OVATION AMPLIFIERS

**OPERATING MANUAL
FOR THE
OVATION MODEL K-6012
SELF-CONTAINED MUSIC AMPLIFIER**

You have purchased the finest audio amplification equipment made in the world today. It has been electronically and mechanically designed to perform with the ultimate of reliability. However, this equipment incorporates certain sound control applications that are quite different from other equipment you may have used.

In order for this equipment to perform in the manner for which it was designed, you should read the instructions contained in this manual carefully and follow the directions and explanations exactly.

If you have any questions, refer to the instructions at the end of this manual.

HERE IS WHY OVATION EQUIPMENT IS SO DIFFERENT AND OUTSTANDING

Your Ovation Model K-6012 Self-Contained Music Amplifier is a solid state modular designed unit that combines the features of the Model K-6001 Preamplifier module and the Model K-6100 Power Amplifier module in one assembly. This unit has been specifically engineered to provide maximum power and flexibility throughout the audio spectrum. Exclusive control features give you an endless range of performance and versatility of amplification not found in any other equipment.

"AMPLICARD" CIRCUITRY – One important Ovation feature is the "AMPLICARD" circuitry. With many preamps, the loss of a special effect circuit can mean the loss of all sound. This cannot happen with Ovation preamplifiers. The "AMPLICARD" circuit boards, being independent of one another, are not affected should any one circuit fail.

"FAILSAFE" CIRCUIT – This circuit protects the amplifier from overloads. An easily reset circuit breaker replaces old-fashioned fuses. Acting in micro-seconds, it operates only when full power limits are exceeded, thus avoiding sacrificing musical versatility. To return the amplifier immediately to normal operation, merely press the reset button.

ELECTRONIC STROBE TUNER – An electronic tuning circuit designed to produce an exact 'E' pitch. The tuner may also be set to another pitch by turning the control marked FLAT-SHARP. The strobe light indicates visually (by ceasing to flash) when you are in tune. This circuit is used for either audible or visual tuning. The visual tuning is very useful when silence is necessary.

DUAL ACTION VOLUME CONTROL – An Ovation design to eliminate low level distortion by lowering input sensitivity as the volume control is lowered. Many preamplifiers will distort if they are turned down and the instrument is turned up. To compensate for this, other companies have different loudness levels on two inputs of the same channel. (This is an obsolete way of curbing low level distortion.) Input jacks for the same channel of all Ovation preamplifiers have the same loudness permitting simultaneous operation of two instruments per channel.

HOW TO SET-UP AND OPERATE YOUR K-6012

Before operating your equipment, it is important that the set-up procedures are performed in the following order.

1. Be sure the POWER ON-OFF switch is OFF.
2. Turn all controls (VOLUME, BASS, TREBLE, etc.) on the front of the preamplifier module to their 'O' settings. Turn all special effect switches off (push down).
3. Connect the power cord to a 117 volt, 60 cycle electric outlet.
4. Turn your power amplifier module ON-OFF switch to ON and adjust the FINAL STAGE VOLUME control to the desired level.
5. Turn the ON-OFF switch on the preamplifier module to ON. Pilot lights will glow both on the preamplifier module and on the power amplifier module.
6. Connect your instrument into the desired channel input jack and adjust the volume levels and audio effects controls. (See section on operating controls.)

K-6012 FRONT PANEL

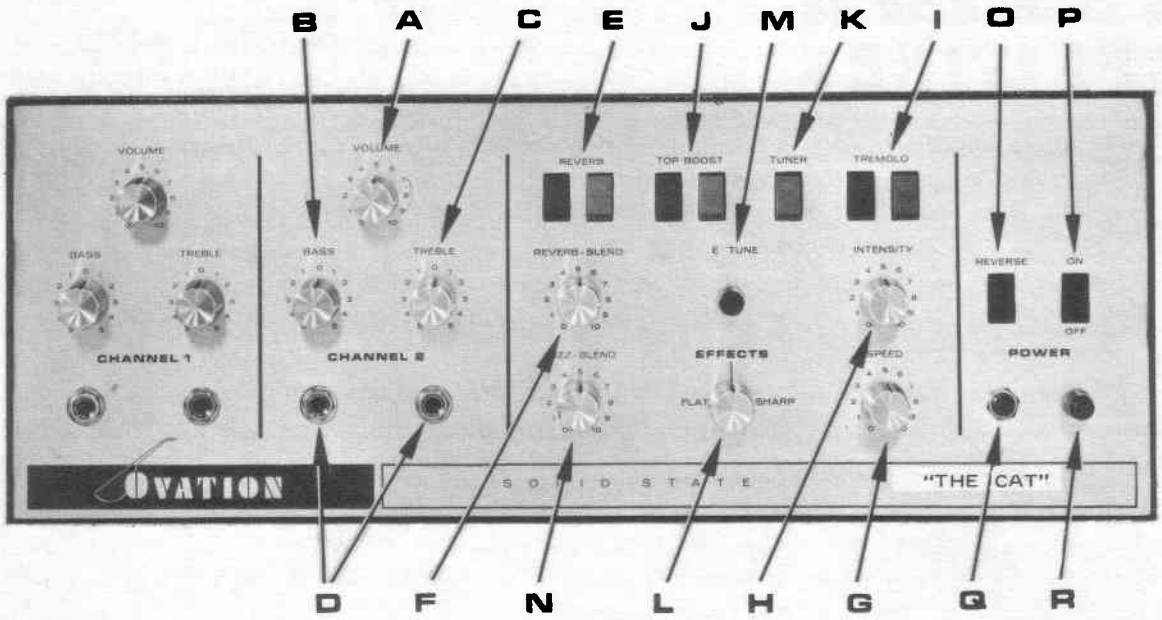

Figure 1

OPERATING CONTROLS

To produce the desired sound and effects from this equipment, it is necessary that you read and fully understand the following paragraphs, which are keyed to Figures 1 and 2, for the complete explanations and operations of the controls on the preamplifier.

REFER TO FIGURE 1 – PREAMPLIFIER MODULE

A. VOLUME CONTROLS – The VOLUME controls vary the loudness of the selected preamp channel. RED MARKINGS ARE FOR CHANNEL 1. BLUE MARKINGS ARE FOR CHANNEL 2. This color coding is used on all controls for Channel 1 and Channel 2 (TOP BOOST, REVERB, FUZZ, etc.).

B. BASS CONTROLS – The BASS controls vary the low frequency response of the selected preamp channel. When BASS controls are turned left of 'O', the bass notes will be de-emphasized. Turning the BASS controls right of 'O' will accentuate the bass tones.

C. TREBLE CONTROLS – The TREBLE controls vary the high frequency response of the selected channel. When the TREBLE controls are turned left of 'O', treble is de-emphasized. Turning the TREBLE controls right of 'O' will accentuate the treble tones. These TREBLE controls are in addition to the TREBLE BOOST switches in the special effects group.

D. DUAL INPUTS – Each channel has isolated dual input jacks to allow more than one instrument to be played through each channel. Both inputs have the same sensitivity at all levels. These input jacks will accept standard 1/4" phone plugs.

E. REVERB-SELECT SWITCHES – Pressing the REVERB switches up will add reverb to either, or both, of the channels. RED FOR CHANNEL 1; BLUE FOR CHANNEL 2.

F. REVERB-BLEND CONTROL – Turning the REVERB-BLEND control clockwise will increase the amount of reverb.

G. TREMOLO SPEED CONTROL – This control, marked SPEED, is rotated clockwise to increase tremolo rate from approximately 3 cycles per second to approximately 12 cycles per second.

H. TREMOLO INTENSITY CONTROL – This control, marked INTENSITY, varies the amount of tremolo. At the lowest settings, the tremolo will be barely noticeable, while at the highest settings the tremolo circuits will modulate the input signal about 80%.

I. TREMOLO SELECT SWITCHES – Pressing TREMOLO switches up will add tremolo to either or both of the channels. RED FOR CHANNEL 1; BLUE FOR CHANNEL 2.

J. TOP BOOST SWITCHES – By pressing TOP BOOST selector switches up, the treble gain on the selected channel will be increased. RED FOR CHANNEL 1; BLUE FOR CHANNEL 2. This gain is in addition to the gain from the individual TREBLE controls.

K. TUNER SELECT SWITCH – A tuner circuit is provided in this amplifier to allow you to tune your instrument. The tuner circuit may be used two ways: audibly, by listening to the tuner note and tuning your instrument to match it; or silently, by watching the blinking of the strobe light marked 'E' TUNE. The latter is very useful for backstage tuning during a performance.

AUDIBLE TUNING – To audibly tune your instrument, connect it into Channel 2. Set the tuner frequency control knob (marked FLAT-SHARP) at the center index mark. Adjust the volume control on Channel 2 to 'O' on the dial. Press the green TUNER SELECT switch. Adjust the volume control on Channel 2 to an audible level of 'E' tone. Play 'E' on your instrument and adjust the volume control on your instrument to beat audibly with the tuner in the preamplifier.

SILENT TUNING – To silently tune your instrument, connect it into Channel 1. Adjust the volume control on Channel 1 to approximately 3 on the dial. Adjust the volume control on Channel 2 to 'O' on the dial. Set the tuner frequency control knob (marked FLAT-SHARP) to the center index mark. Press the green TUNER SELECT switch. The green strobe light will come on. Now play the 'E' on your instrument. You will notice the strobe light blinking on and off. The faster the frequency of the blinking, the farther out of tune the instrument is. When the strobe light blinks slowly or goes out, your instrument is accurately tuned.

L. TUNER FREQUENCY CONTROL – When the pointer on the frequency control knob (marked FLAT-SHARP) is lined up with the center index mark on the front panel, the tuner will generate an 'E' tone of 329.6 cycles per second. This may be varied sharp or flat to match an existing house instrument.

M. STROBE LIGHT – This green indicator light indicates when the tuner is operating. (See par. K)

N. FUZZ-BLEND CONTROL – The fuzz circuits will produce total distortion of the sound fed into Channel 2 when the FUZZ-BLEND knob is rotated clockwise. Fuzz is completely turned off when the FUZZ-BLEND knob is turned counter-clockwise until a click is heard.

O. LINE REVERSE SWITCH – This two-position switch reverses the line connections. Use the position which gives the least power hum in the speakers.

P. ON-OFF SWITCH – Turns on the preamp module and the power amp module.

Q. CIRCUIT BREAKER – Designed to open the circuit when an overload or malfunction occurs in the preamplifier module. This type of circuit breaker requires no cooling off period and may be reset immediately. To reapply power to the preamplifier module, just press the reset button and release. No fuses are required with Ovation equipment.

R. AMBER INDICATOR LIGHT – Indicates that the power is applied to the preamplifier module.

NOTE: When the amber indicator light is out, it is an indication that the circuit breaker has opened, the power switch is not on, or the line cord is not plugged into a live circuit.

REFER TO FIGURE 2 - POWER AMPLIFIER MODULE

S. FINAL STAGE VOLUME CONTROL – Permits adjustment of overall volume after preamp controls have been adjusted to normal settings.

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

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

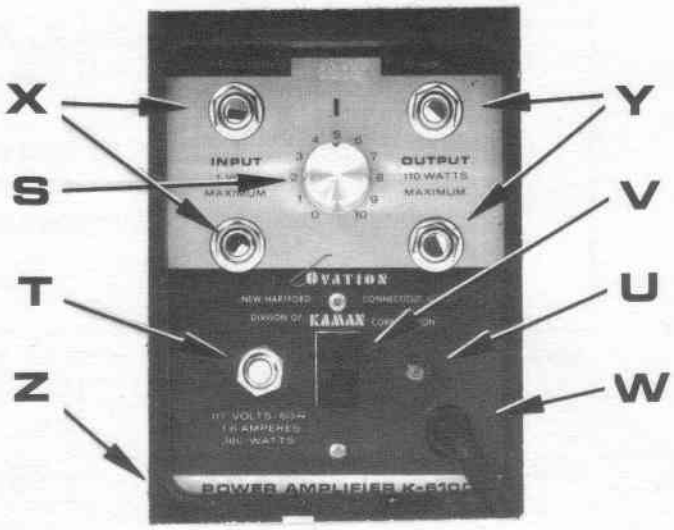

Figure 2

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

W. LINE CORD – Standard two-prong plug for use in a 117 volt, 60 cycle electric outlet only. The Model K-6012 requires 190 watts or 1.7 amps.

X. INPUT JACKS (GREEN) – This amplifier contains two green input jacks to allow more than one pre-amplifier module to operate into this power amplifier module at the same time. Use standard 1/4" phone plugs and shielded cords. Two or more power amplifier modules may be connected in parallel for increased output using the green INPUT jacks. To make the connections to the other power amplifier modules connect a standard 1/4" phone plug and shielded cord from the green INPUT jack of this amplifier to the green INPUT of the additional power amplifier. If a third amplifier is to be connected, make a connection from the remaining green INPUT jack on the second power amplifier to the green INPUT of the third power amplifier. One volt signal input will develop a full 100 watts RMS output from this amplifier.

CAUTION

TO AVOID DAMAGE TO YOUR EQUIPMENT WHEN PLACING ADDITIONAL POWER AMPLIFIERS 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 POWER AMPLIFIERS.

Y. OUTPUT JACKS (RED) – The two red OUTPUT jacks may be used to drive other non-amplified speakers and Ovation Freq-Lites. The speakers in this enclosure are internally connected to the power amplifier module and do not require any external connection. These red OUTPUT jacks will accept standard 1/4" phone plugs with heavy, unshielded cords.

CAUTION

TO AVOID DAMAGE TO YOUR EQUIPMENT, THESE RED OUTPUT JACKS ARE NOT TO BE USED FOR CONNECTING POWERED ENCLOSURES. POWERED ENCLOSURES ARE TO BE CONNECTED FROM GREEN INPUT TO GREEN INPUT. THE ONLY SPEAKER UNITS THAT ARE TO BE CONNECTED TO THESE RED OUTPUT JACKS MUST BE NON-POWERED ENCLOSURES.

Z. HEAT SINK – The finned heat sink provides transistor operation under prolonged high output usage. TO RECEIVE MAXIMUM LIFE OF THE AMPLIFIER COMPONENTS, BE SURE THERE IS PLENTY OF AIR SPACE AROUND THE HEAT SINK TO ALLOW FOR GOOD VENTILATION.

The instructions contained in this manual should be all that are required to properly operate the equipment. However, if you have any questions, your local dealer will be glad to help you.

If it is not possible to visit your local dealer, write to the Ovation Customer Service Department. Be sure to include the equipment model number and your return address in all correspondence.

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