

NEMESIS AUDIO

HIGH PERFORMANCE AMPLIFIER

NA-BZ1000D
NA-BZ1500D
NA-BZ3000D
NA-BZ5000D
NA-BZ8000D
NA-BZ12000D
NA-BZ500X4D

OWNER'S MANUAL

Please read carefully before using

INTRODUCTION

Congratulations and thank you for purchasing NA-BZ Series Audio amplifiers, the logical choice in mobile audio amplification. Your amplifiers have been designed and engineered with the highest quality components and top of the line workmanship to help you reach the superior sound you are after.
To achieve optimal performance of your system, please take a few moments to read over this Owner's manual or visit authorized dealer if needed before starting your installation.

FEATURES

DIGITAL MONOBLOCK AMPLIFIER

1. Advanced IR & high-efficiency class D chips designed
2. Advanced full bridge line out designed
3. MCU intelligence power management and protection .
4. High power with compacted dimension designed for easier installation.
5. Long-range volume control by wire remote .
6. 0 gauge power /ground terminals.

MULTI-CHANNEL AMPLIFIER

1. Advanced IR & high-efficiency class D chips designed
2. Two-layer wave-fiber PCB and SMD design
3. Built-in MCU intelligent control/protection circuit (overheat protection/overcurrent protection/short circuit protection/ overvoltage protection/undervoltage protection)

4 .0 gauge power /ground terminals.

SPECIFICATIONS

Model	NA-BZ1000D	NA-BZ1500D	NA-BZ3000D	NA-BZ5000D
RMS power @ 4 ohm	1x450W	1x500W	1x890W	1x1600W
RMS power @ 2 ohm	1x830W	1x1000W	1x1750W	1x3200W
RMS power @ 1 ohm	1x1000W	1x1500W	1x3000W	1x5000W
RMS power @ 4 ohm mono	NA	NA	NA	NA
Working impedance	1 ohm stable	1 ohm stable	1 ohm stable	1 ohm stable
Input Sensitivity	0.25V-4V	0.25V-4V	0.25V-4V	0.25V-4V
High Pass Filter	NA	NA	NA	NA
Low Pass Filter	50Hz-20KHz	50Hz-20KHz	50Hz-20KHz	50Hz-20KHz
Subsonic Filter	10Hz-80Hz	10Hz-80Hz	10Hz-80Hz	10Hz-80Hz
Bass Boost	0dB-12dB	0dB-12dB	0dB-12dB	0dB-12dB
Frequency Response	10Hz-20KHz	10Hz-20KHz	10Hz-20KHz	10Hz-20KHz
Signal to Noise Ratio	85dB	85dB	85dB	85dB
THD @ 4ohm	0.4%	0.4%	0.4%	0.4%
Working Voltage	9V-16V	9V-16V	9V-16V	9V-16V
Fuse Rating	80A	150A	200A	350A
Dimensions(L inches) 8.346(W)x2.559(H)	4.724	5.906	7.441	10.197

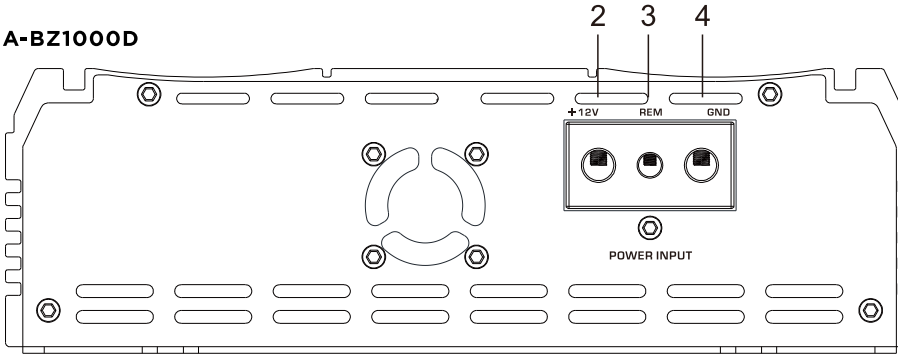
ALL features are subject to change in the continuing effort to improve the products without notice

SPECIFICATIONS

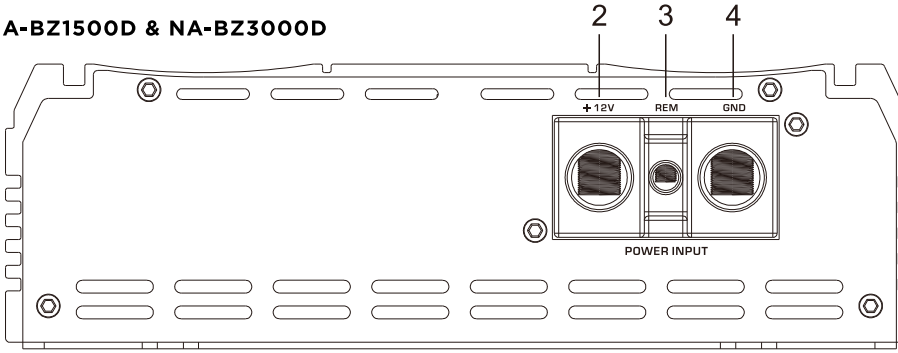
Model	NA-BZ8000D	NA-BZ12000D	NA-BZ500X4D
RMS power @ 4 ohm	1x2500W	1x3900W	4x300W
RMS power @ 2 ohm	1x4800W	1x7300W	4x550W
RMS power @ 1 ohm	1x8000W	1x12000W	NA
RMS power @ 4 ohm mono	NA	NA	2x1000W
Working impedance	1 ohm stable	1 ohm stable	2 ohm stable
Input Sensitivity	0.25V-4V	0.25V-4V	0.2V-7V
High Pass Filter	NA	NA	50Hz-4KHz
Low Pass Filter	50Hz-20KHz	50Hz-20KHz	50Hz-4KHz
Subsonic Filter	10Hz-80Hz	10Hz-80Hz	NA
Bass Boost	0dB-12dB	0dB-12dB	0dB-12dB
Frequency Response	10Hz-20KHz	10Hz-20KHz	20Hz-20KHz
Signal to Noise Ratio	85dB	85dB	80dB
THD @ 4ohm	0.6%	0.6%	0.08%
Working Voltage	9V-16V	9V-16V	9V-16V
Fuse Rating	800A	1200A	180A
Dimensions(L inches) 8.346(W)x2.559(H)	13.740	22.795	13.031

AMPLIFIER FUNCTIONS

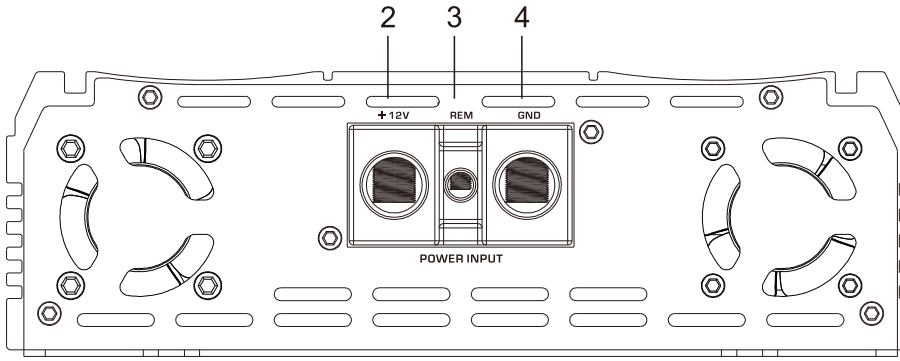
NA-BZ1000D



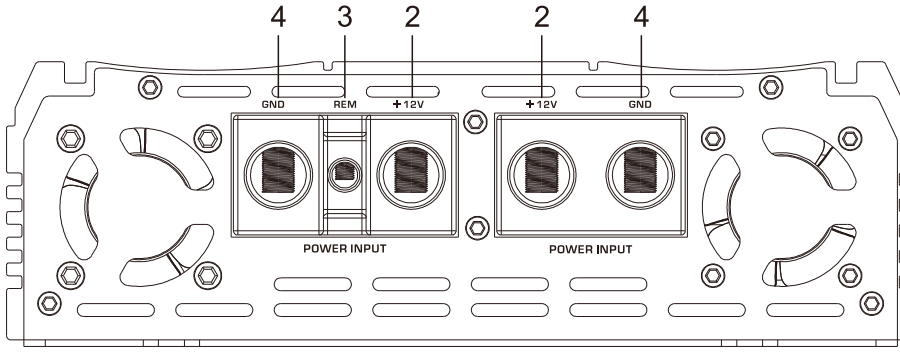
NA-BZ1500D & NA-BZ3000D



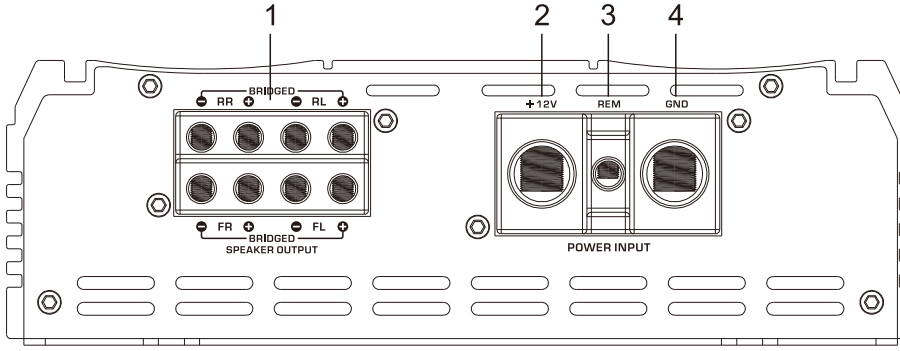
NA-BZ5000D



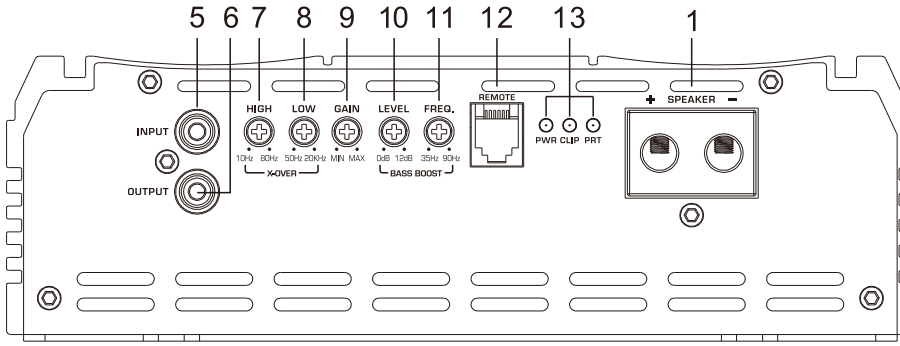
NA-BZ8000D & NA-BZ12000D



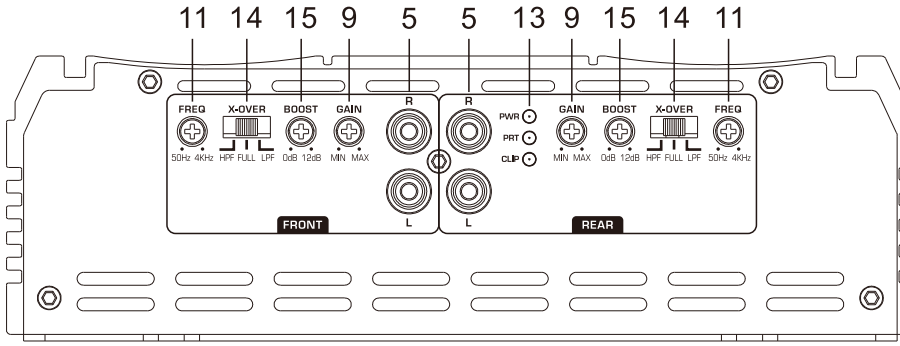
NA-BZ500X4D



NA-BZ1000D & NA-BZ1500D & NA-BZ3000D
NA-BZ5000D & NA-BZ8000D & NA-BZ12000D



NA-BZ500X4D



1. Speaker connection

Never connect the speaker cables with the chassis ground. This may destroy your amplifier. Check that your speakers are connected correctly which means plus to plus and minus to minus. We recommend speaker cable from 2.25mm to up. The connection ways are shown in the attachment.

2. +12V

Battery + terminal. The +12 Volt power cable must be connected with a fuse in line near the battery + terminal. Please see the table of cable and fuse selection.

3. REM

Remote terminal. The remote cable must be connected with the radio remote terminal so that the amplifier will switch on and off automatically with the radio. If there are two or more amplifiers installed together, it might be necessary to add an additional relay. Please consult your dealer.

4. GND

Chassis ground terminal. The chassis ground cable must be connected very tight on a nearby massive and electric conductive place.

5. RCA audio input

These RCA audio inputs connect with your radio RCA outputs. Please use high quality RCA cables. Keep these cables as short as possible. To avoid electrical cables away from other current carrying cables in the car. If your radio has only speaker output, you must use a HIGH LOW LEVEL adaptor.

6. RCA audio output

The RCA outputs connect another amplifier for multi amplifiers system.

7. High Pass Filter

For High Pass Mode adjust the knob by turning clockwise/counter clockwise, this control limits the frequencies that are distributed to the speakers within the range 10Hz - 80Hz.

8. Low Pass Filter

For Low Pass Mode adjust the knob by turning clockwise/counter clockwise, this control limits the frequencies that are distributer to the speakers within the range 80Hz - 20kHz

9. GAIN

Used to reach maximum amplifier power by matching the output voltage of with a wide variety of the head units.

10. Level Control

Increase sound level in lower frequencies by 12dB.

11. FREQ

When switch set on HP, it is for amplifier output frequency lower limit regulator;
When switch set on LP, it is for amplifier output frequency upper limit regulator.

12. REMOTE

This port is for the remote level control. The control is intended to allow the user to control the level of the amplifier from your driver's seat.

13. Power / Protect / Clip indicator

Power indicator: Used to indicate the unit is on and you can resume normal operation.
Power on: Blue light.

Protect indicator: If the red light turns on, this will indicate the unit has entered protection mode.

Clip indicator: When flashing indicates clipping is present while playing source material. At this point it is suggested to adjust the amplifier's gain level until the CLIP LED is only flashing on peak notes.

14. X-OVER

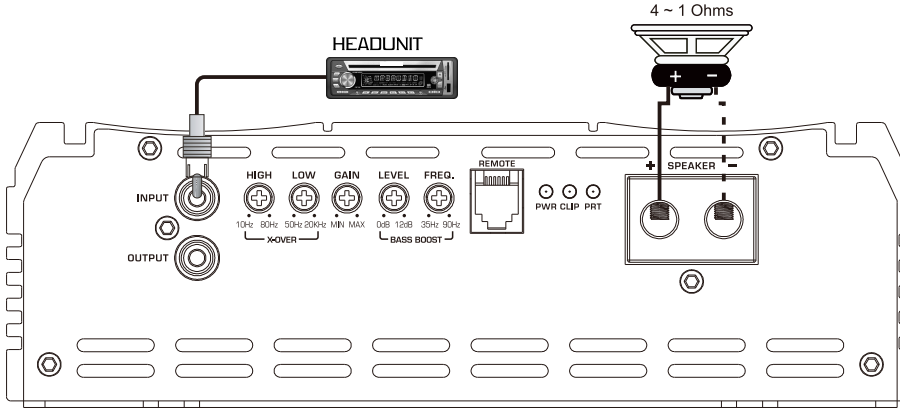
This switch allows you to select the crossover. Use HPF(high pass filter) for midrange or high frequency speakers. Use LPF (low pass filter) for subwoofers. In the FULL position, neither crossover adjustment knob has an affect and all speakers will receive the full frequency range.

15.Bass Boost

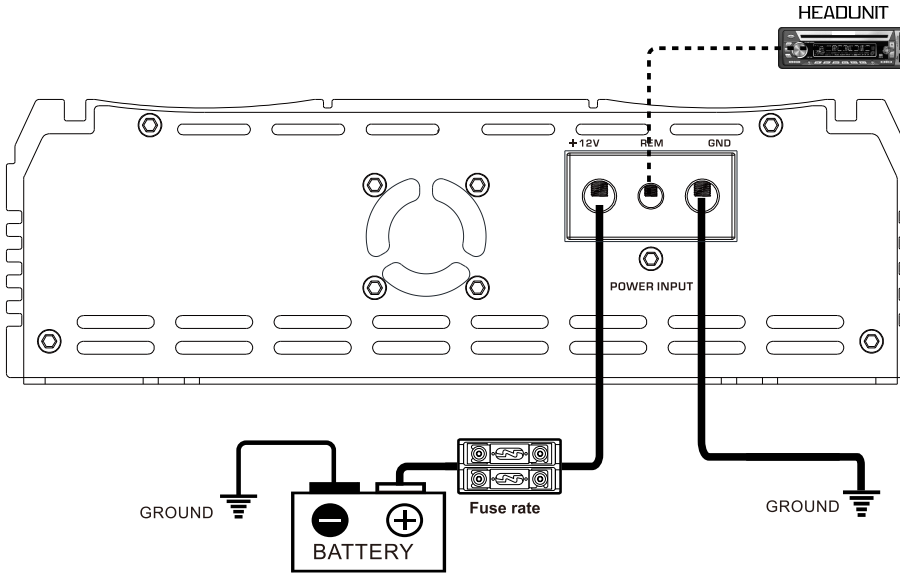
Increase sound level in lower frequencies by 12dB.

WIRING CONFIGURATION

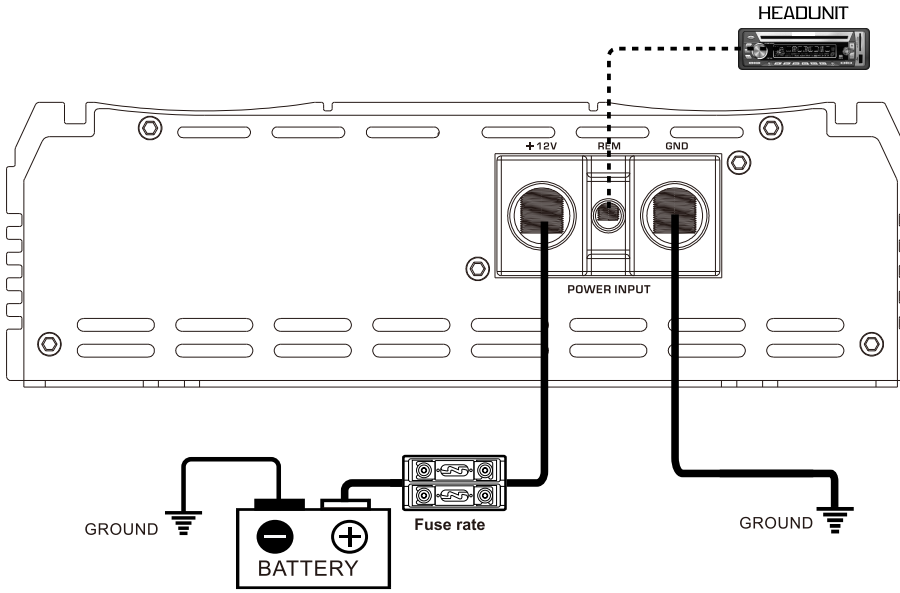
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NA-BZ5000D & NA-BZ8000D & NA-BZ12000D



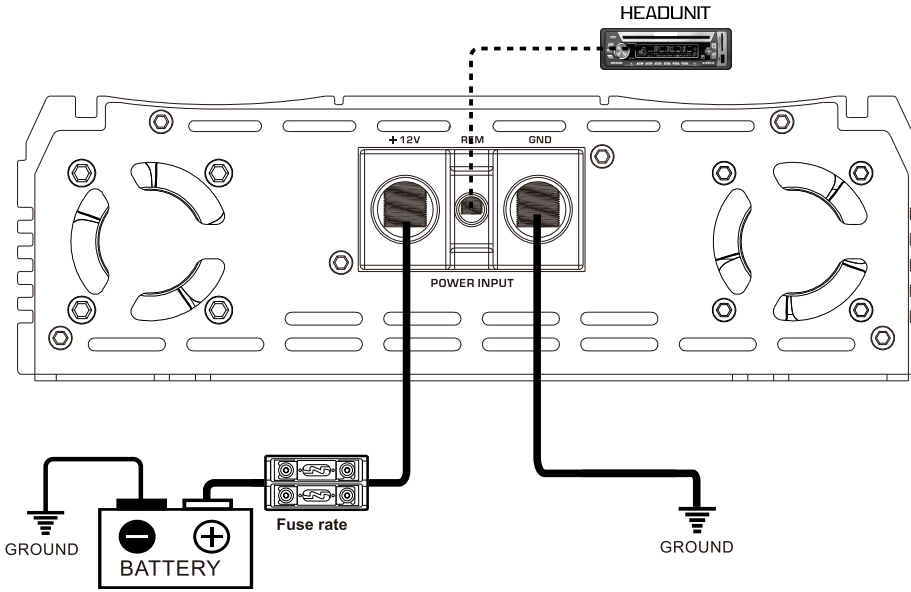
NA-BZ1000D



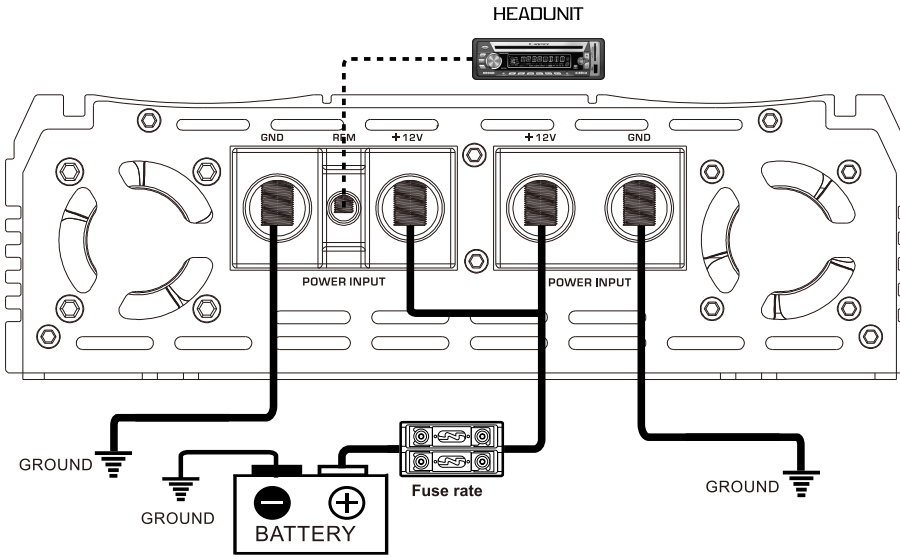
NA-BZ1500D & NA-BZ3000D



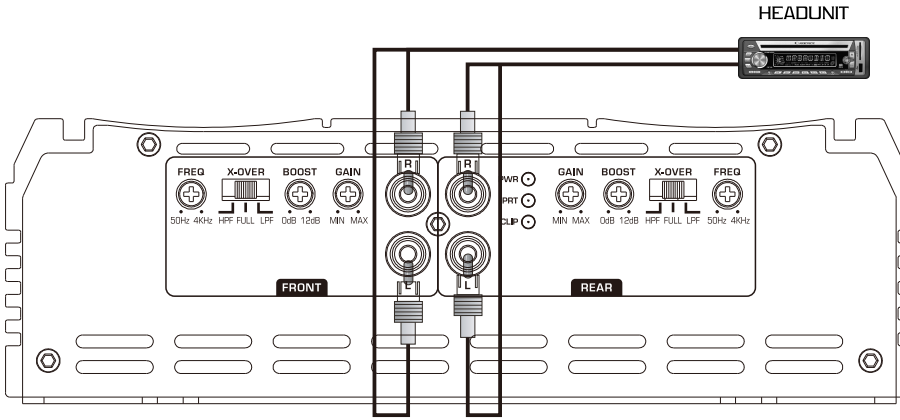
NA-BZ5000D



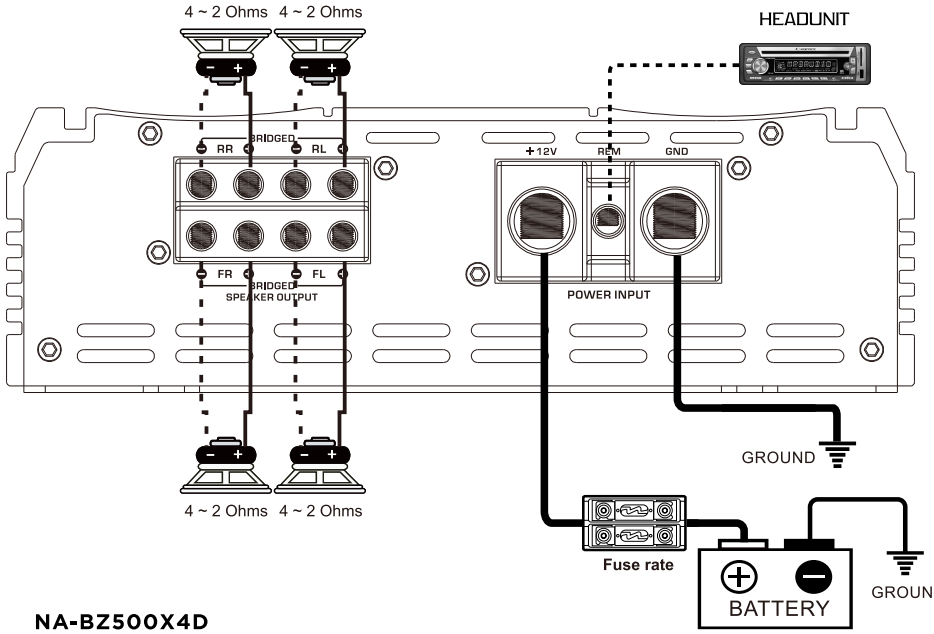
NA-BZ8000D & NA-BZ12000D



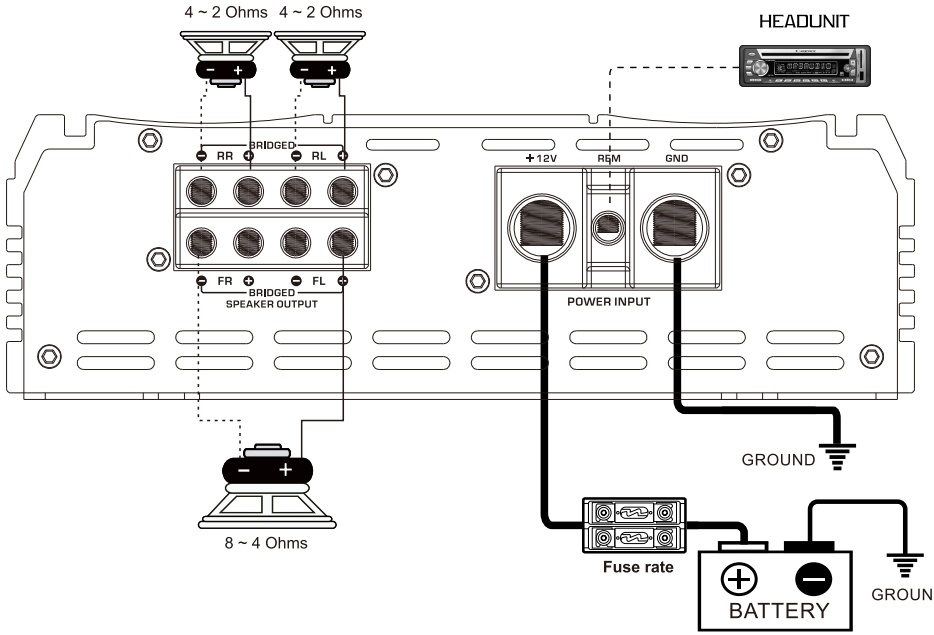
NA-BZ500X4D



NA-BZ500X4D



NA-BZ500X4D



TROUBLE SHOOTINGS

- NA-BZ series audio amplifiers have protection features to prevent any damages from misuse or faulty conditions.
- NA-BZ series audio amplifiers sense excessive heat, short circuited speakers DC, or voltage the protection indicator will light, and the system will be turned off.
- In order to check the problem, you should turn all levels down and all power off and carefully check the installation for wiring mistakes or short.
- If NA-BZ series audio amplifiers shuts down due to excessive heat, They will be working later when it is cooled down
- Before removing your amplifier, refer to the list below and follow the suggested procedures.

NO SOUND (NO OUTPUT)

- Please check all connections, cable's rounting, short & voltage.
- Please check the fuses , If they are blown, please replace with new one.
- Please check whether speakers work well, you can test speakers by connecting to another amplifier

DISTORTION & NOISE

- Readjust input level and check the speaker quality at another amplifier. Replace poor quality speakers with good quality ones.
- Check amplifiers and head unit's ground contact. all grounds should be common.
- Check RCA Jack, then replace with new one or reroute RCA Jack.
- Engine noise is caused by poor grounding of amplifiers, head unit, other components, battery or alternator, so please check all grounding connection.

POOR BASS RESPONSE

- Please check speaker cables and reverse polarity.



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