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## Crossover Frequency Adjustment

You can adjust the crossover frequency of the AVC-2500 to accommodate the frequency response of virtually any home theater speaker system. This feature lets you use the crossover built in to your subwoofer if it is not defeatable. You can also adjust the crossover frequency to extend the low frequency response of your main speakers and let the subwoofer reproduce only the very lowest frequencies. There are four possible crossover settings: ***The number on the left represents the low-pass frequency (the highest frequency the sub reproduces before starting to roll-off); The number on the right represents the high-pass frequency (the lowest frequency the L, C, R, LS, RS reproduces before starting to roll-off).***

### 80 Hz/80 Hz

At this setting, high frequencies are rolled off at 24 dB per octave above 80 Hz for the subwoofer; low frequencies are rolled off at 12 dB per octave below 80 Hz for all other speakers set to **SMALL/THX**. This is the default setting and is recommended for all THX-certified speaker systems.

### 1K Hz/80 Hz

Use this setting if you want to use the crossover in your powered subwoofer. With this setting, high frequencies are rolled off at 24 dB per octave above 1 kHz for the subwoofer; low frequencies are rolled off at 12 dB per octave below 80 Hz for all other speakers set to **SMALL/THX**. Advancing the low pass filter frequency up to 1 kHz eliminates “double filtering” caused by engaging two low-pass crossovers operating in the same range

### 40 Hz/40 Hz

At this setting, high frequencies are rolled off at 24 dB per octave above 40 Hz for the subwoofer; low frequencies are rolled off at 12 dB per octave below 40 Hz for all other speakers set to **SMALL/THX**. Use this setting only if you are certain that your other speakers can reach 40 Hz without distortion or damage.

### 1 kHz/40 Hz

At this setting, high frequencies are rolled off at 24 dB per octave above 1 kHz for the subwoofer; low frequencies are rolled off at 12 dB per octave below 40 Hz for all other speakers set to **SMALL/THX**. Use this setting if you want to use the crossover in your powered subwoofer and only if you are certain that your other speakers can reach 40 Hz without distortion or damage.

### To Set the Crossover Frequency:

1. If you are not already in the Bass Management menu, follow steps 1 and 2 from above.
2. Press the *Tune* ◀ or ▶ buttons until **CROSSOVER** and **80Hz/80Hz** appear in the displays.
3. Press the *Volume* ▲ or ▼ button to change the crossover frequencies to the desired setting.

### Reinforced Bass:

With the Reinforced Bass feature set to the default OFF position, low frequencies below the crossover point from the L, C, R, LS, RS channels are routed to the subwoofer only if they are set to **SMALL/THX**. With the Reinforced Bass feature set to the ON position, low frequencies below the crossover point of the L, C, R, LS, RS channels are duplicated and simultaneously routed to the subwoofer even if the other speakers are set to **LARGE**.

### To Set Reinforced Bass:

1. If you are not already in the Bass Management menu, follow steps 1 and 2 from above.
2. Press the *Tune* ◀ or ▶ buttons until **REINFORCED BASS** and **NO** appear in the displays.
3. Press the *Volume* ▲ or ▼ button to select **YES** or **NO**.

