

Behringer T1952

Behringer T1952 2-Channel Tube Compressor/Limiter User Manual

INTRODUCTION

The Behringer T1952 is a professional 2-channel tube compressor/limiter designed to enhance audio dynamics and prevent signal clipping. This unit integrates a compressor/limiter, gate/expander, and peak limiter into a single device, offering versatile dynamic processing for studio and live applications. This manual provides essential information for the safe and effective operation of your T1952.

SAFETY INSTRUCTIONS

Please read and follow all safety instructions before operating the device. Retain this manual for future reference.

- **Power Supply:** Use only the specified power adapter (9 Volts, 50 Milliamps) to avoid damage.
- **Water and Moisture:** Do not expose this appliance to rain or moisture. Do not place objects filled with liquids on the apparatus.
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings.
- **Heat Sources:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Cleaning:** Clean only with a dry cloth.

SETUP

1. Unpacking

Carefully remove the T1952 unit and all accessories from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. In case of damage, contact your dealer immediately.

2. Connections

The T1952 features 1/4-inch audio inputs and outputs. Ensure all connections are secure before powering on the device.

- **Audio Inputs:** Connect your audio source (e.g., microphone preamp, mixer output) to the **INPUT** jacks on the rear panel.
- **Audio Outputs:** Connect the **OUTPUT** jacks to your next audio device in the signal chain (e.g., mixer input, recording interface).
- **Power Connection:** Connect the provided power adapter to the **DC IN** jack on the rear panel and then to a suitable power outlet.

3. Initial Power-On

After all connections are made, switch on the T1952 using the power button. Observe the indicator lights to confirm the unit is receiving power.

OPERATING

The T1952 offers a range of controls for dynamic processing. Familiarize yourself with each control to achieve desired audio effects.

Controls Overview

- **INPUT/OUTPUT Gain:** These knobs adjust the signal level entering and exiting the unit.
- **THRESHOLD:** Sets the audio level at which the compressor or gate begins to operate.
- **RATIO:** Determines the degree of compression applied once the threshold is exceeded.
- **ATTACK/RELEASE:** Control how quickly the compressor reacts to signals above the threshold (attack) and how quickly it returns to its original state once the signal falls below the threshold (release).
- **AUTO Function:** Engages an automatic mode for attack and release times, simplifying setup for various audio sources.
- **KNEE:** Selects between "Interactive Knee" (soft knee) and "Hard Knee" compression modes. Soft knee provides a more gradual compression curve, while hard knee offers a more abrupt transition.
- **GATE/EXPANDER:** Controls the noise reduction function. The gate mutes signals below the threshold, while the expander reduces their level.
- **PEAK LIMITER:** Prevents the audio signal from exceeding a user-defined maximum level, protecting subsequent equipment from overload.

Stereo Link Operation

The T1952 features a "True RMS stereo link" function. When activated, this links the control circuitry of both channels, ensuring that compression and gating are applied identically to both left and right channels of a stereo signal. This prevents image shifting and maintains a stable stereo field.

MAINTENANCE

Cleaning

To clean the unit, use a soft, dry cloth. Do not use any liquid cleaners or solvents, as these may damage the finish or internal components.

Storage

When not in use for extended periods, store the T1952 in a cool, dry place, away from direct sunlight and extreme temperatures. Disconnect the power adapter.

TROUBLESHOOTING

If you encounter issues with your T1952, refer to the following common problems and solutions:

- **No Sound Output:**
 - Check all audio cable connections.
 - Ensure the unit is powered on and indicator lights are active.
 - Verify input and output gain settings are not set to minimum.
 - Check if the gate/expander threshold is set too high, muting the signal.
- **Distorted Sound:**
 - Reduce input gain to prevent clipping.
 - Adjust compression ratio and threshold settings.
 - Ensure connected devices are properly gain-staged.
- **Controls Not Responding:**
 - Power cycle the unit (turn off, wait 10 seconds, turn on).
 - Ensure no physical obstructions are preventing knob rotation.

If the problem persists after attempting these solutions, please contact Behringer customer support.

SPECIFICATIONS

Feature	Detail
Brand	Behringer
Model Number	T1952
Signal Format	Analog
Hardware Interface	1/4-inch Audio
Power Source	Corded Electric
Voltage	9 Volts
Amperage	50 Milliamps
Audio Output Effects	Compression
Controls Type	Knob

WARRANTY

Behringer products are covered by the manufacturer's warranty within one year of the original date of

purchase from an authorized Behringer dealer. If your Behringer product is still under warranty, you must obtain a Return Authorization (RA) number from Behringer before sending your product to an authorized service center for warranty service. Please retain your proof of purchase for warranty claims.

SUPPORT

For further assistance, technical support, or service inquiries, please visit the official Behringer website or contact your local Behringer dealer. You can find contact information and additional resources on the Behringer support page.