

TG1 LIMITER

Thank you for purchasing the Chandler Limited TG1 Compressor/Limiter. 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 TG1 are transformer balanced with pin 2 hot.

Power supply - The TG1 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

The Controls

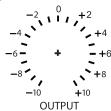
Hold - This control functions as input gain/threshold. Crank this up and adjust the output to really hear it work! Please note that with this control all the way down you will get no sound.



Comp/Limit - This switch selects between compress and limit functions of the unit. It selects between a 2:1 compressor or a limiter with up to 20db of limiting. The limiter has a very classic pumping/breathing sound, while the compressor is less drastic sounding and has a sound all its own. Both can be mean and nasty or more subtle depending on the Hold and Recovery settings (see below). As a general rule limit might be more usable for tracking and effect type sounds, while comp might be better for mixing.



Output/Gain Make Up - A 21-position switch set to 1db steps giving +/-10db of output adjustment for level matching as well as accurate recallable gain make up.



Recovery - This switch is marked 1-6 because the release times change when switching between compress and limit (#1 being the fastest to #6 being the slowest). This control is important for varying the sound of the unit. As compression is slowed it greatly affects the amount and sound of the gain reduction. Listen closely to the changes it makes.

0.05, 0.1, 0.25, 0.5, 1, & 2 seconds. Recovery times - Limit Mode

0.25, 0.5, 1.20, 2.5, 5, & 10 seconds. Compress Mode

Limit Mode 8ms charging time. Attack times -

47ms charging time. Compress Mode



RECOVERY

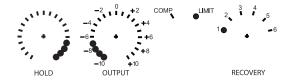
Stereo Link - When linked in stereo you must set the release time on both channels to the same setting. In this condition whichever unit is working harder becomes the "master" channel.

THD - Allows bypassing of the compressor/limiter threshold but leaves all circuits in the signal path, turning the unit into a powerful harmonic distortion generator, capable of kicking out up to 2% Total Harmonic Distortion.

IN/OUT - A true hardwire bypass.

Suggestions

Vintage Limiting Settings - The TG1 can easily produce classic over the top limiting sounds from your favorite vintage recordings. This is best done by boosting the input Gain/Hold until you get the desired effect while adjusting the output gain to match levels. Set Recovery to #1 (fastest) to give you the most bang! You can easily go from smooth vintage to the craziest sound imaginable (like a Fairchild 670 about to explode) by varying the gain in this way.



"EQ the Limiter" - We have also had great results using a nice EQ such as an LTD-1 (1073 style) or TG Channel (Pultec style) and boosting frequencies into the limiter, causing it to clamp down hard on those areas and produce some interesting pumping sounds. 5k on a vocal or 5k and 50hz on a drum room mic will give you a lovely Beatles Sgt. Pepper's flashback.

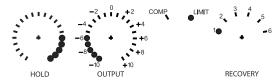
General Limit Settings - For general use you may want to back off on the Hold, but you can get these sounds by setting Recovery to #2-6 when the Hold/gain is still set high. This will work for either compress or limit.



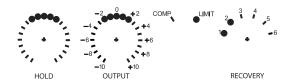
Getting Less Limit - If you are getting more limit than you want at the very low hold settings, try setting the recovery times slower. Setting the recovery to #3-6 can be very effective.

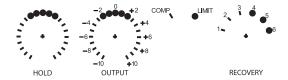


Drum Room Mics - My favorite way to use the TG1 for drums is on a single room mic. Place it 5-10 feet from the kick pointing slightly down. I prefer a ribbon of some sort as they are less bright and counteract the swishing you can get from the cymbals. Crank up the input and keep the recovery fast. I prefer to squeeze it very hard, and then mix in what I need below the track.

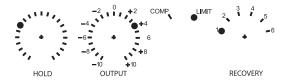


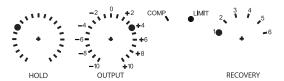
Eddie Kramer Trick - As Eddie showed us, running two channels in a series can be very cool! Patch them together and set the first to limit with fast recovery, and the second to comp with slow recovery. Adjust the Holds for desired amount of reduction. TRY THIS ONE.





Michael Brauer Buss Mixing - Michael uses a buss to send tracks through the limiter. He then returns them on another set of console faders and mixes them underneath the uncompressed sound. Drums and bass together, when done this way, can give the track some nice glue to hold it together. These are his settings.







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.