**Black Widow® BWX**

1208-8sps BWX - 00560760
1208-4sps BWX - 00560780
1508-8sps BWX - 00560180
1508-4sps BWX - 00560140
1508-8cu BWX - 00560160
1508-8he BWX - 00560000

The 1508 and 1208 driver series represent a new level of power and performance for Black Widow loudspeakers. Power handling is increased by 40% over other comparable models, along with reduced distortion and higher overall sound quality.

The series includes 12" and 15" models in both 4 and 8 ohm impedances.

**DESIGN**

The BWX series uses a new cone that is a variation on the existing Kevlar® impregnated cones used on all Black Widows. The new cone is stronger and tougher, highly water resistant, and has a specially designed surround – a deep roll accordion design on the 15", and an innovative asymmetrical-M style on the 12" that improves mid range clarity. The dust cap is also made of the same extremely strong material.

Voice coil assemblies on the new drivers use the thermoset insulated aluminum or copper ribbon wire, bonded onto an incredibly durable, heat resistant polyimide composite former. The coil wires are solderless diffusion welded to high conductivity OFHC copper foil leads, which are embedded inside the former assembly and soldered to the tinsel leads with high temperature silver solder. The solder joint is then coated with a special thermally conductive silicone adhesive for encapsulation and heat dissipation.

The voice coil assembly is bonded to the Kevlar cone and new super tough nylon composite spider using a thermoset epoxy originally develop for attaching nose cones to ICBM missiles – truly an aerospace grade adhesive. The spider and surround are bonded to the frame with a high strength toughened adhesive.

The magnet structure includes subtle changes to its geometry that improve power handling. While it appears the same as the standard structure, and replacement basket from the BWX series will fit on standard BW magnet structures, the improved power handling will be compromised if the standard structure is used.

These new drivers also adhere to the familiar features of Black Widow products: cast aluminum frames, replaceable basket assemblies, Rubatex gaskets and high reliability, spring loaded terminals are all used.
APPLICATIONS

The 1508 and 1208 drivers are excellent choices for a wide range of sound reinforcement, high level playback, subwoofer, and monitor applications.

The 1508sps driver is an excellent choice for general purpose sound reinforcement, and is available in both 4 and 8 ohm versions. Enclosure size is reasonable and bass / mid-bass performance is strong. Its versatility includes sealed and bandpass enclosure designs.

The 1508cu produces amazing bass performance in small enclosures, along with flat mid-bass response for an accurate, clean sound quality.

The 1508he is best used as the bottom end of a full range enclosure. It has very high efficiency for superior output in the mid-bass and mid-range. However, for pure subwoofer applications, the 1508sps or 1508cu are better choices.

The 1208sps works well in sealed or vented enclosure designs, and its smooth, extended frequency response makes it an excellent mid-range performer. It is available in 4 and 8 ohm versions.

Because the 1208sps’s low frequency output is limited, it should be used along with a subwoofer when response below 60 Hz is needed. The best application for the 1208sps is in compact enclosures and very high quality mid-bass/mid-range reproduction at high sound pressure levels.

The 15” drivers can work with crossover points as high as 2.0 kHz but work best below 1.5 kHz. The 12” drivers are usable to 3.5 kHz but perform best below 2.5 kHz.

ENCLOSURES

To assist with the growing interest in home built enclosure designs, Peavey provides complete parameter data on these drivers, as well as several recommended enclosures for each model. This information and much more can be found at www.peavey.com.

The strength of the completed enclosure has a great effect on the bass performance of the finished system. Box panels that aren’t stiff enough will vibrate, canceling bass produced by the woofer and creating undesired sounds of their own. If your box vibrates or you don’t think the box panels are stiff enough, add more bracing.

Vents used in the examples require standard Schedule 40 PVC pipe for vent construction. The pipe should be dadoed tightly into the back of the baffle and glued firmly in place with high quality epoxy or high strength, industrial grade hot glue. Rough up the outside of the pipe to improve the glue bond.

Be sure to account for the displacement of the vent, bracing, horn (if used) and woofer or your enclosure before building it or it will be smaller than its intended volume. This can reduce bass output and mis-tune the enclosure.

Line the inside of the enclosure with polyester fiber batting such as quilt stuffing. The batting material should conform to California bedding fire codes. Attach the batting with spray adhesive or staples and keep material away from the end of the vent tube where it can be pulled in by air flow. Handles, protective corners, cabinet covering, grille materials and cross-overs are available through Peavey Accessories.

When building a bandpass enclosure, design a panel or door to be removable for access to the woofer. Use foam weather-strips to seal the panel along with enough screws and bracing to prevent leaks and buzzes. Fill the sealed volume loosely with polyester fiber, but leave the vented volume empty. Place the magnet of the woofer in the vented side for improved cooling.

Peavey does not supply hardware required for the manufacturing of flying systems, and recommends that builders should not suspend or fly any enclosure not certified for such applications.

These instructions are a general guideline for design. Proper construction techniques, good planning and common sense will result in a reliable, high quality, high performance system.

Peavey in no way accepts liability for any damage, accidents or injury that may result from construction or use of enclosure using this information.

Due to Peavey’s continuing efforts to improve its products, features and specifications are subject to change without notice.

PARAMETERS

Thiele-Small parameters for Black Widow® 1208 and 1508 drivers follow. This data is for use in designing enclosures. Numerous software packages are available that use this data to simulate the response of the driver and enclosure together for optimum performance in any application.

PARAMETER DEFINITIONS

Znom: The nominal impedance of the driver in Ohms.
Revc: DC resistance of the driver in ohms, also known as Re.
Sd: The functional radiating surface area of the cone assembly in meters 2.
BL: Efficiency of the voice coil and magnet system in Tesla meters.
Fo: Free air resonance. Also known as Fs.
Vas: Volume of air having the same compliance (springiness) as the driver’s suspension.

Cms: Restorative force of the driver’s suspension in micrometers/Newton.
Mms: The total mass of the moving parts of the loudspeaker, including the air load, in grams.
Qms: Resonance characteristics of the mechanical factors of the loudspeaker.
Qes: Resonance characteristics of electrical factors of the loudspeaker.
Qts: Resonance characteristics of the electrical and mechanical factors combined together.
Xmax: Distance the cone can move in one direction before the coil begins to leave the magnetic gap.

Le: Inductance of the voice coil in millihenries.
SPL: Typical sound pressure level at 1 watt, 1 meter.
no: Electrical to acoustical conversion efficiency in percent.
Vd: Air displacement of the driver from negative Xmax to positive Xmax.
Pmax: Maximum continuous program power in watts.
Disp: Volume displaced by the driver inside the cabinet when mounted on its rear flange.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name:</th>
<th>1508-8 sps</th>
<th>1508-8sp-4</th>
<th>1508-8cu</th>
<th>1508-8he</th>
<th>1208-8 sps</th>
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<td>Depth 4 31/32&quot;</td>
<td>Depth 4 31/32&quot;</td>
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<td>100.3 dB 1 Watt/1 meter</td>
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<td>Kevlar&lt;sup&gt;®&lt;/sup&gt; impregnated cellulose</td>
<td>Kevlar&lt;sup&gt;®&lt;/sup&gt; impregnated cellulose</td>
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## DRIVER PARAMETERS

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<tr>
<td>Disp in 3 / ml</td>
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<td>197 / 3229</td>
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</table>
SUGGESTED ENCLOSURES

For those who want to build their own enclosures but don’t want to go through the design process using driver parameters, Peavey provides the following optimized designs:

For 1508-4/8sps:
1. Small Vented Box
Excellent performance of compact, general purpose use. Warm mid-bass response.
F3 is 51 Hz
2. Medium Vented Box
Terrific compromise of bass performance and enclosure size. Warm mid-bass response.
F3 is 45 Hz
3. Large Vented Box
Big box, big bass! Great as a subwoofer or the bottom end of a large multi-way enclosure design. F3 is 41 Hz
4. Single Reflex Bandpass enclosure
Special enclosure design that uses the enclosure as an acoustic filter for shaped response. Great choice for a compact subwoofer system. Response is 48 Hz – 138 Hz
5. Sealed Box
May be preferred for stage monitors to control boominess and low frequency feedback on stage. F3 is 73 Hz

For 1508-8cu:
1. Small Vented Box
An incredibly small enclosure with outstanding bass performance for its size. F3 is 53 Hz
2. Medium Vented Box
Small box with powerful bass and predictable, flat response down to an F3 is 45 Hz
3. Large Vented Box
Strong, flat response with bass extension to an F3 is 41 Hz. Deep, predictable bass quality for great subwoofer and multi-way system performance.

For 1508-8he:
1. Small Vented Box
Small box, big voice. Very high efficiency and good bass performance in a small enclosure.
F3 is 60 Hz
2. Medium Vented Box
Super-high efficiency in a popular enclosure size. F3 is 55 Hz. Great choice for use in a full range system.
3. Large Vented Box
Big and loud! Super efficiency and strong bass performance to an F3 is 50 Hz. However, for subwoofer only use the sps and cu versions which are better performers.

For 1208-4/8sps:
1. Small Vented Box
Very small system with excellent voice range performance. Great choice as the mid-range of a sub/satellite system. F3 is 79 Hz. Also good for use in a stage monitor.
2. Sealed Box
Excellent choice for a dedicated mid-bass/mid-range in a multiway system, or stage monitor.
F3 is 105 Hz
3. Large Vented Box
Still not all that large, with very usable bass response. Great for a compact, 2-way box.
F3 is 61 Hz.
FOR 1508sps:
Small vented enclosure
- 1508sps small vented box
- 1508sps medium vented box
- 1508sps large vented box
- 1508sps single vented bandpass

FOR 1508-8cu:
Large vented enclosure
1508-8cu small vented box
1508-8cu medium vented box
1508-8cu large vented box

FOR 1508he:
Small vented enclosure
- 1508he small vented box
- 1508he medium vented box
- 1508he large vented box

FOR 1208sps:
Small vented enclosure
1208sps small vented box
1208sps medium vented box
1208sps large vented box

SUGGESTED ENCLOSURES:
- Small box with powerful bass and predictable, flat response down to an F3 of 45 Hz.
- Excellent choice for a dedicated mid-bass/mid-range in a multiway system, or stage monitor. F3 is 105 Hz.
- Super-high efficiency in a popular enclosure size. F3 is 55 Hz. Great choice for use in a full-range system.
- Still not all that large, with very usable bass response. Great for a compact, 2-way box. F3 is 61 Hz.
- Net weight: 17 lbs. / 7.7 kg 17 lbs. / 7.7 kg 17 lbs. / 7.7 kg 17 lbs. / 7.7 kg 16 lbs. / 7.3 kg 16 lbs. / 7.3 kg

Accessories.

Peavey in no way accepts liability for any damage, accidents or injury that may occur.

Rubatex® is a registered trademark of DuPont.

When building a bandpass enclosure, the total mass of the moving system is what matters. The looser the cone, the less effective it will be.

Accessories.

The 15” drivers can work with crossover systems, and recommends that builders check with Peavey for crossover suggestions.

When building a bandpass enclosure, the total mass of the moving system is what matters. The looser the cone, the less effective it will be.

Accessories.

The 1508he is best used as the bottom box in small vented box designs, and its very high quality mid-bass/mid-range drivers as well as several pure subwoofer applications, the 1508sps are better choices.

The Widow® 1208 and 1508 drivers follow.

These instructions are a general recommendation for the manufacture and installation of loudspeaker enclosures. If construction plywood must be used, inspect each sheet thoroughly for defects.

Particle board and MDF enclosures can be used, inspect each sheet thoroughly for defects.

The 1508-8cu is available that use this data to provide complete parameter data on home-built enclosure designs, Peavey

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<table>
<thead>
<tr>
<th>ENCLOSURE</th>
<th>NET VOLUME</th>
<th>VENT DIAMETER</th>
<th>VENT LENGTH</th>
<th>Vb BOX TUNING</th>
<th>F3, -3 Db</th>
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<tr>
<td></td>
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<td>(qty) inches/mm</td>
<td>inches/mm</td>
<td>frequency in Hz</td>
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<td>1508 SPS</td>
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<td>n/a</td>
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<td>45</td>
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<td>0.65 / 18.4</td>
<td>n/a</td>
<td>n/a</td>
<td>106 (resonance)</td>
<td>105</td>
</tr>
<tr>
<td>Small vented box</td>
<td>0.8 / 22.6</td>
<td>(1) 4&quot; / 102</td>
<td>4 1/2&quot; / 114</td>
<td>70</td>
<td>79</td>
</tr>
<tr>
<td>Large vented box</td>
<td>1.4 / 39.6</td>
<td>(2) 4&quot; / 102</td>
<td>1 7/8&quot;</td>
<td>65</td>
<td>61</td>
</tr>
</tbody>
</table>

**Diagrams:**

- **Sealed**
- **Vented**
- **Single Reflex Bandpath**
Peavey BWX® speakers feature convenient field-replaceable baskets. Replaceable baskets eliminate the need for re-coning speakers and the frustration and delays associated with the re-coning process. It only takes a few minutes to replace a basket and you are back in business. It just can’t get any easier than the four steps outlined here.

**Baskets are replaced in four easy steps:**

1. Remove three screws on back of magnet structure.
2. Lift the magnet structure off the basket frame.
3. Clean the voice coil “gap”.
4. Align screw holes, lower structure into place on new basket frame, insert screws and tighten.
ONE YEAR LIMITED WARRANTY

NOTE: For details, refer to the warranty statement. Copies of this statement may be obtained online at www.peavey.com.

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Features and specifications subject to change without notice.

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