

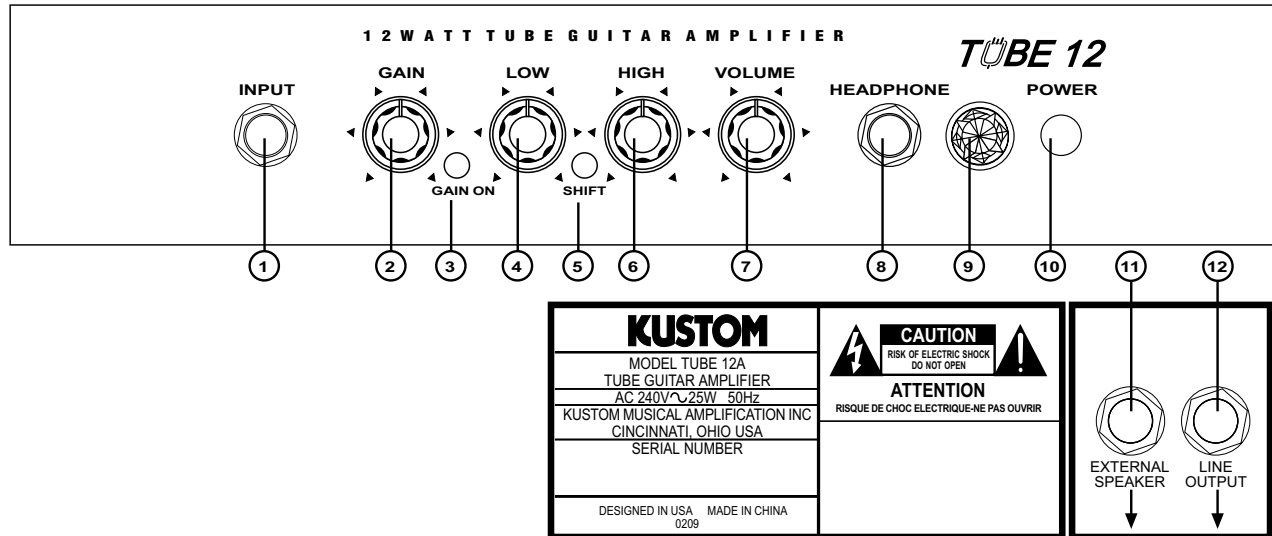
KUSTOM

TUBE 12

OWNER'S MANUAL



Congratulations on the purchase of your new Kustom amp! Your new Tube 12 successfully draws on more than 30 years of amplifier design and manufacturing experience at Kustom. This amp was planned from the ground up by our engineers to offer top-notch tone and dependable performance. Inside this manual, you'll find handy information about the amp's features and some suggested settings to illustrate its tonal capabilities. We wish you many years of enjoyment with your Kustom Tube 12 amplifier.



Features of the Kustom Tube 12

- 1) **Input Jack** - A 1/4-inch, 2-conductor input for plugging in your instrument. It's intended for guitar but will work with other instruments as well.
 - 2) **Gain** - Adjust this clockwise to increase the amount of distortion generated. Lower levels provide a blues-type tone, with higher levels delivering increased crunch - perfect for heavier music.
 - 3) **Gain On** - This switch activates the distortion circuit.
 - 4) **Low** - Controls the emphasis of bass frequencies. Turn counter-clockwise to decrease lows.
 - 5) **Shift** - When activated, this control shifts the frequencies to emphasize midrange content. The result is a fuller, fatter sound.
 - 6) **High** - Controls the emphasis of treble frequencies. Turn counter-clockwise to decrease highs.
 - 7) **Volume** - Controls the overall level of the amplifier.
 - 8) **Headphone** - A 1/4-inch input for headphones. Level is determined by the setting of the VOLUME control. Automatically disconnects speaker for silent practicing.
 - 9) **Jewel Light** - Indicates whether the amp is OFF or ON.
 - 10) **Power** - This switch turns the amp ON or OFF.
 - 11) **Speaker Output** - This jack is for use with an external speaker cabinet. Minimum requirements: 8-16 Ohms, 12-Watts RMS or more.
- NOTE:
- #1. The internal speaker is disconnected when the external speaker jack is used.
 - #2. Using a speaker below the recommended 8-16 Ohms will damage the circuitry of your amplifier.
- 12) **Line Output** - This jack will deliver a line level output (Approximately 1 VRMS Maximum @ 1K ohm).

Sample Control Settings

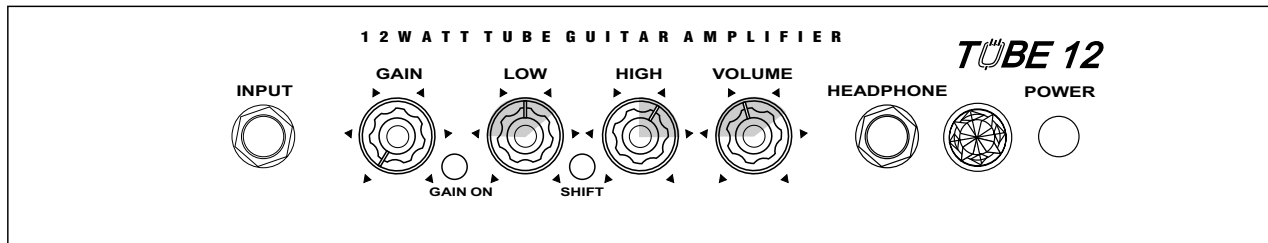
The following settings are displayed to help you learn about the capabilities of your amp. Think of them as starting points on the path to great tones! We know you'll find your own favorite settings as you get to know your amp.

Clean - These settings will work for most any style of music that needs a warm, articulate tone - whether pop, country, funk or jazz. As the VOLUME control is turned up to its highest ranges, you'll notice that subtle distortion is generated.

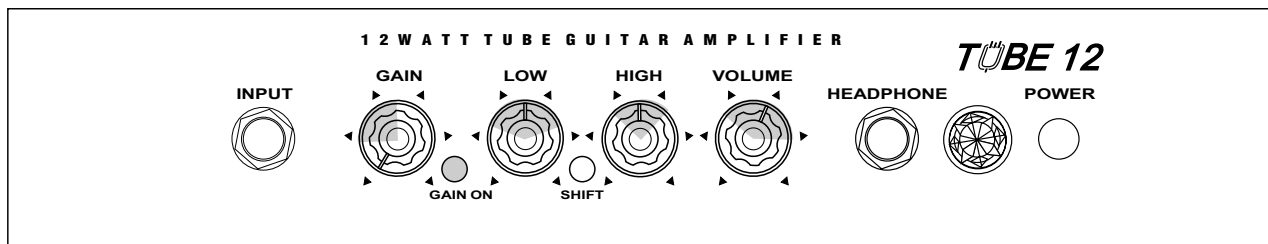
Moderate Gain/Blues - For this setting, activate the GAIN ON button. When set as shown, moderate smooth distortion can now be heard. Adjust HIGH to set the amount of bite. The SHIFT button may also be activated to emphasize midrange frequencies for a fuller tone.

High Gain/Rock - This setting utilizes increased gain to provide a heavier sound, loaded with crunch and sustain. GAIN ON and SHIFT are both activated for maximum impact. Adjust LOW and HIGH to match the tonal character of your guitar.

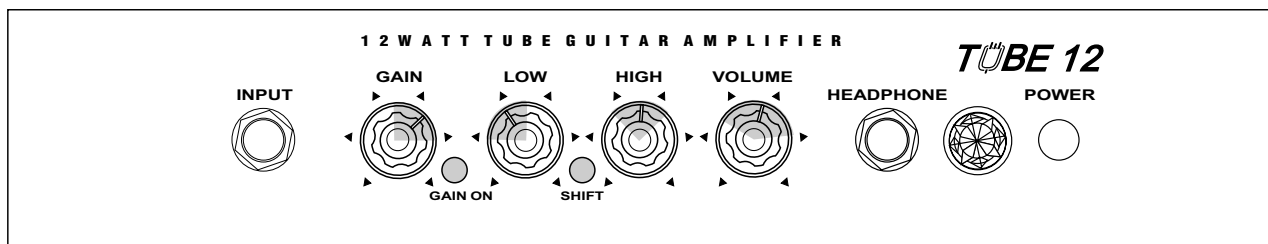
CLEAN SETTING



MODERATE GAIN / BLUES SETTING



HIGH GAIN / ROCK SETTING



DANGER

EXPOSURE TO EXTREMELY HIGH NOISE LEVELS MAY CAUSE A PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY TO NOISE INDUCED HEARING LOSS BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE FOR A SUFFICIENT TIME.

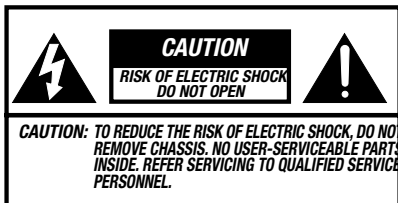
THE U.S. GOVERNMENT'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS SPECIFIED THE FOLLOWING PERMISSIBLE NOISE LEVEL EXPOSURES:

DURATION PER DAY IN HOURS	SOUND LEVEL db FLOW RESPONSE
8	90
6	93
4	95
3	97
2	100
1	103
1/2 HR. or LESS	110

ACCORDING TO OSHA, ANY EXPOSURE IN THE ABOVE PERMISSIBLE LIMITS COULD RESULT IN SOME HEARING LOSS. EAR PLUGS OR PROTECTORS IN THE EAR CANAL OR OVER THE EARS MUST BE WORN WHEN OPERATING THIS AMPLIFICATION SYSTEM, IF EXPOSURE IS IN EXCESS OF THE LIMITS AS PUT FORTH ABOVE, TO INSURE AGAINST POTENTIALLY HARMFUL EXPOSURE TO HIGH SOUND PRESSURE LEVELS, IN ORDER TO PREVENT A PERMANENT HEARING LOSS. IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO EQUIPMENT CAPABLE OF INDUCING HIGH SOUND PRESSURE LEVELS, SUCH AS THIS AMPLIFICATION SYSTEM, BE PROTECTED BY HEARING PROTECTORS WHILE THIS UNIT IS IN OPERATION.

WARNING!

- THIS APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING. NO OBJECTS FILLED WITH LIQUIDS SUCH AS VASES SHALL BE PLACED ON THE APPARATUS.
- TO AVOID ELECTRICAL SHOCK, DO NOT DISASSEMBLE. REFER SERVICING TO QUALIFIED PERSONAL ONLY!



AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.

IMPORTANT

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be kept for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, i.e. bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat, such as a stove, radiator, or another heat producing amplifier.
8. Connect only to a power supply of the type indicated on the back of the amplifier near the power supply cord.
9. Do not break off the ground pin of the power supply cord.
10. Power supply cords should always handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is unused for long periods of time.
12. If this product is to be mounted in an equipment rack, rear support should be provided.
13. Metal parts and vinyl covering may be cleaned with a damp rag.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation ports or any other openings.
15. This unit should be checked by a qualified service technician if:
 - A. The power supply cord or plug has been damaged.
 - B. Anything has fallen or been spilled into the unit.
 - C. The unit does not operate correctly.
 - D. The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service this equipment. All service work must be done by a qualified service technician for warranty repairs.

CAUTION

THIS AMPLIFIER HAS BEEN DESIGNED AND CONSTRUCTED TO PROVIDE ADEQUATE POWER RESERVE FOR PLAYING MODERN MUSIC WHICH MAY REQUIRE OCCASIONAL PEAK POWER. EXTENDED OPERATION AT ABSOLUTE MAXIMUM POWER IS NOT RECOMMENDED SINCE THIS COULD DAMAGE THE ASSOCIATED LOUDSPEAKER SYSTEM. PLEASE BE AWARE THAT MAXIMUM POWER CAN BE OBTAINED WITH VERY LOW SETTINGS OF THE MASTER VOLUME CONTROLS IF THE INPUT SIGNAL IS VERY STRONG.

KUSTOM

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