# gorila

//// dedalo

**BASS COMPRESSOR**

Optical Compression
Limiter W/threshold Control
Clean-signal Blend Control
Studio-grade Operational Amplifier
Compression Indicator LED
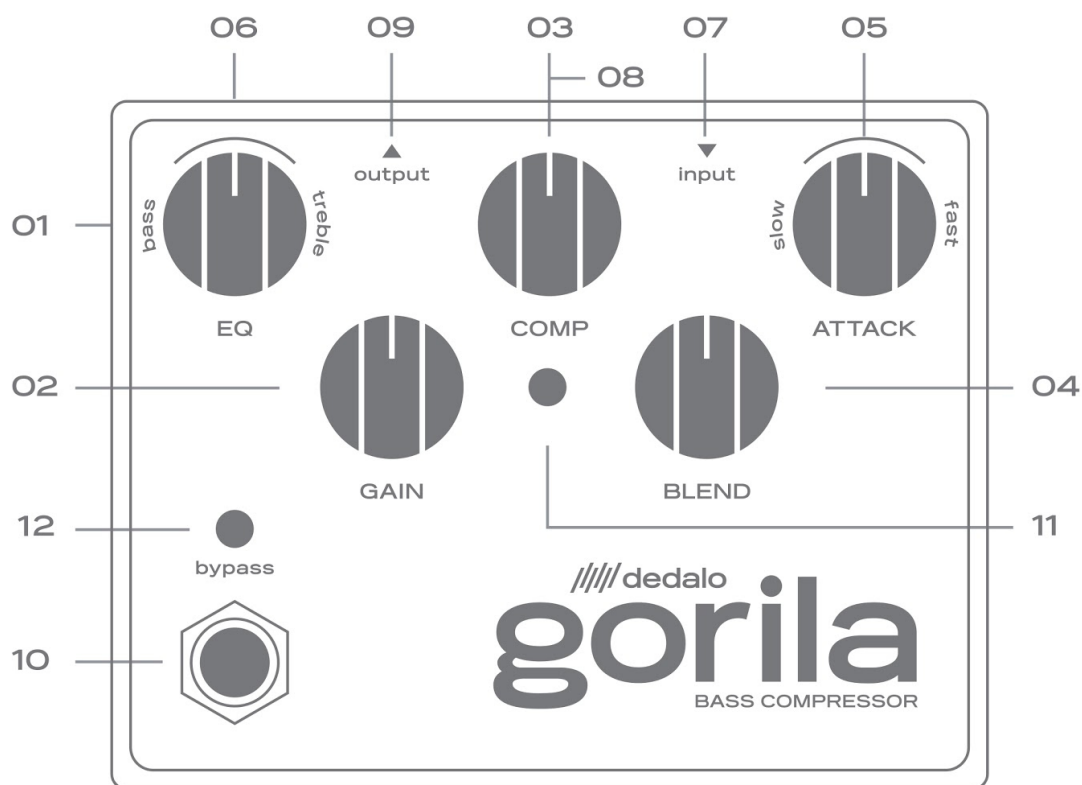Balance "TILT" Equalizer
Minimum Noise Level
True Bypass

## USER MANUAL

GOR 4 Rev 15/05/2021

# Congratulations, you got the Gorila!

The Gorila is a professional bass compressor. With its optical technology and studio-grade opamp, it was designed to bring recording studio quality to the pedal format.

Equiped with parallel compression capabilities and an extra limiter stage, you can shape the sound of your bass to perfection. Be it on stage, in the studio, with an amplifier or direct to the PA, the Gorila is all you need for precise and powerful control of your bass.

## Controls

**01 - EQ** Tilt-type Equalizer: This equalizer works as a balance of high versus low frequencies, centered at 250hz. With the control in the middle, the EQ is flat. The Eq is applied on the already compressed signal.

**02 - GAIN** Recovery gain on the compressed signal, to match the level with respect to bypass. In the minimum position the gain is unity.

**03 - COMP** Compressor threshold: signal level from which the compressor operates and begins to reduce the gain. In practice, it controls the amount of leveling applied, as it determines how much sound is affected to the compressor. (see [graph])

**04 - BLEND** Level of the original clean signal, which is summed in parallel to the compressed and equalized sound. This can be used to simply soften the compression by effectively reducing the ratio, to restore transients affected by the compressor, or combined with the Eq to achieve selective compression of bass or treble frequencies.

**05 - ATTACK** Attack time of the envelope detector. Controls the reaction time of the compressor. A slower attack time lets more of the transient (the initial peak of each note) pass thru. This control affects only wide sound variations, typically the beginnings of each note, thanks to the Adaptive Attack circuitry: slowly varying sounds are compressed with a slow, fixed attack time, achieving effective but much more transparent compression.

**06 - LIMIT** *-side control-* Threshold of the soft-clipping Limiter. Turning it counterclockwise lowers the threshold, effectively cutting off the signal portions that exceed it. In a normal setting, transparent control of the peaks is achieved, and as the threshold is lowered, more of the sound is affected, generating a compacted audio and increasing its saturation.

**07 - INPUT** Effect input, connect your instrument here.

**08 - DC 9V** Power supply input, connect your dc adapter here.

**09 - OUTPUT** Effect output, connect your amplifier here.

**10 - TRUE BYPASS** Turns the effect on and off. The True Bypass switch allows you to keep your sound intact when the effect is off.

**11 - Compression indicator LED** Lights when the compressor is effectively reducing gain. Normal settings are achieved when this LED briefly lits at the peaks of each note. If it is constantly lit, it represents a high level of compression to the entire sound.

**12 - LED** Lights up when the effect is engaged

## Use and care of the pedal

· To place a battery, remove the lid by removing screws.
· Use only regulated 9v dc adapter, with negative center polarity. In no way should be connected to 220V or adapters of other kinds.
· Avoid dropping, hitting or exposing the pedal to extremes of humidity or temperature.
· Disconnect the input when the pedal is not in use to avoid battery drain.
· Remove the battery if you don't plan to use the pedal for a long time.
· To clean the pedal, use a dry cloth.
· Do not remove the protective silicone legs, they protect the pedal from shocks and external pressures.

## Problems and solutions

· *The LED lights up but there is only sound when the effect is in bypass:*
Make sure the instrument is properly connected to the INPUT jack, and the amplifier to the OUTPUT jack.
· *The indicator LED doesn't light up:*
The pedal is not connected to a working DC adapter, or to a charged battery.
· *The effect is too weak, or the sound is unduly saturated:*
Put a new battery or try an appropriate DC adapter. If the pedal is connected in a loop, check its send and return levels.
· *The pedal makes a high pitched whine:*
The battery has insufficient charge.
· *The pedal makes a low pitched hum:*
Feed the pedal with a regulated dc adapter of sufficient amperage
· *The sound cuts out intermittently:*
Check connections and cables.

# Terms of warranty

· The warranty is only valid for the original owner for 2 years from the date of purchase.
· The warranty must be requested on the trade where the pedal was acquired.
· DEDALO ensures that the pedal is free from defects in materials and workmanship.
· DEDALO will choose to repair or replace any faulty piece on the pedal at its sole option.
· Failures due to accident or misuse are not covered in the warranty.
· DEDALO is not responsible for any loss or damage the user may suffer as a result of using the pedal.
· Batteries or power adapter are not included in the warranty.
· In this pedal there is no piece that could be repaired by the user. The repair or modification by personnel not authorized by DEDALO will void the warranty.
· Shipping or other fees that may arise, are not covered by warranty

## Register your pedal
*www.dedalofx.com.ar/register*

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# APPENDIX

## Technical specifications
**GOR-4 / 2021 Model**

True Bypass

Input impedance: 700Kohm

Power supply: DC 9v center negative or 9v alcaline battery

Power consumption: 20mA @ 9v DC

Dimensions: 12cm x 9.4cm x 5.4cm

Weight: 475gr

Equalizer: +/- 3dB, center frequency 250hz

Attack time: 10ms to 42ms

Release time: 400ms + 1-5seg of final release

Ratio 4:1, max gain reduction 18dB
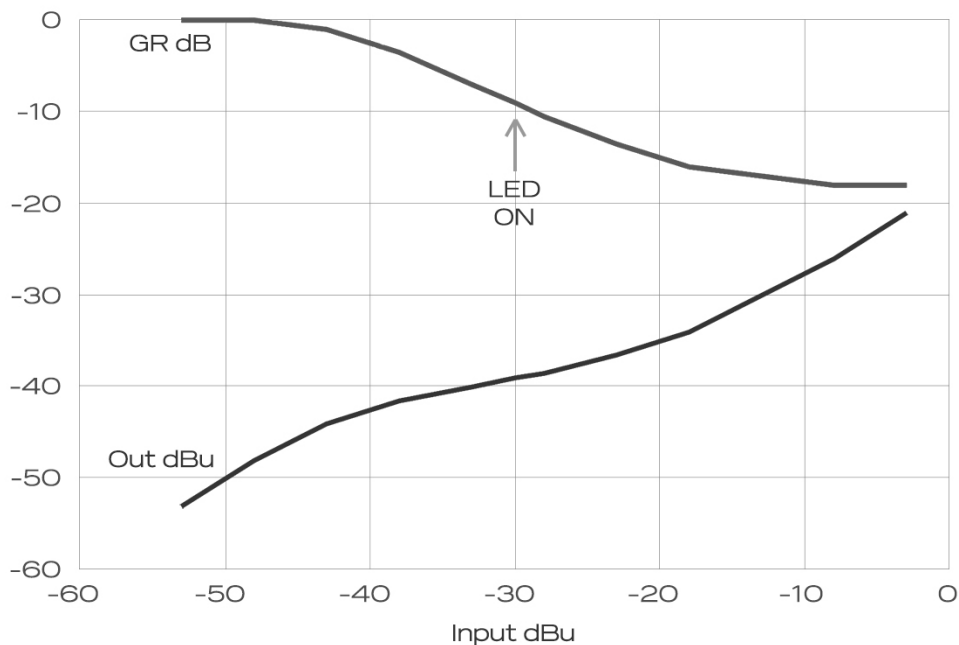
Max Input Level: +4dBu

Limiter threshold 50%: -2,6dBu

THD: less than 2% @ +4dBu

Frequency range: 20hz a 20Khz

## Compression Graph
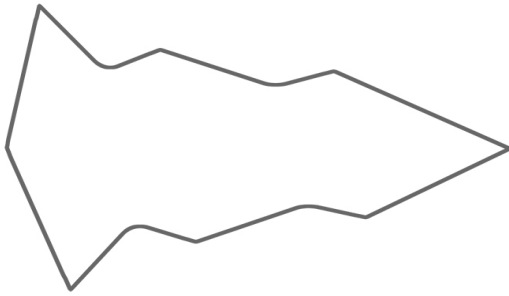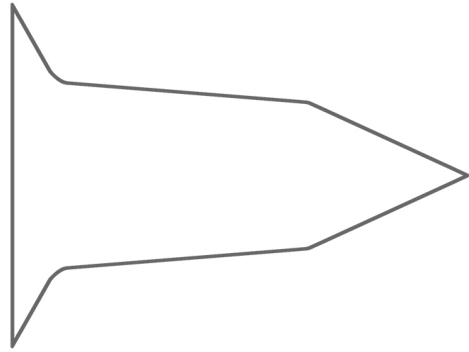*Comp: 100% - Attack: 100%*



*Trimpots:*

RV2: Ratio setting (*factory setting – do not change*)

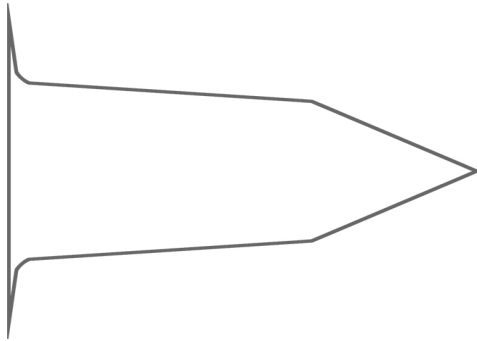RV3: Optocoupler bias (*factory setting – do not change*)
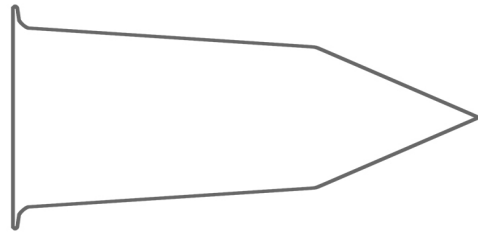
# Effects of compression in the sound



Original Note



Slow Attack



Fast Attack



Fast Attack + Limiter

**Dedalo Fx**
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