CHANDLER LIMITED®

TG CHANNEL MKII

Thank you for purchasing the Chandler Limited TG Channel Mic Amplifier and Equalizer. This unit is proudly hand wired and assembled in the USA. It is made with 100% discrete components, specially wound transformers, and has been precisely designed to match their vintage cousins. Included are item descriptions and hints to get you on your way.

Please feel free to call our shop anytime for help or questions.

Prior to sending in your gear for repair, please contact our shop at the number below. We will assist you in troubleshooting the problem and if needed, we will issue you an RMA# to send in the gear.

Send repairs to: Chandler Limited, Inc.
Attention: Repairs
222 S. Cherry St.
Shell Rock, IA 50670

Phone: (319) 885-4200
Email: support@chandlerlimited.com

Connections - All connections on the TG Channel are transformer balanced with pin 2 hot.

Power Supply - The TG Channel is designed to be used with the Chandler Limited PSU-1 MKII.

The power pin out is as follows:
1) Chassis and audio ground
2) +48 volt
3) +28 volt
4) -28 volt

Notes on Grounding - The back of the power supply has two black banana connectors. These join the audio ground to the earth ground with a solid wire between them. Depending on your studio you may want to connect or disconnect this. Turn up your monitors or headphones to experiment with which has a lower noise floor in your system. You may also need to join the audio banana plug to other sections of your studio to obtain the lowest noise floor. The connectors are located near the closest edge of the power supply case. Use something simple, like a guitar cord, and touch the tip to other portions of your studio to find the best results.

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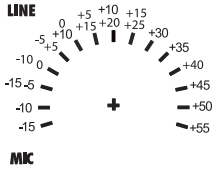
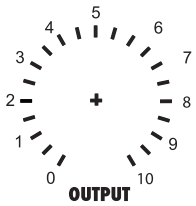
The Controls

Input Gain/Mic-Line Level - The TG Channel has balanced mic and line inputs, which are controllable from the front panel of the unit on the right side. The unit has a transformer balanced 600 ohm impedance microphone input and a transformer balanced line input set to 10k impedance. Pressing the line push button selects between the line and mic functions. Please note on the front panel that the line gain is in white, while mic is in yellow. Also note, the line will function above and below the marked positions although this is unmarked on the front panel. Use this to make harmonically rich and/or fuzzy sounds, by cranking up the line (or mic).

A NOTE ABOUT GAIN STRUCTURE - We have found it very helpful to run the unit at slightly lower gain than you normally might because of the types of curves on the equalizer and the large amounts of boost available. For example, in line you may want to run at -5db instead of the more standard 0db. This is especially helpful when using lots of low boost. Do not be afraid to play with this idea.

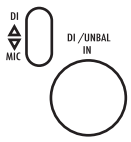


Output - Functioning as a console fader, this control is placed after the gain stage and before the output stage. This allows for trimming of the input signal between the 5 db steps on the input switch, as well as allowing the user to run the input very hot (for extra coloration) without distorting the recorder. In most cases this will be left in the full position.



Pushbuttons - These switch the various functions of the Channel. 48v switches phantom power. Phase reverses the polarity of the input section. Line selects between mic and line inputs. Push in for line function. EQ inserts the equalizer section.

DI/Unbalanced In - This is an unbalanced input for guitar, bass, samples, etc. Simply throw the toggle switch and you're off.



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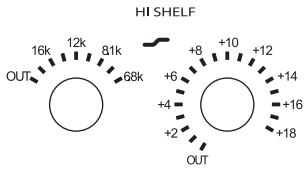
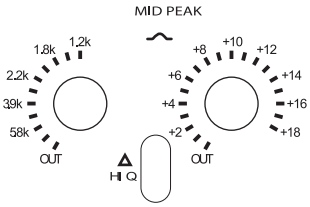
The Equalizer

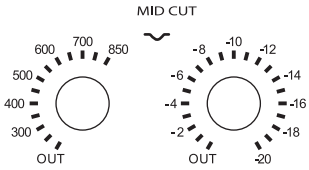
High Shelf - This is a capacitor based high boost with 18 dB of gain and a shelving characteristic. The EQ points are 16K, 12K, 8.2K, and 6.8K.



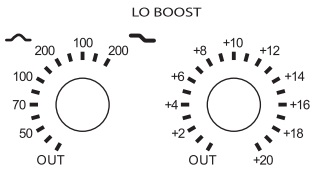
Mid Peak - This is an inductor based mid frequency peak with 18dB of boost, and a high Q switch to sharpen the curve. The Q also sharpens the more you boost. The EQ points are 5.8k, 3.9k, 2.2k, 1.8k, and 1.2k.



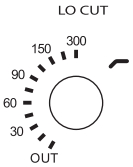
Mid Cut - This is an inductor/capacitor mid frequency EQ with 20db of cut, and 6 positions of very sharp Q. This section was specifically designed to fix problem areas and remove unwanted frequencies. The lower points are very sharp Q to notch out mushy or flabby areas, and the higher frequencies are slightly wider for a more gentle sound. The EQ points are 300, 400, 500, 600, 700, and 850hz.



Low Boost - The inductor based low boost section combines shelf and boost settings on the same control. Each type were chosen for a selected sound. The shelf portion is a very gradual curve with boost beginning well before the specified frequency. For example, the 65hz setting is actually the point of highest boost, the unit actually starts boosting at about 300hz. I have found these settings best suited for guitar, some types of bass, and general thickening.
This unit was more or less designed around the VERY large sounding bass peak section. The 50 and 70hz peaks are huge and optimized for kick drum and bass. The 100 and 200 were made specifically for guitar, and some bass parts. On all peak selections the "Q" of the frequency increases with more boost, i.e., +16db is much sharper than +4db. Take the time to try these and learn the differences, you will be glad you did. The boost control gives a massive 0-20db boost in 2 db steps.



Low Cut - This is a 5-position switch that gently rolls off the low frequencies at 30, 60, 90, 150, and 300hz.



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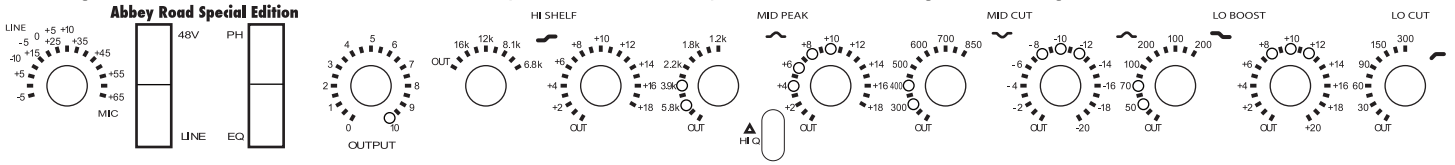
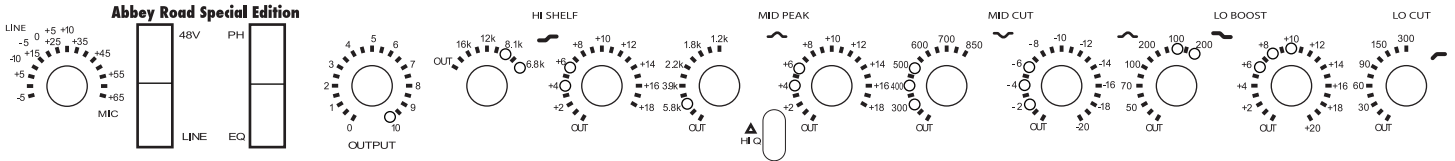
Suggestions

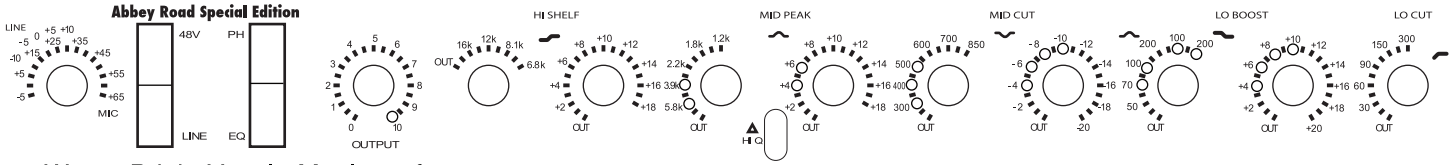
Huge Kick Drum - AKG D12/D112. Keep mic level low if possible. You will get much tighter lows!



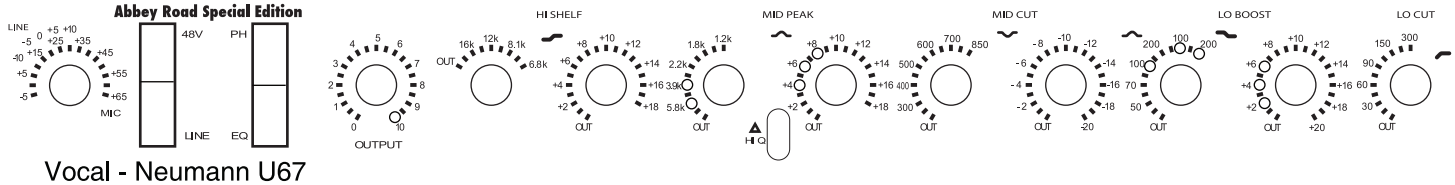
Small Combo Big Sound - Neumann mic, Fender Champ or Vox Pacemaker



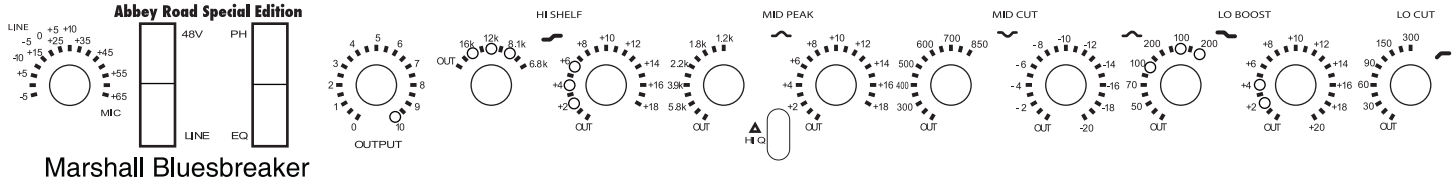
Bass DI - Direct out from Ampeg SVT



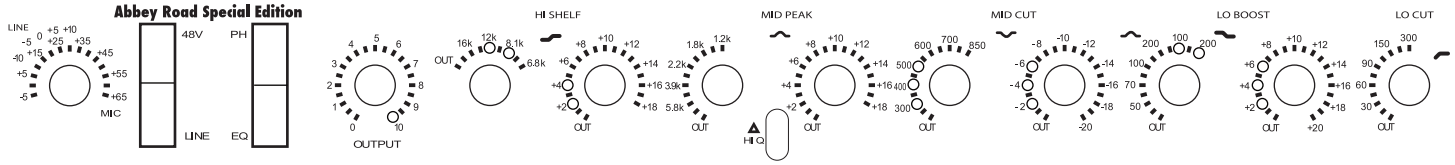
Warm, Bright Vocal - Manley reference



Vocal - Neumann U67



Marshall Bluesbreaker



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CE Certification

Chandler Limited declares under its sole responsibility that all products manufactured by them are in compliance with EC directives 2004/108/EC Electromagnetic Compatibility; 2004/108/EG Electromagnetic Compatibility; 2006/95/EC Low Voltage Equipment Safety.