

PX-D1

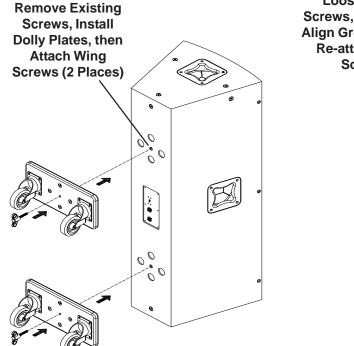
The Electro-Voice® PX-D1 accessory consists of a pair of dolly plates with assembled casters for use with the Phoenix PX2122 and PX2152 Loudspeakers. Each dolly plate is capable of rotating out of the way when the dolly is not in use. This is especially useful for when the speakers are being shipped or arrayed, whether on a groundstack or hanging from a grid.

- 1. Remove (2) 5/16" bolts from rear of the PX2122 or PX2152 enclosure.
- 2. Align the plastic standoffs with the recesses in the enclosure so the dolly board is perpendicular to the length of the enclosure. Turn the wing screw into the enclosure until tight (see Figure 1).
- 3. When not being used for transport, rotate the dolly boards so they are parallel to the length of the enclosure. Loosen the wing screw until the dolly board is able to rotate freely. Turn the dolly board 90°, and tighten the wing screw (see Figure 2).



CAUTION! If the dolly boards are removed, replace the (2) 5/16" bolts into the rear of the enclosure. If the bolts are not replaced, the speaker will have air leaks resulting in undesirable performance.





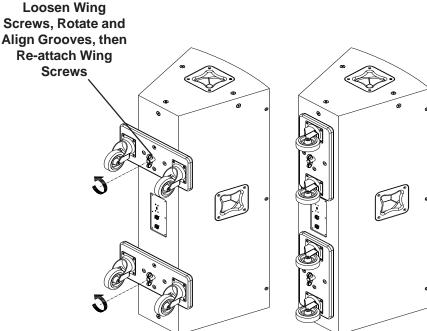


Figure 1: Assembling the PX-D1 to a Phoenix PX2122 or PX2152 Loudspeaker

Figure 2: Rotating the PX-D1 on the rear of a Phoenix Loudspeaker for shipping or arraying

PX-D2

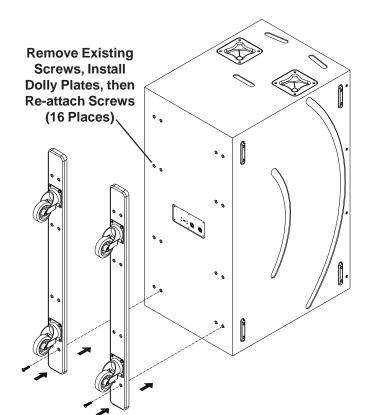
The Electro-Voice® PX-D2 accessory consists of a pair of dolly plates with assembled casters for use with the Phoenix PX2181 Loudspeaker. The dolly plates double as skid plates for extra protection of the PX2181's back panel.

- 1. Remove (16) 5/16" bolts from rear of the PX2181 enclosure.
- 2. Align holes in the PX-D2 with the holes on the PX2181 enclosure, and tighten the (16) 5/16" bolts into the dolly boards (see Figure 3).



CAUTION! If the dolly boards are removed, replace the (16) 5/16" bolts into the rear of the enclosure. If the bolts are not replaced, the speaker will have air leaks resulting in undesirable performance.





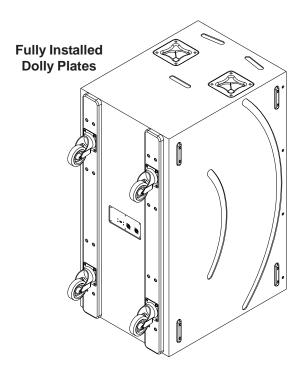


Figure 3: Assembling the PX-D2 to a Phoenix PX2181 Loudspeaker

PX-G1

The Electro-Voice® PX-G1 is an array kit that allows for suspension of up to (3) PX2122's or (2) PX2152's on a material lift. There are multiple horizontal splay and vertical tilt options that make the PX-G1 useful in many applications.



CAUTION! Suspending any object is potentially dangerous and should only be attempted by individuals who have a thorough knowledge of the techniques and regulations of rigging objects overhead. Electro-Voice® strongly recommends that all speakers be suspended taking into account all current national, federal, state and local regulations. It is the responsibility of the



installer to ensure that all speakers are safely installed in accordance with all such regulations. When speakers are suspended, Electro-Voice® strongly recommends that the system be inspected at least once a year. If any sign of weakness or damage is detected, remedial action should be taken immediately. The user is responsible for making sure that the grid, and any additional hardware used, is capable of supporting the loudspeaker array. Any hardware used to suspend a loudspeaker array that is not provided by/associated with Electro-Voice® is the responsibility of others.

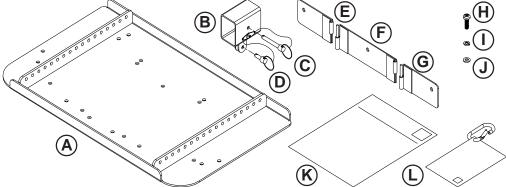


Figure 4: PX-G1 Parts List

Note: The fasteners are located in the microphone bag. The mic bag and carabiner are included with the PX-G1 to store unused fasteners during transport. Remove the mic bag and carabiner when the array is in use to prevent rattling.

PX-G1 Parts List							
Item	Description	Qty.					
Α	Array Bracket	1					
В	Material Lift Adaptor	2					
С	Pin, Detent, 3/8" x 2.50"	2					
D	Pin, Detent, 3/8" x 0.75"	2					
Е	Rear Hinge Plate, Outer, No Pin	1					
F	Rear Hinge Plate, Inner	1					
G	Rear Hinge Plate, Outer, With Pin	1					
Н	Screw, Button Head, M10 x 1.5 x 35mm	10					
I	Washer, Split Lock, M10	10					
J	Washer, Flat, M10	10					
K	User Instructions, Phoenix Accessories	1					
L	Microphone Bag and Carabiner	1					

Installation of the PX-G1

1. Arrange the PX2122 or PX2152 loudspeakers on a flat surface to approximately the desired horizontal splay angles, and remove the M10 flat head screws from the top of each enclosure a hex key (not included). Only remove the bolts that are called out for the desired configuration (See Figure 5).

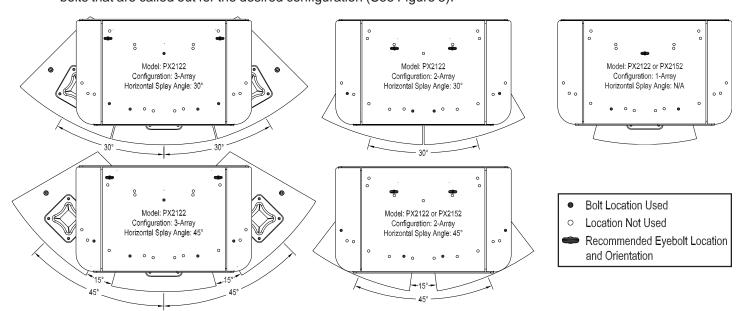


Figure 5: Horizontal Splay Angle Configurations and Supplemental Hole Locations

Note: Use either PX2122 or PX2152 loudspeakers; the models are **NOT** designed to be used in an array together. **DO NOT** use other loudspeaker models other than the PX2122 and PX2152.

Installation of the PX-G1 (continued)

2. Set the array bracket on top of the loudspeakers, and align the holes on the array bracket with the suspension points on the loudspeaker. Attach the washers, lock washers, eyebolts (not included) and M10 button head screws to the threaded suspension points on the loudspeakers, using a hex key (not included). Torque all fasteners down so that the lock washers are fully compressed. Note final orientation of eyebolts. For permanent installations, use a thread locker (not included) on the button head screws and eyebolts (See Figures 5 and 6).

WARNING! Electro-Voice strongly recommends that M10 forged shoulder eyebolts that are compliant with DIN580 standards are used as redundant safety points for the array (See Figure 5 for recommended locations). Eyebolts are not included.

3. Remove the M10 flat head screws that are located at the bottom of the enclosure in the rear, and install the rear hinge plates (See Figure 7). There are different configurations for the rear hinges depending on how many enclosures are used (See Figure 8).

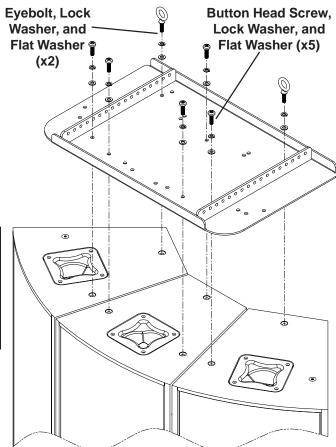


Figure 6: Assembling the Array Bracket to an Array of Phoenix Loudspeakers (3 x PX2122, 30° Splay Shown)

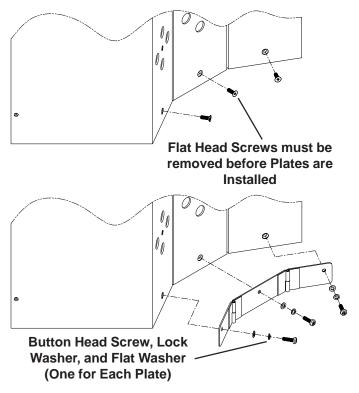


Figure 7: Assembling the Rear Hinge Plates (3 x PX2122, 30° Splay Shown)

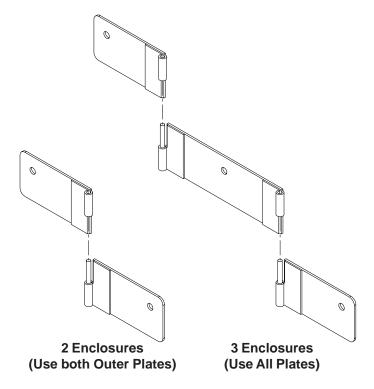


Figure 8: Possible Hinge Plate Configurations for 2 or 3 Enclosures

Installation of the PX-G1 (continued)

4. Install the material lift adaptors to the material lift by sliding the tube over the fork, and installing the long pin through the hole in the fork (See Figure 9).



WARNING! Make sure the pins for each material lift adaptor pass through their respective holes in material lift forks, and



fully lock or engage other side of material lift adaptors. Do not lift any array without ensuring pins pass through forks and are fully locked or engaged.

5. Attach the material lift adaptors to the array bracket using the short pins (See Figure 10). There are 17 holes on the array bracket (A-Q) that can be used to approximate the desired vertical tilt angle. See the table below to determine which holes should be used to achieve the desired tilt angle.



WARNING! Make sure the pins for each material lift adaptor pass through their respective holes in array bracket, and fully



lock or engage other side of material lift adaptors. Do not lift any array without ensuring pins pass through bracket and are fully locked or engaged.

PX-G1 Vertical Tilt Angles										
Model			PX2152							
Config	1-Array	2-Array 3-Array		rray	1-Array	2-Array				
Horiz°	N/A	30°	45°	30°	45°	N/A	45°			
Hole #										
Α	+6	+8	+12	+10	+12	+7	+11.5			
В	+4	+6	+10	+8	+10	+5	+9.5			
С	+1.5	+4	+8	+6	+8	+2.5	+7.5			
D	-0.5	+2	+6	+3	+6	+0.5	+5			
Е	-2.5	0	+4	+1.5	+4	-1.5	+3			
F	-5	-2.5	+2	0	+2	-3.5	+1			
G	-7	-4	0	-3	0	-6	-1.5			
Н	-9	-6	-2	-5	-2	-8	-3.5			
I	-11	-8.5	-4.5	-7	-4.5	-10	-5.5			
J	-13	-10.5	-6.5	-9	-6.5	-12	-7.5			
K	-15.5	-12.5	-9	-11	-8.5	-14	-10			
L	-17.5	-15	-11	-13.5	-11	-16	-11.5			
М	-19	-17	-13	-15.5	-13	-18	-13.5			
N	-21	-19	-15	-17.5	-15	-20	-15.5			
0	-23	-21	-17	-19.5	-17	-22	-17.5			
Р	-25	-22.5	-19	-21.5	-19	-24	-19.5			
Q	-26.5	-24.5	-21	-23.5	-21	-25.5	-21.5			

Note: All angles shown in chart are approximate. Cabling and any other supplementary equipment may change the absolute angle of the entire array from what is shown in the chart. Do not attempt to tilt an array beyond the angles shown in the chart.

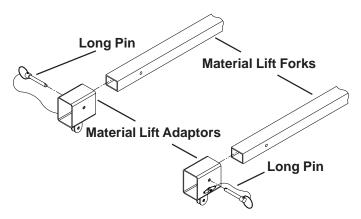


Figure 9: Assembling the Material Lift Adaptors to Material Lift Forks

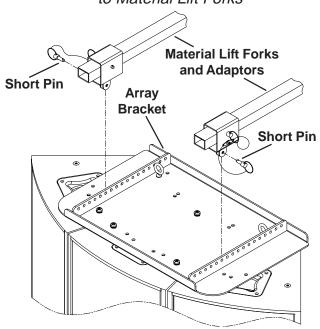


Figure 10: Assembling the Array Bracket to the Material Lift Adaptors

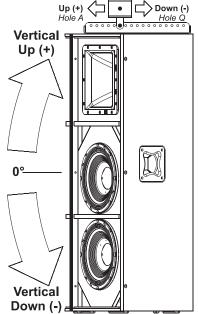


Figure 11: Vertical Tilt Angle Configurations

Installation of the PX-G1 (continued)

6. Following safe rigging practices, attach rated safety cabling (not included) from the material lift to the eyebolts (See Figure 12).

WARNING! The center of gravity of the array is located below the hole on the material lift forks. Never exceed the load limits or the maximum load height that is specified by the material lift manufacturer. Always place the material lift on a flat, stable surface and use all stabilizer hardware. Take extra caution when used in windy, outdoor applications that could cause the array to become unstable. Consult the material lift user manual for proper use and safety guidelines.



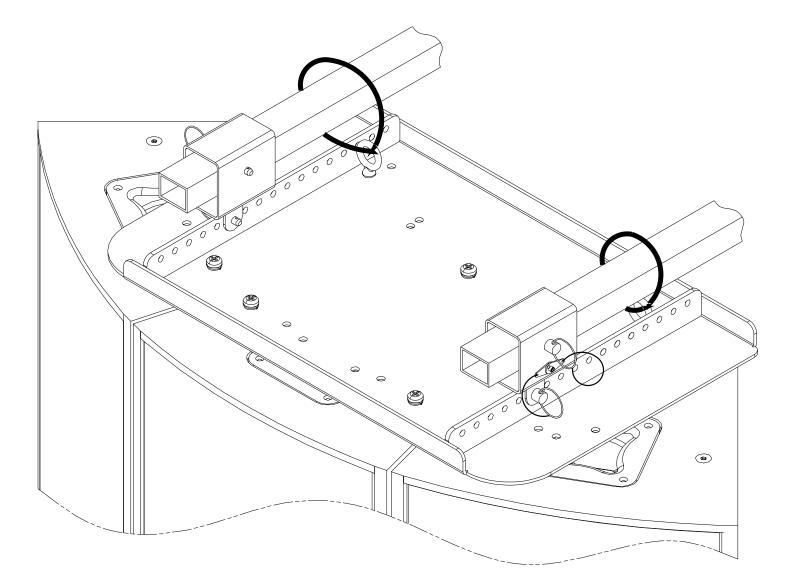


Figure 12: Attaching Safety Cable through Eyebolts



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