:doys		:Phone:	
:ssərbbA			
:92iovnl	:916C	:ənon9	
:əmeN			

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

Banda Audioparts reserves the right to change the product and its specifications at any time without prior notice. Rua Manoel Joaquim Filho, 353 - Jardim Santa Terezinha II -Paulinia - SP - Brazil - CEP: 13148-133 The defective equipment must be shipped to the factory or to an authorized service center

3. Corrective work necessitated by repairs made by anyone other than a Banda Audioparts authorized service technician;

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

ganda Audioparts warrants this equipment to be free of all defects in material and workmanship

YTNAAAAW

ATAO NOITAAT2IDAA

Warning: Continuous expose to sound pressure levels over 85dB may cause permenent hearing loss.

Note:Permanent Technical Support

Warranty Exclusions:

lizer8 ni ebeM 🖉

This warranty does not cover shipping costs.

for a period of 12 months from the date of purchase

.C. Damage resulting trom invite listic in noisellets in more privile to high levels of vibration; 1. Damage resulting from misuse, abuse, accident, alterations or improper installation;

Versão : July/2017



AUNAM **И В Т В И С Т І О И**

4.0065

2400.4

к

INDEX

- 02 Technical specification • 2400.4/ 3600.4
- Front panel 2400.4/ 3600.4
- 04. Power supply and output • 2400.4/ 3600.4
- Clip indicator 2400.4/ 3600.4 04
- Connection example 2400.4/ 3600.4 05
- Connection example 2400.4/ 3600.4 06
- . Protection system, troubleshooting and important notes 07

TECHNICAL SPECIFICATION - 2400.4 - 3600.4

• Operation topology: Half bridge class D

- Selectable active crossover
- Linkwitz-Riley 12dB/octave: Low Pass 25Hz - 60Hz High Pass 60Hz - 25kHz Band Pass (flat)
- Frequency response 25Hz 25kHz
- Subsonic filter (18dB/octave)
- Clip indicator • THD < 0.21%
- SNR > 53dB
- Damping factor > 96
- Input sensitivity 0.1 2,1volt
- Input impedance: 22kohms
- MONO/STEREO switch
- Individual gain control
- Differential input circuit

Dimensions 12.4 D: 12.1"x10.8"x2.5 Weight: 4,6kg

The specified data are typical, and are subject to minor variations

3 channels (2 x 600Wrms 10hm /1 2.6Vdc + 1 x 1200Wrms 20hms / 12.6Vdc) or 2 channels (1200Wrms 2ohms / 12.6Vdc)

moo.sfreqoibueebned.www

TECHNICAL SPECIFICATION - 2400.4/- 3600.4

+ 2 x 900Wrms 10hm / 12.6Vdc) 2 chanels (1800Wrms 2ohms / 12.6Vcc)

5. MONO/STEREO switch (Channels 1 / 2)

6. Left channel gain control (Channel 3)

6. MONO gain control (Bridged 2)

Current draw at full power (average music program): 190A*

4 channels (960Wrms 1ohm / 14.4Vdc) 3 channels (2 x 960Wrms 10hm + 1 x 1920Wrms 2ohms / 14.4Vdc) or 2 channels (1920Wrms 2ohms / 14.4Vdc)

4 channels (660Wrms 1ohm / 14.4Vdc)

2 channels (1320Wrms 2ohms / 14.4Vdc)

1 x 1320Wrms 2ohms / 14.4Vdc) ou

 $3 ext{ channels} (2 ext{ x 660Wrms 10hm} +$

*Equivalent to current draw with resistive load and sinusoidal signal at half power



- Fuse blown or missing Battery low voltage -On Output short circtuit
- 7. Right channel gain control (Channel 4)
- 8. Right channel gain control (Channel 1)
- 9. Left channel gain control (Channel 2)
- 9. MONO gain control (Bridged 1)

03

Note: To access the active crossover switch.

remove the plastic cover on the bottom of the

amplifier. The amplifier is delivered with the key in the FLAT position. To operate the active

crossover check the picture on the side.

Output 2400.4: 4 channels (600Wrms 1ohm / 12.6Vdc)

Current draw at full power (average music program): 110A*

• Output 3600.4:

4 channels (900Wrms 1ohm / 12.6Vdc) 3 channels (1 x 1800Wrms 20hms / 12.6Vdc





Output distorting (clip)



TECHNICAL SPECIFICATION

Power supply view 2400.4 - 3600.4



Negative input: connect to vehicle chassis ground(GND).
NOTE:The use external fuses in mandatory
Positive input (+12Vdc): connect to the baterry positive pole.
Remote input: connect to the head unit remote output.





CLIP INDICATOR

Clipping (red LED lit / flashing - blue LED on):

Triggered when it is detected distortion in the amplifier output. This indicator starts its sampling just before the amplifier power limit. It can be used as long as the speakers support the power with the led blinking. But if it stays lit during operation indicates excessive distortion in the audio output, so can damage the speakers. In this case decrease the gain level of the amplifier or the "volume" of the CD / DVD Player.

04



Example of high power drivers and tweeters connection * Need to be used in HIGH PASS mode or with external passive crossover.





Example of high power drivers and tweeters connection * Need to be used in HIGH PASS mode or with external passive crossover.



05

PROTECTION SYSTEM, TROUBLESHOOTING AND IMPORTANT NOTES

Short Circuit protection:

If short circuit is detected in output terminals, the output is disabled and the red LED lights up until the short circuit is removed. 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.

Power Supply Inverted Cable Protection:

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

Troubleshooting:

Protection triggered

1. The use external fuses in mandatory

 Check if there is short circuit in the output terminals. To do it, turn o ffthe 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.

 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 +12 Vdc 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:
- $\,$ \cdot Use 4AWG (2400.4 and 3600.4) 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 car chassis.

• If more than one amplifier is used, provide adequate individual wiring for each one.

• If using power supply to power the amplifier, it must be capable of supply between 12.6 – 14.4Vdc with at least the amplifier maximum current value and maximum output variation (Vripple) of 10%.