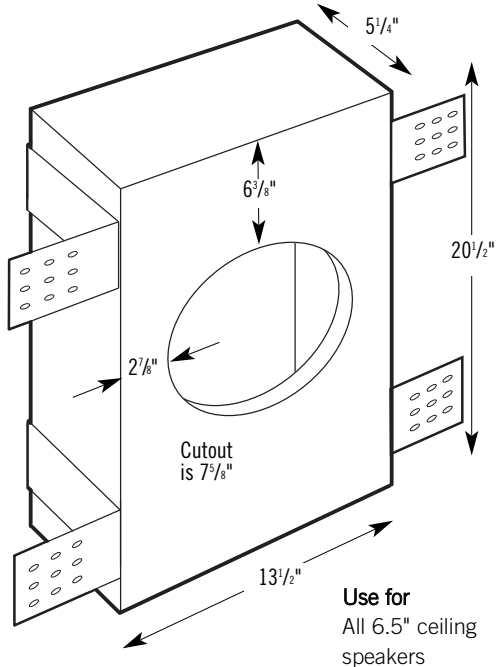


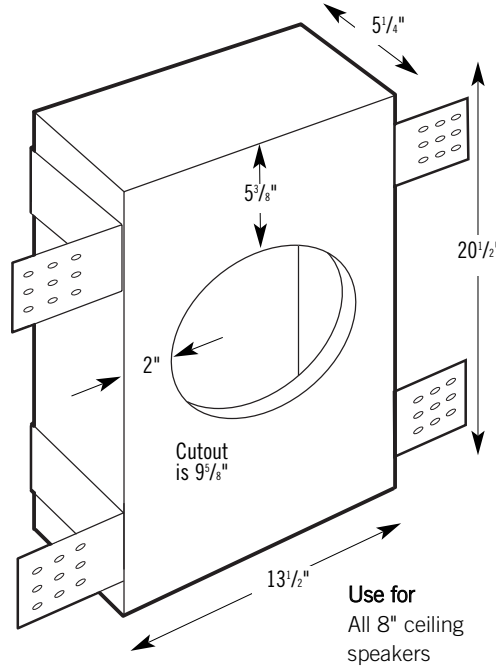
In-Ceiling Back Boxes

Updated November 2005

Box65



Box85



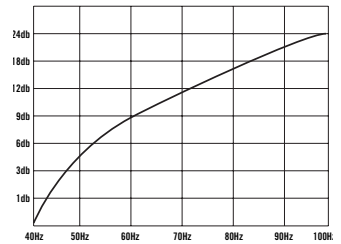
Back Box Construction

Back boxes are 1/2" MDF. They include damping material and 4 metal brackets.

Benefits

Bay Audio back boxes reduce bleed-through in adjoining rooms by up to 9dB in the frequency range above 60Hz.

Typical sound dampening as a function of frequency.



Custom Boxes

We can build custom back boxes for any speaker. Call for details.

Volume Considerations

Build your own backboxes following these internal volume considerations.

Box60/Box60c 1,336 cu. inches

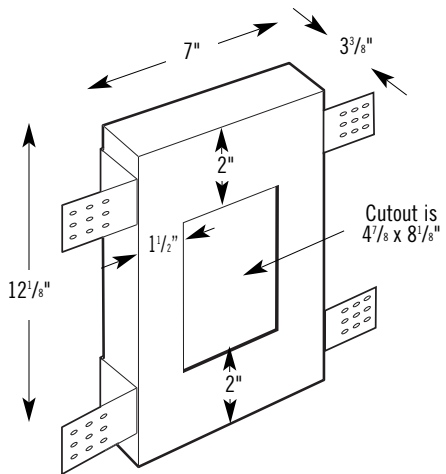
Box70 1,989 cu. inches

Box65/Box85 1,036 cu. inches

In-Wall Back Boxes

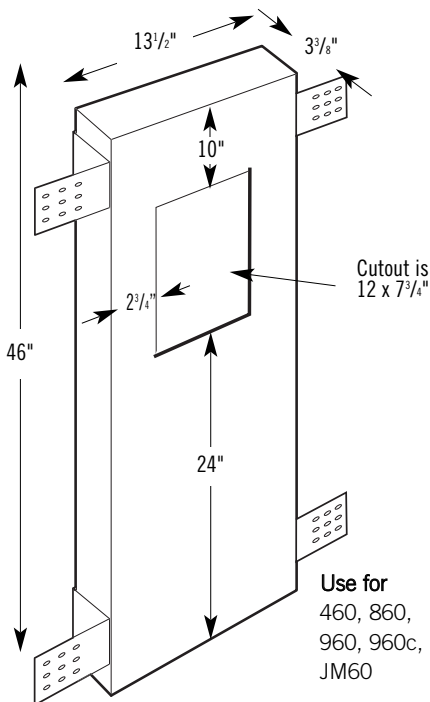
Updated December 2007

Box40



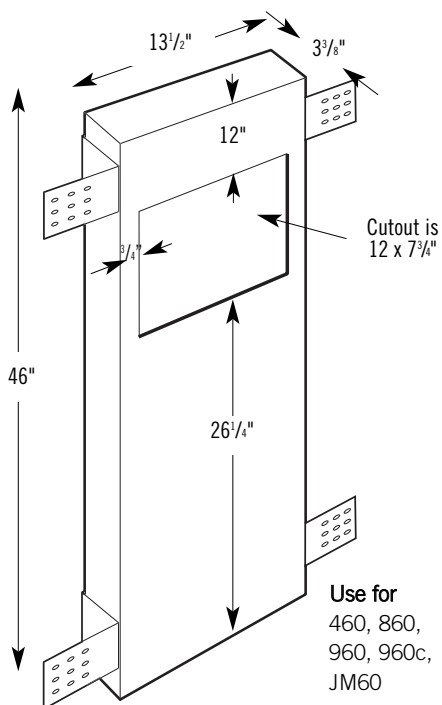
Use for
940, JM40

Box60



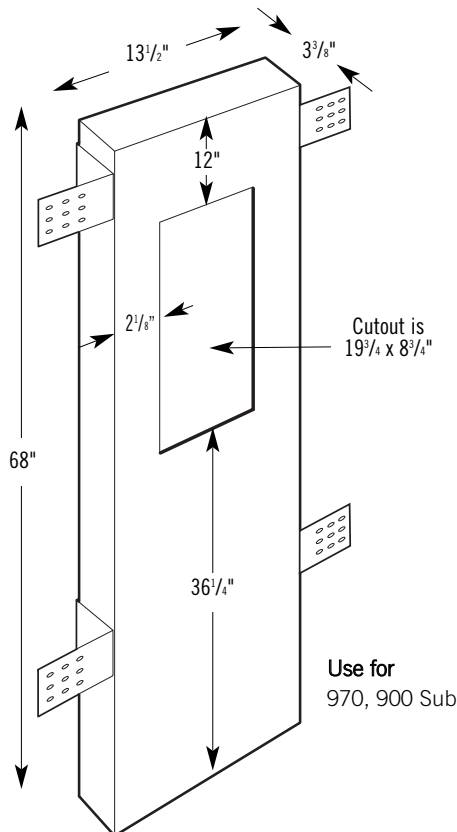
Use for
460, 860,
960, 960c,
JM60

Box60c



Use for
460, 860,
960, 960c,
JM60

Box70



Use for
970, 900 Sub

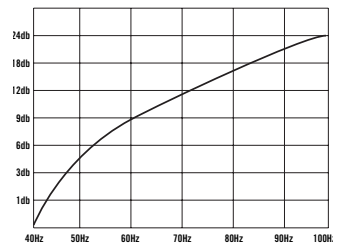
Back Box Construction

Back boxes are 1/2" MDF. They include damping material and 4 metal brackets.

Benefits

Bay Audio back boxes reduce bleed-through in adjoining rooms by up to 9dB in the frequency range above 60Hz.

Typical sound dampening as a function of frequency.



Custom Boxes

We can build custom back boxes for any speaker. Call for details.

Volume Considerations

Build your own backboxes following these internal volume considerations.

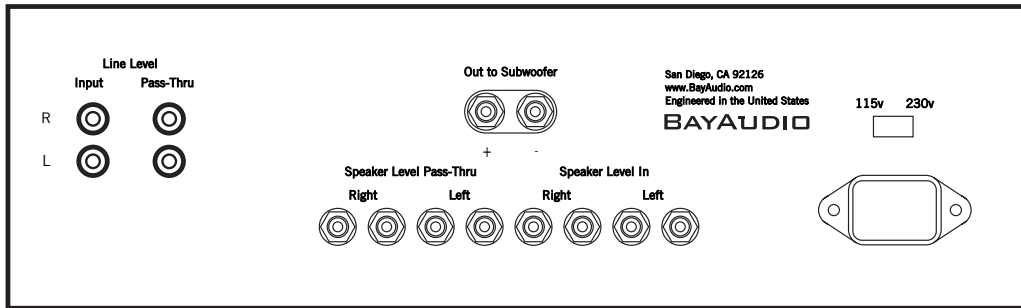
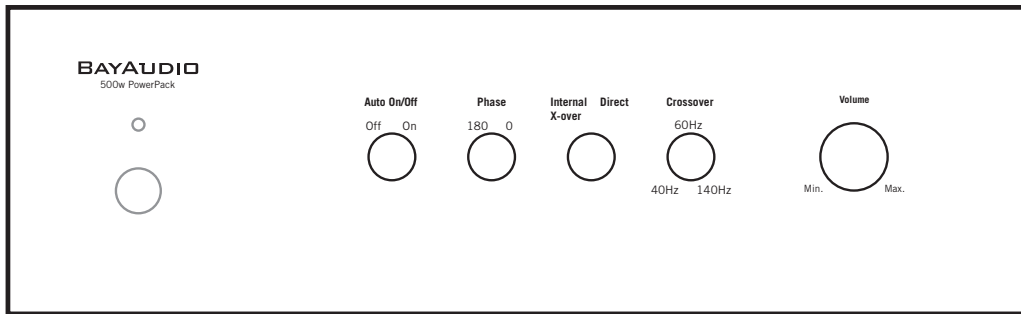
Box40 165 cu. inches

Box60/Box60c 1,336 cu. inches

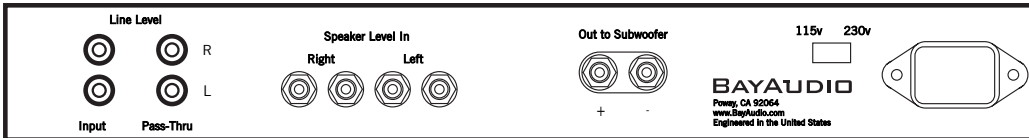
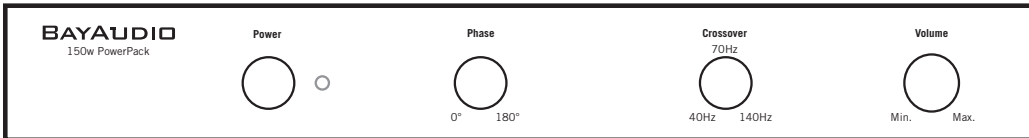
Box70 1,989 cu. inches

Box65/Box85 1,036 cu. inches

500w PowerPack Front and Back



150w PowerPack Front and Back



Crossover Considerations

Speaker	Crossover Point
500 Series	80 Hz
800/900 Series	80 Hz
JM Ceiling Speakers	70 Hz
JM In-Wall Speakers	70 Hz
Cube Speakers	70 Hz
JAM Speakers	60 Hz

500w PowerPack

500 watt digital hybrid rack-mountable (3 rack height) amplifier with integrated electronic crossover. Stable to 2 ohms.

Dimensions (HxWxD)

5-3/4 x 19 x 14-1/2"

Three rack spaces

Controls

Gain, Low-pass, Phase, On/Off

Current Draw

4.8 amperes

Connections

Line level in (and through), speaker level in. Removable power cord

Weight

26 lbs each

150w PowerPack

150 watt digital hybrid rack-mountable (single rack height) amplifier with integrated electronic crossover. Stable to 4 ohms.

Dimensions (HxWxD)

1-3/4 x 19 x 14-1/2"

One rack space

Controls

Gain, Low-pass, Variable Phase, On/Off

Current Draw

1.5 amperes

Connections

Line level in (and through), speaker level in. Removable power cord

Weight

17 lbs each

Line Level Connections

Pass Thru

A pass-through is included for flexibility and convenience when wiring. There is no filtering on the Pass Thru.

Line In: Mono (Use a Y connector)

Use a Y-connector into the amplifier from your mono source.

Line In: Stereo

Connect left and right out from your preamplifier.

Speaker Level Connections

Use Speaker Level In when connecting the subwoofer in parallel with a receiver that does not have a fully controllable Line Level Subwoofer Out. Some receivers have a fixed low-pass filter (typically at 80Hz) for Subwoofer Out. Avoid using Subwoofer Out in these cases — the fixed filter will not give you the flexibility you need to set the optimal crossover point for the subwoofer. In this case, run a parallel speaker level connection from the receiver's left and center into the PowerPack's Speaker In. An internal summing circuit in the PowerPack adds the bass from both channels into the subwoofer. Typically, directors feed left and right channels identical bass information. The center channel is fed its own information. By paralleling the left and center, you will get bass from all three channels.

On/Off Switch

The PowerPacks have an On or Off setting for the power switch. There is no need for an Auto On/Off switch, which tends to be problematic in the field, because the digital amplifier draws very little power when not in use.

Phase

Phase is variable from 0° to 360°.

Frequency

The low pass filter can be set from 40Hz to 200Hz. The filter uses a 24dB/octave slope.

Level

Volume control.

Power

The Power light is green when On.

Fuse

The fuse is located in a compartment below the power cord input. A spare fuse is included.

Setting Phase

The PowerPacks features variable phase so you can match the phase of the subwoofer with your mains. The simplest way to set phase is to use a Real Time Analyzer (for example, the Sencore SP295C). Adjust the phase of the subwoofer until you achieve the smoothest frequency response. **The easiest way to accurately set phase is by ear.**