NEMESIS AUDIO

AMPLIFIER OWNER'S MANUAL

Models:

NA-MR2KD / NA-MR2500X5B
NA-MR1400X4B / NA-MR2000X4B

Designed in U.S/www.nemesisaudio.com

WELCOME

Thank you for choosing NEMESIS AUDIO NA-MR Series Powersport amplifiers. Your choice of NEMESIS AUDIO indicates a desire for high quality music reproduction in the automobile. NEMESIS AUDIO brings to you over fifteen years of 12-volt audio expertise. So, whether you are an off-road driving music lover, or a serious car audio competitor, Should be dealer is highly recommended.

To take full advantage of your new NEMESIS AUDIO NA-MR Series Powersport amplifier you have just purchased, please read and follow the instructions in this manual. As with all of our products, professional installation by an authorized NEMESIS AUDIO dealer is highly recommended. Otherwise, the performance of your new gear may not be satisfactory. In addition to the installation services and expertise offered by an authorized NEMESIS AUDIO dealer, the warranty of this product may be extended when installed by an authorized Sundown Audio dealer. Be sure to ask your authorized dealer about whether your product may qualify for an extended warranty.

INTRODUCTION

The NEMESIS AUDIO NA-MR Series Powersport amplifiers offer high-quality audio reproduction for the audiophile and the everyday listener alike. All models feature fully variable crossovers with 12 dB per octave slopes, allowing you the ability to tailor the sound to best fit the speakers and your listening preferences. The IP67 molded RCA, speaker, and power harness ensure solid electrical connections that resist corrosion. Fully sealed variable crossovers promote installation ease and save the cost of outboard crossovers. Additionally, they may be used in conjunction with outboard passive or active crossovers, depending on the complexity required by the system. The 12 dB per octave slope offers a steep roll-off a-bove or below the selected frequency. The protection circuitry protects the amplifier in overload, short circuit, thermal, low voltage, high voltage, and reverse polarity. These protection features are designed to protect the amplifier from misuse, as well as from common causes of amplifier failure.

INSTALLATION

Professional Installation by an authorized NEMESIS AUDIO dealer is highly recommended. Otherwise, the performance of your new gear may not be satisfactory. In the event that you decide to do your own installation, please read and follow this manual very carefully. Failure to do so may compromise the integrity of this product, your automobile, and possibly void the product warranty.
Amplifiers are generally mounted in the hatch`trunk area of an off-road UTV, ATV, motorcycle, marine boat, and under or behind the seat of most vehicles. Select a location that will provide adequate ventilation for the amplifier. Avoid mounting the amplifier with the fins facing down. The fins should be facing up, either vertically or horizontally. Secure the amplifier with the screws provided.

START

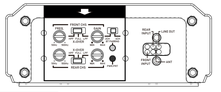
Before securing the amplifier, inspect the mounting location carefully to ensure that you do not drill into or damage any electrical, hydraulic, fluid, or fuel lines.

Because of the wide range of head unit output configurations, all NEMESIS AUDIO NA-MR Series Powersport amplifiers have an adjustable input sensitivity of "Gain". The gain is not a volume or a power-limiting control like a throttle. It makes the amplifier more sensitive to input. From the input with the gain up the amp will reach full output at a lower volume setting on the head unit. At higher gain settings the amplifier also becomes more sensitive to noise from the vehicle electrical system. Try to run the gain at the lowest setting possible for your system.

There is no correct gain setting. Because speakers require different power demands to reach the same output, the gains most often need to be used to compensate for these differences. If you tried to set all the gains at halfway you would probably find the system didn`t sound very good. Using good judgment and listening carefully to each speaker is still the best way to tune a system.

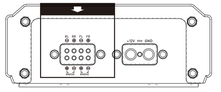
CROSSOVER CONTROLS

A crossover is a device that removes unwanted frequencies from a speaker or amplifier. A tweeter can easily be destroyed by bass notes if they are not filtered out. Likewise, a subwoofer will not sound natural if it is playing midrange notes. A crossover removes these sounds from the speaker. As you might guess, careful adjustments are needed to ensure that all the speakers are playing the right sound and that you are left with no low spots in the frequency response.



SPEAKER OUTPUTS

Some amplifiers are a multi-channel amplifier design, meaning it has more than one channel of speaker outputs. NA-MR amplifiers wiring harnesses have molded speaker and power wires sealed to the side panels. Make this connection carefully and neatly. Strip your wire back and twist the exposed leads together, being careful that there are no loose or frayed strands of wire and solder the wires well, coat them with silicone, and then cover it with shrink-wrap. A well-protected connection can run well for years or decades.



If the wires ever come in contact with each other the amplifier will go into protection. Know your total ohm load before you make any connections.

INSTALLATION INSTRUCTIONS

1. Before you start, disconnect the negative cable from the car battery. Tape up the end so it is isolated from the battery.
2. Run an appropriate gauge wire from the battery to the amplifier. Plan this part of the installation carefully, this cable will carry a very high current. If it should short to the body and it is not properly fused, it could catch fire.
3. Connect the power wire to the battery using a fuse capable of the total current load of all amplifiers connected. Do not install the fuse yet. Wait until the end. Locate the fuse as close as possible to the battery. If the fuse is further than 18inches (wire length) from the battery you should re-evaluate the wire and fuse placement.
4. Find the closest clear metal area to the amplifier for a ground. Prep the area by sanding, grinding or scraping all paint and undercoating from the body and screw the ground securely in place. It is advisable to test the ground with an ohmmeter between the ground cable and the negative battery cable to ensure a good low resistance connection. Some alloys used in modern cars do not offer the best ground. If you believe this is the case consult with the vehicle manufacturer.
5. Run the speaker wire to the speakers. It is advised that you leave some extra wire at this point. You can "clean it up" later.
6. If you have not already done so, mount the amplifier now.
7. Connect the power and ground to the amplifier. Only after this step should you install the fuse on the battery.
8. Connect the remote wire from the head unit to the amplifier. Now is a good time to turn on the amplifier for the first time. Make sure it turns on properly and does not go into protect.
9. Connect the speaker wires to the amp and speakers (make sure the amp is off first). Make sure the polarity (+ and -) is correct.
10. Connect the RCA's to the amplifier.
11. Double check the amplifier controls at this time. Make sure everything is set correctly for your system.
12. Now you are ready to play it for the first time. It is best to leave the gain all the way down at first. Start with the head unit volume low and work your way up.
13. Now you can tune the amp. Take your time and make only one adjustment at a time. It may take some time to get the system fully adjusted. During this time the amp is drawing current from the battery. You should check the battery voltage from time to time and re-charge it if it gets low. That's it. You're done. Congratulations!

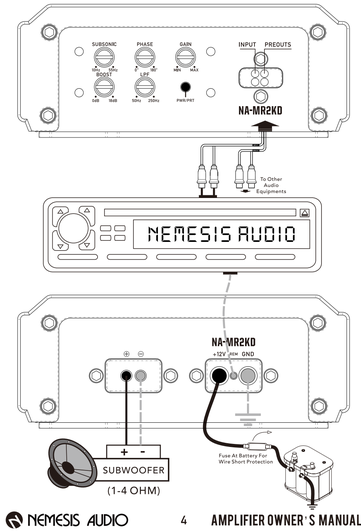
FEATURES

- International Rectifier Full-range Class-D Topology Offers Efficiency & Performance
- Designed Specifically for all Powersport, Marine, Motorcycle Applications
- Conformal Coated PCB and IP67 Waterproof to Withstand Outdoor Elements
- Ultra-Compact Size for Easy Installations
- Surface Mount Component Technology
- Audio Precision Quality Control Verification
- Stable & Reliable Four Layers PCB Trace Layout
- Power & Protection Led Lights Status Indicator
- Short circuit, Thermal and Voltage protection
- Excellent Signal to Noise and FM Noise Rejection
- Wireless Streaming for Multi-Channel Amplifiers

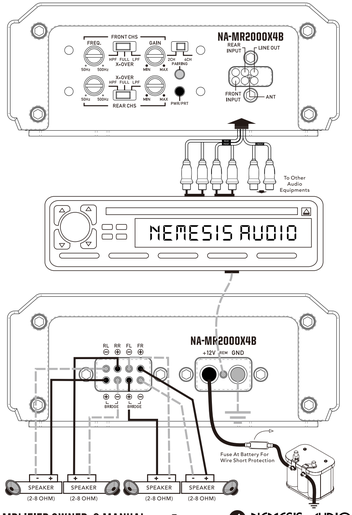
SPECIFICATIONS

MODEL NO.	NA-MR2KD	NA-MR1400X4B	NA-MR2000X4B	NA-MR2500X5B
CIRCUIT TOPOLOGY	Mono Block Class-D	Full-Range Class-D	Full-Range Class-D	Full-Range Class-D
MAX / RMS POWER OUTPUT AT 1Ω	2000W / 1000W	N/A	N/A	N/A
MAX / RMS POWER OUTPUT AT 2Ω	1400W / 700W	350Wx4CH / 175Wx4CH	500Wx4CH / 250Wx4CH	MAX:400Wx4CH+1000W RMS:200Wx4CH+500W
MAX / RMS POWER OUTPUT AT 4Ω	840W / 420W	200Wx4CH / 100Wx4CH	320Wx4CH / 160Wx4CH	MAX:200Wx4CH+640W RMS:125Wx4CH+320W
MAX / RMS POWER OUTPUT AT 4Ω BRIDGED	N/A	700Wx2CH / 350Wx2CH	1000Wx2CH / 500Wx2CH	800Wx2CH / 400Wx2CH FRONT & REAR CHs
TOTAL HARMONIC DISTORTION	<0.3%	<0.3%	<0.3%	<0.3%
S/N RATIO REF 1W AT 4Ω	>90dB	>90dB	>90dB	>90dB
GAIN RANGE	0.3-6V	0.3-6V	0.3-6V	0.3-6V
CROSSOVER RANGE	LPF:50-250Hz	50-500Hz	50-500Hz	50-500Hz
SLOPE OCTAVE	24dB	12dB	12dB	12dB
FREQUENCY RANGE	20-500Hz	20-20KHz	20-20KHz	20-20KHz
Wireless Connect Capability	N/A	Device Name: NA-MR1400X4B	Device Name: NA-MR2000X4B	Device Name: NA-MR2500X5B
BASS BOOST	0-18dB	N/A	N/A	N/A
HIGH LEVEL INPUT DIFFERENTIAL BALANCED INPUT	N/A	YES	YES	YES
INPUT CONFIG	N/A	2CH/4CH	2CH/4CH	**2CH / 5CH**
DIMENSIONS(MM)	266x116x66.6 10.5"x4.57"x1.83"	236x116x66.6 9.3"x4.57"x1.83"	246x116x66.6 9.7"x4.57"x1.83"	286x116x66.6 11.26"x4.57"x1.83"

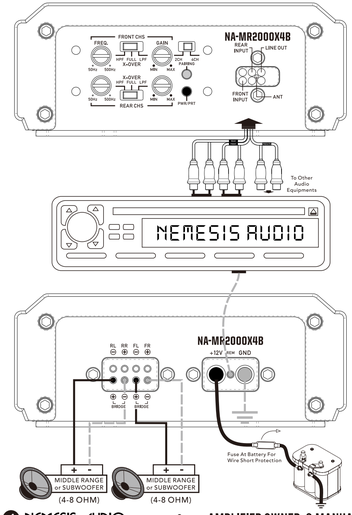
INSTALLATION-NA-MR2KD



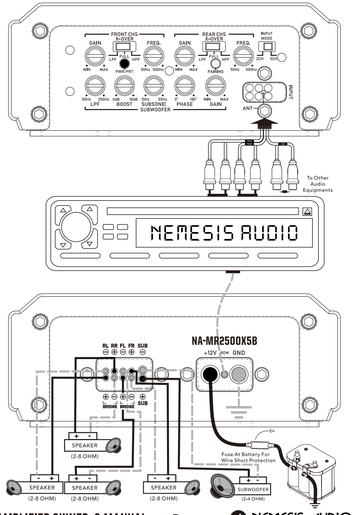
NORMAL INSTALLATION-NA-MR1400X4B / NA-MR2000X4B



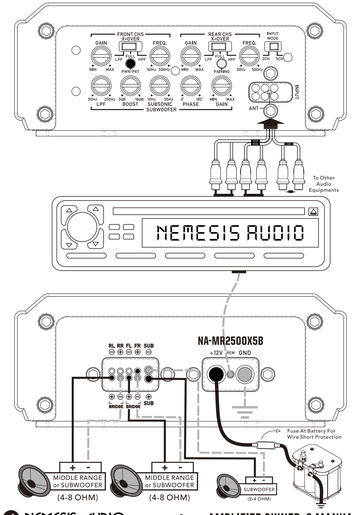
BRIDGED INSTALLATION-NA-MR1400X4B / NA-MR2000X4B



NORMAL INSTALLATION-NA-MR2500X5B



BRIDGED INSTALLATION-NA-MR2500X5B



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WARRANTY

Should your amplifier require service Please consult with the dealer from which it was purchased,or contact **Nemesis Audio** Local Dealer.
Do not attempt to return your amplifier directly to us without first calling for a Return Authorization Number. Units received without an accompanying Return Authorization Number will be processed more slowly. Additionally, you must include a copy of your purchase receipt from an authorized dealer for consideration of in-warranty service; otherwise repair charges will apply. Units received without a receipt will be held for 30 days, allowing us time to contact you and obtain a copy of the receipt. After 30 days,all units will be returned.

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