Accessory Guide
For Point Source and Subwoofer loudspeakers models IP8, IP6, IS8, and IS6
IMPORTANT SAFETY INSTRUCTIONS

Always follow these basic safety precautions when using or installing I SERIES loudspeakers and accessories:

- Read these instructions prior to assembly.
- Keep these instructions for reference.
- Heed all warnings.
- Follow all instructions, particularly those pertaining to rigging, mounting, hanging and electrical connections.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer’s instruction.
- Do not install near any heat sources such as radiators, heat registers, stoves, light fixtures, or other apparatus (including amplifiers) that produce heat.
- Only use attachments and accessories that are specified and approved by the manufacturer.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

The terms CAUTION, WARNING, and DANGER may be used in this manual to alert the reader to important safety considerations. If you have any questions or do not understand the meaning of these terms, do not proceed with installation. Contact your local dealer, distributor, or call Community directly for assistance. These terms are defined as:

- **CAUTION:** describes an operating condition or user action that may expose the equipment or user to potential damage or danger.
- **WARNING:** describes an operating condition or user action that will likely cause damage to the equipment or injury to the user or to others in the vicinity.
- **DANGER:** describes an operating condition or user action that will immediately damage the equipment and/or be extremely dangerous or life threatening to the user or to others in the vicinity.

These installation instructions are for use by qualified personnel only. To reduce the risk of fire or electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

UNPACKING / INSPECTION

Community I SERIES loudspeakers are engineered and manufactured to be rugged and they are carefully packed in sturdy cartons. However, it is recommended to thoroughly inspect each unit after it has been removed from the packaging, as damage could occur during shipping.

Please note that once the shipment has left your dealer or the Community factory, the responsibility for damage is always borne by the freight company. If damage has occurred during shipping, you must file a claim directly with the freight company. It’s very important to contact the freight company as soon as possible after receiving your shipment, as most freight companies have a short time limit within which they will investigate claims. Make sure to save the carton and the packing material, as most claims will be denied if these materials are not retained. Your Community dealer and the factory will try to help in any way they can, but it is the responsibility of the party receiving the shipment to file the damage claim.

It is always a good idea to retain the carton and packing materials, if possible, in the event that the unit may need to be returned to your dealer or distributor for repair in the future.

**CAUTION:** Installation of I SERIES loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting. Severe injury and/or loss of life may occur if this product is improperly installed.

RIGGING SAFETY / IMPORTANT NOTES

There are three primary areas of responsibility for rigging loudspeakers. The first is the building structure. Always consult with the building architect or structural engineer to assure the ability of the structure to support the loudspeaker system. The second area of responsibility is the loudspeaker itself. Community certifies its loudspeaker systems and rigging accessories for suspension when they are properly installed according to our published guidelines. The third area of responsibility is everything between the loudspeaker and the building structure and the actual process of installation. The installing contractor assumes this responsibility. Loudspeaker rigging should be performed only by certified rigging professionals using certified rigging hardware chosen for the specific application. Prior to installation, the contractor should present a rigging plan, with drawing and detailed parts list, to a licensed structural engineer (P.E.) or architect for written approval.

**IMPORTANT:** I SERIES loudspeakers are designed and intended to be mounted to differing building surfaces using a variety of rigging hardware, means and methods. Installation of loudspeakers should only be performed by trained and qualified personnel. All electrical connections must conform to applicable city, county, state, and national (NEC) electrical codes.

**DANGER:** All rigging fittings must be fully tightened and secured. Any missing fasteners or parts will compromise the structural integrity of the enclosure and constitute a safety hazard. Over-tightening (crushing the wood) should be avoided as well. Do not suspend the loudspeaker unless all fasteners are securely in place!

**IMPORTANT:** The flat head bolts that come installed in each enclosure must remain in place or be replaced by a threaded fastener from an array bracket. The bolts attach to internal metal brackets that are critical to the structural integrity and rated Safe Working Load (SWL) of each point and each array assembly. Failure to include a fastener in every location could lead to serious injury, or even death.

**DANGER:** I SERIES rigging fittings are rated at a Working Load Limit (WLL) of 150 lbs (68 kg) with a 10:1 safety margin. No single rigging fitting should ever be subjected to a load that is greater than this stated limit. Failure to heed this warning could result in injury or death!
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**Hardware Key**
- H=HARDWARE
- F=Bolt (Flat Head)
- H=Bolt (Hex Head)
- L=Lock washer
- N=Nut, locknuts
- W=Washer

### 6mm HARDWARE
- HW6 6mm Flat Washer
- HL6 M6 Locknut
- HH6 6 x 1 x 25 mm Hex Hd

### 8mm HARDWARE
- HW8 8mm Flat Washer
- HF8-3 8 x 1.25 x 30 mm Flat Hd
- HN8 M8 Locknut
- HH8-2 8 x 1.25 x 25 mm Hex Hd
- HH8-3 8 x 1.25 x 30 mm Hex Hd
- HW8-4 8 mm ID x 40 mm OD Plastic Washer

### 10mm HARDWARE
- HH1-3 10 x 1.5 x 35 mm Hex Hd
- HH1-4 10 x 1.5 x 40 mm Hex Hd
- HH1-5 10 x 1.5 x 55 mm Hex Hd
- HH1-2 10 x 1.5 x 25 mm Hex Hd
- HH1-12 10 x 1.5 x 120 mm Hex Hd
- HH1-1 10 x 1.5 x 25 mm Hex Hd
- HF1-3 10 x 1.5 x 35 mm Flat Hd
- HF1-4 10 x 1.5 x 40 mm Flat Hd
- HL1 10mm Lock Washer

### 12mm HARDWARE
- HW12 12 mm Flat Washer
- HH12-3 12 x 1.75 x 30 mm Hex Hd
- HN12 M12 Locknut

**Hardware Key**
- H=HARDWARE
- F=Bolt (Flat Head)
- H=Bolt (Hex Head)
- L=Lock washer
- N=Nut, locknuts
- W=Washer
**MODULAR PARTS GUIDE**

*Parts not shown to scale - for visual reference only*

### BRACKETS

**[PB-1]** Single Horizontal L Bracket  
Use in BFR22

**[PB-2]** Dual Horizontal L Bracket  
Use in VSB/VSB3-BFR22, VSB/VSB3-SBR54

**[PB-3]** 2-way Cabinet Bracket  
Use in DFS, DVS-BFR22, HSB-BFR22, HSB-SBR54, HBS, VSB-BFR22, VSB-SBR54

**[PB-4]** 3-way Cabinet Bracket  
Use in HSB3-BFR22, HSB3-SBR54, HVS3, VSB3-BFR22, VSB3-SBR54

**[PH]** Hinge (Rotational Array) Bracket  
(Ships preassembled)  
Use in DFS, DVS-BFR22, HSB/HSB3-BFR22, HVS/HVS3, VSB/VSB3-BFR22, VSB/VSB3-SBR54

### PLATES

**[PP-1]** Universal Plate  
Use in BFR22, TPK, HSB/HSB3-SBR54, SBR54, VAB-BFR38, VSB/VSB3-BFR22, VSB/VSB3-SBR54

**[PP-2]** Splay Adapter Plate  
Use in HSB/HSB3-BFR22, HSB/HSB3-SBR22

**[PP-3]** 2-Way Horizontal Array Plate  
Use in HAB-BFR38

**[PP-4]** 3-Way Horizontal Array Plate  
Use in HAB3-BFR38

**[PP-5]** Vertical Array Plate  
Use in VAB-BFR38

### Parts Key

- **P**=Parts
- **B**=Bracket
- **F**=Frame
- **H**=Hinge
- **P**=Plate
- **R**=Rails
Parts not shown to scale - for visual reference only

**BALANCEPOINT™ FLY RAILS**

[PR-1] 22" BalancePoint™ Fly Rails
Use in BFR22H, BFR22V, DVS-BFR22, HSB/HSB3-BFR22, VSB/VSB3-BFR22

[PR-2] 38" BalancePoint™ Fly Rails
Use in HAB/HAB3-BFR38, VAB-BFR38

[PR-3] 54" BalancePoint™ Fly Rails
Use in HSB/HSB3-SBR54, SBR54, VSB/VSB3-SBR54

**ARRAY FRAMES**

[PF-1a] 40" Isometric Array Frame
Use in IAF40

[PF-1b] 40" Array Frame Bracket

[PF-2a] 55" Isometric Array Frame
Use in IAF55

[PF-2b] 55" Array Frame Bracket

**U-BRACKETS AND VERTICAL YOKES**

U-Brackets (IUB1152 shown)
IUB1122: Use for IP6-1122 and IP8-1122 models
IUB1152: Use for IP6-1152 and IP8-1152 models
IUB1153: Use for IP8-1153 models
IUB1154: Use for IP8-1154 models

Vertical Yokes

 Vy-1: Vertical Yoke (attaches to bracket)
(Ships preassembled)

 Vy-2: Cabinet Bracket (attaches to cabinet)

IVY1122: Use for IP6-1122 and IP8-1122 models
IVY1152: Use for IP6-1152 and IP8-1152 models
IVY1153: Use for IP8-1153 models
IVY0002: Use for IP8-1151/IP8-0002 models

**Parts Key**
P=PARTS
B=Bracket
F=Frame
H=Hinge
P=Plate
R=Rails
1 HELPFUL INSTALLATION TIPS

- Assemble the horizontal arrays on the ground (or lifting surface) and then lift the entire assembly into place. Large vertical arrays should be assembled top down - lifting each component and attaching it in order. Smaller vertical arrays can be assembled on the ground and then flown.
- Many brackets and plates come preassembled with the 8mm flat head hardware installed. Some of the corner brackets have differing bolt patterns and we preinstall them in the most common configuration for that kit. Refer to the diagrams on install pages to confirm that the bolts are in the correct position for your cabinet size.
- Assemble the array with the differing models (horn/coverage patterns) in the correct configuration.
- If the cabinets are horizontal, keep the input panels all on the same side for wiring ease, whenever possible.
- To determine the approximate splay or array angles prior to installation, use simulation software such as EASE®. Document those values, and set the angles on the hinges and splay plates as they are attached to the cabinets.
- When attaching corner brackets, thread both bolts in finger tight first, then continue to tighten equally with hex wrenches (helps avoid misalignment issues).
- Fully tighten the connections as each assembly is finished without crushing the wood fibers.
- The U-Brackets, Vertical Yokes and Isometric Frames have hole patterns compatible with third party manufacturers’ adapter plates for 1-1/2” NPT rigid pole mounting systems (such as Chief CMA105 UL listed Ceiling mounting systems, with a SWL rating of 500 lbs [226.7 kg]). See manufacturer’s website for details.
- Contact our Technical Assistance Group (TAG) for additional guidance by phone: (610) 876-3400 or email: tagteam@communitypro.com.

1 GENERAL ASSEMBLY INFORMATION

The BalancePoint™ Flyware kits for the I SERIES loudspeakers are modular and can be combined in a number of ways. The most common configuration of each kit is shown along with instructions for assembly.

Hardware and Parts: There is a key at the beginning of each instruction that shows the parts, their quantity and abbreviation. We also use a shortened code for the hardware that offers an easy reference to the type, diameter and approximate length.
  ex: HW6 = Hardware Washer 6mm;
      HF1-2 = Hardware, Flat head bolt, 10 x 25mm

Several parts have underside countersunk holes that are threaded for 8mm flat head bolts. They should be fully seated (at or below the surface of the piece) before attaching the plate/bracket to the enclosure. Bolt placement diagrams are shown for the cabinet brackets that have multiple holes. Several of the brackets are shipped with the 8mm flat head bolts already installed in the most common configuration for that kit.

IMPORTANT: The flat head bolts that come installed in each enclosure must remain in place or be replaced by a threaded fastener from an array bracket. The bolts attach to internal metal brackets that are critical to the structural integrity and rated Safe Working Load (SWL) of each point and each array assembly. Failure to include a fastener in every location could lead to serious injury, or even death.
SAFETY CABLES

IMPORTANT: Attach a safety cable to one of the unused mounting points on the loudspeaker (and/or the bracket assembly). Safety cables must be secured to a suitable load-bearing point separate from the loudspeaker mounting point, with as little slack as possible, oriented to minimize dynamic swinging of the load, so as not to develop undue shock or kinetic force if the loudspeaker mount were to fail. Safety cables and hardware are not included. Please consult a structural engineer for the appropriate cables, hardware, and location(s) for the load and application.

BALANCEPOINT™ FLY RAILS

Positioning:

- The fly rails may be mounted in any position required as long as all attachment points are used.
- For the best aesthetics, the fly rails should not extend beyond the front edge of the front cabinet.
- The fly rails can extend beyond the back of the cabinet.
- The rails should be attached to the cabinets using all of the connections shown in the instructions for each assembly. This will ensure that the cabinets don't rotate on the rigging and that the rigging is securely attached to the cabinets.
- In "Subwoofer Behind" configurations, the general rule of thumb is that there shouldn't be less than 6" (152mm) between the face of the subwoofer and the rear of the cabinet in front of it (allows sufficient air movement from the subwoofer cones and parts).

Flying:

- Optimally, each array should be lifted from the hole(s) on the fly rails that produce the desired tilt angle using gravity alone (the "Balance Point").
- A second cable may be used to fine-tune the exact aiming angle and/or stabilize the array from rotation as necessary.

1) Rails do not extend behind subwoofer (best aesthetics)
2) Ample distance between the subwoofer and full-range cabinets
3) Fly rails well behind cabinet face

1) Not enough distance between cabinets
2) Poor aesthetic choice
ROTATIONAL (HINGE) BRACKET ANGLE EXPLAINED

The I SERIES full-range loudspeakers are in trapezoidal enclosures. The hinge bracket is used in many of the array kits to precisely set the angle between two loudspeakers. The hinges are shipped preassembled with the 6mm fasteners already in place. They will need to be removed to set your desired splay angle.

**IMPORTANT:** The splay angles printed on the rotational bracket indicate the angle between adjacent enclosure surfaces, not (in most cases) the center-to-center (C-C) loudspeaker aiming angles. For most horizontal and vertical arrays, the long trapezoidal sides of the enclosures will be adjacent. The total included trapezoidal cabinet angles are 30° therefore, the C-C loudspeaker aiming angles will be 30° greater than the enclosure splay angle indicated on the rotational bracket.

For example, if a C-C loudspeaker array angle of 45° is desired, the 6mm angle selection fasteners should be placed in the “15°” angle selection holes on the rotation brackets. 45° (C-C splay angle) – 30° (trapezoidal cabinet angles) = 15° (splay between adjacent enclosure surfaces).

When using the DVS-BFR22 or DFS kits, the non-angled top and/or bottom panels are adjacent, therefore, the loudspeaker aiming angle and adjacent enclosure surface splay angles are identical. For these kits, the angle selected on the rotational bracket is the same thing as the loudspeaker aiming angle.

Basic cabinet geometry and aiming angles

DFS kit shown with IP8-1153 and IP8-1151
30° splay shown which also equals the center-to-center measurement

To set angle: For most applications, and to achieve center-to-center (C-C) angles greater than 45° you align the “lighter” set of holes with the marked degree. This number equals the angle between the loudspeakers, and you should add 30 to get the C-C measurement. To achieve 62.5°, 67.5°, or 72.5° (C-C) splay, the circled outside holes only align with the holes in the “darker” marked area.

Aligning the “darker” set of holes with the marked degree hole equals that angle between centers, and should be used for downfill (DVS-BFR22, DFS) kits.
GENERAL ASSEMBLY INFORMATION (continued)

GENERAL ROTATIONAL (HINGE) BRACKET INFORMATION

Figures showing the basic assembly and how to secure the angles are shown below.

IMPORTANT: Each hinge is shipped preassembled with a 10mm hinge bolt and locknut fastened to allow some movement. Once the angle is permanently set (and confirmed by commissioning the system), the locknut should be tightened to prevent any movement. Do not remove the locknut or hinge bolt for any reason.

Each hinge assembly also has two 6mm fasteners with finger-tight lock nuts inserted into angle selection holes on each side of the hinge. Both 6mm fastener sets may be removed for assembly but must all be re-inserted and fully tightened in accordance with each kit’s specific assembly instructions.

Angles may be adjusted in 2.5° increments from 0° to 45° in any array configuration. Although it is possible in some configurations, do not exceed a splay angle of 45° (between adjacent sides).

Best practices: Orient the fasteners in the hinges to follow the direction of gravity; i.e. if the hinge will be used with the hinge bolt vertically oriented, position the hinge with the nut at the bottom to prevent the bolt from falling out if the nut should loosen.

Use the four inner attachment points for HSB, HV5, or VSB kits

Use the four outer attachment points in DFS and DVS-BFR22 configurations

The hinge brackets have 2 sets of holes to attach the hinges to the cabinets. Bolt placement diagrams showing connection to the cabinet brackets are in each of the individual kit instructions.

Secure angle with 6mm fasteners. The hinge is shipped with the fasteners in the 45° holes.
SIZE MATTERS! When assembling vertically arrayed or splayed combinations ensure that the height of the loudspeakers is the same height as the subwoofer. Please note: the IS6/8-1152s are not the same height as any of the I SERIES dual subwoofers.

For horizontal arrays, any size of subwoofer may be paired with any size full-range enclosure in most arrays. Horizontal arrays attach only to the top of the cabinets.
2 BALANCEPOINT™ FLY RAILS

BFR22H - 22” BalancePoint™ Horizontal Fly Rails

APPLICATION: Suspend and aim a single full-range loudspeaker or subwoofer from ceilings, walls, trusses, etc in landscape (horizontal) orientation.

Parts:
- PR-1: 22” BalancePoint™ Fly Rails (2)
- PB-1: Horizontal Fly Rail L-brackets (2)
- PP-1: Universal Fly Rail Plates (2)

Hardware:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>HW8</td>
<td>8mm Flat Washers</td>
</tr>
<tr>
<td>8</td>
<td>HN8</td>
<td>M8 Locknuts</td>
</tr>
<tr>
<td>4</td>
<td>HH8-2</td>
<td>8 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>4</td>
<td>HFB-3</td>
<td>8 x 30 mm Flat Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HW1</td>
<td>10mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HL1</td>
<td>M10 Lock Washers</td>
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<tr>
<td>2</td>
<td>HF1-3</td>
<td>10 x 35 mm Flat Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HH1-4</td>
<td>10 x 40 mm Hex Hd Bolts</td>
</tr>
</tbody>
</table>

Some 8mm hardware listed above will be included in plate preassemblies.

Kit Weight: 12.0 lb (5.4 kg)

Figure 1-1. Attach PP-1 to enclosure - with outside edges parallel and fully tighten

Figure 1-2. Attach PB-1 to enclosure - do not fully tighten

Figure 1-3. Attach rails to PP-1 / PB-1

Figure 1-4. Fully tighten all connections

Note: When attaching to a IPB-1153 or I56/B-218 cabinet, the front and rear bolt connections will be in the end holes of the rails.
BALANCEPOINT™ FLY RAILS

BFR22V - 22" BalancePoint™ Vertical Fly Rails

APPLICATION: Suspend and aim a single full-range loudspeaker (shown) or subwoofer from ceilings, walls, trusses, etc in portrait (vertical) orientation.

Parts:

PR-1: 22" BalancePoint™ Fly Rails (2)
PP-1: Universal Fly Rail Plates (2)

Hardware:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>HW8</td>
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<tr>
<td>8</td>
<td>HN8</td>
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<td>4</td>
<td>HF8-3</td>
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</tr>
<tr>
<td>2</td>
<td>HF1-3</td>
<td>10 x 35 mm Flat Hd Bolts</td>
</tr>
</tbody>
</table>

Some 8mm hardware listed above will be included in plate preassemblies.

Kit Weight: 9.0 lb (4.1 kg)

ADVANCED CONFIGURATIONS

The Fly Rails can be connected to Isometric Array frames, U-Brackets and Vertical Yokes. Connect the rails using 8mm hardware included in this kit. Fully tighten hardware before suspending the assembly.

The assembly should hang level and multiple lift points should be utilized. Lift points at the COG of each frame, yoke or u-bracket assembly or subwoofer cabinet.

Figure 2-1. Attach PP-1 to enclosure

Figure 2-2. Attach rails to PP-1

Figure 2-3. Fully tighten all connections

Figure 2-4. Typical connection of rails to the IAF40 (shown) or IAF55 isometric array frame
2 BALANCEPOINT™ FLY RAILS

SBR54 - Subwoofer Behind BalancePoint™ Fly Rails

APPLICATION: Suspend single or dual subwoofers behind a full-range loudspeaker (or loudspeaker array) from ceilings, walls, trusses, etc in vertical or horizontal orientation.

Parts:

PR-3: 54" BalancePoint™ Fly Rails (2)
PP-1: Universal Fly Rail Plates (6)
Gasket Material

Hardware:

<table>
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<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>HF8-3</td>
<td>8 x 30 mm Flat Hd Bolts</td>
</tr>
<tr>
<td>16</td>
<td>HN8</td>
<td>M8 Locknuts</td>
</tr>
<tr>
<td>20</td>
<td>HW8</td>
<td>8mm Flat Washers</td>
</tr>
<tr>
<td>8</td>
<td>HF1-3</td>
<td>10 x 35 mm Flat Hd Bolts</td>
</tr>
<tr>
<td>4</td>
<td>HH8-2</td>
<td>8 x 25 mm Hex Hd Bolts</td>
</tr>
</tbody>
</table>

Some 8mm hardware listed above will be included in plate preassemblies. Extra 8mm hardware is included for potential attachment to a single Vertical Yoke, U-Bracket or Array Frame. Extra PP-1 plate assemblies and hardware are included to make horizontally oriented full-range/subwoofer configurations.

Kit Weight: 20.0 lb (9.1 kg)

Dual Subwoofers:

**Vertical Orientation:** Use included PP-1s to attach the cabinets at the top and bottom.

**Horizontal Orientation:** Purchase of a Tight Pack kit (TPK) is necessary when hanging dual subwoofers horizontally. They must be connected two (2) places on each side.

Notes:

**Vertical Orientation:** Each rail must be aligned and secured to two (2) points on each cabinet. For best aesthetics, the rails should not overhang the front edge of the full-range cabinet.

**Horizontal Orientation:** Each rail will be attached to one (1) PP-1 on the full-range cabinet and to two (2) PP-1s on the subwoofer. Go to step 2c to start.

1. **Full-range (Vertical orientation only)**

2a. **Single Subwoofer (Vertical orientation)**

2b. **Dual Subwoofers (Vertical orientation)**

---

**Figure 3-1.** Remove original bolts and attach two (2) PP-1 to the full-range cabinet

**Figure 3-2a.** Attach two (2) PP-1 to the front and rear connection points on the subwoofer

**Figure 3-2b.** Cut and adhere (2) strips of gasket to the side of one subwoofer (spanning the height and spaced equidistant). With the gasket sandwiched between the cabinets, attach (2) PP-1 at the top (shown), another pair on the bottom and fully tighten connections.
2c Subwoofer and Full-range (Horizontal orientation)

ADVANCED CONFIGURATIONS

The Fly rails can be connected to single U-Brackets, Vertical Yokes or the Isometric Array frames. Connect the rails using 8mm hardware included in this kit. Fully tighten hardware before suspending the assembly.

The assembly should hang level and multiple lift points should be utilized. Lift points at the COG of each frame, yoke or u-bracket assembly or subwoofer cabinet.

Figure 3-2c. Attach four (4) PP-1 to the connection points on the subwoofer, and two (2) PP-1 to the connection points on the full-range cabinet.

Figure 3-3. Attach the Rails to the PP-1 assemblies previously attached to the cabinets (single subwoofer, vertical orientation shown).

Figure 3-4. Fully tighten all connections before lifting.

Figure 3-5. Typical connection of rails to the IAF40 (shown) or IAF55 isometric array frame.

Figure 3-6. Typical connection of rails to a single Vertical Yoke or U-Bracket (shown).
### 3 U-BRACKETS

**IUB1122** - U-Bracket for IP6-1122, IP8-1122  
**IUB1152** - U-Bracket for IP6-1152, IP8-1152 (shown)  
**IUB1153** - U-Bracket for IP8-1153

**APPLICATION:** Suspend and aim single loudspeakers from ceilings, walls, trusses, etc in portrait or landscape orientation.

**Before assembly:** Adhere the rubber washers to the inside of the yoke (aligned with cabinet mounting point).

**Note:** The yoke can be attached to the building structure and then the loudspeaker can be installed later.

---

**Parts:**

![U-Bracket Diagram]

- UB: U-Bracket

**Hardware:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>HH1-4</td>
<td>10 x 40 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
<tr>
<td>2</td>
<td>HW8-4</td>
<td>8mm ID x 40mm OD Black Rubber Washer</td>
</tr>
</tbody>
</table>

The u-bracket is shipped preassembled and ready to attach to the cabinet.

**Kit Weights:**

- IUB1122: 16.0 lb (7.3 kg)
- IUB1152: 17.0 lb (7.7 kg)
- IUB1153: 22.0 lb (10.0 kg)

**Can also be used with:** a downfill bracket to provide pan capability for two vertically oriented loudspeakers [DFS bracket or DVS-BFR22], BalancePoint™ Fly Rails, or to array two (2) loudspeakers horizontally on IAF40 or IAF55 frames.

---

**Mounting Key**

- Slot should be toward the back of the cabinet - used for rotational adjustment when mounted from the center hole
- Slot and smaller center holes used to mount BalancePoint™ Fly Rails

---

**Figure 4-1.** Remove middle cabinet bolts and attach yoke to cabinet

**Fully tighten all connections**
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3 U-BRACKETS

IUB1122WRG - U-Bracket for IP6/8-1122WR, IS6/8-212WR
IUB1152WRG - U-Bracket for IP6/8-1152WR
IUB1125WRG - U-Bracket for IS6/8-112WR

APPLICATION: Mount and aim single loudspeakers from ceilings, walls, trusses, floors, etc in portrait or landscape orientation.

Before assembly: Adhere the rubber washers to the inside of the yoke (aligned with cabinet mounting points).

Note: The yoke can be attached to the building structure and then the loudspeaker can be installed later.

Parts:

UB: U-Bracket

Hardware:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>HH1-4</td>
<td>10 x 40 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>4</td>
<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>4</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
<tr>
<td>4</td>
<td>HW8-4</td>
<td>8mm ID x 40mm OD Black Rubber Washer</td>
</tr>
<tr>
<td>2</td>
<td>HS6</td>
<td>6 x 35 mm Socket Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HW6</td>
<td>6 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HL6</td>
<td>6 mm Lock Washers</td>
</tr>
<tr>
<td>2</td>
<td>HW.25</td>
<td>1/4” ID x 5/8” OD Black Rubber Washer</td>
</tr>
</tbody>
</table>

IMPORTANT: The WR u-brackets can only be used with I SERIES WR models.

Kit Weights:

IUB1122WRG: 16.0 lb (7.3 kg)
IUB1152WRG: 17.0 lb (7.7 kg)
IUB1153WRG: 22.0 lb (10.0 kg)
IUB0002WRG: 17.0 lb (7.7kg)
IUB1125WRG: 10.0 lb (4.5 kg)

Mounting Detail

Trapezoid Cabinet Installation (IP6/8) or Center Point Subwoofer Connection (IS6/8)

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>HH1-4</td>
<td>10 x 40 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>4</td>
<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>4</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
<tr>
<td>4</td>
<td>HW8-4</td>
<td>8mm ID x 40mm OD Black Rubber Washer</td>
</tr>
<tr>
<td>2</td>
<td>HS6</td>
<td>6 x 35 mm Socket Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HW6</td>
<td>6 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HL6</td>
<td>6 mm Lock Washers</td>
</tr>
<tr>
<td>2</td>
<td>HW.25</td>
<td>1/4” ID x 5/8” OD Black Rubber Washer</td>
</tr>
</tbody>
</table>

IMPORTANT: The WR u-brackets can only be used with I SERIES WR models.

Kit Weights:

IUB1122WRG: 16.0 lb (7.3 kg)
IUB1152WRG: 17.0 lb (7.7 kg)
IUB1153WRG: 22.0 lb (10.0 kg)
IUB0002WRG: 17.0 lb (7.7kg)
IUB1125WRG: 10.0 lb (4.5 kg)

Figure 4-3. Remove middle cabinet bolts and attach yoke to cabinet

Fully tighten all connections

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Rigid Mount Subwoofer Installation IS6/IS8

**APPLICATION:** Suspend and aim single Subwoofers in outward facing or down fire applications.

**Before assembly:** Adhere the large rubber washers to the inside of the yoke (aligned with cabinet mounting point). Adhere the smaller 1/4" ID washers to the cabinet over the 6mm holes.

**Note:** The yoke can be attached to the building structure and then the loudspeaker can be installed later.

**Figure 4-5.** Rear Wall or Ceiling Mount: Remove middle and rear center cabinet bolts and attach yoke to cabinet

**Figure 4-6.** Down Fire Mount: Remove middle and front center cabinet bolts and attach yoke to cabinet (Block the small 6mm hole with HW.25 washer to seal it)

**Figure 7.** Rotatable / Pivot for wall or pole mount
Max rotation of yoke:
IS6/8-212 = 35°
IS6/8-218 = 45°

**Figure 8.** Rigid Down Fire Mount: Center and front center points on each end

**Figure 9.** Rigid Wall or Ceiling Mount: Center and rear center points on each end

**Figure 10.** Alternative Down Fire Mounting for larger models - use (2) yokes and mount to forward mounting points - arrows.

**Figure 11.** Fully tighten all connections
**3 VERTICAL YOKES**

**IVY1122** - Vertical Yoke for IP6-1122, IP8-1122  
**IVY1152** - Vertical Yoke for IP6-1152, IP8-1152 *(shown)*  
**IVY1153** - Vertical Yoke for IP8-1153

**APPLICATION:** Suspend and aim single loudspeakers vertically (in portrait orientation) from ceilings, walls, trusses, or use with array frames.

**Assembly note:** Orient vertical yoke so that the side bends are toward the rear of the cabinet.

**Note:** The yoke can be attached to the building structure and then the loudspeaker can be installed later.

---

**IVY1122**  
- Vertical Yoke for IP6-1122, IP8-1122

**IVY1153**  
- Vertical Yoke for IP8-1153

**APPLICATION:** Suspend and aim single loudspeakers vertically (in portrait orientation) from ceilings, walls, trusses, or use with array frames.

**Assembly note:** Orient vertical yoke so that the side bends are toward the rear of the cabinet.

**Note:** The yoke can be attached to the building structure and then the loudspeaker can be installed later.

---

**Parts:**

- **VY-1:** Vertical Yoke  
- **VY-2:** Yoke Cabinet Bracket

**Hardware:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>HW6</td>
<td>6mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HN6</td>
<td>M6 Locknuts</td>
</tr>
<tr>
<td>2</td>
<td>HH6</td>
<td>6 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HH1-2</td>
<td>10 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HH1-3</td>
<td>10 x 35 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknuts</td>
</tr>
<tr>
<td>6</td>
<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
</tbody>
</table>

The yoke is shipped preassembled and ready to attach to the cabinet.

**Kit Weights:**

- IVY1122: 21.0 lb (9.5 kg)
- IVY1152: 23.0 lb (10.4 kg)
- IVY1153: 25.0 lb (11.3 kg)

**Also used with:**

- Isometric Array Frames (IAF40 / IAF55)
- BalancePoint™ Fly Rails

---

**Figure 5-1.** Attach bracket to cabinet  
**Figure 5-2.** Fully tighten hardware to secure angle  
**Figure 5-3.** Fully tighten all connections

**Mounting Key**

- Mounting points for third party ceiling mount systems.
- Slot should be toward the back of the cabinet - used for rotational adjustment when mounted from the center hole
- Slot and smaller center holes used to mount BalancePoint™ Fly Rails
### 3 VERTICAL YOKES

**IVY0002 - Vertical Yoke for IP8-0002, IP8-1151**

**APPLICATION:** Suspend and aim single loudspeakers from ceilings, walls, trusses, or use with array frames.

**NOTE:** Orient cabinet bracket and yoke so that the side bends are toward the rear of the cabinet. The yoke can be preinstalled (attached to the structure) and then the loudspeakers can be installed later.

**PREASSEMBLY:** The yoke comes preassembled to allow a 0°-45° downtilt. If you need a 45-60° downtilt, move the bolts down to the lowest hole setting. A lower profile (with less degrees of downtilt can be obtained by moving the bolt positions up as shown at right).

![Image of vertical yoke assembly](image)

**Parts:**
- VY-1: Vertical Yoke
- VY-2: Yoke Cabinet Bracket

**Hardware:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>HW6</td>
<td>6mm Flat Washers</td>
</tr>
<tr>
<td>1</td>
<td>HN6</td>
<td>M6 Locknuts</td>
</tr>
<tr>
<td>1</td>
<td>HH6</td>
<td>6 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HH1-2</td>
<td>10 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HH1-3</td>
<td>10 x 35 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknuts</td>
</tr>
<tr>
<td>6</td>
<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
</tbody>
</table>

The yoke is shipped preassembled in the ≤45° setting and is ready to attach to the cabinet.

**Kit Weight:** 23.0lb (10.4 kg)

Also used with: IAF55 Isometric Array Frame and BalancePoint™ Fly Rails

![Diagram of attachment points](image)

**Figure 6-1.** Attachment points to cabinet bracket are determined by desired angle/range of downtilt

![Diagram of securing angles](image)

**Figure 6-2.** Attach bracket to cabinet

![Diagram of fully tightening hardware](image)

**Figure 6-3.** Fully tighten hardware to secure angle

![Diagram of mounting key](image)

**Figure 6-4.** Fully tighten all connections

Slot should be toward the back of the cabinet - used for rotational adjustment when mounted from the center hole

Mounting points for third party ceiling mount systems.
**IAF40 - 40" Isometric Array Frame for 12"-15" 2-way Loudspeakers**

**APPLICATION:** Suspend and aim two or three full-range 2-way loudspeakers in an isometric array.

**NOTES:** The array can be assembled standing on the ground and then the tilt angles can be adjusted when lifted.

- Loudspeakers must be fitted with Vertical Yokes or U-Brackets (3x IVY1122/IP8-1122s are shown)
- If the frame is suspended from a central point(s) the array must be symmetrical - same size outside loudspeakers at the same angle and tilt
- The center frame bracket is not necessary for dual loudspeaker configurations, but attaching it adds an extra forward lift point.

**PREASSEMBLY:**

Attach the Vertical Yokes or U-Brackets to the loudspeakers (see Vertical Yoke, or U-Bracket instructions).

*For 3-cabinet arrays:* The frame bracket must be attached to the frame.

*For 2-cabinet arrays with loudspeakers in vertical or horizontal orientation:* The frame bracket is optional, but provides an extra forward lift point for the rigging. The loudspeakers should be symmetrically oriented and attached to the frame. The front grilles should form an arc.

**Parts:**

| PF-1a: Isometric Array Frame |
| PF-1b: Frame Bracket |

**Hardware:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HH8-2</td>
<td>8 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>3</td>
<td>HN8</td>
<td>MB Locknuts</td>
</tr>
<tr>
<td>6</td>
<td>HW8</td>
<td>8mm Flat Washers</td>
</tr>
<tr>
<td>6</td>
<td>HH12-3</td>
<td>12 x 30 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>6</td>
<td>HN12</td>
<td>M12 Locknuts</td>
</tr>
<tr>
<td>12</td>
<td>HW12</td>
<td>12 mm Flat Washers</td>
</tr>
</tbody>
</table>

**Note:** There should not be any leftover hardware, unless only two (2) loudspeakers are mounted to the frame.

**Kit Weight:** 33.0lb (15.0 kg)

**MUST BE USED WITH:** 2-3 Vertical yoke brackets or 2 U-Brackets horizontally.

**Additional Configuration:** A smaller fill loudspeaker or subwoofer can be added under the middle loudspeaker on a 3-cabinet array by using a DFS Downfill or DVS-BFR22 kit.
HORIZONTAL ARRAYS

IAF40 (continued)

Figure 7-3. Mount center loudspeaker

Figure 7-4. Mount outside loudspeakers

IMPORTANT

- The table at right shows the maximum symmetrical pan and tilt for a three-cabinet array. Cabinets can be placed more closely but will have less rotation and/or tilt capabilities.
- 2-cabinet horizontal arrays should always mount to the outside (#5) holes on the frame for full rotation.
- The frame should be level when suspended and the pan and tilt is achieved by adjusting the yokes and the loudspeakers.
- BalancePoint™ Fly Rails can be added to the frame (attached right behind the middle bolt connection) to add subwoofers behind or additional lift or stabilization points.
- No more than three (3) Full-range and two (2) subwoofers should be on any single connected configuration. Do not exceed the Safe Working Load (500 lbs) of the assembly. Loudspeaker weights are provided on the last page of this manual.

It is strongly recommended that a licensed and certified professional structural engineer approve the mounting. Severe injury and/or loss of life may occur if this product is improperly installed.

Degrees of symmetrical rotation and tilt for 3 (2-way) cabinets in vertical yokes. ex. Cabinets mounted at holes 5/6 (heavy circles), provide a maximum 45° pan and 45° tilt for each cabinet.

<table>
<thead>
<tr>
<th>Hole Position* (Bracket)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>30°</td>
<td>40°</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>30°</td>
<td>40°</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>30°</td>
<td>40°</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>30°</td>
<td>40°</td>
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<tr>
<td>5</td>
<td></td>
<td></td>
<td>20°</td>
<td>35°</td>
<td>45°</td>
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<tr>
<td>6</td>
<td></td>
<td></td>
<td>20°</td>
<td>35°</td>
<td>45°</td>
</tr>
</tbody>
</table>

*Mounting positions as marked on the frame graphic

This chart is provided as a starting point. Tighter arrays using the 1-4 holes can be achieved with the smaller IP6/8-1122 models, but will provide a lesser degree of tilt for 3 cabinets.
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4 HORIZONTAL ARRAYS

IAF55 - 55" Isometric Array Frame for 3-way Loudspeakers

APPLICATION: Suspend and aim two or three full-range 3-way loudspeakers in an isometric array.

NOTE: Requires the loudspeakers to be fitted with Vertical Yokes or U-Brackets.

PREASSEMBLY:

Attach the Vertical Yokes or U-Brackets to the loudspeakers (see Vertical Yoke or U-Bracket instructions).

For 3-cabinet arrays: The frame bracket must be attached to the frame.

For 2-cabinet arrays for loudspeakers in vertical or horizontal orientation: The frame bracket is optional, but provides an extra forward lift point for the rigging. The loudspeakers should be symmetrically oriented and attached to the frame. The front grilles should form an arc.

Parts:

PF-2a: Isometric Array Frame
PF-2b: Frame Bracket

Hardware:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HH8-2</td>
<td>8 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>3</td>
<td>HN8</td>
<td>M8 Locknuts</td>
</tr>
<tr>
<td>6</td>
<td>HW8</td>
<td>8mm Flat Washers</td>
</tr>
<tr>
<td>6</td>
<td>HH12-3</td>
<td>12 x 30 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>6</td>
<td>HN12</td>
<td>M12 Locknuts</td>
</tr>
<tr>
<td>12</td>
<td>HW12</td>
<td>12 mm Flat Washers</td>
</tr>
</tbody>
</table>

Note: There should not be any leftover hardware, unless only two (2) loudspeakers are mounted to the frame.

Kit Weight: 44.0 lb (20.0 kg)

MUST BE USED WITH: 2-3 Vertical yoke brackets or 2 U-Brackets horizontally.

Additional Configuration: A smaller fill loudspeaker or subwoofer can be added under the middle loudspeaker on a 3-cabinet array by using a DFS Downfill or DVS-BFR22 kit.

Figure 8-1. Attach bracket to array frame for 3-cabinet arrays or for extra stabilization on 2-cabinet arrays

Figure 8-2. Yoke/U-Bracket mounting points
4 HORIZONTAL ARRAYS

IAF55 (continued)

Figure 8-3. Mount center loudspeaker

Figure 8-4. Mount outside loudspeakers

IMPORTANT

- Table at right shows the maximum symmetrical pan and tilt for a three cabinet array. Cabinets can be placed more closely but will have less rotation and/or tilt capabilities.
- 2-cabinet horizontal arrays should always mount to the outside (#6) holes on the frame for full rotation.
- The frame should be level when suspended and the pan and tilt is achieved by adjusting the yokes and the loudspeakers.
- BalancePoint™ Fly Rails can be added to the frame (attached right behind the middle bolt connection) to add subwoofers behind or additional lift or stabilization points.
- No more than three (3) full-range and two (2) subwoofers should be on any single connected configuration. Do not exceed the Safe Working Load (500 lbs) of the assembly. Loudspeaker weights are provided on the last page of this manual.

It is strongly recommended that a licensed and certified professional structural engineer approve the mounting. Severe injury and/or loss of life may occur if this product is improperly installed.

Degrees of symmetrical rotation and tilt for 3 (3-way) cabinets in vertical yokes

ex. Cabinets mounted at holes 4/6 (heavy circles), provide a maximum 45° pan and 45° tilt for each cabinet.

<table>
<thead>
<tr>
<th>Hole Position* (Bracket)</th>
<th>Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>1 — — — — —</td>
<td>30°</td>
</tr>
<tr>
<td>2 — — — — —</td>
<td>30°</td>
</tr>
<tr>
<td>3 — — — — —</td>
<td>20°</td>
</tr>
<tr>
<td>4 — — — — —</td>
<td>20°</td>
</tr>
</tbody>
</table>

*Mounting positions as marked on the frame graphic.

This chart is provided as a starting point. Tighter arrays using the 1–4 holes can be achieved for two cabinet arrays in portrait (vertical) orientation.
**HSB-BFR22 - Dual Horizontal Splay Kit for 2-way Loudspeakers**

**APPLICATION:** Suspend and aim two full-range 2-way loudspeakers in a horizontal array (portrait orientation of the loudspeakers).

**PREASSEMBLY:**
Confirm that the 8mm hardware on the cabinet brackets is the correct position (See bolt pattern diagram below).

**Parts:**
- PR-1: 22" BalancePoint" Fly Rails (2)
- PP-2: Splay Adapter Plate (1)
- PB-3: Cabinet Brackets (4)
- PH: Hinge Brackets (4=2 preassemblies)

**Hardware:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>HH6</td>
<td>6 x 25 mm Hex Hd Bolts</td>
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<td>4</td>
<td>HN6</td>
<td>M6 Locknuts</td>
</tr>
<tr>
<td>8</td>
<td>HW6</td>
<td>6mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HH8-2</td>
<td>8 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>10</td>
<td>HF8-3</td>
<td>8 x 30 mm Flat Hd Bolts</td>
</tr>
<tr>
<td>12</td>
<td>HN8</td>
<td>M8 Locknuts</td>
</tr>
<tr>
<td>14</td>
<td>HW8</td>
<td>8mm Flat Washers</td>
</tr>
<tr>
<td>6</td>
<td>HF1-3</td>
<td>10 x 35 mm Flat Hd Bolts</td>
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<td>2</td>
<td>HH1-5</td>
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<td>HN1</td>
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<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
</tbody>
</table>

Some hardware listed above will be included in plate and hinge preassemblies.

**Kit Weight:** 25.0 lb (11.3 kg)

**Figure 9-1a.** After removing the applicable cabinet bolts, place cabinet brackets (with flat head bolts inserted) on the cabinets as shown.

**Figure 9-1b.** Attach cabinet brackets to cabinets (3 connections per cabinet) - start all bolts before tightening any.

**Figure 9-2.** Stand the cabinets up, remove the 6mm hardware securing the angle, and attach the hinges to one cabinet and then the other (leave connections loose until both cabinets are connected).
**4 HORIZONTAL ARRAYS**

**HSB-BFR22 (continued)**

**Best practices:**

Orient hinges so that the nut securing the long bolt (hinge pivot) is at the bottom when mounted to a loudspeaker.

With the exception of the top connection, the 6mm hardware (securing the hinge angles), should also have the nuts at the bottom. This prevents bolts from falling out if the locknuts should loosen.

---

**Figure 9-3.** Attach splay plate - snug tighten bracket connections

**Figure 9-4.** Secure angle on hinges by reinserting the 6mm hardware removed earlier - snug tighten

**Figure 9-5.** Remove the locknuts and flat washers from the hex head bolts in the adapter plate. Move the bolts to the back of the slots, and attach the fly rails

**Figure 9-6.** Fully tighten all connections
**HSB3-BFR22 - Dual Horizontal Splay Kit for 3-way Loudspeakers**

**APPLICATION:** Suspend and aim two full-range 3-way loudspeakers in a horizontal array (portrait orientation of the loudspeakers).

**PREASSEMBLY:**

Confirm that the 8mm hardware on the cabinet brackets is the correct position (see bolt pattern diagram below).

---

### Parts:

- **PR-1:** 22” BalancePoint” Fly Rails (2)
- **PP-2:** Splay Adapter Plate (1)
- **PB-4:** Cabinet Brackets (4)
- **PH:** Hinge Brackets (4=2 preassemblies)

### Hardware:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>8</td>
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</tr>
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<td>2</td>
<td>HH8-2</td>
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</tr>
<tr>
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<td>HN8</td>
<td>M8 Locknuts</td>
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<tr>
<td>14</td>
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<td>HN1</td>
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</tr>
<tr>
<td>2</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
</tbody>
</table>

Some hardware listed above will be included in plate and hinge preassemblies.

**Kit Weight:** 31.0 lb (14.1 kg)

---

**Figure 10-1a.** After removing the applicable cabinet bolts, place cabinet brackets (with flat head bolts inserted) on the cabinets as shown.

**Figure 10-1b.** Attach cabinet brackets to cabinets (3 connections per cabinet) - start all bolts before tightening any.

**Figure 10-2.** Stand the cabinets up, remove the 6mm hardware securing the angle, and attach the hinges to one cabinet and then the other (leave connections loose until both cabinets are connected).
**4 HORIZONTAL ARRAYS**

**HSB3-BFR22** (continued)

**Best practices:**

Orient hinges so that the nut securing the long bolt (hinge pivot) is at the bottom when mounted to a loudspeaker.

With the exception of the top connection, the 6mm hardware (securing the hinge angles), should also have the nuts at the bottom. This prevents bolts from falling out if the locknuts should loosen.

---

**Figure 10-3.** Attach splay plate - snug tighten bracket connections

**Figure 10-4.** Secure angle on hinges by reinserting the 6mm hardware removed earlier - snug tighten connections

**Figure 10-5.** Remove the locknuts and flat washers from the hex head bolts in the adapter plate, move the bolts to the back of the slots, and attach the fly rails

**Figure 10-6.** Fully tighten all connections
**4 HORIZONTAL ARRAYS**

**HSB-SBR54 - Dual Horizontal Splay with Extension Kit**  
(for subwoofer behind 2-way loudspeakers)

**APPLICATION:** Suspend and aim two full-range 2-way loudspeakers in a horizontal array (portrait orientation of the loudspeakers) with one or two subwoofers mounted behind on the 54” BalancePoint™ Fly Rails.

**PREASSEMBLY:**  
Confirm that the 8mm hardware on the cabinet brackets is the correct position (see bolt pattern diagram below).

### Parts:

- **PR-3:** 54” BalancePoint™ Fly Rails (2)  
- **PP-1:** Universal Fly Rail Plates (2)  
- **PP-2:** Splay Adapter Plate (1)  
- **PB-3:** Cabinet Brackets (4)  
- **PH:** Hinge Brackets (4=2 preassemblies)  
- Gasket Material

### Hardware:

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<tr>
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<td>M6 Locknuts</td>
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<tr>
<td>8</td>
<td>HW6</td>
<td>6mm Flat Washers</td>
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<tr>
<td>2</td>
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<tr>
<td>14</td>
<td>HF8-3</td>
<td>8 x 30 mm Flat Hd Bolts</td>
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<tr>
<td>16</td>
<td>HN8</td>
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</tr>
<tr>
<td>2</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
</tbody>
</table>

Some hardware listed above will be included in plate and hinge preassemblies.

**Kit Weight:** 32.0 lb (14.5 kg)

Purchase of a Tight Pack kit (TPK) is suggested when hanging dual subwoofers. Follow those instructions to connect the bottom of the subwoofers with two (2) additional mounting plates.

---

**Figure 11-1a.** After removing the applicable cabinet bolts, place cabinet brackets (with flat head bolts inserted) on the cabinets as shown.

**Figure 11-1b.** Attach cabinet brackets to cabinets (3 connections per cabinet) - start all bolts before tightening any.

**Figure 11-2.** Stand the cabinets up, remove the 6mm hardware securing the angle, and attach the hinges to one cabinet and then the other (leave connections loose until both cabinets are connected).
**4 HORIZONTAL ARRAYS**

**HSB-SBR54 (continued)**

**Best practices:**

Orient hinges so that the nut securing the long bolt (hinge pivot) is at the bottom when mounted to a loudspeaker.

With the exception of the top connection, the 6mm hardware (securing the hinge angles), should also have the nuts at the bottom. This prevents bolts from falling out if the locknuts should loosen.

---

**Figure 11-3.** Attach splay plate - snug tighten bracket connections

**Figure 11-4.** Secure angle on hinges by reinserting the 6mm hardware removed earlier - snug tighten connections

---

**Figure 11-5a.** Attach two (2) PP-1 to the front and rear connection points on the subwoofer

**Figure 11-5b.** Cut and adhere (2) strips of gasket to the side of one subwoofer (spanning the height and spaced equidistant). With the gasket sandwiched between the cabinets, attach (2) PP-1 and fully tighten connections.
HSB-SBR54 (continued)

Best practices:
Leave at least 6” (152mm) between the front of the subwoofer and the back of the splayed full-range loudspeakers. The subwoofer(s) can be placed at the end the fly rail.

![Diagram](image)

**Figure 11-6.** Remove the locknuts and flat washers from the hex head bolts in the adapter plate, move the bolts to the back of the slots, and attach both rails to the universal mounting plates and splay adapter plate (single subwoofer shown).

![Wrench](image)

**Figure 11-7.** Fully tighten all connections.

**IMPORTANT:** Attach a safety cable to one of the unused mounting points. Safety cables must be secured to a suitable load-bearing point separate from the loudspeaker mounting point, with as little slack as possible, oriented to minimize dynamic swinging of the load, so as not to develop undue shock or kinetic force if the loudspeaker mount were to fail. Safety cables and hardware are not included. Please consult a structural engineer for the appropriate cable and hardware for the load and application.

CAUTION: Installation of I SERIES loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting. Severe injury and/or loss of life may occur if this product is improperly installed.
**4 HORIZONTAL ARRAYS**

**HSB3-SBR54 - Dual Horizontal Splay with Extension Kit**
(for subwoofer behind 3-way loudspeakers)

**APPLICATION:** Suspend and aim two full-range 3-way loudspeakers in a horizontal array (portrait orientation of the loudspeakers) with one or two subwoofers mounted behind on the 54” BalancePoint™ Fly Rails.

**PREASSEMBLY:**
Confirm that the 8mm hardware on the cabinet brackets is the correct position (See bolt pattern diagram below).

**Parts:**

- PR-3: 54” BalancePoint™ Fly Rails (2)
- PP-1: Universal Fly Rail Plates (2)
- PP-2: Splay Adapter Plate (1)
- PB-4: Cabinet Brackets (4)
- PH: Hinge Brackets (4=2 preassemblies)
- Gasket Material

**Hardware:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
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<td>HH6</td>
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<td>4</td>
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<td>8 x 30 mm Flat Hd Bolts</td>
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<tr>
<td>16</td>
<td>HN8</td>
<td>M8 Locknuts</td>
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<tr>
<td>18</td>
<td>HW8</td>
<td>8mm Flat Washers</td>
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<tr>
<td>10</td>
<td>HF1-3</td>
<td>10 x 35 mm Flat Hd Bolts</td>
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<td>2</td>
<td>HH1-5</td>
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<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknuts</td>
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<tr>
<td>6</td>
<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
</tbody>
</table>

Some hardware listed above will be included in plate and hinge preassemblies.

**Kit Weight:** 42.0 lb (19.1 kg)

Purchase of a Tight Pack kit (TPK) is suggested when hanging dual subwoofers. Follow those instructions to connect the bottom of the subwoofers with two (2) additional mounting plates.

---

**Figure 12-1a.** After removing the applicable cabinet bolts, place cabinet brackets (with flat head bolts inserted) on the cabinets as shown

**Figure 12-1b.** Attach cabinet brackets to cabinets (3 connections per cabinet) - start all bolts before tightening any

---

**Figure 12-2.** Stand the cabinets up, remove the 6mm hardware securing the angle, and attach the hinges to one cabinet and then the other (leave connections loose until both cabinets are connected)
**4 HORIZONTAL ARRAYS**

**HSB3-SBR54 (continued)**

**Best practices:**

Orient hinges so that the nut securing the long bolt (hinge pivot) is at the bottom when mounted to a loudspeaker.

With the exception of the top connection, the 6mm hardware (securing the hinge angles), should also have the nuts at the bottom. This prevents bolts from falling out if the locknuts should loosen.

Figure 12-3. Attach splay plate - snug tighten bracket connections

Figure 12-4. Secure angle on hinges by reinserting the 6mm hardware removed earlier - snug tighten connections

**Single Subwoofer**

Figure 12-5a. Attach two (2) PP-1 to the front and rear connection points on the subwoofer

**Dual Subwoofers**

Figure 12-5b. Cut and adhere (2) strips of gasket to the side of one subwoofer (spanning the height and spaced equidistant). With the gasket sandwiched between the cabinets, attach (2) PP-1 and fully tighten connections
**CAUTION:** Installation of I SERIES loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting. Severe injury and/or loss of life may occur if this product is improperly installed.

**Best practices:**

Leave at least 6" (152mm) between the front of the subwoofer and the back of the splayed full-range loudspeakers. The subwoofer(s) can be placed at the end the fly rail.

**Figure 12-6.** Remove the locknuts and flat washers from the hex head bolts in the adapter plate, move the bolts to the back of the slots, and attach both rails to the universal mounting plates and splay adapter plate (single subwoofer shown).

**Figure 12-7.** Fully tighten all connections.

**IMPORTANT:** Attach a safety cable to one of the unused mounting points. Safety cables must be secured to a suitable load-bearing point separate from the loudspeaker mounting point, with as little slack as possible, oriented to minimize dynamic swinging of the load, so as not to develop undue shock or kinetic force if the loudspeaker mount were to fail. Safety cables and hardware are not included. Please consult a structural engineer for the appropriate cable and hardware for the load and application.
4 HORIZONTAL ARRAYS

HAB-BFR38 - Dual Horizontal Array Kit for 2-way Models
(for 12”/15” subwoofer between)

APPLICATION: Suspend and array two full-range 2-way loudspeakers with one subwoofer mounted between in a horizontal array (portrait orientation of the loudspeakers) with 38” BalancePoint™ Fly Rails.

ASSEMBLY:
Determine the angle that the loudspeakers should be arrayed. Set the loudspeakers on a protected surface in the proper arrangement.

Parts:

- PR-2: 38” BalancePoint™ Fly Rails (2)
- PP-1: Universal Mounting Plates (2)
- PP-3: Array Plates (2)

Hardware:

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<td>8 x 30 mm Flat Hd Bolts</td>
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<tr>
<td>4</td>
<td>HW8</td>
<td>8mm Flat Washers</td>
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<tr>
<td>4</td>
<td>HN8</td>
<td>M8 Locknuts</td>
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<td>8</td>
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<td>HF1-3</td>
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<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>8</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
</tbody>
</table>

Notes:
Use this kit for 12/15” subwoofers connected to IP6/IP8-1122 or IP6/IP8-1152 models.
The full-range cabinets should be the same size model, but do not need to be the same height as the subwoofer.
Some 8mm hardware listed above will be included in plate preassemblies.

Kit Weight: 40.0 lb (18.1 kg)
**IMPORTANT:** The array angle for the full-range cabinets should be the same. If it isn’t, the center of balance will be affected and adjustments will need to be made to the suspension points.

**Best Practices:**
For best aesthetics, the BalancePoint™ Fly Rails should not extend beyond the front of the loudspeakers.

---

**Figure 13-2.** Attach array plates to the cabinets - see detail at right for definition of attachment points for PP-3 plate
Leave connections to full-range cabinets loose until angle is determined

**Figure 13-3.** Attach fly rails to subwoofer

**Figure 13-4.** Fully tighten all connections
**4 HORIZONTAL ARRAYS**

**HAB3-BFR38 - Dual Horizontal Array Kit for 3-way Models**
(for 15"/18" subwoofer between a pair of IP8-1153s or IP8-0002s)

**APPLICATION:** Suspend and array two full-range 3-way loudspeakers (or a pair of IP8-0002 mid-high loudspeakers) with one subwoofer mounted between in a horizontal array (portrait orientation of the loudspeakers) with 38" BalancePoint™ Fly Rails.

**ASSEMBLY:** Determine the angle that the loudspeakers should be arrayed. Set the loudspeakers on a protected surface in the proper arrangement.

**Parts:**

- PR-2: 38" BalancePoint™ Fly Rails (2)
- PP-1: Universal Mounting Plates (2)
- PP-4: Array Plates (2)

**Hardware:**

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<td>8mm Flat Washers</td>
</tr>
<tr>
<td>4</td>
<td>HN8</td>
<td>M8 Locknuts</td>
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<tr>
<td>8</td>
<td>HH1-4</td>
<td>10 x 40 mm Hex Hd Bolts</td>
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<td>2</td>
<td>HF1-3</td>
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<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>8</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
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</table>

**Notes:**
Use for 15/18" subwoofers and IP8-0002 or IP8-1153 models.
The full-range cabinets should be the same size model, but do not need to be the same height as the subwoofer.
Some 8mm hardware listed above will be included in plate preassemblies.

**Kit Weight:** 58.0 lb (26.3 kg)
IMPORTANT: The array angle for the full-range/mid-high cabinets should be the same. If it isn’t, the center of balance will be affected and adjustments will need to be made to the suspension points.

Best Practices:
For best aesthetics, the BalancePoint™ Fly Rails should not extend beyond the front of the loudspeakers.

Figure 14-2. Attach array plates to the cabinets. Leave connections to outside cabinets loose until angle is determined.

Aligning the front mounting point with the degree marking on the plate will give you the array angle (between centers).

Figure 14-3. Attach fly rails to subwoofer.

Figure 14-4. Fully tighten all connections.
5 VERTICAL ARRAYS

VSB-BFR22 - Dual Vertical Splay Kit for 2-way Models
(Vertically array two 2-way loudspeakers)

APPLICATION: Suspend and vertically array two full-range 2-way loudspeakers (landscape orientation of the loudspeakers) with BalancePoint™ Fly Rails.

PREASSEMBLY:
Confirm that the 8mm hardware on the cabinet brackets is the correct position (See bolt pattern diagram below). It will differ for the top cabinet brackets depending whether you are using 1122 or 1152 models. You will need to move the 4 flat head bolts to the outside holes if you are mounting to IP6/8-1152 cabinets.

ASSEMBLY:
The array can be assembled from the top down by attaching the brackets and rails to what will be the top cabinet and then suspending it and adding the lower cabinet, or the full unit can be assembled on the floor (on its side on a protected surface) and then lifted/flown.

Parts:

PR-1: 22" BalancePoint™ Fly Rails (2)
PP-1: Universal Mounting Plates (2)
PB-2: Dual L Brackets (2)
PB-3: Cabinet Brackets (4)
PH: Hinge Brackets (4=2 preassemblies)

Hardware:

<table>
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<tr>
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<th>Description</th>
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<td>M6 Locknuts</td>
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<tr>
<td>8</td>
<td>HW6</td>
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<tr>
<td>4</td>
<td>HW1</td>
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</tr>
<tr>
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<td>HN1</td>
<td>M10 Locknuts</td>
</tr>
</tbody>
</table>

Some hardware listed above will be included in plate and hinge preassemblies.

Note: One additional cabinet may be added to the array by using one HVS kit.

Kit Weight: 27.0 lb (12.2 kg)

Figure 15-1. After removing the applicable cabinet bolts, place upper cabinet brackets (with flat head bolts inserted) on the cabinets as shown - note position of top bolts.

Figure 15-2. Attach the L brackets to the cabinet brackets - note which holes in the L bracket to use.
5 VERTICAL ARRAYS

VSB-BFR22 (continued)

Best Practices:
For best aesthetics, the BalancePoint™ Fly Rails should not extend beyond the front of the loudspeakers.
Attach safety cable(s) to the loudspeakers and/or assembly as advised by a registered structural engineer.

![Figure 15-3. Attach PP-1 to enclosure with outside edges parallel and fully tighten](image)

![Figure 15-4. Attach hinges (2) to remaining cabinet brackets - use the holes closest to the hinge pivot](image)

![Figure 15-5. Attach hinge/bracket assembly to the upper cabinet - use the holes closest to the hinge pivot](image)

![Figure 15-6. Attach rails to upper cabinet - position rail with most of the excess in the rear. Fully tighten connections to the fly rails](image)

Important: Cabinet and rail connections should be fully tightened (as you proceed) before suspending each component.
5 VERTICAL ARRAYS

VSB-BFR22 (continued)

Figure 15-7. Remove the 6mm hardware and lift the lower cabinet up to the upper assembly. Attach lower cabinet to the hinge/bracket. Start all bolts before fully tightening them.

Figure 15-8. Adjust hinge to desired angle and reinsert the 6mm hardware. Snug tighten the 6mm connections until desired angle is confirmed, then fully tighten.

Figure 15-9. Fully tighten all connections.

Assembled VSB-BFR22
5 VERTICAL ARRAYS

VSB3-BFR22 - Dual Vertical Splay Kit for 3-way Models
(Vertically array two 3-way loudspeakers)

APPLICATION: Suspend and vertically array two full-range 3-way loudspeakers (landscape orientation of the loudspeakers) with BalancePoint™ Fly Rails.

PREASSEMBLY:
Confirm that the 8mm hardware on the cabinet brackets is the correct position (See bolt pattern diagram below).

ASSEMBLY:
The array should be assembled from the top down by attaching the brackets and rails to what will be the top cabinet and then suspending it and adding the lower cabinet.

Parts:

<table>
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<th>Part Code</th>
<th>Description</th>
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<td>PP-1</td>
<td>Universal Mounting Plates (2)</td>
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<tr>
<td>PB-2</td>
<td>Dual L Brackets (2)</td>
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<tr>
<td>PB-4</td>
<td>Cabinet Brackets (4)</td>
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<tr>
<td>PH</td>
<td>Hinge Brackets (4=2 preassemblies)</td>
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Hardware:

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<tr>
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<tr>
<td>4</td>
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<td>M6 Locknuts</td>
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<tr>
<td>8</td>
<td>HW6</td>
<td>6mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HH8-2</td>
<td>8 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>16</td>
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<td>8 x 30 mm Flat Hd Bolts</td>
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<td>20</td>
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<td>18</td>
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<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknuts</td>
</tr>
</tbody>
</table>

Note: One additional cabinet may be added to the array by using one HVS3 kit. Some hardware listed above will be included in plate and hinge preassemblies.

Kit Weight: 32.0 lb (14.5 kg)

Figure 16-1. After removing the applicable cabinet bolts, place upper cabinet brackets (with flat head bolts inserted) on the cabinets as shown.

Figure 16-2. Attach the L brackets to the cabinet brackets - note which holes to use in the L bracket.
Best Practices:
For best aesthetics, the BalancePoint™ Fly Rails should not extend beyond the front of the loudspeakers.
Attach safety cable(s) to the loudspeakers and/or assembly as advised by a registered structural engineer.

Important: Cabinet and rail connections should be fully tightened (as you proceed) before suspending each component.

Figure 16-3. Attach PP-1 to enclosure - with outside edges parallel and fully tighten

Figure 16-4. Attach hinges (2) to remaining cabinet brackets - use the holes closest to the hinge pivot

Figure 16-5. Attach hinge/bracket assembly to the upper cabinet - use the holes closest to the hinge pivot

Figure 16-6. Attach both rails to upper cabinet and fully tighten connections
Assembled VSB3-BFR22

**Figure 16-7.** Remove the 6mm hardware and lift the lower cabinet up to the upper assembly
- Attach lower cabinet to the hinge/bracket
- Start all bolts before fully tightening them

**Figure 16-8.** Adjust hinge to desired angle and reinset the 6mm hardware
- Snug tighten the 6mm connections until desired angle is confirmed, then fully tighten

**Figure 16-9.** Fully tighten all connections

Assembled VSB3-BFR22
5 VERTICAL ARRAYS

VSB-SBR54 - Dual Vertical Splay with Extension Kit for 2-way Models
(Vertically array two 2-way loudspeakers with subwoofer(s) behind)

APPLICATION: Suspend and vertically array two full-range 2-way loudspeakers (landscape orientation) with a subwoofer behind; connected with BalancePoint™ Fly Rails.

PREASSEMBLY:
Confirm that the 8mm hardware on the cabinet brackets is the correct position (See bolt pattern diagram below).

ASSEMBLY:
The array should be assembled from the top down by attaching the brackets and rails to what will be the top cabinet and then suspending it and adding the lower cabinet. After the lower full-range loudspeaker is connected the subwoofer can be lifted into position and attached to the rails.

Parts:

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>PR-3</td>
<td>54”</td>
<td>PR-3</td>
<td>BalancePoint™ Fly Rails</td>
</tr>
<tr>
<td>PP-1</td>
<td></td>
<td>PP-1</td>
<td>Universal Mounting Plates</td>
</tr>
<tr>
<td>PB-2</td>
<td>2</td>
<td>PB-2</td>
<td>Dual L Brackets</td>
</tr>
<tr>
<td>PB-3</td>
<td>4</td>
<td>PB-3</td>
<td>Cabinet Brackets</td>
</tr>
<tr>
<td>PH</td>
<td>8</td>
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<td>Hinge Brackets (4=2 preassemblies)</td>
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Hardware:

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<th>Qty</th>
<th>Code</th>
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<tbody>
<tr>
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<td>6 x 25 mm Hex Hd Bolts</td>
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<tr>
<td>4</td>
<td>HN6</td>
<td>M6 Locknuts</td>
</tr>
<tr>
<td>8</td>
<td>HW6</td>
<td>6mm Flat Washers</td>
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<td>8 x 30 mm Hex Hd Bolts</td>
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<td>HF8-3</td>
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<td>24</td>
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<td>22</td>
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<td>M8 Locknuts</td>
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<td>12</td>
<td>HF1-3</td>
<td>10 x 35 mm Flat Hd Bolts</td>
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<td>4</td>
<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknuts</td>
</tr>
</tbody>
</table>

Some hardware listed above will be included in plate and hinge preassemblies.

Note: One additional full-range cabinet may be added to the array by using one HVS kit, or an additional sub can be added by using a TPK kit.

Kit Weight: 37.0 lb (16.8 kg)

Figure 17-1. After removing the applicable cabinet bolts, place upper cabinet brackets (with flat head bolts inserted) on the cabinets as shown - note position of top bolts

Figure 17-2. Attach the L brackets to the cabinet brackets - note which holes in the L bracket to use
5 VERTICAL ARRAYS

VSB-SBR54 (continued)

Best Practices:
For best aesthetics, the BalancePoint™ Fly Rails should not extend beyond the front of the loudspeakers.
Attach safety cable(s) to the loudspeakers and/or assembly as advised by a registered structural engineer.

Important: Cabinet and rail connections should be fully tightened (as you proceed) before suspending each component.

![Figure 17-3](image)
Figure 17-3. Attach PP-1 to enclosure - with outside edges parallel and fully tighten

![Figure 17-4](image)
Figure 17-4. Attach hinges (2) to remaining cabinet brackets - use the holes closest to the hinge pivot

![Figure 17-5](image)
Figure 17-5. Attach hinge/bracket assembly to the upper cabinet - use the holes closest to the hinge pivot

![Figure 17-6](image)
Figure 17-6. Attach rails to upper cabinet
5 VERTICAL ARRAYS

VSB-SBR54 (continued)

Figure 17-7. Lift the lower full-range cabinet into place and attach the cabinet brackets. Fully tighten those connections.

Figure 17-8. Adjust hinge to desired angle and reinsert the 6mm hardware. Snug tighten the 6mm connections until desired angle is confirmed, then fully tighten.

Figure 17-9. Lift the subwoofer into place under the rails and attach to the rails. Fully tighten the connections.

Figure 17-10. Fully tighten all connections.

An additional subwoofer can be added under the subwoofer by using a tight pack kit (TPK). Attach the mounting plates to the lower subwoofer and lift into position then connect the two. They must be placed horizontally (landscape position). Do not exceed the Safe Working Load of 500 lbs with the full assembly.
5 VERTICAL ARRAYS

VSB3-SBR54 - Dual Vertical Splay with Extension Kit for 3-way Models
(Vertically array two 3-way loudspeakers with subwoofer(s) behind)

APPLICATION: Suspend and vertically array two full-range 3-way loudspeakers (landscape orientation of the loudspeakers) with BalancePoint™ Fly Rails with subwoofer(s) behind.

PREASSEMBLY:
Confirm that the 8mm hardware on the cabinet brackets is the correct position (See bolt pattern diagram below).

ASSEMBLY:
The array should be assembled from the top down by attaching the brackets and rails to what will be the top cabinet and then suspending it and adding the lower cabinet.

Parts:

| PR-3 | 54” BalancePoint™ Fly Rails (2) |
| PP-1 | Universal Mounting Plates (4)   |
| PH   | Hinge Brackets (4=2 preassemblies) |
| PB-4 | Cabinet Brackets (4)            |
| PB-2 | Dual L Brackets (2)             |

Hardware:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>HN6</td>
<td>M6 Locknuts</td>
</tr>
<tr>
<td>8</td>
<td>HW6</td>
<td>6mm Flat Washers</td>
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<tr>
<td>2</td>
<td>HH8-3</td>
<td>8 x 30 mm Hex Hd Bolts</td>
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<td>20</td>
<td>HF8-3</td>
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<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknuts</td>
</tr>
</tbody>
</table>

Some hardware listed above will be included in plate and hinge preassemblies.

Note: One additional full-range cabinet may be added to the array by using one HVS3 kit, or an additional sub can be added by using a TPK kit.

Kit Weight: 43.0 lb (19.5 kg)
**Best Practices:**

For best aesthetics, the BalancePoint™ Fly Rails should not extend beyond the front of the loudspeakers. Attach safety cable(s) to the loudspeakers and/or assembly as advised by a registered structural engineer.

**Important:** Cabinet and rail connections should be fully tightened (as you proceed) before suspending each component.

---

**Figure 18-3.** Attach PP-1 to enclosure - with outside edges parallel and fully tighten

**Figure 18-4.** Attach hinges (2) to remaining cabinet brackets - use the holes closest to the hinge pivot

**Figure 18-5.** Attach hinge/bracket assembly to the upper cabinet - use the holes closest to the hinge pivot

**Figure 18-6.** Attach both rails to upper cabinet and fully tighten connections
**5 VERTICAL ARRAYS**

**VSB3-SBR54 (continued)**

**7**

Figure 18-7. Remove the 6mm hardware and lift the lower cabinet up to the upper assembly. Attach lower cabinet to the hinge/bracket. Start all bolts before fully tightening them.

**8**

Figure 18-8. Adjust hinge to desired angle and reinsert the 6mm hardware. Snug tighten the 6mm connections until desired angle is confirmed, then fully tighten.

**9**

Figure 18-9. Lift the subwoofer into place under the rails and attach to the rails. Fully tighten the connections.

**10**

Figure 18-10. Fully tighten all connections.

An additional subwoofer can be added under the subwoofer by using a tight pack kit (TPK). Attach the mounting plates to the lower subwoofer and lift into position then connect the two. They must be placed horizontally (landscape position). Do not exceed the Safe Working Load of 500 lbs with the full assembly.
**5 VERTICAL ARRAYS**

**VAB-BFR38 - Vertical Array Brackets with BalancePoint™ Fly Rails**

**APPLICATION:** Suspend and vertically array a subwoofer above a matching size 2-way/3-way loudspeaker (landscape orientation of the loudspeakers) with BalancePoint™ Fly Rails.

**ASSEMBLY:**
The array can be assembled from the top down by attaching the brackets and rails to subwoofer, suspending it and then adding the lower cabinet, or (for smaller models) the full unit can be assembled on the floor (on a protected surface) and then lifted/flown.

**Easiest order of assembly.** Attach the array plate to the full-range cabinet, leaving connections loose, and then lift the lower cabinet to the subwoofer and attach. Fly Rail fasteners must all be fully tightened before suspending the subwoofer. Hex bolts connecting the array bracket to the full-range cabinet should be left slightly loose until aiming angle is set, then fully tightened.

---

**Parts:**

- **PR-2:** 38” BalancePoint™ Fly Rails (2)
- **PP-1:** Universal Mounting Plates (4)
- **PP-5:** Array Plates (2)

**Hardware:**

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<td>M8 Locknuts</td>
</tr>
<tr>
<td>8</td>
<td>HW8</td>
<td>8mm Flat Washers</td>
</tr>
<tr>
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<td>4</td>
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</tr>
<tr>
<td>8</td>
<td>HL1</td>
<td>10 mm Lock Washers</td>
</tr>
</tbody>
</table>

The 8mm flat head hardware listed above may be included in plate preassemblies.

**Kit Weight:** 36.0 lb (16.3 kg)

**Models that can be paired:**
- IP6/IP6-1122 with IS6/IS8 212
- IP8 1153 with IS6/IS8 215 or IS6/IS8 218

**NOTE:** The IP6/8-1152 currently is without a matched-width subwoofer.

If another full-range cabinet can be added by using the applicable HVS or HVS3 extension kit, or another subwoofer can be added by utilizing a Tight Pack kit to connect the subwoofers.

---

**Figure 19 - 1. Vertical array plate - orientation and attachment details**
**5 VERTICAL ARRAYS**

VAB-BFR38 (continued)

**Figure 19-2.** Attach 2 plates to each side, and fully tighten (oriented with flat sides toward the outside edges of the subwoofer)

**Figure 19-3.** Attach a rail to each side

*Do not extend rails over or beyond the Community sidebar (front of subwoofer)*

**Figure 19-4.** Attach bracket to full-range cabinet and leave bolts loose

*Note: If lifting the full-range cabinet up to the Sub, temporarily set the angle to 0° to make sub connection easier, then move bolt to desired angle setting.*

**Figure 19-5.** Lift the full-range loudspeaker up to the subwoofer and attach the subwoofer to the array bracket

**Figure 19-6.** Fully tighten all connections

**SUSPENSION TIPS**

If no motorized lift point is available: 1) Move first subwoofer with the rails into its permanent position and add temporary cables to move the subwoofer into a level (parallel to lift surface) position; 2) Lift any additional subwoofers one at a time and fasten to the sub above; 3) Add the full-range cabinet with the array plate attached/loose (and rotational brackets), and connect to the sub above; 4) Set the angle on the full-range and tighten bolts; 5) Lift and add additional full-range cabinets. Any rotational (hinge) brackets should have corner brackets attached and ride with the upper cabinets for easier connectivity.

If motorized lift points are available: Assemble from the top down and tighten bolt connections as you move down the stack.
**5 VERTICAL ARRAYS**

**DVS-BFR22 - Dual Vertical Splay Kit for Two Vertical Enclosures (no U-Brackets)**

**APPLICATION:** Suspend and splay two vertically oriented enclosures with BalancePoint™ Fly Rails. Can be used with or without optional U-Brackets to provide extra aiming capability.

**ASSEMBLY:**
The array can be assembled from the top down by attaching the brackets and rails to what will be the top cabinet and then suspending it and adding the lower cabinet, or the full unit can be assembled horizontally on the floor (on a protected surface), and then lifted/flopped.

*There are three (3) sets of assembly instructions for this kit: no U-Brackets, one (1) U-Bracket, or two (2) U-Brackets. Use the appropriate version for your application.*

---

**Parts:**

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<th>Description</th>
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<td>PP-1</td>
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<td>Universal Mounting Plates (2)</td>
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<tr>
<td>PB-3</td>
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<td>Cabinet Brackets (2)</td>
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<tr>
<td>PH</td>
<td></td>
<td>Hinge Preassembly (1)</td>
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**Hardware:**

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<td>M6 Locknuts</td>
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<tr>
<td>4</td>
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<td>HF8-3</td>
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<td>HN8</td>
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<td>3</td>
<td>HW1</td>
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</tr>
<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknuts</td>
</tr>
</tbody>
</table>

Some of the hardware listed above will be included in plate and hinge preassemblies.

**Kit Weight:** 17.0 lb (7.7 kg)
**5 VERTICAL ARRAYS**

**DVS-BFR22 (no U-Brackets continued)**

**Best Practices:**

Set the loudspeakers on a protected surface in the proper arrangement before assembling the array. Remove only the flat head bolts in the cabinet that are necessary to mount the rigging brackets. All other bolts should be left in place. All bolts should be fully tightened before the assembly is lifted into place.

Attach safety cable(s) to the loudspeakers and/or assembly as advised by a registered structural engineer.

---

**Figure 20-3.** Confirm that the 8mm flat head bolts are threaded into each cabinet bracket as shown, and attach them to the cabinets

**Figure 20-4.** Attach hinge assembly to upper cabinet

**Figure 20-5.** Remove 6mm hardware (securing the angle) and attach lower cabinet

**Figure 20-6.** Set the splay angle by reattaching the 6mm hardware

**Figure 20-7.** Fully tighten all connections

---

**CAUTION:** Installation of I SERIES loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting. Severe injury and/or loss of life may occur if this product is improperly installed.
5 VERTICAL ARRAYS

DVS-BFR22 (alternate configurations)
with 1 U-Bracket on the lower loudspeaker

ASSEMBLY:
The array can be assembled from the top down by attaching the brackets and rails to what will be the top cabinet and then suspending it and adding the lower cabinet, or the full unit can be assembled horizontally on the floor (on a protected surface), and then lifted/flown.

USING 1 U-BRACKET
The loudspeaker with the U-Bracket will be the lower cabinet in this configuration. Install the U-Bracket on that loudspeaker (see U-Bracket instructions).

Note: You will have some leftover hardware (8mm bolts, bolts, washers), and 1 cabinet bracket will not be used.
Fully tighten all hardware before suspending

1. Figure 21-1. Attach plates to enclosure
2. Figure 21-2. Attach rails to plates
3. Figure 21-3. Attach cabinet bracket to the upper cabinet
4. Use mounting points as marked
5. Figure 21-4. Attach hinge to the U-Bracket
6. Figure 21-5. Remove 6mm hardware (securing the angle) and attach hinge to the cabinet bracket on the upper cabinet
7. Figure 21-6. Set the splay angle by reattaching the 6mm hardware

Fully tighten connections
**5 VERTICAL ARRAYS**

**DVS-BFR22 (alternate configurations) with 2 U-Brackets on the loudspeakers**

**ASSEMBLY:**
The array can be assembled from the top down by attaching the brackets and rails to what will be the top cabinet and then suspending it and adding the lower cabinet, or the full unit can be assembled horizontally on the floor (on a protected surface) and then lifted/floated. Panning angles can be adjusted once fully assembled and suspended.

Install the U-Brackets on the loudspeakers, but leave the connections loose.

Remove the hardware (hex bolt, flat washer, lock washer) connecting the U-Bracket to the top of the upper loudspeaker, and attach the mounting plates (Figure 22-1). Keep the large washer between the loudspeaker and the U-Bracket.

![Figure 22-1. Attach mounting plates to U-Bracket and cabinet](image1)

![Figure 22-2. Attach fly rails to U-Bracket](image2)

![Figure 22-3. Attach hinge to U-Brackets](image3)

![Figure 22-4. Set the splay angle by reattaching the 6mm hardware](image4)

![Figure 22-5. Fully tighten all connections](image5)
**ARRAY ACCESSORIES**

**DFS - Downfill Splay Bracket Kit**

**APPLICATION:** Suspend and splay a vertically oriented enclosure under another vertically oriented enclosure or loudspeaker array.

**ASSEMBLY:**
The array should be assembled from the top down by attaching the cabinet bracket to what will be the top cabinet and then suspending it and adding the lower cabinet.

**Best Practices:**
Set the loudspeakers on a protected surface in the proper arrangement before assembling the array. Remove only the flat head bolts in the cabinet that are necessary to mount the rigging brackets. All other bolts should be left in place. All bolts should be fully tightened before the assembly is lifted into place.

**Parts:**
- PB-3: Cabinet Brackets (2)
- PH: Hinge Preassembly (1)

**Hardware:**

<table>
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<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>HH6</td>
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<td>HN6</td>
<td>M6 Locknuts</td>
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<tr>
<td>4</td>
<td>HF8-3</td>
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</tr>
<tr>
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<td>M10 Locknut</td>
</tr>
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</table>

Some of the hardware listed above will be included in plate and hinge preassemblies.

**Kit Weight:** 10.0 lb (4.5 kg)

---

**Figure 23-1.** Confirm that the 8mm flat head bolts are threaded into each cabinet bracket as shown, and attach them to the cabinets.

**Figure 23-2.** Remove 6mm hardware (securing the angle) and attach the hinge to the upper cabinet and then the lower one – leave connections loose until both cabinets have been connected.

**Figure 23-3.** Set the splay angle by reattaching the 6mm hardware.

**Figure 23-4.** Fully tighten all connections.
**HVS - Horizontal/Vertical Splay Bracket Extension Kit (2-way)**

**APPLICATION:** Add an additional enclosure to a full-range loudspeaker in a 2-way Horizontally or Vertically Splayed configuration.

**ASSEMBLY:**

This kit includes the (4) 8mm bolts that may need to be threaded into the adjacent full range cabinet’s corner brackets before they are attached to that cabinet. There are several configurations possible and the specific bolt locations in the cabinet brackets are shown. Follow the instructions and general order of assembly accompanying the kit that you are adding the third cabinet to.

When attaching the hinges to the cabinet brackets it will be easier to remove the 6mm hardware and allow the hinge to move. After the hinge is attached, set the hinge angle and secure with the 6mm hardware.

**Parts:**

- PB-3 : 2-way Cabinet Brackets (4)
- PH: Preassembled Hinges (2)

**Hardware:**

<table>
<thead>
<tr>
<th>Qty</th>
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<td>6 x 25 mm Hex Hd Bolts</td>
</tr>
<tr>
<td>4</td>
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<td>M6 Locknuts</td>
</tr>
<tr>
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<td>6mm Flat Washers</td>
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<tr>
<td>8</td>
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<td>8 x 30 mm Flat Hd Bolts</td>
</tr>
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<td>HN8</td>
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<td>HH1-12</td>
<td>10 x 120 mm Hex Hd Bolt</td>
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<td>HW1</td>
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</tr>
<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknuts</td>
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</tbody>
</table>

Some of the hardware listed above may be included in plate and hinge preassemblies.

**Kit Weight:** 15.0 lb (6.8 kg)

If attaching to a HSB or VSB kit, there will be (2) cabinet brackets (PB-3) and some hardware not used. If necessary, remove the flat head bolts pre-installed in the extra PB-3s and use on the middle cabinet.

**Figure 24-1.** 8mm flat head bolt positions in cabinet brackets by kit application. (*Lightly shaded outlined items are included in the HVS kit*) Brackets are shown in their orientation on the full-range cabinets.

**Figure 24-2.** Confirm bolt placement and thread bolts into cabinet brackets in locations as needed for your specific kit.
**6 ARRAY ACCESSORIES**

**HVS (continued)**

**Best practices:**

Orient hinges so that the nut securing the long bolt (hinge pivot) is at the bottom (direction of gravity) when mounted to a vertically oriented loudspeaker.

Horizontal arrays can be fully assembled on the ground or lifting surface. It is easier to assemble vertical arrays from the upper cabinet down, lifting each cabinet into position and then attaching the lower one to it. Smaller models can be assembled horizontally on the ground and then carefully lifted with proper support. Hinge angles should be set after each loudspeaker is secured to the upper cabinet.

---

**Figure 24-3.** Attach the cabinet brackets with installed bolts on each cabinet.

**Figure 24-4.** Remove the 6mm hardware from the hinges and connect the cabinets by attaching the hinge assemblies to the cabinet brackets. Reserve 6mm hardware to secure the splay angle after the cabinets have been connected.

**Triple horizontal full-range 2-way array can be accomplished two ways:**

- **HSB-BFR22 / HSB-SBR54 + (1) HVS kit**
- **BFR22V / SBR54 + (2) HVS kits.**

Remove (2) 8mm flat head bolts from the PP-2 (or PP-1) and thread them into the top of what will be the middle cabinet top bracket. Attach all cabinet brackets and mounting plates to the cabinets. Attach the hinges. Attach the rails and fully tighten all rail and cabinet connections. Set the angles on the hinges - they must be symmetrical to balance evenly.

The PP-2 will not be used, and there will be hardware and a few parts left over.
**6 ARRAY ACCESSORIES**

**HVS3 - Horizontal/Vertical Splay Bracket Extension Kit (3-way)**

**APPLICATION:** Add an additional enclosure to a full-range loudspeaker in a 3-way Horizontally or Vertically Splayed configuration.

**ASSEMBLY:**

This kit includes the (4) 8mm bolts that may need to be threaded into the adjacent full range cabinet’s corner brackets before they are attached to that cabinet. There are several configurations possible and the specific bolt locations in the cabinet brackets are shown below. Follow the instructions and general order of assembly accompanying the kit that you are adding the third cabinet to.

When attaching the hinges to the cabinet brackets it will be easier to remove the 6mm hardware and allow the hinge to move. After the hinge is attached, set the hinge angle and secure with the 6mm hardware.

---

**Parts:**

| PB-4 : 3-way Cabinet Brackets (4) | PH: Preassembled Hinges (2) |

---

**Hardware:**

<table>
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<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
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</thead>
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<tr>
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<td>6 x 25 mm Hex Hd Bolts</td>
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<tr>
<td>4</td>
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<td>M6 Locknuts</td>
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<tr>
<td>8</td>
<td>HW6</td>
<td>6mm Flat Washers</td>
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<tr>
<td>8</td>
<td>HF8-3</td>
<td>8 x 30 mm Flat Hd Bolts</td>
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<td>M8 Locknuts</td>
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<td>8mm Flat Washers</td>
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<td>8</td>
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<td>10 x 35 mm Flat Hd Bolts</td>
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<td>HH1-12</td>
<td>10 x 120 mm Hex Hd Bolt</td>
</tr>
<tr>
<td>4</td>
<td>HW1</td>
<td>10 mm Flat Washers</td>
</tr>
<tr>
<td>2</td>
<td>HN1</td>
<td>M10 Locknut</td>
</tr>
</tbody>
</table>

---

*Some of the hardware listed above may be included in plate and hinge preassemblies.*

**Kit Weight:** 22.0 lb (10.0 kg)

If attaching to a HSB3 or VSB3 kit, there will be (2) cabinet brackets (PB-4) and some hardware not used. If necessary, remove the flat head bolts pre-installed in the extra PB-4s and use on the middle cabinet.

---

**WARNING:** Do **NOT** exceed three (3) full-range cabinets in a single array. More than three will exceed the maximum safe working load.

---

**Figure 24-1.** 8mm flat head bolt positions in cabinet brackets by kit application. (*Lightly shaded outlined items are included in the HVS3 kit*)

Brackets are shown in their orientation on the full-range cabinets.

---

**Figure 24-2.** Confirm bolt placement and thread bolts into cabinet brackets in locations as needed for your specific kit.
Best practices:

Orient hinges so that the nut securing the long bolt (hinge pivot) is at the bottom (direction of gravity) when mounted to a vertically oriented loudspeaker.

Horizontal arrays can be fully assembled on the ground or lifting surface.

It is easier to assemble vertical arrays from the upper cabinet down, lifting each cabinet into position and then attaching the lower one to it. Hinge angles should be set after each loudspeaker is secured to the upper cabinet.

Figure 24-3. Attach the cabinet brackets with 4 installed bolts to the middle cabinet

Figure 24-4H (Horizontal Array). Remove the 6mm hardware and connect the hinge assemblies to the cabinet brackets (build from the inside-out)

Figure 24-4V (Vertical Array). Remove the 6mm hardware from the hinges and attaching the lower cabinet brackets to the hinge assemblies, and then to the cabinet brackets on the suspended cabinet (build from the top > down)

Figure 24-5H. Fully tighten all cabinet and hinge-to-bracket connections

Figure 24-5V (Vertical Array). Lift the cabinet up and attach it to the cabinet brackets - tighten all hinge and cabinet connections
6 ARRAY ACCESSORIES

HVS3 (continued)

6 Horizontal Array

**Figure 24-6V.** Adjust hinge to desired angle and reinsert the 6mm hardware

Snug tighten the 6mm connections until desired angle is confirmed, then fully tighten

6 Vertical Array

**Figure 24-6H.** Secure angle on hinges by reinserting the 6mm hardware removed earlier

Snug tighten the 6mm connections until desired angle is confirmed, then fully tighten

**Triple horizontal full-range 3-way array** can be accomplished in two ways:

- HSB3-BFR22 / HSB3-SBR54 + (1) HVS3 kit
- or BFR22V / SBR54 + (2) HVS3 kits.

Remove (2) 8mm flat head bolts from the PP-2 (or PP-1) and thread them into the top of what will be the middle cabinet top bracket. Attach all cabinet brackets and mounting plates to the cabinets. Attach the hinges. Attach the rails and fully tighten all rail and cabinet connections. Set the angles on the hinges - they must be symmetrical to balance evenly.

The PP-2 splay adapter plate will not be used, and there will be hardware and a few parts left over.

**Figure 24-7.** Fully tighten all connections
6 ARRAY ACCESSORIES

TPK - Tight Pack Kit

APPLICATION: Connect two like-sized subwoofers or loudspeakers that share common suspension points

ASSEMBLY:
Place two cabinets side by side (same orientation) and remove the applicable flat head bolts.

Place the mounting plates to tie the two cabinets together and thread the supplied flat head bolts through the plates and into the cabinets (Figure 17a). Fully tighten the connections without crushing any wood fibers. Repeat for other side.

Best Practices: If the mounting plate is on an edge, orient the plate so that the flat side is against the edge.

Parts:

- PP-1 Universal Mounting Plates (4)
- Gasket Material

Hardware:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>HF1-3</td>
<td>10 x 35 mm Flat Hd Bolts</td>
</tr>
</tbody>
</table>

Additional configuration:
(Horizontal orientation is suggested since there is only 1 connection per side):

IS6/8-212 SUB + IP6/8-1122 2-WAY

Figure 26-1. Cut and adhere (2) strips of gasket to the side of one subwoofer (spanning the height and spaced equidistant)

Figure 26-2. With the gasket sandwiched between the cabinets, attach the mounting plates to the cabinets - two to a side
7  PARTS - PLATES

UNIVERSAL MOUNTING PLATE  [PP-1]

HORIZONTAL SPLAY ADAPTER PLATE  [PP-2]

VERTICAL ARRAY PLATE  [PP-3]
7 | PARTS - BRACKETS (CONTINUED)

CABINET CORNER BRACKET (2-WAY) [PB-3]

Drilled / tapped / countersunk for 8mm flat head bolt (far side) 10 places

Drilled / tapped / countersunk for 10mm flat head bolt (far side) 1 place

CABINET CORNER BRACKET (3-WAY) [PB-4]

Drilled / tapped / countersunk for 8mm flat head bolt (near side) 4 places

Drilled / tapped / countersunk for 8mm flat head bolt (near side) 2 places

Drilled / tapped / countersunk for 10mm flat head bolt (near side) 1 place
7 PARTS - BALANCEPOINT™ FLY RAILS

22" BALANCEPOINT™ FLY RAILS [PR-1]

38" BALANCEPOINT™ FLY RAILS [PR-2]

54" BALANCEPOINT™ FLY RAILS [PR-3]
7 PARTS - U-BRACKETS

IUB1122 - U-BRACKET FOR IP6-1122 AND IP8-1122 MODELS (INDOOR)

IUB1152 - U-BRACKET FOR IP6-1152 AND IP8-1152 MODELS (INDOOR)
7 PARTS - U-BRACKETS (CONTINUED)

I SERIES

PARTS - U-BRACKETS

IUB1153 - U-BRACKET FOR IP8-1153 MODELS (INDOOR)

IUB1122WRG - U-BRACKET FOR WEATHER-RESISTANT IP6/8-1122 FULL RANGE MODELS AND IS6/8-212 SUBWOOFERS

DIMENSIONS SYMMETRICAL ABOUT CL
I SERIES

Accessory Guide

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7 PARTS - U-BRACKETS (CONTINUED)

IUB1152WRG - U-BRACKET FOR WEATHER-RESISTANT IP6-1152 AND IP8-1152 MODELS

IUB1153WRG - U-BRACKET FOR WEATHER-RESISTANT IP8-1153 FULL RANGE MODELS AND IS6/8-215 OR IS6/8218 SUBWOOFERS
7 PARTS - U-BRACKETS (CONTINUED)

**IUB0002WRG** - U-BRACKET FOR WEATHER-RESISTANT IP8-1151, IP8-0002, IS6/8-115 OR IS6/8-118 MODELS

**IUB112SWRG** - U-BRACKET FOR WEATHER-RESISTANT IS6/8-112 SUBWOOFERS
IVY1122 - VERTICAL YOKE FOR IP6-1122 AND IP8-1122 MODELS

IVY0002 - VERTICAL YOKE FOR IP8-0002 AND IP8-1151 MODELS
### Hole Pattern Note:
Hole pattern compatible with Chief CMA105 UL listed Ceiling mount adapter plates for use with the manufacturer's respective 1-1/2" NPT rigid pole mounting systems. See manufacturer's website for mounting details and limitations.
Some kits may be combined to create larger combinations. The kit weights are provided and the loudspeaker weight is on their spec sheets (available on the Community website (www.communitypro.com). Please also note that we recommend no more than three (3) full-range loudspeakers and two (2) subwoofers per combined assembly. More than this number will exceed the safe working load limit. An adequate number of hang points must also be chosen to avoid placing stress or possible torque on connections.

**IMPORTANT:** Please have a registered structural engineer review and approve any combined assemblies.

Some of the views shown below have two subwoofers attached to the rails. The same type of configuration can be made with just one (1) subwoofer.

---

**ADVANCED ARRAY CONFIGURATIONS**

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---

**HAB-BFR38 + SBR54**

2 x IP6/8-1122 and 3 x IS6/8-212

(substitutes the 54” rails for the 38”)

---

**HSB-SBR54 + HVS + TPK**

3 x IP6/8-1122 and 2 x IS6/8-212

---

**SBR54 + (2) HVS**

3 x IP6/8-1122 and 1 x IS6/8-212

---

**IAF40 + (2x)IVY1122 + SBR54**

2 x IP6/8-1122 and 2 x IS6/8-212

---

**IAF40 + (3x)IVY1122 + SBR54**

3 x IP6/8-1122 and 2 x IS6/8-212

---

**IAF40 + (2x)IUB1122 + SBR54**

2 x IP6/8-1122 and 2 x IS6/8-112

---

**IAF40 + (2x)IVY1122 + SBR54**

3 x IP6/8-1122 and 2 x IS6/8-212

---

**IAF40 + (2x)IUB1122 + SBR54**

2 x IP6/8-1122 and 2 x IS6/8-112

---

**Low Profile Option**

---
EXPANDED ARRAYS

Additional loudspeakers splayed vertically

Additional subwoofers behind arrays for cardioid or steered bass

Combine a subwoofer with any U-Bracket

Low Profile Option

**WARNING:** Do NOT exceed three (3) full-range cabinets and two (2) subwoofers in a single connected array. More will exceed the maximum safe working load.
## WARRANTY

All I SERIES mounting kits are covered by a limited warranty for a period of five (5) years. Please go to communitypro.com/warranty-statement for complete information.

## KIT WEIGHTS
(includes parts and hardware, no packaging)

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<th>kg</th>
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### LOUDSPEAKER WEIGHTS

#### INDOOR MODELS

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<th><strong>800 Level [lbs (kg)]</strong></th>
<th><strong>SUBWOOFER</strong></th>
<th><strong>600 Level [lbs (kg)]</strong></th>
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<td>IS6/8-118</td>
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#### OUTDOOR (WR) MODELS

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<th><strong>800 Level [lbs (kg)]</strong></th>
<th><strong>SUBWOOFER</strong></th>
<th><strong>600 Level [lbs (kg)]</strong></th>
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<td>IS6/8-112WR</td>
<td>53.0 (24.0)</td>
<td>47.0 (21.3)</td>
</tr>
<tr>
<td>IP6/8-1152WR</td>
<td>63.0 (28.6)</td>
<td>52.0 (23.6)</td>
<td>IS6/8-115WR</td>
<td>62.0 (28.1)</td>
<td>56.0 (25.4)</td>
</tr>
<tr>
<td>IP8-1153WR</td>
<td>-</td>
<td>80.0 (36.3)</td>
<td>IS6/8-118WR</td>
<td>75.0 (34.0)</td>
<td>76.0 (34.5)</td>
</tr>
<tr>
<td>IP8-0002WR</td>
<td>-</td>
<td>49.0 (22.2)</td>
<td>IS6/8-212WR</td>
<td>81.0 (36.7)</td>
<td>69.0 (31.3)</td>
</tr>
<tr>
<td>IP8-1151WR</td>
<td>-</td>
<td>40.0 (18.1)</td>
<td>IS6/8-215WR</td>
<td>98.0 (44.5)</td>
<td>86.0 (39.0)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IS6/8-218WR</td>
<td>131.0 (59.4)</td>
<td>133.0 (60.3)</td>
</tr>
</tbody>
</table>