OVATION AMPLIFIERS

OWNER'S MANUAL
BASS DUDE AMPLIFIER
MODEL K6441

You are the owner of the finest audio amplification equipment made in the world today. It is a solid-state, modular unit designed specifically to provide maximum power and flexibility throughout the audio range. This equipment offers a versatility of music amplification and performance not found in any other equipment.

The purpose of this manual is to acquaint you with the design and operating features of your new Ovation equipment. Read this manual carefully. Knowing how and when to operate the various controls will permit you to derive the greatest satisfaction and optimum performance from your Ovation equipment.

DESCRIPTION

Ovation Bass Dude amplifier, model K6441, is a solid-state, modular unit comprising a pre-amplifier, power amplifier, and a 15-inch bass speaker mounted in a single enclosure.

The built-in pre-amplifier on the top of the enclosure is equipped with bass, volume, and treble controls.

The BASS control offers the added versatility of BASS SHIFT which lowers the bass response by 10 db to provide a second range of low frequency response. In a similar manner, the TREBLE BOOST feature increases TREBLE response by 10 db to include two levels of high frequency response.

Your Ovation unit is also equipped with DUAL ACTION VOLUME CONTROL to eliminate low-level distortion by lowering input sensitivity as the volume control is lowered. This feature improves upon the out-moded practice of curbing low-level distortion with different loudness levels on two inputs of the same channel. (Low-level distortion usually occurs when the pre-amplifier is turned down and the instrument is turned up). Input jacks for the same channel on all Ovation pre-amplifiers have the same sensitivity, permitting simultaneous operation of more than one instrument per channel.

The pre-amp and power amp both operate with Ovation's FAILSAFE circuit that prevents damage to the system should an overload or other malfunction occur. The circuit operates in microseconds when the full-rated power limits are exceeded. An easily reset circuit breaker replaces old-fashioned fuses.

Isolated dual input jacks allow more than one instrument to be played simultaneously. Although the integral pre-amplifier eliminates the need for an external pre-amp, two jacks on the rear of the cabinet permit hook-up of both powered and unpowered enclosures if additional audio effects are desired.

This amplifier supplies 76 watts rms into an 8-ohm load, (one cabinet, model K6441) and 100 watts rms (225 watts of music power) into a 4-ohm load (two cabinet system, one model K6441 and one model K7441). Frequency response is 20 to 20,000 cycles $\pm$1 db, with a noise level better than -60 db at full-rated power.

OPERATING INSTRUCTIONS

Procedures for operating your Ovation amplifier are provided in this section with supplementary information included in the Controls and Indicators section of this manual. Refer to figures 1 and 2 for location of controls and components.

SETUP & ADJUSTMENT

1. Place your amplifier in a position so that there is SUFFICIENT AIR SPACE AROUND THE HEAT SINK TO ALLOW GOOD VENTILATION.
2. Set the following controls to the position indicated:

CONTROL	POSITION
POWER	OFF
BASS	5
VOLUME	0
TREBLE	5

3. Connect power cord to 117-volt, 60-cycle electric outlet.
4. Set the POWER switch to either ON position. Use the ON position that gives the least amount of power hum in the speakers. Indicator light on top of amplifier will come on.
5. Connect your instrument(s) into desired INPUTS jack(s).
6. If external powered enclosures are to be used, connect into **green** INPUT jack according to information in Controls and Indicators section. OBSERVE CAUTION.
7. If external unpowered enclosures are to be used, connect into **red** OUTPUT jack according to information in Controls and Indicators section. OBSERVE CAUTION.
8. Slowly adjust the BASS, VOLUME, and TREBLE controls to achieve the desired audio effects. Adjust according to information in Controls and Indicators section.

STOPPING

1. Set the POWER switch to OFF. Indicator light will go off at this time.
2. Disconnect your instrument(s) from INPUT jack(s).
3. Disconnect all external components from INPUT and OUTPUT jacks at rear of amplifier.

RESETTING

A FAILSAFE circuit is designed into your Ovation amplifier to protect the circuitry from serious damage should an overload or other malfunction occur in the amplifier. When an overload occurs, a circuit breaker will open causing the power to the amplifier to turn off (indicator light on top of amplifier will go off).

To reapply power to the amplifier, just press and release the red reset pushbutton on the rear of the amplifier. Since an overload is frequently the result of operating the amplifier at too high a volume level (too loud), it may also be necessary to decrease the VOLUME control setting. Should the overload condition persist, turn the amplifier off and contact your local dealer for service.

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE BACK COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CONTROLS and INDICATORS

TOP PANEL (See Figure 1)

A. BASS CONTROL – The BASS control varies the low frequency response of the amplifier. When the BASS control is turned left from 5 (counterclockwise), the bass notes are de-emphasized. Turning the BASS control to the right from 5 (clockwise) will accentuate the bass tones. BASS SHIFT is operated by pulling the BASS control knob out and is adjusted in the same manner as BASS. This changes the response curve from rhythm or bass guitar (BASS control pushed in) to lead guitar (BASS control pulled out).

B. VOLUME CONTROL – The VOLUME control regulates the loudness (the amount of gain) of the amplifier. Volume will increase when the VOLUME control is turned right from 0 (clockwise).

C. TREBLE CONTROL – The TREBLE control varies the high frequency response of the amplifier. When the TREBLE knob is turned left from 5 (counterclockwise), the treble notes are de-emphasized. Turning the TREBLE control right from 5 (clockwise) will accentuate the treble tones. Pulling out the TREBLE control knob increases the high frequency response of the amplifier (TOP BOOST). TOP BOOST response is adjusted in the same way as TREBLE (control knob pushed in).

D. INDICATOR LIGHT – The amber light will come on when power is applied to the amplifier and the amplifier and the circuit breaker is closed. If an overload opens the circuit breaker, this light will go off.

E. POWER SWITCH – The POWER switch is a three-position toggle switch. One position of this switch is OFF. The two ON positions of this switch reverse the line connections. Select the ON position that gives the least power hum in the speakers.

F. INPUT JACKS 1 & 2 – The dual INPUT jacks are used to connect one or more instruments to the amplifer. Both INPUT jacks have the same sensitivity at all levels. Use a standard 1/4-inch phone plug and shield cord to connect instruments.

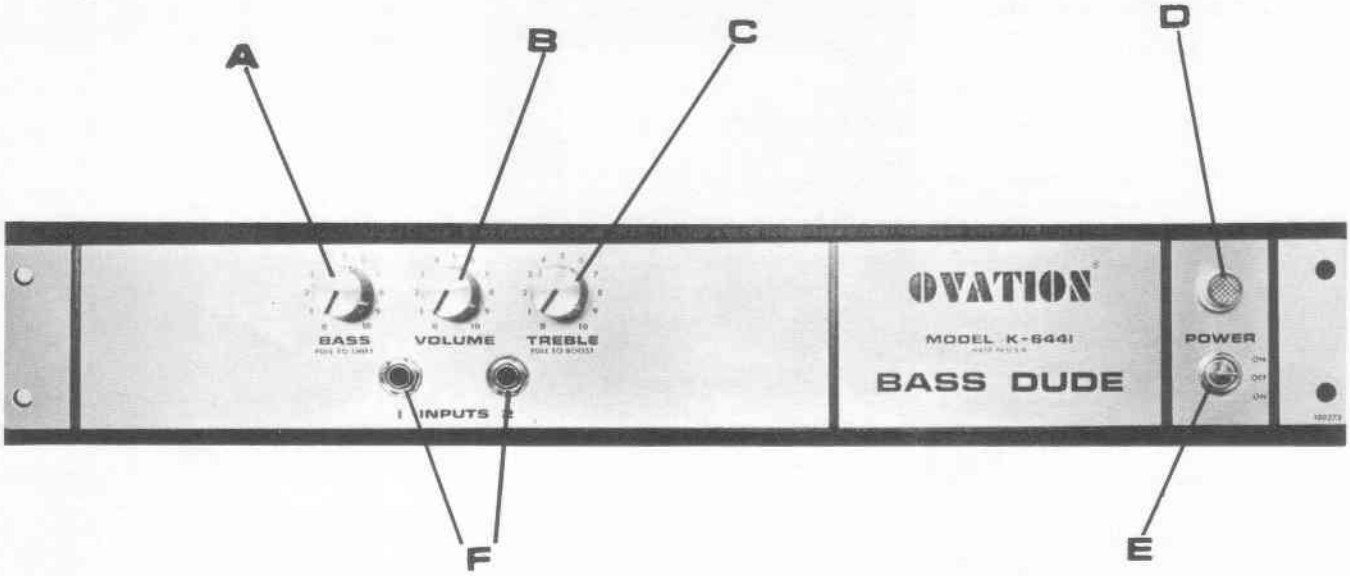

Figure 1. Top Panel Controls and Indicators

REAR PANEL (See Figure 2)

G. CIRCUIT BREAKER – The CIRCUIT BREAKER is used to open the circuit should an overload or other malfunction occur in the amplifier. This type of circuit breaker requires no cooling off period and may be reset immediately. To reapply power to the amplifier, just press and release the red reset pushbutton. No fuses are required with any Ovation equipment.

H. POWER CORD – The POWER CORD is equipped with a standard two-prong plug for use in a 117-volt, 60-cycle electric outlet only. This amplifier requires 200 watts or 1.7 amps.

I. INPUT JACK **(GREEN)** – The green INPUT jack allows more than one external powered enclosure to be connected in parallel, (with standard 1/4-inch phone plugs and shielded cords) for increased output. To make these connections, first connect the amplifier INPUT jack (green) to the green INPUT jack of the first external powered enclosure as shown in figure 3. If a second external powered enclosure is to be connected, make a connection from the remaining green INPUT jack on the first external enclosure to the green INPUT jack of the second enclosure. Connections to additional powered enclosures can be made by repeating this sequence. A 1-volt input signal will develop a full 100-watt rms output from the K6441 amplifier.

CAUTION

TO AVOID DAMAGE TO YOUR EQUIPMENT WHEN PLACING ADDITIONAL POWERED ENCLOSURES IN THE SYSTEM, BE SURE THAT YOU MAKE ALL CONNECTIONS FROM THE GREEN INPUT JACKS TO THE GREEN INPUT JACKS. THE RED OUTPUT JACKS ARE NEVER TO BE USED FOR CONNECTIONS BETWEEN POWERED ENCLOSURES.

J. OUTPUT JACK **(RED)** – The red OUTPUT jack may be used to drive unamplified speakers and Ovation Freq-Lites (see figure 3). The speakers in this enclosure are internally connected to the power amplifier and do not require any external connection. The red OUTPUT jack will accept a standard 1/4-inch phone plug with heavy, unshielded cord.

CAUTION

TO AVOID DAMAGE TO YOUR EQUIPMENT, THE RED OUTPUT JACK IS NOT TO BE USED FOR CONNECTING POWERED ENCLOSURES. POWERED ENCLOSURES ARE TO BE CONNECTED ONLY FROM GREEN INPUT TO GREEN INPUT. THE ONLY SPEAKER UNITS THAT ARE TO BE CONNECTED TO THE RED OUTPUT JACK MUST BE UNPOWERED ENCLOSURES.

K. HEAT SINK – The finned HEAT SINK provides safe transistor operation under prolonged high output usage. To receive maximum life of the amplifier components, BE SURE THERE IS SUFFICIENT AIR SPACE AROUND THE HEAT SINK TO ALLOW GOOD VENTILATION.

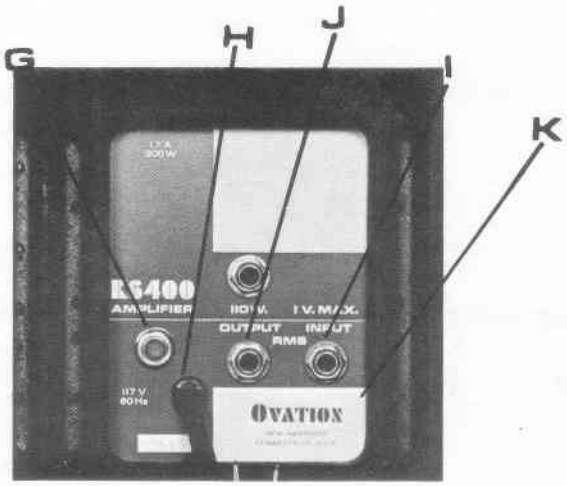

Figure 2. Rear Panel Controls and Indicators

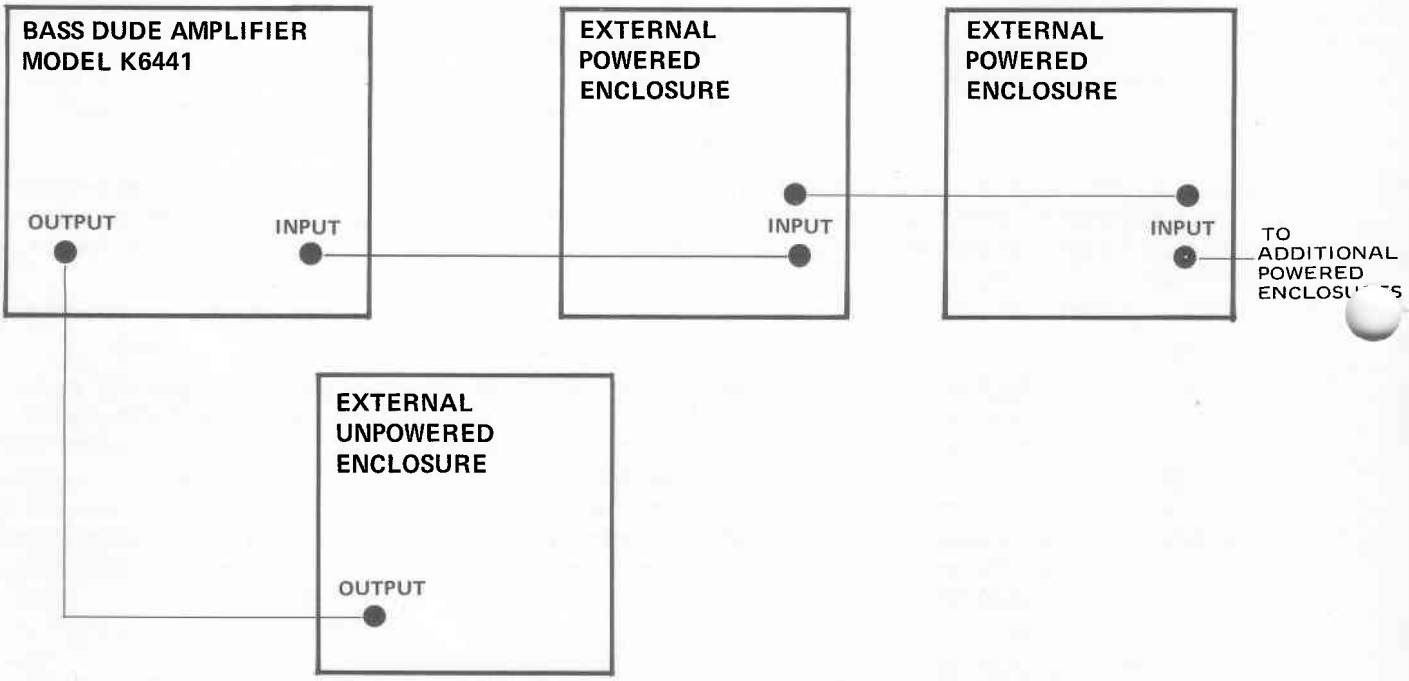

Figure 3. Typical Connections of BASS DUDE Amplifier, Model K6441, with External Enclosures

Should any questions arise regarding the use of this equipment, contact your local dealer or write to the Ovation Customer Service Department for additional information. Be sure to include the equipment model number and your return address in all correspondence.

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