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**KBX  
OWNER'S REFERENCE**

## INTRODUCTION

Thank you for your purchase of the Krell KBX crossover. The KBX is a fully balanced/single-ended 2-way crossover, or one channel of a fully balanced/single-ended monaural 3-way crossover. The KBX is fully capable to meet the demands of any bi-amp or tri-amp slope or network.

In the unlikely event that your KBX requires service, you will be pleased to know that it is backed by a comprehensive Customer Satisfaction policy and one of the most advanced service facilities in the industry. For detailed information on the terms and conditions of service please consult your warranty registration card, your authorized KRELL Dealer or Distributor.

## CROSSOVER INFORMATION

This KBX crossover is set up to work within the following specifications:

Type of operation:

Stereo 2-way, Monaural 2-way, Monaural 3-way \_\_\_\_\_

1st cutoff frequency in Hz \_\_\_\_\_

Slope in dB per octave \_\_\_\_\_

2nd cutoff frequency in Hz \_\_\_\_\_

Slope in dB per octave \_\_\_\_\_

Setup for the \_\_\_\_\_ loudspeaker.

## INPUT AND OUTPUT CONNECTIONS

### STEREO 2-WAY

1. Connect the output of your preamplifier to the left and right inputs of the KBX. The KBX accepts either single-ended cables via RCA connectors or balanced cables via XLR connectors.
2. Connect the left and right LOW outputs of the KBX to the appropriate inputs of the low frequency woofer amplifier.
3. Connect the left and right HIGH outputs of the KBX to the appropriate inputs of the Midrange/Tweeter amplifier.

### MONAURAL 2-WAY

1. Connect the output of your preamplifier to the left channel input of each KBX. The right channel input will not be functional in Mono.
2. Connect the left channel mono LOW output of each KBX to the appropriate left or right channel input of the low frequency or woofer amplifier. The right channel low output will not be functional.
3. Connect the Right channel mono HIGH output of each KBX to the appropriate left or right channel input of the Midrange/Tweeter amplifier. The left channel high output will not be functional.

### MONAURAL 3-WAY

1. Connect the output of your preamplifier to the left channel mono input of each KBX. The right channel input will not be functional in mono.
2. Connect the left channel mono LOW output of each KBX to the appropriate left or right channel input of the low frequency woofer amplifier.
3. Connect the right channel mono LOW output of each KBX to the appropriate left or right channel input of the Midrange amplifier.
4. Connect the Right channel mono HIGH output of each KBX to the appropriate left or right channel input of the Tweeter amplifier.

## BASIC OPERATION

The controls on the KBX give you the ability to adjust the sonic balance between speaker sections. This enables you to control the parameters of the sonic presentation.

### STEREO OPERATION or MONAURAL 2-WAY

The Low control on the front panel attenuates low frequency information coming out of the KBX.

The High control attenuates high frequency information coming out of the KBX.

The Mid control on the front panel in stereo 2-way or monaural 2-way operation is an attenuator for the incoming signal from the preamplifier.

### MONAURAL 3-WAY OPERATION

The Low knob on the front panel attenuates the low frequency information coming out of the KBX.

The Middle knob on the front panel attenuates the Midrange frequency information coming out of the KBX.

The High knob on the front panel attenuates the High frequency information coming out of the KBX.

3. The KBX can utilize either single-ended or balanced interconnection. Gain matching can be accomplished for individual system installations internally. Upon ordering these parameters were already established but if changes in the system occur and other crossover specifications are necessary please contact Krell Industries.

## **SPECIFICATIONS**

All specifications are for each individual cross over stage:

**SYSTEM GAIN:** 4dB

**SIGNAL-TO-NOISE RATIO:** -90dB

**THD @ 1K:** less than 0.01%

@ 20K: less than 0.01%

**INPUT IMPEDANCE:** 47,000 ohms(47K)

**OUTPUT IMPEDANCE:** 10 ohms

**MAX OUTPUT VOLTAGE:** 17 volts peak to peak

### **DIMENSIONS:**

19.0" WIDE

15.0" DEEP

2.63" HIGH with feet

**WEIGHT, BOXED:** 31 POUNDS

### **REAR PANEL DESCRIPTIONS**

#### **INPUTS;LEFT AND RIGHT:**

Balanced via 3 pin XLR connector

Single ended via RCA connector

#### **XLR PIN CONFIGURATION**

pin 1 Shield (ground)

pin 2 Non-inverting or 0 degrees (hot)

pin 3 Inverting or 180 degrees

**OUTPUT STEREO:** LOW and HIGH LEFT and RIGHT

**OUTPUT MONAURAL:** LOW, MID and HIGH LEFT and RIGHT

Balanced via 3 pin XLR connector

Single ended via RCA connector

**OTHER:** Standard AC receptacle

**OPTIONS:** Networks and configurations  
Monaural operation

## WARRANTY AND SERVICE INFORMATION

There are no user-serviceable parts inside the KBX. The KBX has a limited warranty of five years parts and labor. Return freight is included in the warranty. The warranty period begins on the date of purchase and is activated with the return of the enclosed Warranty Card and a copy of the Sales receipt. Please return the Warranty Card immediately after successful installation and operation are completed.

The warranty for KRELL products is valid only in the country to which they were originally shipped and at the factory. If you think there are problems with your unit, please contact your dealer, distributor or the factory immediately.

The operating voltage of this unit is determined by the factory and can only be changed by an authorized KRELL distributor or the KRELL factory. Any unauthorized voltage conversion will void the warranty. Should the operating voltage of your KBX require changing, contact KRELL Industries.

Please do not return any unit to KRELL for repair without first calling to discuss the problem and to obtain a Return Authorization number. Freight to the factory or distributor is your responsibility. Return freight to you will be paid by the factory or distributor. Any unauthorized disassembly, updates or modifications performed to the unit will void the warranty.