

Specifications for the 4000 Piezo Buffer Preamp

Input Interface = 1/4" Unbalanced
Input Impedance = 2.2 Meg Ohms
Maximum Input Level = 2.0 vrms

Monitor Output

Output Interface = 1/4" Unbalanced
Output Impedance = 2K Ohms
THD = .005% @ 1kHz
Noise = -102dBu
S/N = 110dBu
Frequency Response = 5Hz - 30kHz (+/- 1 dB)

Main Output (0dB Setting)

Output Interface = XLR Balanced
Output Impedance = 1K Ohms
THD = .005% @ 1kHz
Noise = -105dBu
S/N = 108dB
Frequency Response = 5Hz - 30kHz (+/- 1dB)

Power Supply

48V Phantom Power • Pin #2 is Hot
Power Source = 9 Volts @ 380 Microamps
Battery Life = Approximately 1,000 hours

Made In The U.S.A.

This Barcus-Berry product is designed to satisfy the most rigorous demands of the professional musician and the precision manufacturing techniques employed provide assurance of long continued, trouble-free service. For outstanding performance and dependability, you can always rely upon BARCUS-BERRY— the world's leading name in musical instrument transducers, pickups and microphones.

Limited Warranty

This Barcus-Berry product is warranted for a period of one (1) year from the date of purchase against defects in workmanship and parts.

Caution: Avoid placing strain on the output cable when removing the transducer; any damage which this shielded wire may sustain from undue rough handling will invalidate the product warranty.

BARCUS-BERRY®

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Planar Wave System

INSTALLATION INSTRUCTIONS

for

ACOUSTIC PIANO & HARP

model no.

4000

BARCUS-BERRY®

True Expression

Congratulations on your purchase of the Barcus-Berry Planar Wave System

The Planar Wave Piano and Harp System represents a significant breakthrough in transducer technology. The sensor employed is essentially non-responsive to those vibrations which are normal to the major surface planes of the instrument soundboard. It is, however, highly sensitive to transverse energy waves traveling in the plane defined by the soundboard and is thus able to provide full-spectrum frequency response and perfect amplitude balance across the entire instrument while achieving an excellent degree of isolation from ambient sounds together with outstanding feedback rejection. The system can be quickly and easily installed on any piano or harp and can be just as simply removed without leaving any visible evidence of its use. No tools are required for installation.

Important

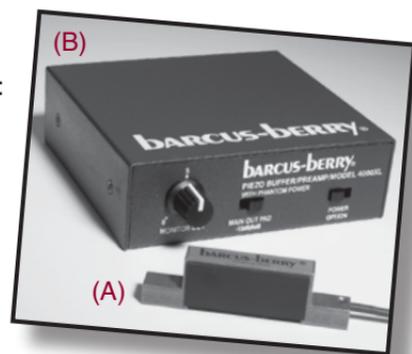
Before you begin, please check within the box to insure that it contains the following items:

- (A) •One (1) Barcus-Berry Planar Wave sensor.
- (B) •One (1) Barcus-Berry Piezo Buffer Preamp.
- Adhesive patches for transducer installation.
- One set of rubber feet (four each).
- Installation Instructions for Model 4000.

If any of these items are found to be damaged or missing, immediately contact the Barcus-Berry dealer from whom the unit was purchased.

Installation

For a piano, the transducer should be attached to the soundboard as indicated in Figure 1 for grand pianos and Figure 2 for uprights. For harps, the transducer should be attached to the face of the soundboard, for convenience, preferably near the base. To assure proper bonding of the transducer mounting adhesive, it is strongly recommended that the area selected for attachment of the transducer be cleaned to remove any surface dust or oily film which may have accumulated.



When you are ready to make the installation:

1. Remove the protective paper covering from each foot of the transducer to expose the adhesive film applied at the factory. Select the location desired for attachment, then firmly press both feet of the sensor onto the soundboard, normally around the middle C note.
2. Position the preamp near the keyboard at any convenient location within reach of the transducer cable and plug the transducer into the input jack on the rear panel.
3. Connect the Hi-Z and/or Lo-Z output of preamp to any appropriate amplifier or console input.
4. Move the power switch on the front panel of the preamp to the "ON" position and the system will be operational.

Special notes on installation and removal...

The pressure-sensitive material used for attaching the transducer feet to the soundboard is a special, high-performance adhesive. This adhesive must be replaced each time the transducer is removed. An initial supply of pre-cut adhesive patches is furnished with this system.

CAUTION: Do not attempt to employ alternative methods for attaching the transducer. The means of attachment specified above is critical for achieving optimized performance with this system.

Additional adhesives are available. To order, please contact the Barcus-Berry dealer from whom the unit was purchased.

When removing the transducer, simply apply sidewise pressure to the crossbar section above each leg until the feet of the sensor detach from the soundboard. Any adhesive residue which may remain on the soundboard and/or on the feet of the transducer after detachment can be quickly removed by simply rubbing the surface with your thumb or fingers.

IMPORTANT: When using this system with a grand piano, we strongly recommend that the lid of the piano be raised while the system is in use. Even with the lid open at full stick, there will be no feedback problems or bleed from ambient sounds, and the performance of the Planar Wave Piano System will be enhanced by having the lid up.

This pickup can operate on phantom power provided by a mixing board or on a 9-volt battery. To replace the 9-volt battery in the preamp, remove the screws which secure the cover at each end of the unit and slide the cover away from the chassis. This will permit easy access to the battery. Under average conditions of use, battery life expectancy is at least 1,000 hours.

