

# AMPLIFIER OWNER'S MANUAL

Models: VAD8402//VAD10004//VAD11005  
VAD10001//VAD17001//VAD27001

Feature:

- KIS(International Best)Full Bridge Capable Class-D Topology
- Compact Size Footprint for easy installation of Car/Marine Applications
- Variable Full Crossover Filter (PF)FLU/LPF(VAD8402/VAD10004/VAD17001)
- Surface Mount Component Technology
- Audio Precision Quality Control Verification
- Sticks&Shields Four Layers PCB Trace Layout
- Conformal Coating/PCB Finish for Water Resistance
- Short circuit, thermal and voltage protection
- Remote Bass Kick(VAD10001/VAD17001/VAD27001)

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WHERE YOU HEADED?

Thank you for choosing NVX VAD amps! Your choice of NVX VAD amps indicates a desire for high quality music reproduction in the automobile. NVX VAD amps brings to you over four decades of car audio expertise. So whether you are a daily driving music lover, or a serious car audio competitor, NVX VAD amps have the product for you!

To take full advantage of the NVX VAD amps gear you have just purchased, please read and follow the instructions in this manual. As with all of our products, professional installation by an authorized NVX VAD amps 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 NVX VAD amps dealer, the warranty of this product may be extended when installed by an authorized NVX VAD amps dealer. Be sure to ask your authorized NVX VAD amps dealer about whether your product may qualify for an extended warranty.

You're Headed in the Right Direction with NVX VAD amps!

INTRODUCTION

The NVX VAD 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.

Platinum finish connections      Ensures solid electrical connections that resist corrosion.

Fully Variable Crossovers      Fully variable crossovers promote installation ease and save the cost of outboard crossover. 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 steep roll-off above or below the selected frequency.

Protection Circuitry      Against Overload, Short Circuit, Thermal, 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 NVX VAD amps 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 a car or SUV, and under or behind the seat of most pick up trucks. Select a location that will

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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.

WARRANTY!

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.

Input Section

Because of the wide range of head unit output configurations all NVX VADM amps have an adjustable input sensitivity of "Gain". The gain is not a volume or a power limiting control like a throttle. It makes the amp more sensitive to input from the stereo, with the gain up the amp will reach full output at a lower volume setting on the deck. At higher gain settings, the amp also becomes more sensitive to noise from the car's electrical system. Try to turn the gain at the lowest setting possible for your system.

There's 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're tied to set all of the gains of half way 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 adjustment is needed to ensure that all the speakers are playing the right sounds and that you are left with no "holes" or low spots in the frequency response.

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BASE BOOST

VAD10001/VAD17001/VAD27001 amps amplifiers have an adjustable bass boost! Begin your adjustments at low volume. If you do not hear any improvement then woefer does not need any BASS BOOST. The Low Pass Filter (LPF) must be switched on for the bass boost to activate. Use Bass Boost carefully, the demands on power output are tremendous. Try to minimize the use by changing woofer position or the enclosure.

SPEAKER OUTPUTS

This amplifier is a multi channel amplifier design. Meaning it has more than one channel of speaker outputs. It is equipped with a large block style terminal for speaker connection. Make this connection carefully and neatly, strip your wire back and twist the exposed leads and insert them into the block terminal while being careful that there is no loose or frayed strands of wire and tighten the Allen head screw down on the terminal till the wire is tightly secured in place. 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

- Before you start, disconnect the negative cable from the car battery. Tape up the end so it is isolated from the battery.
- Run an appropriate gauge wire from the battery to the amplifier. Plan this part of the installation carefully, this cable will carry very high current. If it should short to the body and it is not properly fused it could catch fire.
- Connect the power wire to the battery using a fuse capable of the total current load of all amplifiers connected. **Don't install the fuse yet!** Wait until the end, locate the fuse as close as possible to the battery. If the fuse is further than 18 inches (wire length) from the battery you should reevaluate the wire and fuse placement.
- Find the closest clean metal area to the amp for a ground, sand, grind or scrape all paint and undercoating from the body and screw the ground securely in place.

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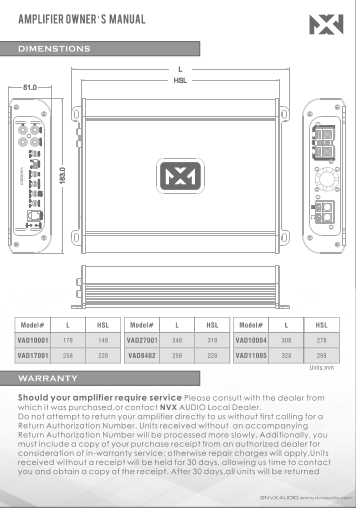
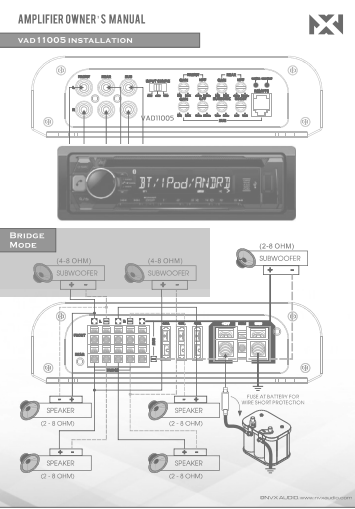
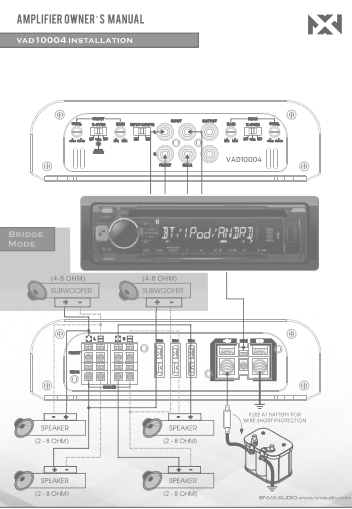
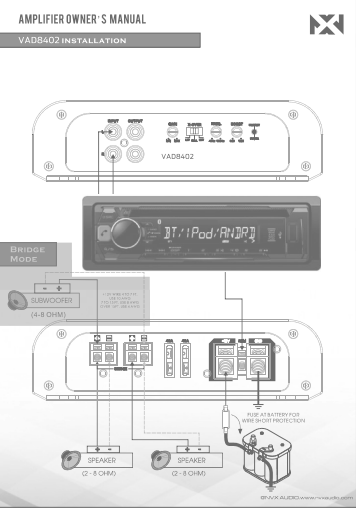
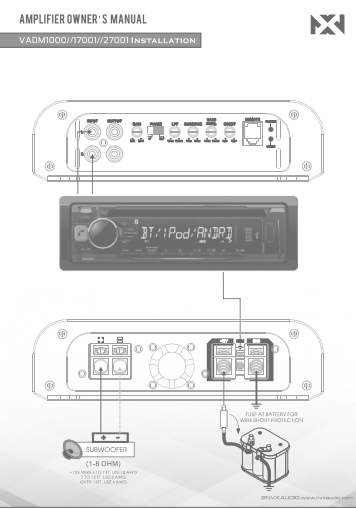
It is advisable to test the ground with an ohmmeter between the ground cable and the negative battery cable to insure a good low resistance connection. Some alloys used in modern cars do not offer the best ground. If you believe this is the case consult with the vehicle manufacturer.

- 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.
- If you haven't already done so, mount the amp now.
- Connect the power and ground to the amplifier.
- Only after this step should you install the fuse at the battery.
- Connect the remote wire from the head unit to the amplifier. Now is a good time to turn on the amp for the first time. Make sure it turns on properly and does not go into protection.
- Connect the speaker wires to the amp and speakers (make sure the amp is off first). Make sure the polarity (+ and -) is correct.
- Connect the RCA's to the amp.
- Double check the amplifier controls at this time. Make sure everything is set correctly for your system.
- Now you're 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.
- 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. Now have fun.

SPECIFICATIONS

MODEL NO.	VAD10001	VAD17001	VAD27001	VAD8402	VAD10004	VAD11005
POWER OUTPUT AT 1 Hz	1000W	1700W	2700W	-	-	-
POWER OUTPUT AT 2 Hz	700W	1000W	1900W	420W@2CH	320W@2CH	300W@2CH
POWER OUTPUT AT 4 Hz BRIGED	-	-	-	840W@2CH	600W@2CH	560W@2CH
TOTAL HARMONIC DISTORTION	<0.3%	<0.3%	<0.3%	<0.3%	<0.3%	<0.3%
S/N RATIO REF 1W @ 1 kHz	>80dB	>80dB	>80dB	>80dB	>80dB	>80dB
GAIN RANGE	0.2-8V	0.2-8V	0.2-8V	0.2-8V	0.2-8V	0.2-8V
CROSSOVER RANGE	50-250Hz	50-250Hz	50-250Hz	40-100Hz	40-100Hz	40-100Hz
FREQUENCY RANGE	50-250Hz	50-250Hz	50-250Hz	20-200Hz	20-200Hz	20-200Hz
SUBSONIC	10-50Hz	10-50Hz	10-50Hz	-	-	10-50Hz
BASS BOOST	0-12dB	0-12dB	0-12dB	0-12dB	-	0-12dB
BASS REMOTE CONTROL	Yes	Yes	Yes	No	No	Yes
DIMENSIONS (LxHxW)mm	178	258	348	258	328	328

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