



# MANUAL

COMBO CUBE 350 - 500 - 800



## USER MANUAL PURPOSE

This user manual is dedicated to the use of the Combo Bass Amplifiers Cube 350, Cube 500, and Cube 800.

The manual includes the following information:

- General information (technical data and packaging)
- Description of the amplifier's functions.

All the information described in this user manual is verified.

The manufacturer reserves the right to update or modify their product without any notice

## PACKAGING AND STORAGE

### PACKAGING

Cube 350, Cube 500, and Cube 800 are packed in a special cardboard box. The box contains the Combo, power supply cable, and the user manual.

### TRANSPORT

Please handle the box with care. A specific position during the transport is not required.

### STORAGE

Please keep the amplifier in a dry and ventilated place. Ideal storage conditions: Temperature within -20C and 40C, Humidity 20% to 80%.

### PRODUCT DISPOSAL

Please follow the disposal instructions issued by your local council. By European Directive 2002/96 / EC, all electrical and electronic products should be disposed of by specific collection facilities appointed by the government or the local authorities.

### DECLARATION OF CONFORMITY

The product complies with the following European directive:

2014/35 / EU - Electrical Safety

2014/30 / EU - Electromagnetic Compatibility

2011/65 / EU - Limited use of certain hazardous substances in electrical and electronic equipment

A full copy of the declaration of conformity is available from the manufacturer. The manufacturer is not responsible for any damage due to improper use of the product.



## MAIN FEATURES HEAD

- 2 SPEAKON audio outputs
- XLR DI out
- Headphone Output
- Tuner Output
- Send-Return
- Aux-In
- Output 9V, 250 mA
- Gain control
- Bass, Mid-Low, Mid-High, and High equalization control
- Mid-Low frequencies switch
- Mid-High frequencies switch
- Deep button
- Bright button
- Pure switch
- Mute button
- DI volume
- Anti-bump on DI out
- Headphone volume
- Master Volume control
- Vu-Meter
- Chromatic tuner
- "Studio" and "Live" fan mode operation

### TECHNICAL FEATURES CUBE 350

- POWER RMS 350 W @ 4Ω
- DYNAMIC RANGE: 113dBA
- Parameters of nominal distortion output: a) TDH+N: - 0.005 % @ 1 W (4Ω, 1 kHz), 0.0008 % @ 50 W (4Ω, 100 Hz) b) CCIF IM distortion = 0.0003 %, 10 W, 4Ω, 18.5 kHz / 1 kHz
- Low output impedance: 6mW
- Total Efficiency: 80 % @ 350 W, 4Ω

### TECHNICAL FEATURES CUBE 500

- POWER RMS 500 W @ 4Ω
- DYNAMIC RANGE: 117dBA
- Parameters of nominal distortion output: a) TDH+N: - 0.005 % @ 1 W (4Ω, 1 kHz), 0.0008 % @ 50 W (4Ω, 100 Hz)
- Low output impedance: 6mW
- Total Efficiency: 84 % @ 500 W, 4Ω

### TECHNICAL FEATURES CUBE 800

- POWER RMS 800 W @ 4Ω
- DYNAMIC RANGE: 117dBA
- Parameters of nominal distortion output: a) TDH+N: - 0.005 % @ 1 W (4Ω, 1 kHz), 0.0008 % @ 50 W (4Ω, 100 Hz)
- Low output impedance: 6mW
- Total Efficiency: 84 % @ 800 W, 4Ω



## MAIN FEATURES CABINETS

- 2 SPEAKON audio inputs
- 3-Level selector for the tweeter

### TECHNICAL FEATURES CUBE 350

- Impedance: 4 Ohm
- Bass Reflex: Rear
- Woofer: 1x12" Custom GR Bass by Jensen SICA Neodym speaker
- Power Handling: 500W RMS (AES Standard)
- Tweeter: 1"
- Frequency Response: 40 Hz to 18 kHz
- Sensitivity: 98dB SPL
- We recommend using it without an additional speaker, but the head can manage a second 8 Ohm speaker

### TECHNICAL FEATURES CUBE 500

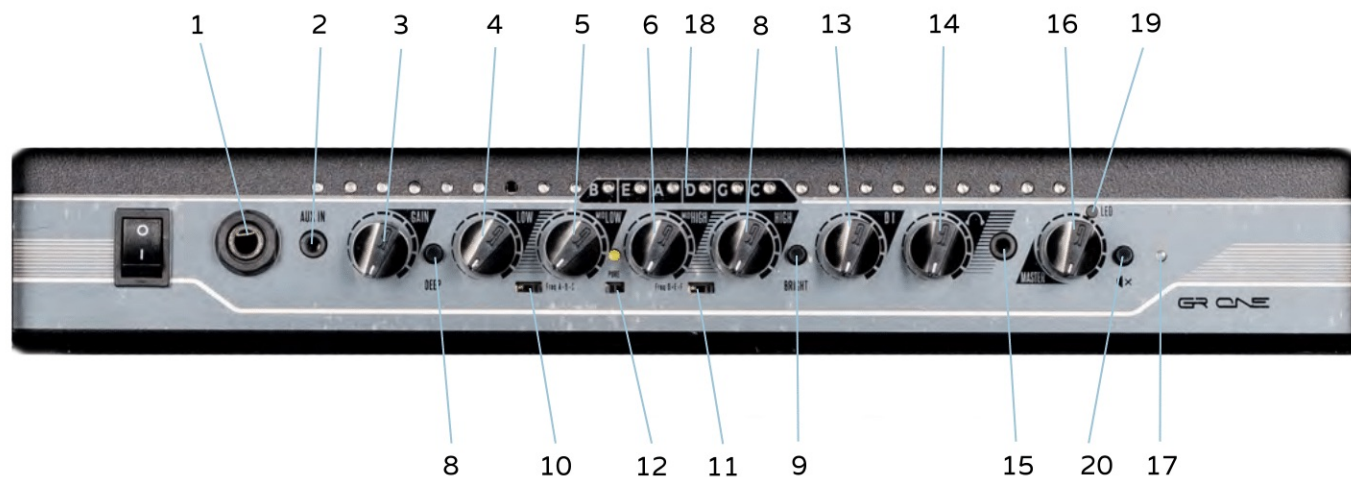
- Impedance: 8 Ohm
- Bass Reflex: Rear
- Woofer: 1x12" Custom GR Bass by Jensen SICA Neodym speaker
- Power Handling: 500W RMS (AES Standard)
- Tweeter: 1"
- Frequency Response: 40 Hz to 18 kHz
- Sensitivity: 98dB SPL
- We recommend using it with an additional 8 Ohm speaker, but the head can also possibly manage a second 4 Ohm speaker

### TECHNICAL FEATURES CUBE 800

- Impedance: 8 Ohm
- Bass Reflex: Rear
- Woofer: 1x12" Custom GR Bass by Jensen SICA Neodym speaker
- Power Handling: 500W RMS (AES Standard)
- Tweeter: 1"
- Frequency Response: 40 Hz to 18 kHz
- Sensitivity: 98dB SPL
- We recommend using it with an additional 8 Ohm speaker, but the head can also possibly manage a second 4 Ohm speaker

# CONTROLS DESCRIPTION

## FRONT PANEL CONTROLS



### 1. INPUT JACK

Input jack for your bass. We suggest using a good quality cable, to obtain the best audio performance.

### 2. AUX-IN

3.5mm jack Auxiliary input to connect an external audio device

### 3. GAIN CONTROL KNOB

Sets the input signal amount of the pre-amp

### 4. BASS KNOB

Increases or reduces the bass frequencies of the signal

### 5. MID-LOW KNOB

Increases or reduces the mid-low frequencies of the signal

### 6. MID-HIGH KNOB

Increases or reduces mid-high frequencies of the signal

### 7. HIGH KNOB

Increases or reduces the high frequencies of the signal

### 8. DEEP BUTTON

Gives a more deep sound

### 9. BRIGHT BUTTON

Gives a more bright sound

### 10. MID-LOW SWITCH

Use this switch to change the frequency of the mid-low band from 185 Hz, 375 Hz, and 800 Hz.

### 11. MID-HIGH SWITCH

Use this switch to change the frequency of the mid-high band from 600 Hz, 1200 Hz, and 1800 Hz.

### 12. PURE SWITCH

Allows bypassing all the equalization filters of the preamplifier. The pure-mode activation is signaled by the LED on the top of the button.

### 13. DI VOLUME CONTROL KNOB

Controls the DI volume

### 14. HEADPHONES KNOB

Controls the headphones volume

### 15. HEADPHONES OUTPUT

3.5mm plug for headphones

### 16. MASTER KNOB

Controls the overall volume

### 17. OPERATION LED

Green = normal operation.

Orange = high level of the input signal (clip).

### 18. VU-METER - Chromatic tuner

24 LEDs that can be used as VU-METER and/or chromatic tuner. The 6 central LEDs marked with the letters B E A D G C, are the reference LEDs when using the chromatic tuner. These marked LEDs identify the reference note. When the corresponding note is tuned the LED changes from red light to blue light. The more red LEDs light up the more the note is out of tune.

### 19. LED BUTTON

By pressing this button you can:

A. - scroll through the four VU-Meter display modes,

B. - select the mode tuner,

C. - turn off the 24 LED bar.

The last selection made on this button is always memorized.

In the ONE 800 and ONE 1400 amplifiers, holding down the LED button for about 8 seconds, the fan turns off (STUDIO MODE). To reactivate the fan (LIVE MODE) you must hold down the LED button for about 8 seconds or turn off and turn on the amplifier.

In "LIVE" mode, the fan automatically activates when a preset temperature is reached. In "STUDIO" mode the fan is always switched off, except when a critical temperature is reached. In that case the fan automatically reactivates. On the ONE 350 amplifier, pressing the LED button for about 8 seconds allows to toggle the cooling fan activation.

### 20. MUTE BUTTON

Turn off the amplifier output. The activation of this mode turns on the red LED on the left of the button.



# CONTROLS DESCRIPTION

## REAR PANEL CONTROLS



### 21. AC POWER SOCKET (230V - 115V)

IEC plug for power supply connection. The power supply self-recognition feature allows power to the Combo with a voltage of 230V or 115V. The supplied cable is equipped with a ground wire. For safety and security reasons, never unplug the ground wire from your equipment.

### 22. POWER ON/OFF SWITCH

Switch on and off the amplifier.

### 23. 9 VDC Out

9V DC output to connect external equipment (we recommend connecting 4-5 pedal effects maximum). The polarity is center negative.

### 24. SEND

6.35mm jack plug to connect an external effect's input

### 25. RETURN

6.35mm jack plug to connect an external effect's output

### 26. D.I. OUTPUT

The DI output is equipped with an anti-bump system, which allows you to turn on and off Combo even with the mixer line still on, without causing the annoying and noisy bump.

### 27. GND LIFT BUTTON

Isolates the DI output from the ground wire.

### 28. PRE-POST DI BUTTON

Allows you to choose the type of signal to be sent to the DI output DI: PRE EQ or POST EQ.

### 29. SPEAKON OUTPUT

It is possible to use a 6.35 mm jack. We recommend using a 2 pole Speakon connector. Never use a 6.35 jack guitar cable to connect your amplifier to your speakers.

## LIMITED WARRANTY

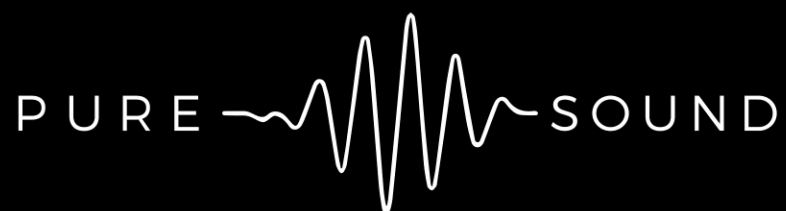
The warranty covers five years.

The warranty covers any defects in material or workmanship under normal use during the warranty period. Any shipping cost to/from the repair service center is the customer's responsibility. In the event of irreparable damage or repeated failure of the same type, the manufacturer may replace the unit, within the term of the original warranty.

The warranty does not cover parts that may result in faulty due to:

- Negligence or careless use
- Improper installation and maintenance
- Tampering made by unauthorized personnel
- Damages that might not be related to manufacturing defects.

The manufacturer accepts no responsibility for any damage due to persons, animals or things, as a consequence of the failure to comply with all the installation requirements and /or use indicated in this user manual.



GR Bass is an innovative and dynamic company that has been working for years in the music amplification sector.

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