

# INSTRUCTION MANUAL

# VIKING 10.000



Read before using

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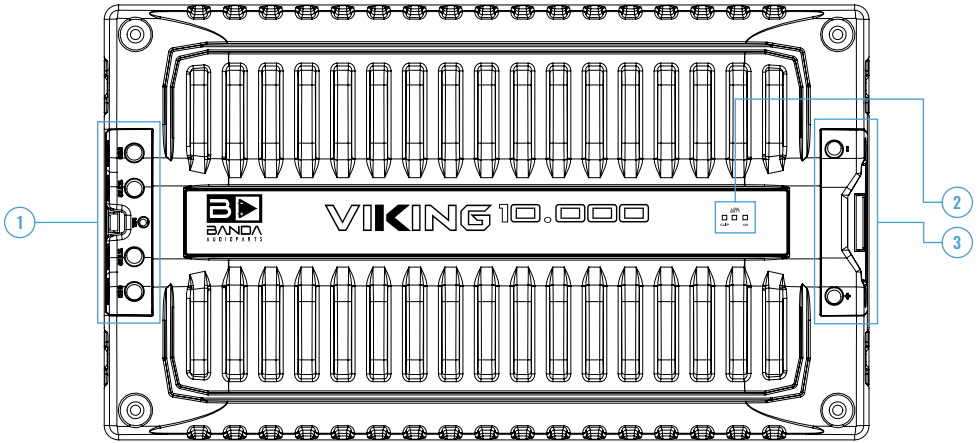


## INTRODUCTION

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

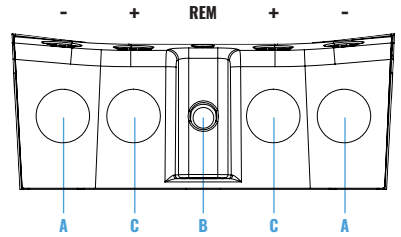
To ensure optimal operation, please read this manual carefully before using the product. Keep the manual in a safe and accessible place for future reference.

# DESCRIPTION

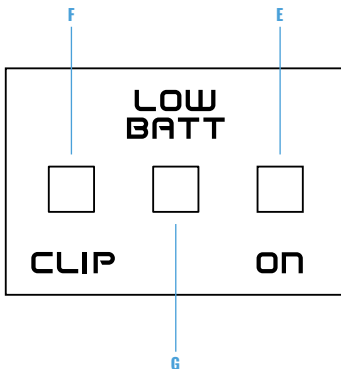


## 1. POWER SUPPLY UNIT

- A GND**  
Connect to vehicle chassis (Ground)
- B 12VDC INPUT (+)**  
Connect antenna (Remote)
- C POSITIVE INPUT 12VDC**



 **NOTE: USE EXTERNAL FUSE**



## 2. FRONT PANEL (LEDS)

- E Blue (ON):** Power On.
- F Red (SHORT):** Output distortion (clipping), clip short and thermal protection.
- G Yellow:** Battery, low tension (flashing).

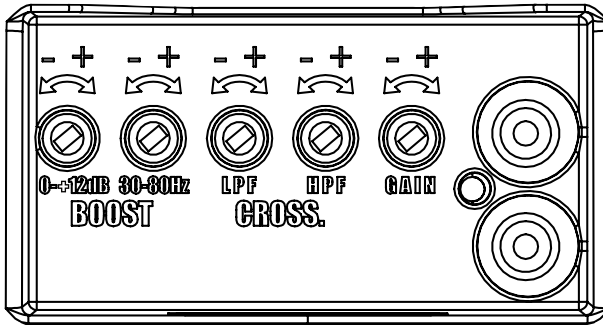
## DESCRIPTION



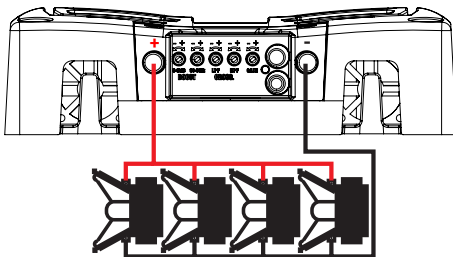
### CLIP INDICATOR

The red LED lights up when the amplifier output is distorting. As long as the speakers used are capable of handle the total output power this LED can eventually blink but if it holds still it means too much distortion in the output and this can damage the speakers and the amplifier. In this case, turn down the head unit volume.

## 3. SIDE



## WIRING EXAMPLE



### VIKING 10.000 - 1 ohm

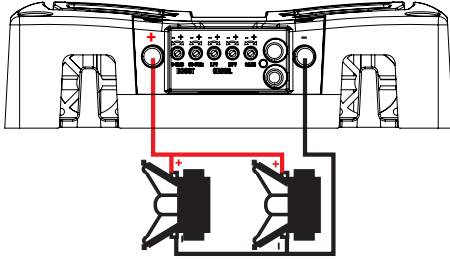
#### 4 Woofers or Subwoofers

4 ohms 2500Wrms each connected in parallel, resulting 10000Wrms @ 1 ohm



## DESCRIPTION

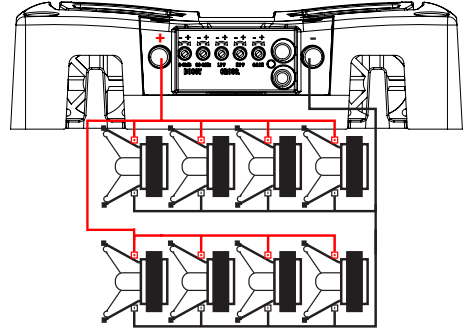
## WIRING EXAMPLE



**VIKING 10.000 - 1 ohm**

**2 Woofers or Subwoofers**

2 ohms 5000Wrms each connected in parallel,  
resulting 10000Wrms @ 1 ohm



**VIKING 10.000 - 1 ohm**

**8 Woofers or Subwoofers**

8 ohms 1250Wrms each connected in parallel,  
resulting 10000Wrms @ 1 ohm

## TECHNICAL SPECIFICATIONS

MODEL	VIKING 10.000 - 1 ohm
	12,6V 1ohm - 10000Wrms 12,6V 2ohms - 6000Wrms
Operation topology	Full range class D
12dB/octave variable active Linkwitz-Riley crossover	18Hz – 8kHz
Input impedance	47k ohms
Frequency response	18Hz – 8kHz (-3dB)
Variable subsonic filter	18Hz – 120Hz
Fuse	MIDIVAL 60A (x6) + GLASS 0.5A
Clip indicator	
THD	< 0,3%
SNR	> 82,4dB
Damping factor	> 100
Input sensibility	200mV – 1V
Current draw at full power (average music program)	476A*

## DIMENSIONS



## PROTECTION SYSTEM AND TROUBLESHOOTING

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### SHORT CIRCUIT PROTECTION

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If short circuit is detected in output terminals, the amplifier shuts down and the red LED lights up. The equipment must be turned off, solve the short circuit problem and turn the equipment on again. If the problem is solved, the blue LED must light up. If the load impedance is lower than the amplifier specification, the equipment may trigger the short circuit protection.

### LOW VOLTAGE PROTECTION

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When battery voltage is lower than 9Vdc, the amplifier will shut down and the yellow LED will blink until the equipment is restarted.

### POWER SUPPLY INVERTED CABLE PROTECTION

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If the power supply cables are connected inverted, the internal fuse will blow

## TROUBLESHOOTING

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### PROTECTION TRIGGERED

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1. Check if the internal fuse is blown. If so, replace it with a same current rate fuse (60A x 6)
2. Check if there is short circuit in the output terminals. To do it, turn off the amplifier, disconnect all speakers and the input RCA cable and wait about 20 seconds. Turn the amplifier again and if the blue LED lights up, the amplifier is operating normally
3. Check if any speaker is presenting short circuit or the total impedance load is lower than the amplifier specification
4. Check if there is enough current in battery to supply the amplifier and if the cables are capable of conduct that current

### OUTPUT NOISE

1. Check if there is loose connection in signal input or in the RCA cable
2. Check if there is ground connection in the radio/cd RCA output
3. Check if RCA cables are wired separated from the power cables
4. Check if the +12Vds that powers the amplifier is coming directly from the battery
5. Check if ground cable is connected in car chassis as near as possible of the amplifier
6. Both radio/cd and amplifier must be firmly connected to car chassis ground to avoid noises and voltage fluctuations at amplifier output



### IMPORTANT NOTES

- Use 2 AWG power cables for both GND and +12Vdc
- Do not use impedance load lower than the amplifier specification. This can damage the equipment
- Use wire solder for tinning the cable end for better electrical contact. Loose electrical connection can cause malfunction, heating and even fire
- The GND connection must be as short as possible, using adequate wire terminal firmly connected to a clean, paint free spot at the chassis
- If more than one amplifier is used, provide adequate individual wiring for each one

# 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 Sofia Atauri Fadin, 256

Neighborhood: Santa Terezinha II

Paulínia - SP

Brazil

Zip Code: 13148-142

**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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