc. are measured and compensated in Resolution to ensure that directivity remains correct.

SINGLE ANNA WEIGHT = 135 lb (61 kg)

ANNA FLYBAR LITE WEIGHT = 16 lb (7 kg)

SINGLE COLUMN ANNA ARRAY [10X DESIGN FACTOR] – FLYBAR LITE		
Hang / Pick Point Quantity	1	2
Shackle Reference	A	B
Shackle Size [MIL RR-C-271F]	3/4in (O0.85in PIN)	
MAXIMUM ANNA / COLUMN	6	
PICK POINT QUANTITY WLL (shown in lbs./kg)	840 / 381	

*The above weights are at a 10:1 Safety Ratio. Consult Resolution for other ratings.



Suspension of Otto Flybar

For suspension of a single Otto column, two suspension options are available (See figure below)

- A. One point – Array is suspended from center front point.
- B. Two points – Array is suspended from two points, one on each side (left and right) of center.
- C. Two points – Array is suspended from two points, one at the front and one at the rear of the flybar. Note that this simply requires rotating the flybar 90 degrees relative to point B above.

In all situations, it is critical to verify in EAW's Resolution software that your configuration does not exceed recommended loads for any aspects of the Anya rigging system. It is the responsibility of the installer/technician to verify the chain motors, connecting members (i.e. slings, spansets, shackles, etc.) and facility's rigging structure is certified and capable of meeting the required load of the system.

For arrays larger than a single column, use Resolution to determine the appropriate hang style and support method for each column (many options are available).

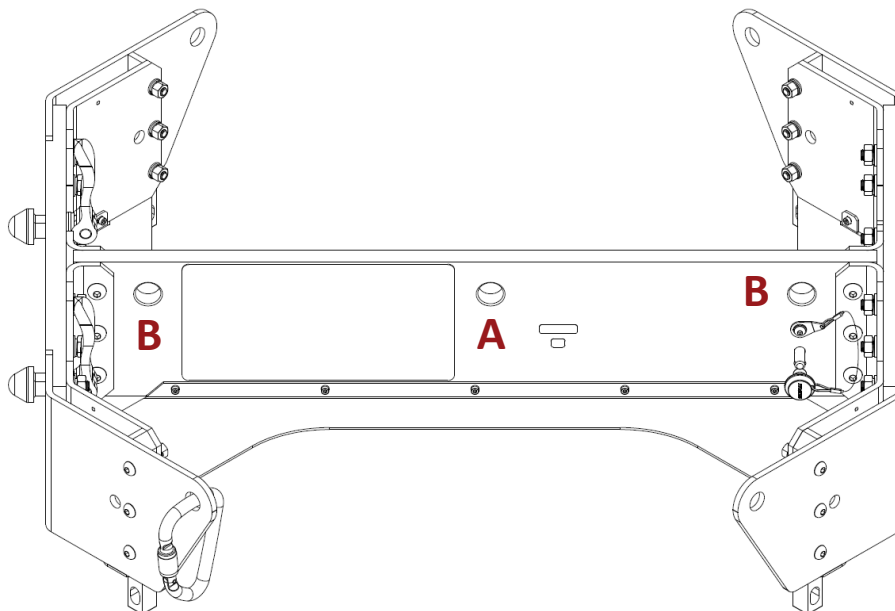
Once assembled, ensure that site angle of array is plumb and level (0 degrees). Minor angle offsets due to cable weight, etc. are measured and compensated in Resolution to ensure that directivity remains correct.

OTTO WEIGHT = 210 lb (95.25 kg)

OTTO FLYBAR WEIGHT = 120 lb (54.43 kg)

SINGLE COLUMN OTTO ARRAY [10X DESIGN FACTOR]		
Hang / Pick Point Quantity	1	2
Shackle Reference	A	B
Shackle Size [MIL RR-C-271F]	3/4in (O0.85in PIN)	
MAXIMUM OTTO / COLUMN	12	
PICK POINT QUANTITY WLL (shown in lbs./kg)	2700 / 1224	

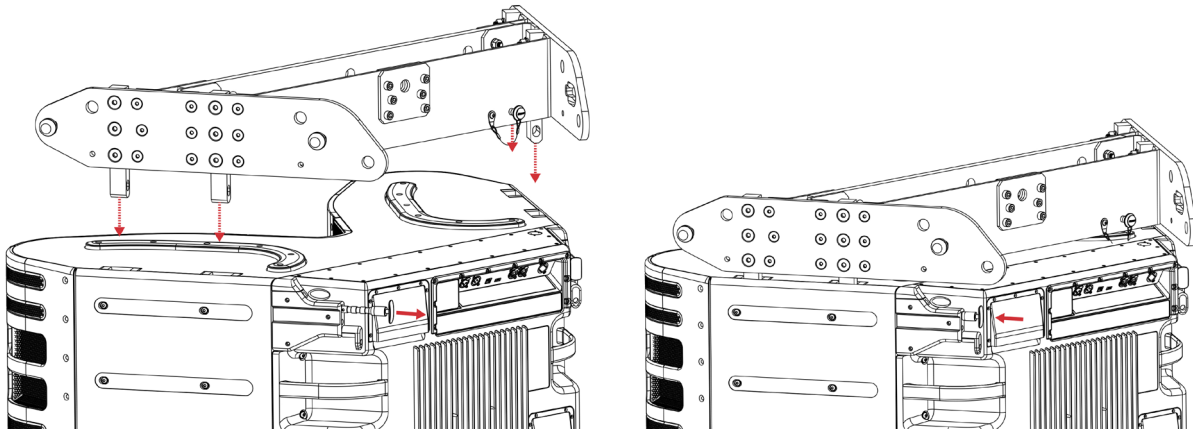
*The above weights are for a 10:1 Safety Ratio. Consult Resolution for other ratings.



Rigging Modules to Flybar (Single column Anya)

Note: All complete Anya systems will ship with Flybars already on top of stacks.

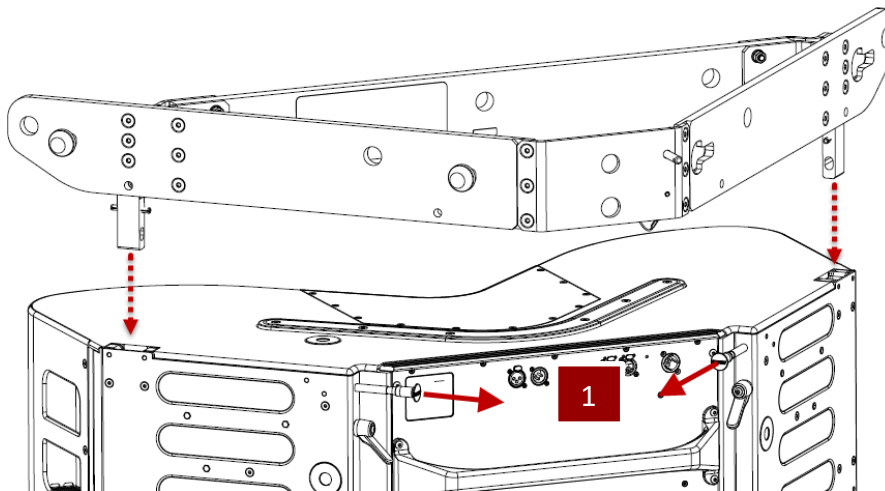
1. The Flybar has built-in Rigging Latches that will slide into the Rigging Channels of the top Anya module. On the top Anya module, pull back on the Pin Grip to open the Rigging Channel.
2. Lower the Flybar so that the Rigging Latches slide into the Rigging Channels. Once the Rigging Latches are set into the channel simply push on the Pin Grip to engage the pin.
3. Check each Anya module's Pin Grip to ensure that you do not see the orange reflective tape. Any visible orange indicates that the pins are not fully engaged. Pull the Pin Grip all the way out, then firmly push the Pin Grip in until you feel a positive stop. Re-check the grips for visible orange.
4. Check each rigging engagement mechanism to confirm full connection of all four rigging points.



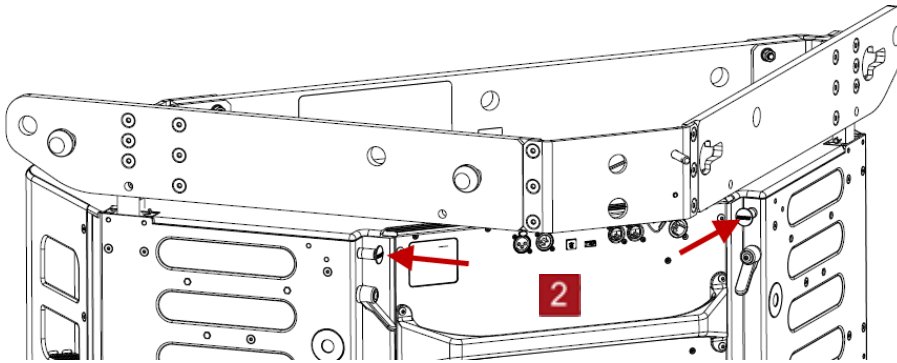
Rigging Modules to Flybar (Single column Anna)

Note: All complete Anna systems will ship with Flybars in a separate road case.

1. The Flybar has built-in Rigging Latches that will slide into the Rigging Channels on the top Anna module. On the top Anna module, pull back on the Pin Grip to open the Rigging Channel. (Fig. 1)
2. Lower the Flybar so that the Rigging Latches slide into the Rigging Channels. (Fig. 1)



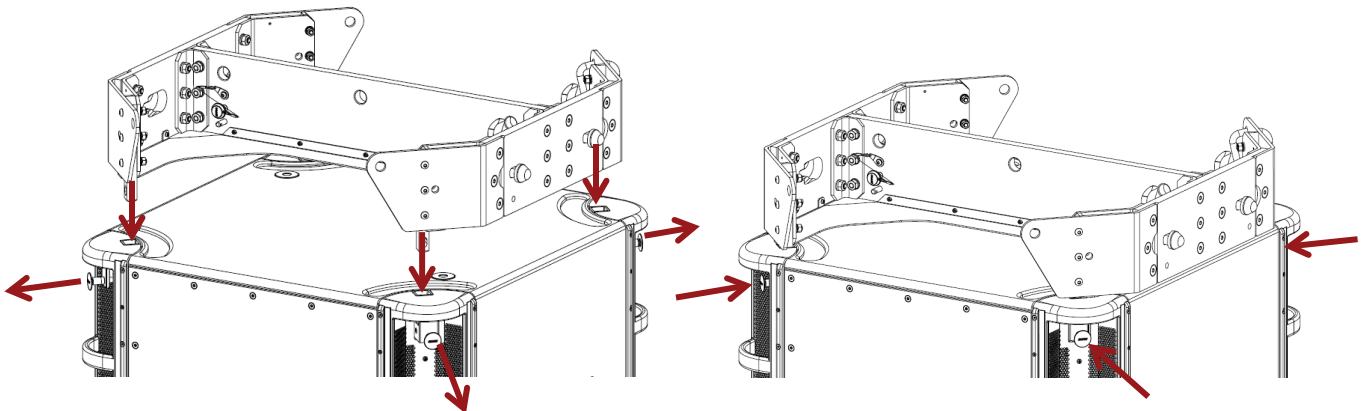
3. Once the Rigging Latches are set into the channel simply push on the Pin Grip to engage the pin. Check each Anna module's Pin Grip to ensure that you do not see the orange reflective tape. Any visible orange indicates that the pins are not fully engaged. Pull the Pin Grip all the way out, then firmly push the Pin Grip in until you feel a positive stop. Re-check the grips for visible orange. (Fig. 2)
4. Check each rigging engagement mechanism to confirm full connection of both rigging points. (Fig. 2)



Rigging Modules to Flybar (Single column Otto)

Note: All complete Otto systems will ship with Flybars already on top of stacks.

1. The Flybar has built-in Rigging Latches that will slide into the (4) Rigging Channels of the top Otto module. On the top Otto module, pull back on the (4) Pin Grips to open the (4) Rigging Channels.
2. Lower the Flybar so that the Rigging Latches slide into the Rigging Channels. Once the Rigging Latches are set into the channels simply push on the (4) Pin Grips to engage the pins.
3. Check each of the four (4) Otto module's Pin Grip to ensure that you do not see the orange paint. Any visible orange indicates that the pins are not fully engaged. Pull the Pin Grip all the way out, then firmly push the Pin Grip in until you feel a positive stop. Re-check the grips for visible orange.
4. Check each rigging engagement mechanism to confirm full connection of all four (4) rigging points.





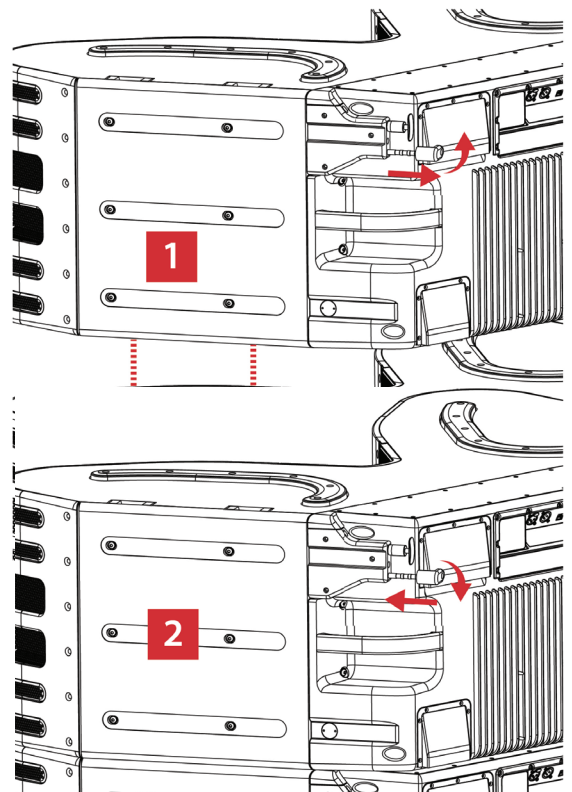
5. On the Caster Pallet, remove the four quick-release pins linking it to the bottom module, releasing the stack from the Caster Pallet.
6. Verify that the bottom module's Rigging Latches are fully retracted and inspect the entire array. When an array is properly and safely flown, the **ONLY** orange that should be visible will be on the Latches of on the bottom-most module. **ANY OTHER VISIBLE ORANGE ON THE ARRAY INDICATES A PROBLEM AND MUST BE ADDRESSED BEFORE CONTINUING.** Once this inspection is complete, fly out to trim height (if a complete array). (Fig. 4)

Rigging Modules from Modules (Anya/Anna)

Each Anya module contains its own rigging support structure, based on the simple and safe Rigging Latch-and-pin design. Two grips on each side of the Power Plant control the rigging elements. The upper Pin Grip drives the Rigging Pins in and out while the lower Latch Grip moves the Rigging Latches up and down. **IT IS CRITICAL THAT USERS OPERATE THE CORRECT GRIP WHEN ASSEMBLING AN ARRAY. NEVER OPERATE BOTH GRIPS ON THE SAME SIDE OF THE SAME MODULE. PROPER ASSEMBLY REQUIRES OPERATION OF THE LATCH GRIP OF THE UPPER MODULE AND THE PIN GRIP OF THE LOWER MODULE.**

To attach a module to another (within a column):

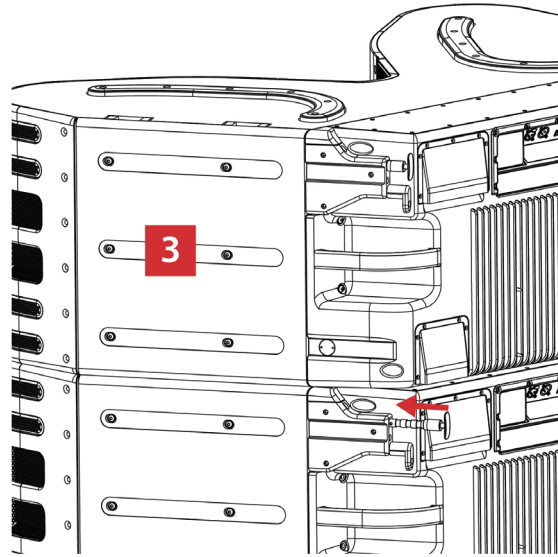
1. Using a chain motor, hoist the first 1-4 modules including the Flybar off of the Caster Pallet. User will likely find this a convenient time to begin cabling the array, depending on the location of the Distro Rack(s).
2. Retract the Rigging Latches of the bottom Anya module by pulling on the Latch Grips (one per side of



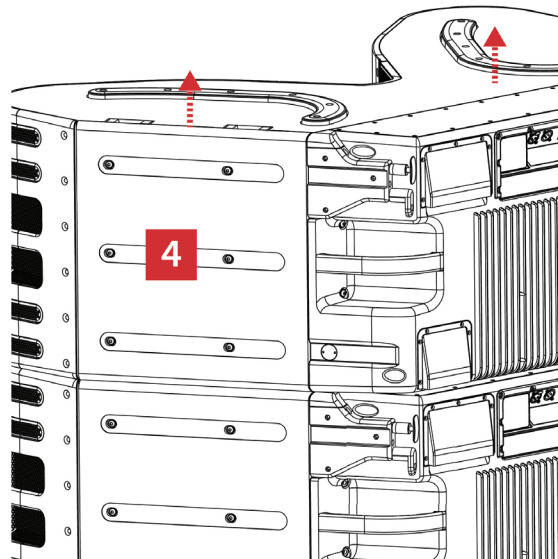
the enclosure) until they stop. DO NOT PULL OUT THE PIN GRIPS AS THEY ARE SUSPENDING THE BOTTOM MODULE FROM THE ONE ABOVE IT. Lock the Rigging Latches in the retracted position by rotating the Latch Grips inwards (towards each other) 90 degrees. The Latch Grip handles will now be oriented horizontally (pointing inwards). (Fig. 1, upper module)

3. Position the next Caster Pallet of 1-4 Anya Modules directly under suspended column. Ensure that all modules in the stack have their Pin Grips pushed all the way in.
4. Pull out the Pin Grips on the top module on the Caster Pallet to open the Rigging Channel. (Fig. 1, lower module)
5. Lower the flown column until it just rests on top of the modules on the Caster Pallet, leaving the Rigging Latches of the bottom module in the retracted position. The stacking keys will assist alignment. (Fig. 2)

6. On the bottom module in the flown Anya/Anna column, first pull out and then rotate the Latch Grips away from each other 90 degrees (the handles will be pointing down). This will deploy the captive Rigging Latches, which should drop into the Rigging Channel from their own weight. If the Latches do not drop by themselves, there may be a misalignment between the modules. If needed, press lightly until the Latch Grips are all the way in. If the Latches still do not drop, retract and lock the Latch Grips, the raise and reseat the flown modules on the stack and repeat Step 6. (If pressing the Latch Grips home requires significant force, it indicates a problem that should be addressed.) Ensure that there is no orange visible on the rods before moving to the next step. (Fig. 2)



7. Push in the Pin Grips on the top Anya module on the Caster Pallet all the way, ensuring that no orange marking is visible. (Fig. 3)
8. On the Caster Pallet, remove the four quick-release pins linking it to the bottom module, releasing the stack from the Caster Pallet.
9. If the array is complete, verify that the bottom module's Rigging Latches are fully retracted and inspect the entire array. When an array is properly and safely flown, the ONLY reflective orange that should be visible will be on the Latch Rod on the bottom-most module.



ANY OTHER VISIBLE ORANGE ON THE ARRAY INDICATES A PROBLEM AND MUST BE ADDRESSED BEFORE CONTINUING.

10. Once this inspection is complete, fly out to trim height (if a complete array). (Fig. 4)

If array is not complete, raise it high enough to clear the next stack of Anya modules and repeat from Step #2 above.

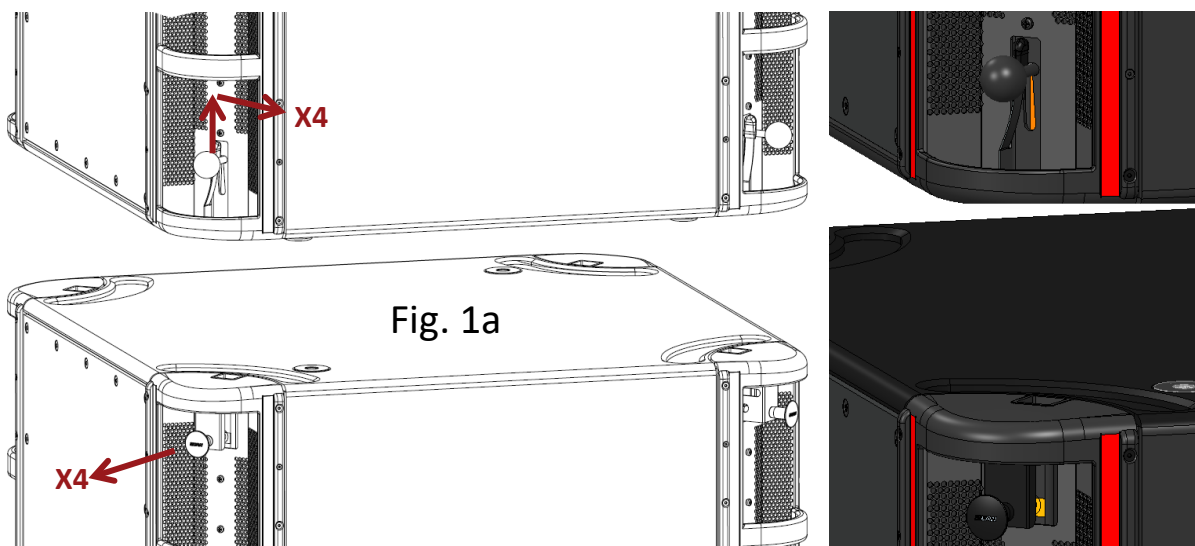
Rigging Modules from Modules (Otto)

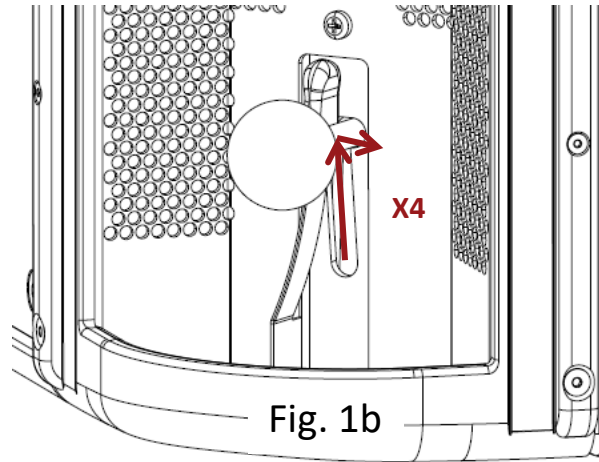
Each Otto module contains its own rigging support structure, based on the simple and safe Rigging Latch-and-pin design. Two grips on each corner of the Power Plant control the rigging elements. The upper Pin Grip drives the Rigging Pins in and out while the lower Latch Grip moves the Rigging Latches up and down. IT IS CRITICAL THAT USERS OPERATE THE CORRECT GRIP WHEN ASSEMBLING AN ARRAY. NEVER OPERATE BOTH GRIPS ON THE SAME CORNER OF THE SAME MODULE. PROPER ASSEMBLY REQUIRES OPERATION OF THE LATCH GRIP OF THE UPPER MODULE AND THE PIN GRIP OF THE LOWER MODULE.

NOTE: In the following illustrations, “X4” is indicated where the indicated action must be performed on all four corners of an Otto module and/or array.

To attach a module to another (within a column):

1. Using a chain motor, hoist the first 1-3 modules including the Flybar off of the Caster Pallet. User will likely find this a convenient time to begin cabling the array, depending on the location of the Distro Rack(s).
2. Retract the Rigging Latches of the bottom Otto module by pushing up on the Latch Grips (one per corner of the enclosure) until they stop. DO NOT PULL OUT THE PIN GRIPS AS THEY ARE SUSPENDING THE BOTTOM MODULE FROM THE ONE ABOVE IT. Lock the Rigging Latches in the retracted position by allowing the latch spring to hold the Latch handle in the right end of the top of the “L” slot. (Fig. 1a & 1b, upper module)
3. Position the next Caster Pallet of 1-3 Otto Modules directly under suspended column. Ensure that all modules in the stack have their Pin Grips pushed all the way in.
4. Pull out the Pin Grips on the top module on the Caster Pallet to open the Rigging Channel. (Fig. 1a, lower module)





5. Lower the flown column until it just rests on top of the modules on the Caster Pallet, leaving the Rigging Latches of the bottom module in the retracted position. The stacking keys will assist alignment. (*Fig. 2a*)
6. On the bottom module in the flown Otto column, push over (to left) the Latch Grips. This will deploy the captive Rigging Latches, which should drop into the Rigging Channel from their own weight. If the Latches do not drop by themselves, there may be a misalignment between the modules. If needed, press lightly until the Latch Grips are all the way down. If the Latches still do not drop, retract and lock the Latch Grips, the raise and reseat the flown modules on the stack and repeat Step 6. (If pressing the Latch Grips home requires significant force, it indicates a problem that should be addressed.) Ensure that there is no orange visible on the latches before moving to the next step. (*Fig. 2b*)
7. Push the Pin Grips on the top Otto module on the Caster Pallet all the way in (*Fig. 3*), ensuring that no orange marking is visible. (*Fig. 4*)

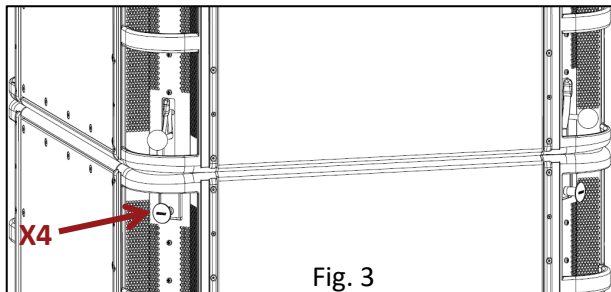
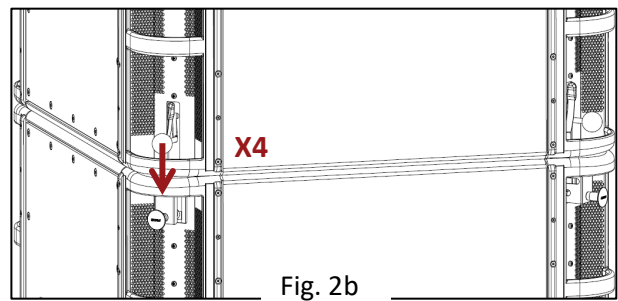
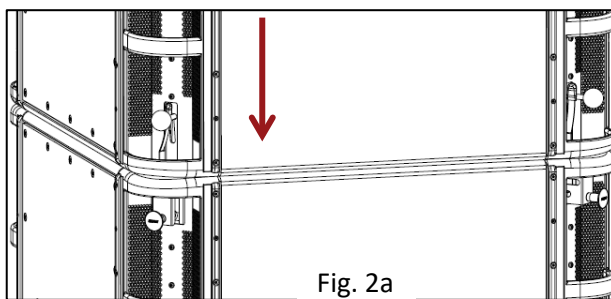
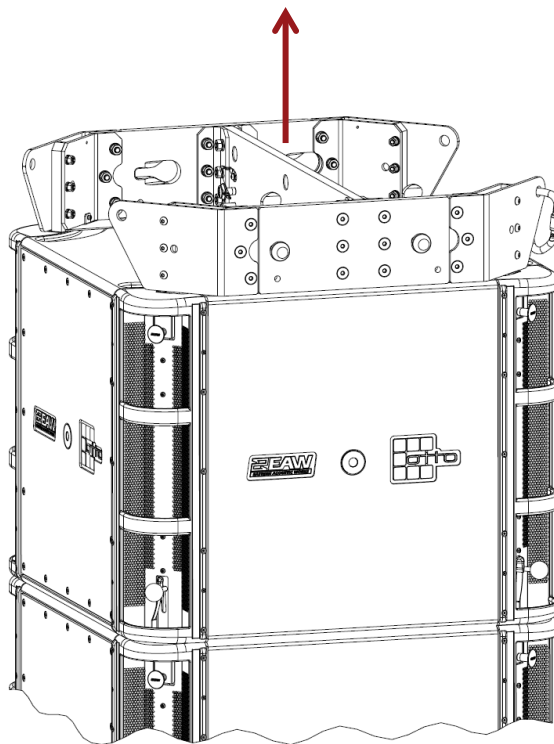


Fig. 4



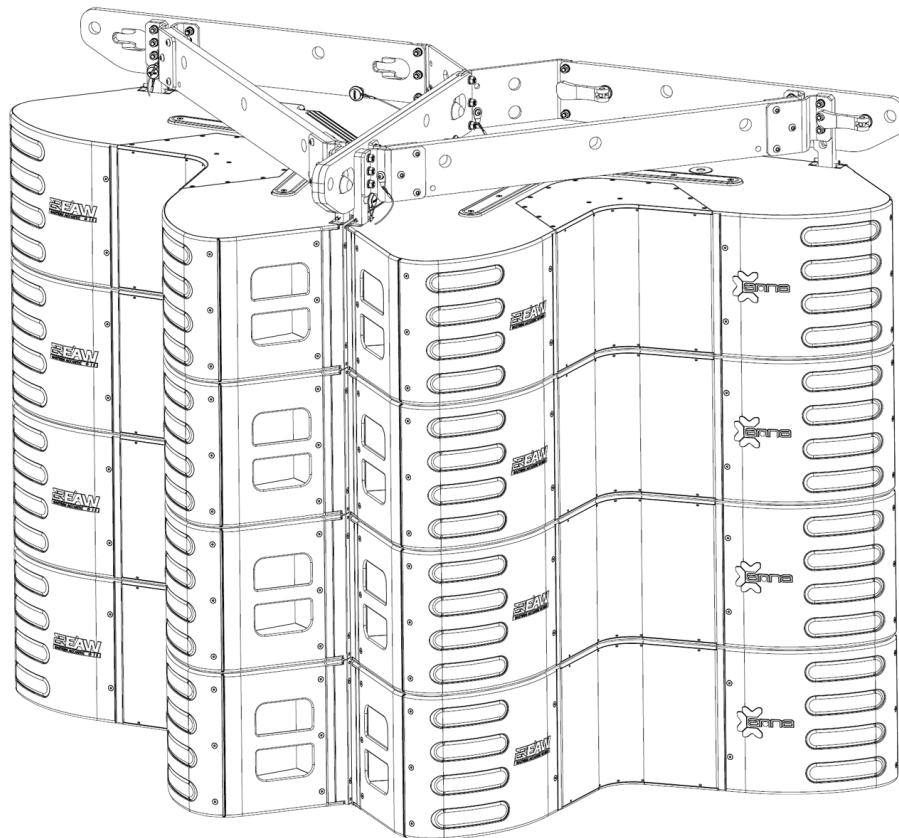
8. On the Caster Pallet, remove the four quick-release pins linking it to the bottom module, releasing the stack from the Caster Pallet.
9. Verify that the bottom module's Rigging Latches are fully retracted and inspect the entire array. When an array is properly and safely flown, the ONLY orange that should be visible will be on the Latches of on the bottom-most module. **ANY OTHER VISIBLE ORANGE ON THE ARRAY INDICATES A PROBLEM AND MUST BE ADDRESSED BEFORE CONTINUING.** Once this inspection is complete, fly out to trim height (if a complete array). (Fig. 4)
10. If array is not complete, raise it high enough to clear the next stack of Otto modules and repeat from Step #2 above.



Rigging Multi-Column Arrays (Anya/Anna)

The Anya/Anna Flybar has a built in “pin and tapered slot” feature, allowing users to create multi-column arrays with the proper spacing and angle between columns. Before rigging multi-column arrays, verify your configuration in Resolution.

1. Begin with two stacks of up to 4 Anna/Anya modules, both with Flybars already rigged on top.
2. Attach chain motors to the Flybar of the first column as defined by your Resolution model, then raise the first array slightly, and then remove the caster pallet.
3. Move the second column into place and adjust the height of the flown array as needed to align the columns. Once the columns are at the same height, align the two columns such that the tabs of one Flybar engage with the slots of the other Flybar.
4. Slide the columns relative to each other until the two quick release Flybar pins can be engaged through BOTH Flybars.
5. Tighten the two cam levers on the sides of the Flybar by spinning the handles until the mechanism begins to grab and then flipping the cam lever closed, similar to the operation of a bicycle wheel’s quick-release hub.
6. Proceed as indicated in “Rigging Modules to Flybar” and “Rigging Modules from Modules” except with multiple columns simultaneously. Take great care when working within the multi-column array. Tight spacing and many similar and identical rigging grips create the potential for human error and potential injury.



Rigging Multi-Column Arrays (Otto)

The Otto Flybar has a built in “pin and tapered slot” feature, allowing users to create multi-column arrays with the proper spacing and angle between columns. Before rigging multi-column arrays, verify your configuration in Resolution.

1. Begin with two stacks of up to 4 Otto modules, both with Flybars already rigged on top. Because users will need to move the arrays using the Caster Pallets, they may choose to stack only one or two modules to reduce the weight.
2. Align the two columns such that the tabs of one Flybar engage with the slots of the other Flybar.
3. Slide the columns relative to each other until the two quick-release Flybar Pins can be engaged through BOTH Flybars.
4. Tighten the two cam levers on the sides of the Flybar by spinning the handles until the mechanism begins to grab and then flipping the cam lever closed, similar to the operation of a bicycle wheel’s quick-release hub.
5. Attach chain motors to the Flybars as defined by your Resolution model.
6. Fly out the first stack of Otto modules.
7. Proceed as indicated in “Rigging Modules to Flybar” and “Rigging Modules from Modules” except with multiple columns simultaneously. Take great care when working within the multi-column array. Tight spacing and many similar and identical rigging grips create the potential for human error and potential injury.

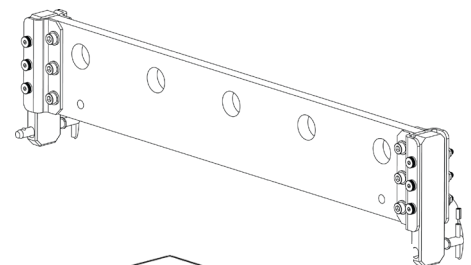
Flying Distro Racks

Warning: When the Anya Distro Rack Flybar is used for suspension its Working Load Limit (WLL), Total Vertical Pull, is limited to six (6) Anya Distro Racks. The WLL Design Factor is 10:1.

**It is recommended that users properly attach all cabling prior to suspending Distro Racks*

Flybar

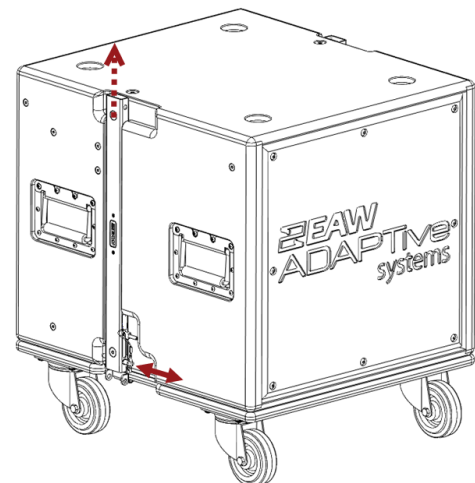
The Flybar is to be suspended by user-supplied $\frac{3}{4}$ ” shackle(s). The Flybar is designed to be flown by either a single center point or bridled to any of the outer two rigging points.



Detaching Distro Rack from Caster Pallet

In order to properly suspend a Distro Rack column, each Distro Rack must be removed from its Caster Pallet.

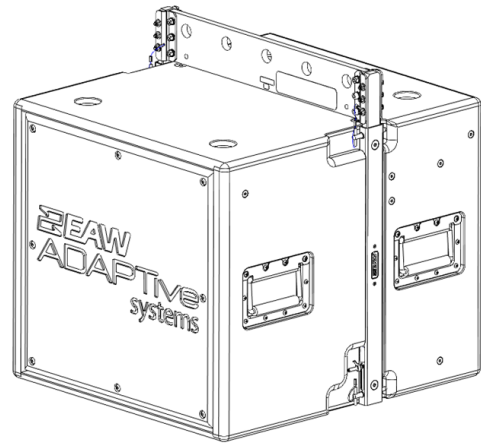
1. Remove the bottom quick release pins, one on either side.



2. Slide Rigging Latch upwards and re-pin Rigging Latch to hold into place within Rigging Channel
3. Lift to remove Distro Rack from Caster Pallet.
Note: Store Caster Pallets in a standing position in a safe location

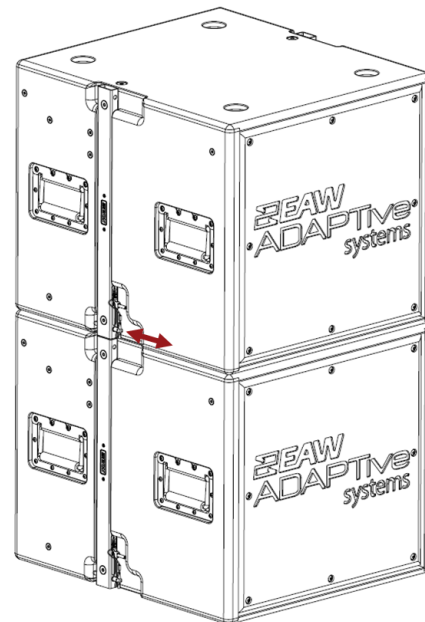
Attaching Flybar to Distro Racks

1. Remove quick release pins from the fixed side Rigging Latches of the Flybar.
2. Align Flybar Rigging Latches to match with the side Rigging Channels on Distro Rack.
3. Re-pin the quick release pins to lock the Flybar to the Distro Rack.



Attaching Multiple Distro Racks

1. Once detached from Caster Pallet, lift Distro Rack by either physical or mechanical means on top of the next Distro Rack.
2. The stacking pads/feet will aid in proper positioning of one Distro Rack on top of the other.
3. Remove the two bottom quick release pins which will release the bottom Rigging Latches directly into the Rigging Channels of the Distro Rack below.
4. Re-pin the quick release pins into the bottom Distro Rack.
5. Repeat this step for additional Distro Racks to be flown.



Flybar Carabiner Kit

These instructions detail how to attach the Flybar Carabiner to your ADAPTive Anna system for proper cable management and strain relief using the metal eyes attached to the cabling provided with your ADAPTive System.

Note: The images below are of the EAW ADAPTive Anna System and Flybar and carabiner mounting point. Consult the Flybar Diagram in the User Manual provided with your EAW ADAPTive System for the location of the corresponding point for your system.

WARNING: FAILURE TO FOLLOW MANUFACTURER'S INSTRUCTIONS MAY RESULT IN DAMAGE, SERIOUS INJURY OR DEATH.

PREPARATION

- a. All power and signals going to the ADAPTive system must be "OFF".
- b. It is recommended that you remove all external connections.
- c. It is recommended that you do not attempt this installation while the system is suspended in air.

1. Inventory of your kit

Your kit will include (1) Black 25mm Screw Lock Carabiner

2. Locate Carabiner Mounting Point on Flybar

The mounting point for the carabiner is located on the left side of the flybar if you are oriented at the back of the system.

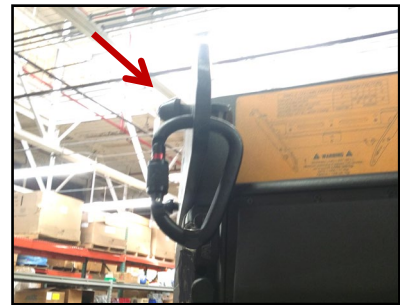
3. Twist the screw-lock on the carabiner to allow the gate to open

4. Hook the Carabiner through the mounting point

It is recommended that the wider portion of the carabiner eye be section of the carabiner that is through the mounting point.

5. Place the eye of the metal strain-relief from the EAW ADAPTive System's network and power cabling through the gate of the carabiner

5. When all desired cabling is properly attached to the carabiner, twist the screw-lock on the carabiner closed to lock the gate. It is recommended the carabiner is securely locked closed to prevent accidental disengagement.



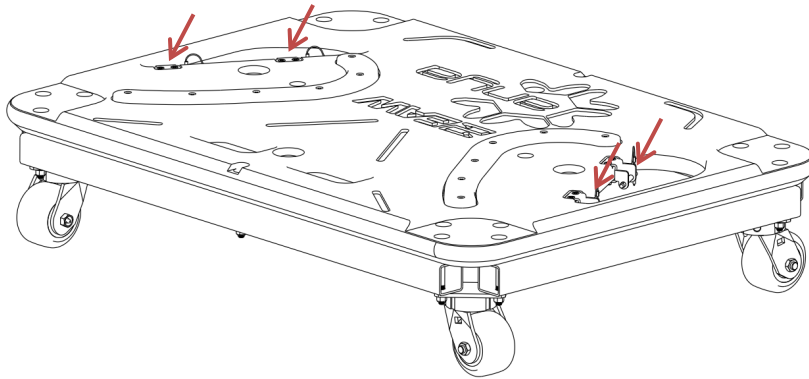
Ground Transportation

Anya Caster Pallet

The Anya Caster Pallet is designed for transportation of up to 4 Anya modules.

Anya modules attach to the Caster Pallet via quick release pins.

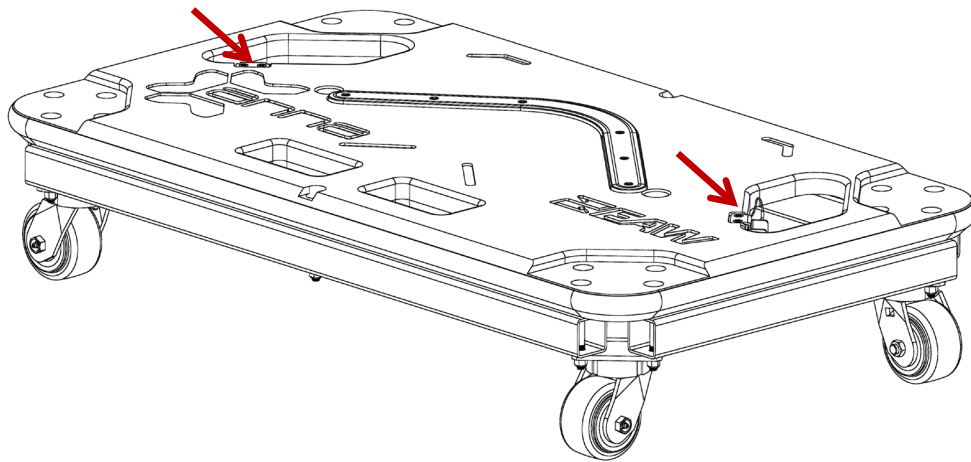
1. Lower the Anya module onto the Caster Pallet so that the stack pads line up with the bottom module.
2. Release the 4 quick release pins from the Caster Pallets Rigging Channels.
3. Pull and turn the Latch Grips to release the Rigging Latches from their locked position, allowing the Rigging Latches to lower into the Caster Pallets Rigging Channels. (See Step 6 in Rigging Modules from Modules, pg. 30.)
4. Secure the 4 quick release pins back into the Caster Pallets Rigging Channels.



Anna Caster Pallet

The Anna Caster Pallet is designed for transportation of up to 4 Anna modules. Anna modules attach to the Caster Pallet via quick release pins.

1. Lower the Anna module onto the Caster Pallet so that the stack pads on the Anna module line up with the recesses in the pallet.
2. Release the 2 quick release pins from the Caster Pallets Rigging Brackets.
3. Pull and turn over (to left) the two (2) Latch Grips to release the Rigging Latches from their locked position, allowing the Rigging Latches to lower into the Caster Pallet's Rigging Brackets. (See Step 2 in Rigging Modules from Modules)
4. Secure the 2 quick release pins back into the Caster Pallets Rigging Channels.

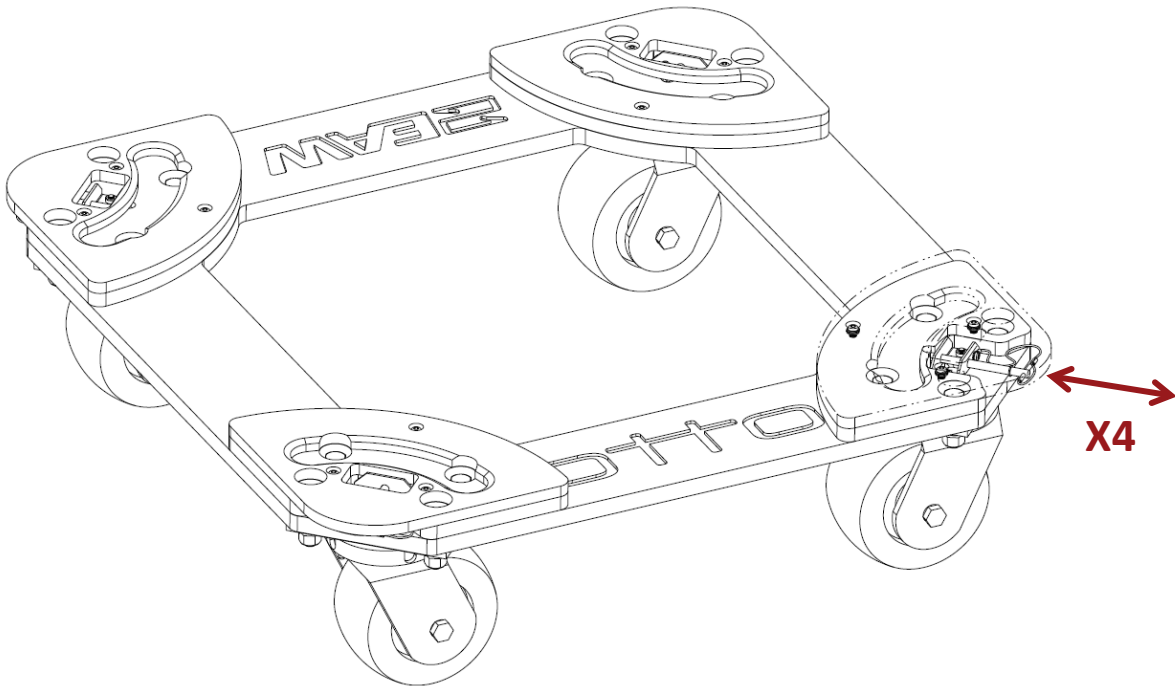


Otto Caster Pallet

The Otto Caster Pallet is designed for transportation of up to 3 Otto modules.

Otto modules attach to the Caster Pallet via quick release pins.

1. Lower the Otto module onto the Caster Pallet so that the stack pads on the Otto module line up with the recesses in the pallet.
2. Release the 4 quick release pins from the Caster Pallets Rigging Brackets.
3. Push over (to left) the four (4) Latch Grips to release the Rigging Latches from their locked position, allowing the Rigging Latches to lower into the Caster Pallet's Rigging Brackets. (See Step 2b in Rigging Modules from Modules)
4. Secure the 4 quick release pins back into the Caster Pallets Rigging Channels.



Service, Inspection & Maintenance

General Service

All components in the Anya system are designed to withstand the most rigorous and demanding environments. Through regular operation it may still be necessary to replace acoustical, electronic and mechanical components.

Contacting EAW

We have attempted to make this manual and the Resolution Help File as thorough as possible. However, feel free to contact us with any further questions or comments for topics not covered.

Operating Questions

EAW Applications Support Group

Tel 508-234-6158

Tel 800-992-5013 (USA only)

E-mail design@eaw.com

Service Information

EAW (Eastern Acoustic Works)

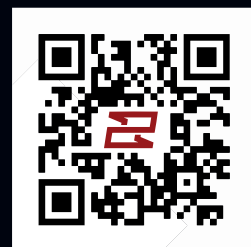
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