



VK-220

WARRANTY REGISTRATION FORM

Unit Serial Number: _____

Customer Name: _____

Address: _____

Date of Purchase: _____

Purchased From:

Dealer Name: _____

Address: _____

IMPORTANT NOTE:

In order to receive the full five year product warranty, please mail this completed form together with a copy of your sales receipt to Balanced Audio Technology at the address below, within **thirty days** of purchase.

Failure to do so will result in the product being warrantied for **one year** from the date of manufacture.

B a l a n c e d A u d i o T e c h n o l o g y



VK-220 Balanced Power Amplifier

Owner's Manual

Introduction

Thank you for your purchase of the Balanced Audio Technology VK-220 balanced power amplifier. Please read this owner's manual to obtain the full benefit of the VK-220 in your system. It will provide you with the needed safety information and operating procedures for this exceptional unit.

WARNINGS:

To prevent the possibility of serious injury, electrical shock or fire:

DO NOT operate with the cover removed.

DO NOT expose to rain or moisture.

DO NOT defeat the ground power-plug.

DO NOT replace fuses with anything other than the same type and rating as supplied by the factory.

Package Contents

Included in the box should be the following:

Description	Quantity
VK-220 Power Amplifier	1
Power Cord	1
Spare Fuses	1
Torx Wrench (T-10)	1
Spare Top Cover Screws	5
Owner's Manual	1
Optional Accessories	(as ordered)

Save all the packaging material in a safe dry area for the unlikely event that you need to return the VK-220 to the factory for service.

Physical Placement

It is recommended that you provide for at least 6" of free space around the unit for proper ventilation.

Mount the unit on a hard surface with proper ventilation underneath.

Do not stack the VK-220 power amplifier on top of other units, nor vice versa.

IMPORTANT NOTES:

To assure reliable operation always turn the VK-220 OFF while making or changing input or speaker connections. **No connections should be made while the amplifier is ON.**

If the VK-220 was turned OFF for any reason, wait at least 30 seconds before turning it back ON.

Power Connection

Due to the VK-220 amplifier' high power rating, it is important to assure the good quality power line connection. If separate circuit outlets are used for the preamplifier and power amplifier, it is recommended that both circuits be connected to the same phase of the power line. Otherwise, a high level of hum can be present.

Input Connections

Best results will be obtained when connecting the VK-220 to a balanced preamplifier. However, the VK-220 is designed to accept either balanced or single-ended inputs.

Balanced Components

Use balanced XLR interconnects to connect the VK-220 to a balanced preamplifier. Input connectors are clearly marked on the back panel.

Note: The VK-220 input XLR connectors are wired as follows:

Pin 1:	common/shield
Pin 2:	positive
Pin 3:	negative

Single-Ended Components

Single-ended components have RCA connectors. The VK-220 power amplifier is designed to work with either single-ended or balanced preamplifiers connected to its inputs. All that is required to connect a single-ended preamplifier with RCA connectors to the VK-220 inputs is the optional balanced to single-ended adapters. These adapters are available from Balanced Audio Technology at a nominal charge.

Input Adapters: RCA Female to XLR Male

Speaker Connections

There are two sets of high quality binding posts on the back panel of the VK-220 (one for each channel). These can accommodate a wide variety of speaker cable terminals. You can use a 7/16" wrench to tighten these binding posts, however excessive force should be avoided to eliminate the chance of breakage.

External 12V Trigger Input/Output

VK-220 is equipped with the external 12V trigger connectors – Input and Output. To control the VK-220 the external device must supply the standard 12V signal.

12V Trigger Output connector can be used to drive another device's input for daisy-chain operation of multiple units.

Operating the VK-220

Turning the VK-220 On:

The power switch is located on the VK-220 front panel. If VK-220 was turned OFF even for a short period of time, you should wait at least 30 seconds before turning it back ON. This precaution will minimize the stress on internal components.

When you turn the unit ON, the VK-220 will automatically go through a gentle power-on sequence. At the end of a 10 second delay the unit will unmute and become operational.

Front Panel LED Indicators/ Remote Trigger Operation

When the VK-220 is not connected to the external 12V Trigger line, its Blue ON indicator will alternate between ON and OFF states when the power switch is depressed.

When unit is connected to the external controller via the 12V Trigger line, the condition of the LED indicators will depend on the state of that control line.

If the external controller is in OFF state (12V signal is not present), then the green Standby LED will light upon power switch activation. The unit will alternate between the Standby and OFF state every time the Power Switch is depressed.

When in its Standby mode, the unit will be controlled by the 12V Trigger line. When that line issues the ON command (12V signal is present) the green Standby LED will go out, and the blue ON LED will light.

Fuse Protection:

The circuitry of the VK-220 is protected by the main line fuse that is located on the back panel. This fuse should be checked if the front panel LED's fail to light.

CAUTION:

Make sure that the VK-220 is turned OFF and disconnected from the power line before checking or replacing fuses.

A blown fuse in the VK-220 is an indication of a serious problem. If a replacement fuse fails as well, no further attempts at servicing the unit should be undertaken. Please contact the factory for professional service.

Fuse Ratings

The proper ratings for the main line fuse are as follows:

For 100-120 VAC Units:	15A 250V Slow Blow
For 200-240 VAC Units:	10A 250V Slow Blow

Factory supplied fuses should be only replaced with the same type and rating parts.

Servicing

The Balanced Audio Technology VK-220 should not require service to maintain its high performance. In case of malfunction, if replacing fuses fails to eliminate the problem, please direct any further service inquiries to the factory.

Five Year Limited Warranty

Terms and Conditions

1. Limited Warranty

Upon receipt of the attached warranty registration form, Balanced Audio Technology warrants the purchased product to be free from manufacturing, materials, and workmanship defects for **five years** from date of original purchase, excepting vacuum tubes, subject to the following conditions. **Failure to return the enclosed registration form within 30 days from original purchase will result in a warranty period of one year from the date of manufacture.**

2. Limited to Original Purchaser

This warranty is for the sole benefit of the original purchaser of the covered product, and may not be transferred to a subsequent purchaser of the product.

3. Conditions and Limitations

This warranty is subject to certain conditions and limitations, as follows. This warranty is void and inapplicable if the product has not been used in accordance with the instructions found elsewhere in this manual, or if it has been misused or abused, damaged by accident or neglect, or in transport once in possession of the purchaser. The warranty is also void if the product has been repaired, modified, or tampered with by anyone other than Balanced Audio Technology or its specifically authorized agents.

4. Remedy

If this product contains a materials, manufacturing, or workmanship defect that cannot be repaired at the dealership where the product was purchased, it must be packed in original packaging and returned to Balanced Audio Technology via insured freight, at the owners expense. If replacement packaging materials are required, they will be supplied by the factory at a nominal charge. **Returned products must be accompanied by a written description of the defect, and a return authorization number (available from the factory via phone or fax).** Upon receipt of defective product, Balanced Audio Technology agrees to repair the product without charge for parts (except vacuum tubes if the unit is more than one year old), or labor. The product will then be returned via prepaid, insured freight, with carrier at the sole determination of Balanced Audio Technology. This constitutes the purchasers sole remedy.

5. Design Changes

Balanced Audio Technology reserves the right to modify its products or change specifications at any time without obligation or liability to previous purchasers.

6. Miscellaneous

Any implied warranties relating to the above product shall be limited to the duration of this warranty. This warranty does not extend to any incidental or consequential costs or damages to the purchaser. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.