

KUSTOM

OWNER'S MANUAL

Quad 100 DFX

Congratulations on the purchase of your new Kustom amp! Your Quad 100 DFX model 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 useful 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 amplifier.

Model	Power	Equalizer	Channels	Impedance	Effects	Amplifier Type	Dimensions	Weight
Quad 100 DFX	100 W	Dual 3 Band	(2 Rhythm) (2 Lead)	4 Ohms	8 Preset Digital EFX	MOS-FET Transistor	26¼ x 17¾ x 11¾ IN 66.5 x 45 x 30 CM	52 Lbs. 23.5 Kg

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
8
6
4
3
2
1
1/2 HR. or LESS

SOUND LEVEL dB	FLOW RESPONSE
90	
93	
95	
97	
100	
103	
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 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.

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!

CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN

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 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

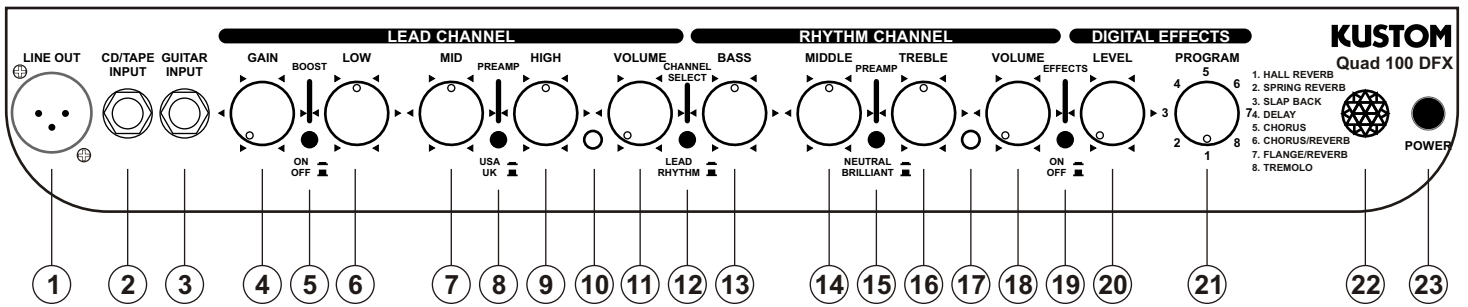
- Read all safety and operating instructions before using this product.
- All safety and operating instructions should be kept for future reference.
- Obey all cautions in the operating instructions and on the back of the unit.
- All operating instructions should be followed.
- This product should not be used near water i.e. bathtub, sink, swimming pool, wet basement, etc.
- 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.
- This product should not be placed near a source of heat, such as a stove, radiator, or another heat producing amplifier.
- Connect only to a power supply of the type indicated on the back of the amplifier near the power supply cord.
- Do not break off the ground pin of the power supply cord.
- 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.
- The power supply cord should be unplugged when the unit is unused for long periods of time.
- If this product is to be mounted in an equipment rack, rear support should be provided.
- Metal parts and vinyl covering may be cleaned with a damp rag.
- 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.
- This unit should be checked by a qualified service technician if:
 - The power supply cord or plug has been damaged.
 - Anything has fallen or been spilled into the unit.
 - The unit does not operate correctly.
 - The unit has been dropped or the enclosure damaged.
- 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

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



- 1.) **Line Output** - this is a 3 cond. XLR output jack for plugging into Lo-Z microphone inputs as found on PA or recording mixers. It is intended in place of external mics or used as a built in direct box.
- 2.) **CD/Tape Input** - this 1/4" 3 conductor jack will allow you to plug in a CD player, tape or any other source to practice along with. It sums the left and right signals into a mono signal. To control the volume of the source, adjust the output volume of the device.
- 3.) **Guitar Input Jack** - this is a 1/4" 2 conductor input jack for plugging in your instrument. It is intended for guitars but will accept other instruments as well.
- 4.) **Lead Gain** - adjust this clockwise to increase the amount of distortion you add to the overdrive signal. Used in the lower ranges of the control, you get a less distorted sound, a "bluesy" tone. As you increase the gain, you add tremendous amounts of distortion to the signal for a harder edged "crunch" tone.
- 5.) **Boost**- this switch will add more distortion to the lead channel.
- 6.) **Low** - this control is the bass control for the lead 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.) **Mid** - this control is the midrange control for the instrument channel and is passive and set to shelve frequencies at 800Hz. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the low will be rolled off -12db.
- 8.) **Preamp Switch**- this switch selects which preamp style you are using. It will switch between the classic USA warm sound or Brighter sound famous in the UK.
- 9.) **High** - 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.) **Lead Channel On LED** - when this LED light is on, it indicates that the Lead Channel is on.
- 11.) **Volume** - this is a volume control for the Lead Channel ONLY.
- 12.) **Channel Select Switch** - this switch selects between the Lead or Rhythm Channel.
- 13.) **Bass** - this control is the bass control. It is passive and set to shelve frequencies at 100Hz. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the low will be rolled off -12db.
- 14.) **Middle** - this control is the midrange control for the instrument channel, and is passive and set to shelve frequencies at 1KHz. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the low will be rolled off -12db.
- 15.) **Preamp Switch** - when engaged, this switch will boost the treble sound of the Rhythm channel. It boosts 3 KHz by +6 db.
- 16.) **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.
- 17.) **Rhythm Channel On LED** - when this LED light is on, it indicates that the Rhythm Channel is on.
- 18.) **Volume** - this is a volume control for the Rhythm Channel ONLY.
- 19.) **Effects On/Off** - this switch engages the digital effects section.
- 20.) **Effects Level** - this control adds the digital effects section and mixes it into the main signal buss. Several different effects are available.
- 21.) **Program Select** - this switch will select any of eight different effects. 2- Reverbs, 2- Echos, Chorus, Chorus/Reverb, Flange/Reverb and Tremolo.
- 22.) **Jewel Light** - this jewel light lets you know that the amplifier is on.
- 23.) **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.

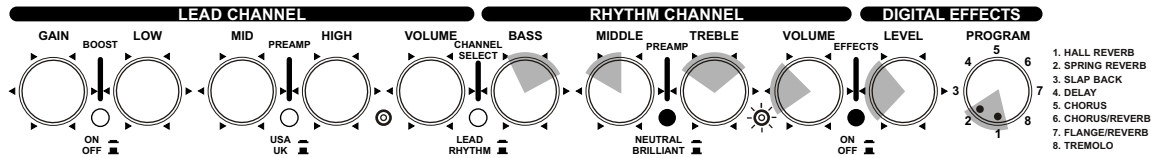
Line Output - this is a 2 conductor 1/4" line output jack. This will allow an external amplifier or mixing board to be supplied with the signal from this amp.

Effects Loop I/O - these are 2-2 conductor 1/4" jacks. This 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 3 conductor 1/4" jack. This is for hooking up a footswitch to switch channels and to turn on/off the effects section.

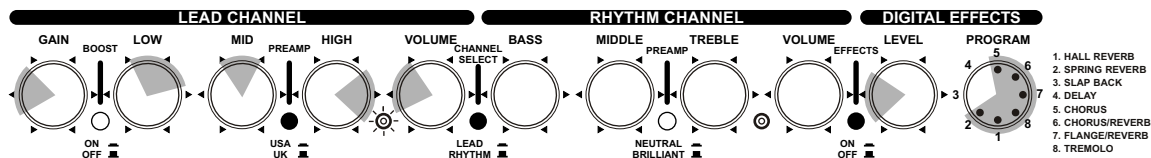
Suggested Settings

(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.)

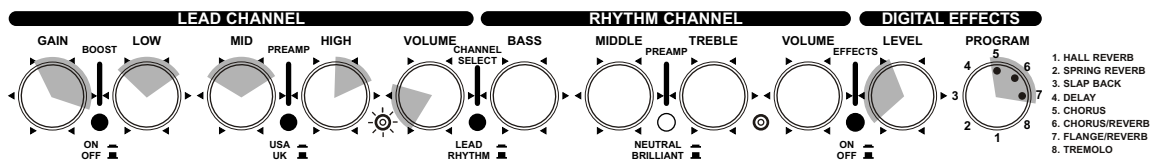


Clean Rhythm or Country Guitar - these settings are the basic clean sounds and for general rhythm guitar, country lead guitar, and funky/chunky rhythm sounds. Usually, country guitar is a brighter, more trebly edged sound. The bottom end depends on what type of guitar you are using. Reverb and Chorus depends on taste.

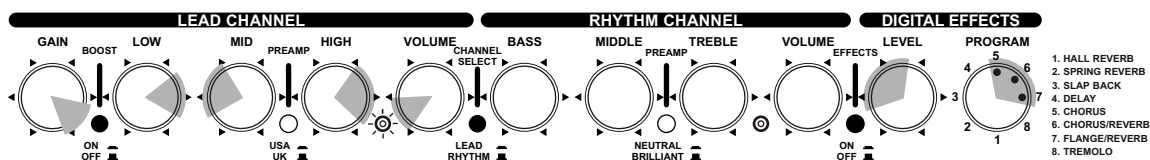
Rhythm guitar is mostly a clean full type of sound. A little less treble than the country sound and a bit more midrange. Reverb and Chorus, again depends on taste.



Blues Lead or Mellow Crunch - this setting is particularly useful in blues or softer rock songs and it is good for leads as well as rhythm parts. It is good for power chords in back of leads. You need to switch to the lead channel to make these settings work. Blues, depending on the guitar you use, usually adds treble but with more midrange and a "fat" bottom end. This setting does not have as much gain as full out crunch, adjust the gain control to the amount of distortion you desire. Blues usually has a reverb trail on the notes. Chorus is sometimes used to create a vibrato style sound. Adjust to taste.



Alternative/Harder Edged Rock - this setting will deliver more of a cutting tone. Whether used for rhythm or lead sounds, it will "cut" through the drums and get you heard. If you need more "grunge", increase the gain control for more distortion. This style of music requires a slightly thinner, harder edged tone full of midrange. Less reverb is required as it tends to muddy up faster songs but Chorus give the tone a fatter fuller sound. Adjust to taste.



Heavy Metal/Maximum Crunch - this setting is a good starting point for the "notched out middle" sounds associated with metal and heavy alternative sounds. Adjust the Treble, Lows, Reverb and Chorus to taste. Usually, for a rhythm tone, you want to have more lower end and less for leads. Distortion is an integral part of this style of music and this amp delivers it quite well.

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