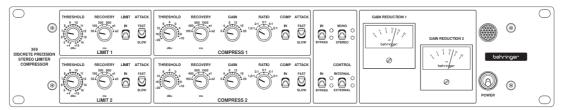


# behringer 369 Classic 2 Channel Precision Stereo Compressor and Limiter Installation Guide

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369 Classic 2 Channel Precision Stereo Compressor and Limiter Installation Guide



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Classic 2-Channel Precision Stereo Compressor and Limiter with Custom-Built Midas Transformers

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**Important Safety Instructions** 



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with 1/4" TS or twist-locking plugs pre-installed.

All other installation or modification should be performed only by qualified personnel.

This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.

This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

# **⚠** Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside.

Refer servicing to qualified personnel.

# **⚠** Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

# **⚠** Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions.

Repairs have to be performed by qualified service personnel.

# ⚠ Warning

Please refer to the information on the exterior of bottom enclosure for electrical and safety information before installing or operating the device.

- 1. Please read and follow all instructions and warnings.
- 2. Keep the apparatus away from water (except for outdoor products).
- 3. Clean only with dry cloth.
- 4. Do not block ventilation openings. Do not install in a confined space. Install only according to manufacturer's instructions.
- 5. Protect the power cord from damage, particularly at plugs and appliance socket.
- 6. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- 7. 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 (only for USA and Canada). 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.
- 8. Protect the power cord from damage, particularly at plugs and appliance socket.
- 9. Use only attachments and accessories recommended by the manufacturer.
- 10. Use only specified carts, stands, tripods, brackets, or tables. Use caution to prevent tip-over when moving the cart/apparatus combination.
- 11. Unplug during storms, or if not in use for a long period.
- 12. Only use qualified personnel for servicing, especially after damage.
- 13. The apparatus with protective earthing terminal shall be connected to a MAINS socket outlet with a protective

earthing connection.

- 14. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- 15. Avoid installing in confined spaces like bookcases.
- 16. Do not place naked flame sources, such as lighted candles, on the apparatus.
- 17. Operating temperature range 5° to 45°C (41° to 113°F).

#### **LEGAL DISCLAIMER**

Music Tribe accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph, or statement contained herein. Technical specifications, appearances and other information are subject to change without notice. All trademarks are the property of their respective owners. Midas, Klark Teknik, Lab Gruppen, Lake, Tannoy, Turbosound, TC Electronic, TC Helicon, Behringer, Butera, Aston Microphones and Cool audio are trademarks or registered trademarks of Music Tribe Global Brands Ltd. © Music Tribe Global Brands Ltd. 2024 All rights reserved.

#### LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at **community.musictribe.com/support**.

#### 369 Getting started

#### Step 1: Getting started

#### Unpacking

Carefully unpack your 369 unit. Then, inspect the unit carefully for any signs of damage that may have occurred during transit and notify the courier immediately if you discover any.

Check the contents of your 369 equipment package. If there are any parts missing, incorrect or faulty, please contact your local distributor or Behringer support.

Inside this box, you should find the following items:

- 369
- IEC power cable
- · Quick Start Guide

Please retain the original packing in case you should need to return the equipment to the manufacturer or supplier, or transport or ship the unit later.

# Installation

Before installing and operating this equipment, make sure it is correctly connected to the protective earth conductor of the mains voltage supply socket outlet through each mains lead.

Ideally a cool area is preferred, away from power distribution equipment or other potential sources of interference. Do not install the equipment in places of poor ventilation. Do not install this equipment in a location subjected to excessive heat, dust or mechanical vibration.

Allow for adequate ventilation around the equipment, making sure that its vents are not obstructed.

Whenever possible, keep the equipment out of direct sunlight.

#### Power

The internal power supplies are of the switch mode type that automatically senses the incoming mains voltage and will work where the nominal voltage is in the range 100 VAC to 240 VAC.

The correct leads for connection in the area to which the unit was shipped are supplied with the unit.

The equipment should only be plugged into the mains outlets using the supplied leads.

Make sure the plug fitted on the supplied mains cable is securely fitted to the mains IEC connector on the unit. When fitting or removing a plug, always hold the plug itself and never use the cable, as this may damage it. Never insert or remove an electric plug with wet hands.

#### Connecting up

The 369 unit uses the following leads and connectors:

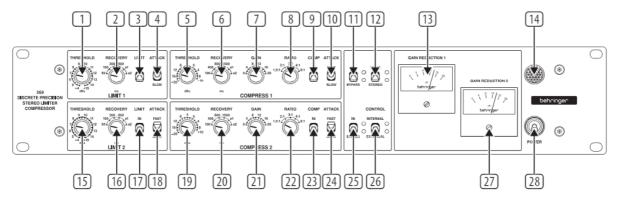
Power Connection: Standard IEC cable

Inputs: 3-pin XLR Female Outputs: 3-pin XLR Male

Tandem Control Voltages /15 Pin D-sub Female, for multi-channel compression

External Control Signals: and remote control

# Controls Step 2: Controls



# FRONT PANEL LIMITER SECTIONS

1. **& 15. THRESHOLD** – use these controls to set the limiter threshold for channels one and two.

The available range is +4 dBu to +15 dBu in 0.5 dBu steps.

2. **& 16. RECOVERY** – use these controls to set the recovery time when limiting has taken place.

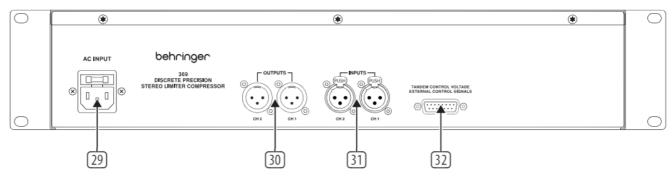
The available times are 50 ms, 100 ms, 200 ms, 800 ms plus two automatic presets which have the ranges 100 ms - 2 s (a1) and 50 ms - 5 s (a2).

- 3. & 17. LIMIT IN use these switches to switch the limiter function on or off.
- 4. **& 18. ATTACK** use these switches to set the preset attack time of the limiters. Fast is 2 ms, Slow is 4 ms. COMPRESSOR SECTIONS
- 5. **& 19. THRESHOLD** use these controls to set the compressor threshold for channels one and two. The available ranges is -20 dBu to +10 dBu in 2 dB steps.
- 6. **& 20. RECOVERY** use these controls to set the recovery time when compression has taken place. The available range is 100 ms to 1500 ms plus two automatic presets.
- 7. **& 21. GAIN** use these controls to add make up gain to the compressed signal, the available range is 0 dB to +20 dB in 2 dB steps.
- 8. **& 22. RATIO** use these controls to set the compression ratios. The available ratios are 1.5:1, 2:1, 3:1,4:1 and 6:1.
- 9. **& 23. COMPRESSOR IN –** use these switches to switch the compressor function on or off.
- & 24. ATTACK use these switches to set the preset attack time of the compressors. Fast is 3 ms, Slow is 6 ms.
- 11. **& 25. BYPASS** use these switches to bypass the processing for either channel. When a channel is bypassed the input signal feeds directly to the output sockets. Bypass is automatically enabled when the unit is powered down.

- 12. MONO/STEREO use this switch to select MONO mode, where the two channels work independently; or STEREO, where the two side chains are linked together internally, so the amount of gain reduction is always equal in both channels. Controls are not linked together, so the gain reduction will be controlled by whichever channel has the highest gain reduction.
- 13. & 27. METERS these analog meters indicate the gain reduction being applied to either channel, in the range 0 dB to 20 dB.
  - 26. CONTROL use this switch to select whether the 369 is controlled using its own settings for Bypass and Stereo/Mono (INTERNAL) or by remote control received at socket 32 on the rear panel (EXTERNAL).

#### 14. POWER INDICATOR

#### 28. POWER SWITCH



#### **REAR PANEL**

- 29. **IEC C13 MAINS INLET SOCKET** the 369's power supply accepts voltages in the range 100 240 V at either 50 or 60 Hz.
- 30. **OUTPUTS** the outputs from channels one and two are available on Neutrik<sup>TM</sup> balanced 3 pin XLRs using MIDAS<sup>TM</sup> custom output transformers. Maximum output level is > 26 dBu into 600  $\Omega$ .
- 31. **INPUTS** the inputs are available on Neutrik<sup>TM</sup> balanced 3 pin XLRs using custom MIDAS<sup>TM</sup> custom input transformers. Input impedance is 10 k $\Omega$ , which can be changed to 600  $\Omega$  by a qualified service technician.
- 32. **TANDEM CONTROL VOLTAGES** use this 15 pin D-sub socket to remote control the Mono/Stereo and Bypass functions (when switch 26 is set to EXTERNAL).

#### The pin configuration is:

Pin	Used for
1	0 V Common (Ground)
2	1 & 2 Bypass Switch (do not use if you are using separate bypass switches on pins 10 & 11)
3	Stereo/Mono In
4	+5 V
5	Channel 2 control voltage
6	Channels 1 & 2 Bypass Tally
7	Stereo Tally
8	External Control Tally
9	Channel 1 control voltage
10	Channel 2 Bypass Switch (do not use if you are using 1 & 2 Bypass on Pin 2)
11	Channel 1 Bypass Switch (do not use if you are using 1 & 2 Bypass on Pin 2)
12	Not Used
13	Channel 2 Bypass Tally
14	Channel 1 Bypass Tally
15	Not Used

Momentary switch connections are made between pin 4 (+ 5 V) and the relevant pin. Tally connections are made by wiring an LED between the relevant pin and pin 1 (Ground).

If you are using more than one 369 unit, then the control voltages on Pins 5 or 9 can be linked between two or more units to enable multi-channel compression.

#### Other important information

#### **Important information**

# 1. Register online.

Please register your new Music Tribe equipment right after you purchase it by visiting musictribe.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently.

Also, read the terms and conditions of our warranty, if applicable.

### 2. Malfunction. Should your

Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under "Support" at musictribe.com. Should your country not be listed, please check if your

problem can be dealt with by our "Online Support" which may also be found under "Support" at music tribe. com. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.

#### 3. Power Connections.

Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

#### FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

### Behringer 369

Responsible Party Name: Music Tribe Commercial NV Inc.

Address: 122 E. 42nd St.1, 8th Floor NY, NY 10168, United States

Email Address: legal@musictribe.com

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Important information:

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.

Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC. Full text of EU DoC is available at <a href="https://community.musictribe.com/">https://community.musictribe.com/</a>

EU Representative: Music Tribe Brands DK A/S

Address: Gimmel Strand 44, DK-1202 København K, Denmark

UK Representative: Music Tribe Brands UK Ltd.

Address: 8th Floor, 20 Farringdon Street London EC4A 4AB,

United Kingdom



Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

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**Documents / Resources** 



<u>behringer 369 Classic 2 Channel Precision Stereo Compressor and Limiter</u> [pdf] Installatio n Guide

369 Classic 2 Channel Precision Stereo Compressor and Limiter, 369, Classic 2 Channel Precision Stereo Compressor and Limiter, Channel Precision Stereo Compressor and Limiter, Precision Stereo Compressor and Limiter, Compressor and Limiter, Limiter

# References

- Music Tribe
- Music Tribe
- Music Tribe
- Music Tribe
- User Manual

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