80

MOJ.219A90IQUAAQNA8@AQNA8 • 5264-4485 (61) - 5447-4485 (61) - 5717-4622 (61) 25 COSTUMER SERVICE: :doys Phone:

### :ssəıppy

:9non9 :916O :90iovnl

:9m6N

### ATAQ NOITAAT2ID3A

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

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

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

STT-84TET :sbooqia -Street: Manoel Joaquim Filho, number 353 - Jardim Zanta Terezinha II - Paulinia - SP - Brazil

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

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3. 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, accident, alterations or improper installation;

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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

YTNAAAW

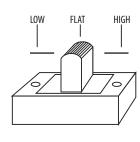
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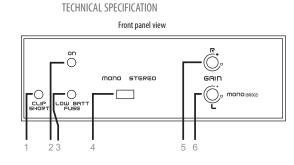
Fabricado no Brasil Made in Brazil

## ACTIVE CROSSOVER

 12dB/octave selectable active crossoveross Low Pass: 18Hz-80Hz High Pass: 80Hz - 40kHz Band Pass - (Flat)

Nota: To access the crossover switch, remove the plastic cover under the amplifier.





1. Red Led : • Blinking - Output clipping (distortion) Constant - Output short circuit

- 2. Blue Led : • 0n
- 3. Yellow Led : · Constant - Fuse blown or missing
- Blinking Low voltage battery 4. MONO/STEREO switch
- 5. Gain control right channel (Channel 2)
- 6. Gain control left channel (Channel 1)
- 6. MONO gain control (Bridged)

# **EXPERT 1602** EXPERT 1202 **EXPERT 802**



IAUNAM NOITJUATSNI

Output EXPERT 802

program): 43A\*

program): 61A\*

• Output EXPERT 1602

program): 79A\*

Output EXPERT 1202

2 channels (400Wrms 2ohms / 12.6Vdc)

1 channel (800Wrms 4ohms / 12.6Vdc)

2 channels (600Wrms 2ohms / 12.6Vdc)

1 channel (1200Wrms 4ohms / 12.6Vdc)

2 channels (800Wrms 2ohms / 12.6Vdc)

1 channel (1600Wrms 4ohms / 12.6Vdc)

Current draw at full power (average music

Current draw at full power (average music

Current draw at full power (average music

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#### **TECHNICAL SPECIFICATION**

• Operation Topology: Half-Bridge Class D

- Selectable Active Crossover:
- Linkwitz-Riley 12dB/octave:

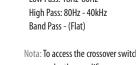
Low Pass 18Hz - 80Hz High Pass 18Hz - 40kHz

- Band Pass (flat)
- Frequency Response 18Hz 40kHz (-3dB)
- Subsonic Filter (18dB/octave)
- Clip Indicator
- THD < 0.047% • SNR > 93.5dB
- Damping Factor > 100
- Input Sensitivity: 150mV ~ 2,3V
- Input Impedance: 22kohms
- MONO/STEREO switch
- Individual Gain Control
- Differential Input Circuit
- Dimensões:

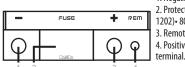
9,64"L x 2.08"H x 8,97"W Peso: 6,39lb

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

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

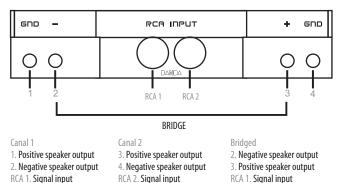






1. Negative power input (ground): connect to car chassis. 2. Protection fuse: • 50A (EXPERT 802) • 50A (EXPERT 1202)• 80A (EXPERT 1602). 3. Remote input: connect to radio/cd remote output. 4. Positive power input (+12Vdc): connect to baterry positive

Signal input and power output section.



Note: For bridge connection, select MONO in MONO/STEREO switch.

## CLIP INDICATOR

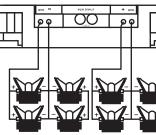
The red LED lights up when the amplifier output is distorting. As long as the speakers used are capable of handle the total output power this LED can eventually blink but if it holds still it means too much distortion in the output and this can damage the speakers and the amplifier. In this case, turn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

04



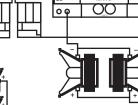
CONNECTION EXAMPLES EXPERT





8 ohms 150Wrms woofer x 4

wired in parallel



2x8 ohms 600W subwoofer / woofer wired in parallel

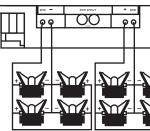
a

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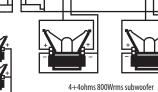
EXPERT 1602

8 ohms 150Wrms woofer x 4

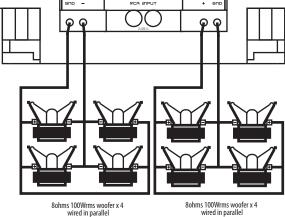
wired in parallel

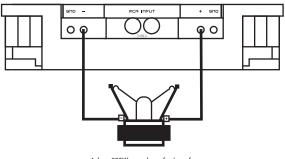


80hms 200Wrms woofer x 4 80hms 200Wrms woofer x 4 ired in parallel red in parallel



wired in parallel for each channel





4ohms 800Wrms subwoofer / woofer

Note: these are basic projects, just given as examples.

### PROTECTION SYSTEM AND TROUBLESHOOTING

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. Check if the internal fuse is blown. If so, replace it with a same current rate fuse (50A - EXPERT 800Wrms, ,50A - EXPERT 800Wrms, 80A EXPERT 1600Wrms).

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 +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:

- Use 5 AWG (EXPERT 802) 4AWG (EXPERT 1202) and 4AWG (EXPERT 1602) power cables for both GND and

• 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%.

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**CONNECTION EXAMPLES EXPERT 802**