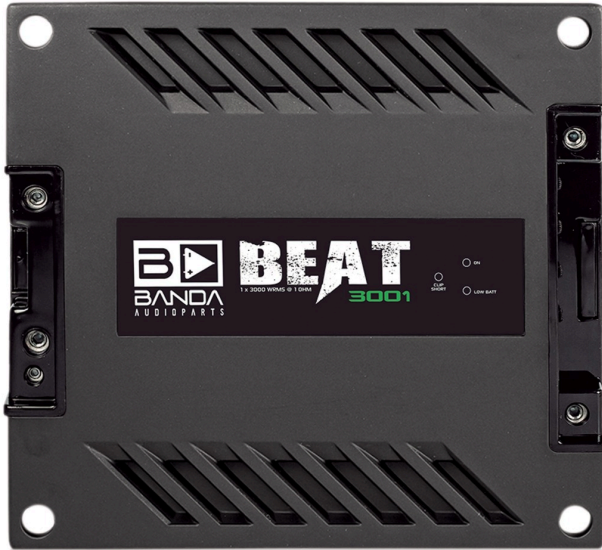


# INSTRUCTION MANUAL

# BEAT

## 3000

SERIES



Read before using

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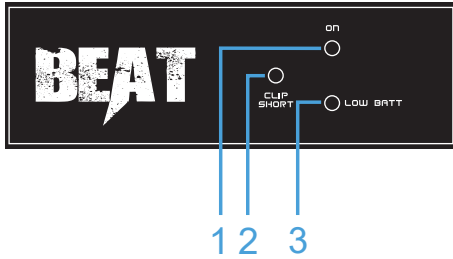


## INTRODUCTION

- Congratulations! You have just purchased a product with Banda Audioparts quality. Developed by qualified engineers and in a high-tech laboratory.

To ensure optimal operation, please read this manual carefully before using the product. Keep the manual in a safe and accessible place for future reference.

## FRONT PANEL AND CROSSOVER SWITCH



### FRONT PANEL

- (1) **Blue LED:** indicator of source and amplifier on
- (2) **Red LED:** indicator of distortion at the output (clipping), short circuit and thermal protection.
- (3) **Yellow LED:** indicator of battery voltage below the specified (flashing)

## CROSSOVER SWITCH

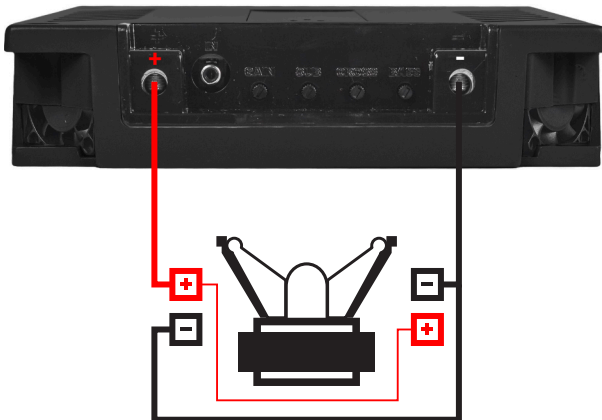
Allows you to turn off or on the subsonic, Crossover and Bass Boost adjustments.

When this function is selected in the OFF position, the device only adjusts the signal gain (input sensitivity), making the amplifier completely FLAT (response from 20Hz – 20000Hz @ -3dB).

We recommend that only more experienced users use this function.

To access this feature, remove the cover of the device and select the position of the switch located next to the indication LEDs.

## CONNECTION EXAMPLES



## CONNECTION EXAMPLES

### BEAT 3001

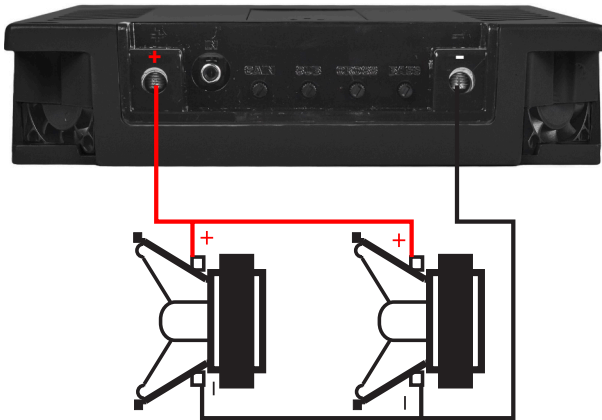
Woofer or subwoofer  
2+2 Ohms connected in parallel  
resulting in 3000Wrms @ 1  
Ohm

### BEAT 3002

Woofer or subwoofer  
4+4 Ohms connected in parallel  
resulting in 3000Wrms @ 2  
Ohms

### BEAT 3004

Woofer or subwoofer  
8+8 Ohms connected in parallel  
resulting in 3000Wrms @ 4  
Ohms



### BEAT 3001

2 woofers or subwoofers  
2 Ohms 1500Wrms each  
connected in parallel resulting  
in 3000Wrms @ 1 Ohm

### BEAT 3002

2 woofers or subwoofers  
4 Ohms 1500Wrms each  
connected in parallel resulting  
in 3000Wrms @ 2 Ohms

### BEAT 3004

2 woofers or subwoofers  
8 Ohms 1500Wrms each  
connected in parallel resulting  
in 3000Wrms @ 4 Ohms

### NOTE

These projects are basic and serve only as an example. This device works in various types of systems as long as the minimum impedance is respected.



## SOLUTIONS TO POSSIBLE PROBLEMS

PROTECTION SYSTEM	PROBLEM	SOLUTION
Blue and Red LEDs on	The amplifier temperature has reached the operating limit (approximately 85°C outside)	Install the device in a ventilated area and ensure that the ventilation system is not obstructed. The amplifier will return to normal operation as soon as the temperature drops
Blue LED on and Red LED flashing without audio at the output	Short circuit in the audio output or speaker impedance below the nominal impedance of the amplifier	Check that there is no short circuit in the speaker connection cables and that there is no shortcircuited speaker connected to the system or that the speaker impedance is not lower than the minimum impedance of the amplifier
Blue LED on and Red LED flashing as the music plays	Clipping LED indicating that the output distortion is exceeding 5%	The system can operate with the amplifier with the Clip LED flashing, however, the speakers connected to the output will suffer coil overheating due to Clip distortion
Yellow LED flashing	Amplifier input voltage below 9V	Check the charge of the batteries where the amplifier is connected. In addition, poor contact in the power cables can also cause voltage drops. Check the voltage at the amplifier input and at the battery output to verify that the voltage drop is not occurring in the cables or connections.
Red LED and Yellow LED on	Problem with the amplifier	Refer to our nearest authorized service center

## TECHNICAL SPECIFICATIONS

PARAMETERS	BEAT 3001	BEAT 3002	BEAT 3004
Maximum Power 14.4v @ 1 Ohm	3900 WRMS	-	-
Maximum Power 14.4v @ 2 Ohms	2900 WRMS	3500 WRMS	-
Maximum Power 14.4v @ 4 Ohms	-	2600 WRMS	3600 WRMS
Maximum Power 14.4v @ 8 Ohms	-	-	2400 WRMS
Maximum Power 12.6v @ 1 Ohm	3000 WRMS	-	-
Maximum Power 12.6v @ 2 Ohms	2300 WRMS	3000 WRMS	-
Maximum Power 12.6v @ 4 Ohms	-	2150 WRMS	3000 WRMS
Maximum Power 12.6v @ 8 Ohms	-	-	1850 WRMS
Efficiency @ 8 Ohms	-	-	86%
Efficiency @ 4 Ohms	-	81%	79%
Efficiency @ 2 Ohms	78%	72%	-
Efficiency @ 1 Ohm	71%	-	-
Input Voltage	9 - 15V		
Input Impedance	100K Ohms		
THD+D	0,10%		
Input Sensitivity	110mV - 4V	135mV - 4V	185mV - 4V
Signal to Noise Ratio		80dB	
Frequency Response (OFF Switch)		-	
Frequency Response		20 to 20KHz (-3dBs)	
Bass Boost @ 45Hz		-	
HPF (Subsonic)	20Hz - 80Hz @ 12dB/octava Linkwitz-Riley		
LPF (Crossover)	80Hz - 20KHz @ 12dB/octava Linkwitz-Riley		
Recommended Fuse		150 A	
Quiescent Current		1,5 A	
Maximum Current (sinusoidal signal)		360 A	
Maximum Current (musical signal)		180 A	
Power Cables (Recommended min.)		21mm / 4 AWG	
Output Cables (Recommended min.)		2 x 4mm / 2 x 11 AWG	

## TECHNICAL SPECIFICATIONS

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### NOTE

\*This amplifier does not have an internal fuse. An external 150 amp fuse is recommended.

## DIMENSIONS

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# WARRANTY TERMS

Warranty valid for 12 months (one year), starting from the date of purchase, if purchased from an authorized Banda Audioparts dealer. Will be covered by warranty components and/or parts comproved that shows failures in process manufacture or damaged components.

Warranty don't cover:

1. Equipment, parts or components previously altered by unauthorized people.
2. Damages caused by accidents (fall, crash, etc) or natural disasters (overflow, burning, etc).
3. Improper instalation (improper wiring, abuse, installation out of specifications).
4. Shipping costs

In case needed any repair, contact the dealer for warranty instructions.

## ADDRESS:

Banda Audioparts

Rua Manoel Joaquim Filho, 353

Neighborhood: Santa Terezinha

Paulínia - SP

Brazil

Zip Code: 13148-115

**NOTE:** If out of warranty, repair costs (if needed) will be charged from client.

Phone: 55 (19) 3844-7173

e-mail: [banda@bandaaudioparts.com.br](mailto:banda@bandaaudioparts.com.br)

Banda Audioparts reserved rights to alter characteristics of the product without previously advice.

## WARRANTY REGISTRATION:

Name:.....

Register:..... Date:..... Phone:.....

Address:.....

Dealer:..... Phone:.....



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