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MOD. STRA90IDUAADNA8@ADNA8 • 2267-7173 - (19) 3844-7173 - (19) 3844-7923 COSTUMER SERVICE:

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ΑΤΑΟ ΝΟΙΤΑЯΤΖΙΘΞЯ

Varning: Continuous expose to sound pressure levels over 85dB معه cause permenent hearing loss.

After the warranty expires, Banda Audioparts will continue to provide extensive technical assistance directly or through its network of authoritzed service, charging, however, the repair services and replacement of components

Note:Permanent Technical Support

Banda Audioparts reserves the right to change the product and its specifications at any time without prior notice.

-Zipcode: 13148-115 Street: Manoel Joaquim Filho, number 353 - Jardim Santa Terezinha II - Paulinia - SP - Brazil

The defective equipment must be shipped to the factory or to an authorized service center

This warranty does not cover shipping costs.

 Any source of repairs made by anyone other than a Banda Audioparts authorized service technician; 2. Damage resulting from installation in surfaces subjected to high levels of vibration; 1. Damage resulting from misuse, abuse, accident, alterations or improper installation;

Warranty Exclusions:

Within the period of this warranty, Banda Audioparts will repair or replace, free of charge, any part proving defective in material or workmanship.

Banda Audioparts warrants this equipment to be free of all defects in material and workmanship for a period of 12 months from the date of purchase

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Version

August / 2017

Fabricado no Brazil Made in Brazil

TECHNICAL SPECIFICATION - ELECTRA BASS 3K

• ELECTRA BASS 3K - 1 OHM

- 1 channel 3750Wrms @ 10hm / 13,8Vdc
- 1 channel 2600Wrms @ 2ohms / 13,8Vdc
- 1 channel 1496Wrms @ 40hm / 13,8Vdc
- 1 channel 3136Wrms @ 10hm / 12,6Vdc

Current draw at full power : 131A (average music program)

• ELECTRA BASS 3K - 2 OHMS

- 1 channel 3750Wrms @ 20hm / 13,8Vdc
- 1 channel 2600Wrms @ 4ohms / 13,8Vdc
- 1 channel 1496Wrms @ 80hm / 13,8Vdc 1 channel 3136Wrms @ 20hm / 12,6Vdc
- Current draw at full power :
- 131A (average music program)

FRONT PANEL



1. Blue LED: • On

2. Red LED: Output distorted (Clip) - Output short circuit - Termical protection (check page 07 for more informations)

3. Yellow LED: • Low voltage battery

Crossover Key

Crossover key:

CROSS KEY ON: Enable filters (Subsonic, Variable crossover and Bass boost). Frequency response in this option: 17Hz - 21kHz (-3dB) CROSS KEY OFF: Disable filters (Subsonic, Variable crossover and Bass boost). Frequency response in this option: 5Hz - 42kHz (-3dB) When the filter is DISABLED only the GAIN CONTROL is active.



USER MANUAL

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TECHNICAL SPECIFICATION - ELECTRA BASS 3K

• Operation topology: Class D

• Variable LINKWITZ-RILEY active crossover: 17Hz - 500Hz (12dB/octave)

• Input impedance: 47kohms

- Frequency response (cross key ON): 17hz 500Hz (-3dB)
- Frequency response (cross key OFF): 5hz 500Hz (-3dB)
- Variable subsonic filter: 17Hz 120Hz
- Clipping indicator (5% distortion)
- THD: <0,08%
- SNR: >81,5dB (100Hz)
- Damping factor: >103
- Input sensitivity: 22mV ~ 8V (100Hz)
- Gain control (Input sensitivity ajust)
- Bass boost: 45Hz @ 0dB to +18dB
- Differential input circuit
- Active fans per temperature
- Termical protection

Dimensions: ELECTRA BASS 3K 12.12"L x 2.36"H x 10.39"W Weight: ELECTRA BASS 3K: 10.36 lb

*These values are typical and may present some minor variation.

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TECHNICAL SPECIFICATION - ELECTRA BASS 3K

Power supply section ELECTRA



1. Negative power input (ground): connect to car chassis. 2. Positive power input (+12Vdc): connect to baterry positive

3. Remote input: connect to radio/cd player remote output.

1. Negative power input: cable diameter 4AWG (ELECTRA)

2. Positive power input (+12Vdc): cable diameter 4AWG (ELECTRA)

3. Remote input: cable diameter 14AWG (ELECTRA)

Power output section - Input section - Frequency ajusters



CLIPPING INDICATOR

Clipping (LED RED Blinking - LED BLUE constant):

The red LED lights up when the amplifier output is detected 5% of 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 or the gain control of amp.

04

CONNECTION EXAMPLES: ELECTRA BASS3K

1 OHM



resulting in 3000Wrms@1 ohm.

2 OHMS



20hms 1500Wrms (woofer or subwoofer) x 2 wired in parallel resulting in 3000Wrms@2 ohms.



4 ohms 750Wrms woofer x 4 wired in parallel resulting in 3000Wrms@2 ohms.



GRAPHICS

CROSS ON

NOTE: These designs are basic, just for example, this device works on several types of system as long as the minimum impedance is respected.

05

PROTECTION SYSTENS AND TROUBLESHOOTING

EXTERNAL FUSE IS REQUIRED ON ICE X LINE AMPLIFIERS. ELECTRA BASS 3K- 150A

Short Circuit protection and low impedance:

If short circuit is detected in output terminals, the amplifier shuts down an the red LED lights blinking. 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:

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

Termical protection ELECTRA (BLUE LED and RED LED constants):

When the temperature in the heatsink reaches around 45°, the fans are driven in full rotation to cool the amplifier. If in extreme cases the heatsink temperature reaches around 85 ° the amplifier will enter protection mode (BLUE LED and RED LED lit simultaneously), at which point the circuit cuts the audio outputs for 15 seconds and maintains the fans turned on at maximum speed, then after 15 seconds the audio returns the outputs automatically.

Protection triggered

1. Check if the external fuse is blown(Yellow LED constant).

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. (Yellow LED blinking)

Output Noise

1. Check if there is loose connection in signal input or in the RCA cable.

2. Check if there is around connection in the radio/cd RCA output.

3. Check if RCA cables are wired separated from the power cables.

4. Check if the +12Vdc 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.