

## Setting the Crossover and Input Sensitivity

**IMPORTANT:** If you plan to use the amplifier to drive full-range speakers, then, set the crossover-mode switch to “FLAT,” and skip to the “Setting Input Sensitivity” section.

### SETTING THE CROSSOVER

1. Depending on your system plan, set the amplifier’s crossover-mode switch to “LP” (low pass) or “HP” (high pass). Some JBL® and Infinity® amplifiers are low-pass amplifiers only, designed to drive subwoofers. No crossover switch is provided.
2. The crossover slope has two settings: 12 (dB per octave) or 24 (dB per octave). Select the slope that best suits your taste, but consider that a steeper low-pass filter will make the subwoofer’s sound less directional (since more midrange will be filtered from the signal). A steeper high-pass filter will reduce a small speaker’s unnecessary cone excursion at the lowest frequencies, which will increase power handling and reduce distortion.
3. Set the amplifiers HP-Freq control to allow the speakers to make as much bass as possible while minimizing distortion caused by small speakers trying to reproduce the lowest frequencies. The best setting is one where the speakers produce crisp, clear impact without being overdriven.
4. Set the amplifiers LP-Freq control so vocal information is not reproduced by the subwoofers, and the subwoofers’ sound blends with the sound of the midrange speakers without any missing information.

**NOTE:** The crossover can be set to any frequency between 32Hz and 320Hz.

### SETTING INPUT SENSITIVITY

There are several methods of properly adjusting the sensitivity (or gain) setting on an amplifier. The goal is to achieve the maximum clean output that the amp is capable of delivering. The following steps are an overview, requiring no additional test equipment:

1. Turn the input-level control on the amp to minimum (fully counter-clockwise).
2. Play your favorite music, and turn up the source unit’s volume control until:
  - You hear distortion on the speakers connected to the amp (this can happen even with low output), or
  - You reach about 3/4 volume setting.
3. When you begin to hear distortion, you have exceeded the maximum setting for the volume control on the receiver. Turn the volume down slightly until the distortion is eliminated. This is the highest clean signal available from the receiver.
4. Now you can turn up the input level on the amp to a comfortable volume. If you begin to hear distortion, turn the input level down slightly.

**NOTE:** You can use the supplied remote level control to adjust the level of the bass, according to the program material after the amplifier’s level control has been set properly.

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