

KUSTOM[®]

OWNER'S MANUAL

SIENNA[™]65

Thank you for purchasing the Kustom Sienna65 model acoustic/electric guitar amplifier. Kustom has listened to musicians throughout the world and stands proudly behind each and every one we make. Flexible, feature laden, great sounding, able to adapt to all kinds of music, this amplifier really delivers what you have been looking and waiting for. Whatever style you choose, it's ready!

Kustom, with a 30-year tradition of excellence, proudly delivers a rugged and dependable amp designed and engineered in the USA. Again, thank you for your purchase. Please take a few minutes to learn about all of the built-in professional features.

	Power	Equalizer	Channels	Impedance	Effects	Amplifier Type	Dimensions	Weight
	65 W	Dual	Two	8 Ohms	8 Preset	MOS-FET Transistor	21" x 11.5" x 17.5"	48 lbs.

ENGLISH

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 (HOURS)	8	6	4	3	2	1
SOUND LEVEL (dB)	90	93	95	97	100	103

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 in order to prevent a permanent hearing loss. If exposure in excess of the limits as put forth above, to insure against potentially harmful exposure to high sound pressure levels, 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.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE CHASSIS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF NON-INSULATED "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.



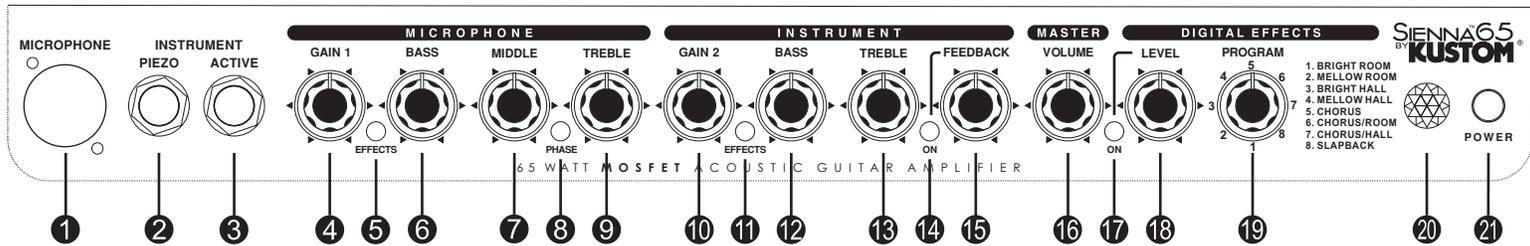
APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be kept for future reference.
3. Read and understand all warnings listed on the operating instructions.
4. Follow all operating instructions to operate this product.
5. This product should not be used near water, i.e. Bathtub, sink, swimming pool, wet basement, etc.
6. Only use dry cloth to clean this product.
7. Do not block any ventilation openings, It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
8. Do not install this product near any heat sources ;such as,radiators, heat registers, stove or other apparatus (including heat producing amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord being walked on or pinched, particularly at Plugs, convenience receptacles and the point where they exit from the apparatus. Do not break the ground pin of the power supply cord.
11. Only use attachments specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
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. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as, power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

KUSTOM

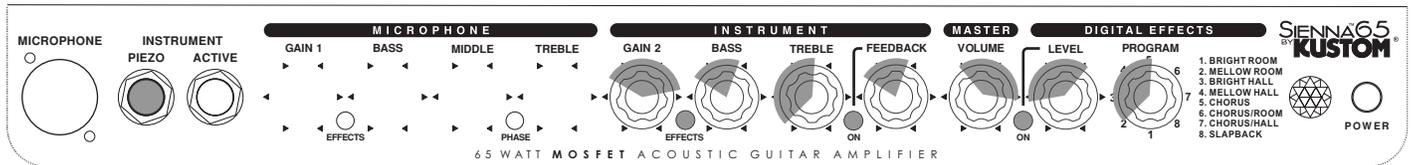
Kustom Inc., 4940 Delhi Pike, Cincinnati, OH • USA
(800) 999-5558 Fax: (513) 347-2192 / www.kustom.com



- 1.) Microphone Input - this is a 3 cond. XLR input jack for plugging in Lo-Z microphones. It is intended for microphones and has 15V Phantom Power for condenser microphones.
 - 2.) Piezo Input - this is a 1/4" 2 conductor input jack for plugging in your instrument. It is intended for an acoustic/electric guitar with a piezo-electric pickup.
 - 3.) Active Input - this is a 1/4" 2 conductor input jack for plugging in your instrument and will place a -20db pad in the circuit which will allow use of active on-board electronics from pre-amplified guitars. This will help keep the signal extremely clean.
 - 4.) Gain 1 - this control is the preamp input for the microphone input. Slowly increase the control to increase the volume.
 - 5.) Effect On/Off- this switch will turn the effects for the microphone channel on and off.
 - 6.) Bass - this control is the bass control for the microphone channel. It is passive and set to shelve frequencies at 100 Hz. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the low will be rolled off -12db.
 - 7.) Middle - this control is the midrange control for the instrument channel. It is passive and set to shelve frequencies at 1KHz. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the middle will be rolled off -12db.
 - 8.) Phase Reversal On/Off- this switch will reverse the phase on pins 2 & 3 for the microphone to help with feedback or overly loud bass frequencies from the microphone channel.
 - 9.) Treble - this is the high frequency tone control for the microphone channel. It is passive and set to shelve frequencies at 3KHz. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the highs will be rolled off -12db.
 - 10.) Gain 2 - this control is the preamp input for the instrument input. Slowly increase this control to increase the volume on the instrument inputs.
 - 11.) Effects On/Off- this switch will turn the reverb for the instrument channel on and off.
 - 12.) Bass - this control is the bass control. It is passive and set to shelve frequencies at 100 Hz. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the low will be rolled off -12db.
 - 13.) Treble- this is the high frequency tone control. It is passive and set to shelve frequencies at 3KHz on the instrument channel. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the highs will be rolled off -12db.
 - 14.) Feedback On/Off - this switch will engage the Feedback control.
 - 15.) Feedback - this control is a cut filter notch with an extremely narrow width. It sweeps between 50Hz & 500Hz and "fine tunes" the midrange of the acoustic guitar. This helps eliminate unwanted "ringing" tones.
 - 16.) Master Volume - this is the overall volume level control for the amplifier. To keep distortion at a minimum, we suggest you turn this up between 1/2 and 2/3, then bring up the individual channels.
 - 17.) Effects On/Off- this switch will turn the digital effects for the entire unit on and off.
 - 18.) Effects Level - this control adds the digital effects and mixes them into the main signal.
 - 19.) Effects Program - this control selects between the different digital effects. Effects include: 4 Reverbs, 1 Delay, 1 Chorus, 2 Chorus & Reverb.
 - 20.) Jewel Light - this jewel light lets you know that the amplifier is on.
 - 21.) Power - this switch turns on and off the AC power to the amp.
- Back Panel - (not pictured)
- Speaker Out - this is a 2 conductor 1/4" speaker output jack. This will disconnect the internal speaker and allow an external speaker cabinet to be employed. Rating is 8 ohms.
- Line Output - this is a 2 conductor 1/4" line output jack. This will allow an external amplifier or mixing board to be supplied with the signal from this amp.
- Effects Loop I/O - these are two 2-conductor 1/4" jacks. These will allow an external effects device or equalizer to be patched back in before the power amp section in this amp. One is send and the other is return.
- Footswitch Jack - this is a 2 conductor 1/4" jack. This is for hooking up a footswitch to turn on/off the onboard digital effects.

Suggested Settings

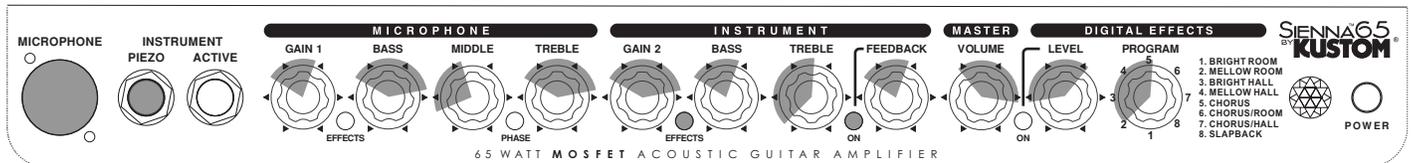
(These settings are general starting points. They are designed to get you close to the sound you are looking for. If the control is not shown, then it doesn't apply to this particular sound.)



Standard Single Input Setup - in this setup your acoustic/electric guitar is plugged into input 2. (Remember, if you are using an active guitar or pre-amplified guitar, select the active input. We also suggest that you turn its output level to about mid-way up and this will give you a cleaner sound as well as giving you available headroom for leads.) The tone controls follow both inputs.

Of course, you can adjust the tone controls to any desired sound, but in this setup we suggest these tone control settings. It will deliver a clear, clean sound that has enough top end clarity to cut through. Add low and low mid for a beefier presence, but be careful as this can “muddy up” the sound.

Adjust the reverb and chorus to suit the music or to your taste.



Standard Dual Input Setup - in this setup two inputs are utilized. Guitar is plugged into guitar input jack and a Hi-Z microphone is plugged into mic/line Input. Assuming you are also using a microphone, plug it into the mic/line jack and slowly turn up the mic/line volume control. Balancing the two types of inputs gives you a much more natural acoustic guitar sound. You could also plug in any combination of inputs such as: keyboards, microphones or other guitars.

This can also be a basic mini-PA system. It could be used for plugging in a CD player or cassette deck and a microphone for singing. It can be used for playing over prerecorded tapes with mixing capabilities.

As mentioned earlier, you can adjust the tone controls to any desired sound, but in this setup we suggest these tone control settings. Of course it depends on the listening environment. It will deliver a clear, clean sound that has enough top end clarity to let the acoustic sound cut through.

Adjust the reverb to suit the music or to your taste.