NVX

X-Series

4-channel Amplifiers

XAD41 | XAD42

Performance

RMS Power Output	XAD41	XAD42
@ 14.4V, 4 Ohm, ≤ 1% THD + N	100W x 4	350W x 4
@ 14.4V, 2 Ohm, ≤ 1% THD + N	150W x 4	400W x 4
@ 14.4V, 1 Ohm, ≤ 1% THD + N	300W x 4	800W x 4
@ 14.4V, 4 Ohm (Bridged), ≤ 1% THD + N	300W x 2	800W x 2
@ 14.4V, 2 Ohm (Bridged), ≤ 1% THD + N	600W x 2	1600W x 2
Minimum Recommended Power/Ground Wire Size	4 AWG	2 AWG

Specifications common on all models

Input Sensitivity	200mV
Signal-to-Noise Ratio	100dB
Frequency Response	10Hz – 20kHZ
Electronic Crossover	Variable Hi/Lo-pass: 40Hz – 500Hz
Bass Boost	Variable: 0 – 12dB (50Hz)

Tip: To obtain the best performance out of your NVX amplifiers, it is suggested that you contact an authorized NVX dealer and discuss your installation options with a professional to ensure the best quality installation.

Installation

Mounting: Choosing a mounting location for the X-Series monoblock amplifiers involves more than just finding a place where to install the amplifier. We suggest the following guidelines to properly mount your amplifier to your vehicle.

- Choose a mounting location where the amplifier can be well ventilated.
- Mount your amplifier in a sturdy and rigid location.
- Ensure that there are no electrical wires or fuel lines behind where you will be drilling.
- Secure the amplifier by tightening all four screws.
- Have enough room around the amplifier where you can easily connect all power and audio cables as well as make audio control adjustments.
- Avoid mounting the amplifier directly to a subwoofer enclosure as this will produce excessive
  vibrations which can vibrate critical solder joints or components on the circuit board to become loose.

NVX

California Proposition 65 Warning

For more information, visit: www.P65Warnings.ca.gov

WARNING: This product contains chemicals, including lead or lead compounds, that are known to the State of California to cause cancer, and birth defects or other reproductive harm.

ADVERTENCIA: Este producto contiene sustancias químicas, incluyendo plomo o compuestos de plomo, que son reconocidos por el Estado de California que provocan cáncer, defectos de nacimiento u otros daños reproductivos.

Any product which has had the serial number defaced, altered, or removed.
Subsequent damage to other components.
Any product purchased outside the U.S.
Any product not purchased from an Authorized NVX Audio Dealer.

Limit on Implied Warranties

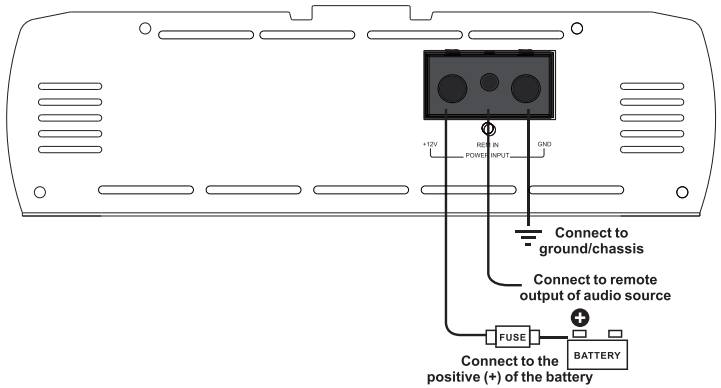
Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for NVX Audio any other liability in connection with the sale of the product.

How to Obtain Service (See Return Authorization Process)

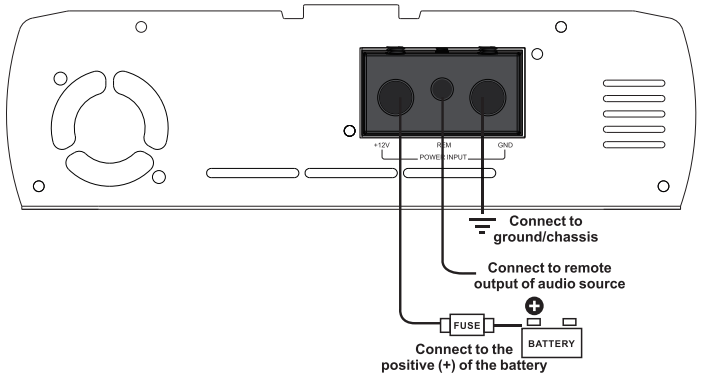
Contact the authorized NVX Audio Dealer you purchased this product from. If you need further
assistance visit us at www.nvx.com/contact for customer service. You must obtain an RA# (Return Authorization number) to return any product to NVX Audio you are responsible for.
shipment of product to NVX Audio.

Fig 1 THE POWER CONNECTIONS

XAD41



XAD42



Wiring: The X-Series amplifier requires a direct connection to the vehicle battery to provide power for operation. Power connections should be circuit protected to protect the vehicle from any electrical short, fire hazard, amplifier damage, or even injury. If several amplifiers are connected to one main power wire connection, we recommend to electrically distribute the power connection to each amplifier with its own form of circuit protection. Before making any type of wire or cable connections to your amplifier, disconnect the vehicle's battery to avoid any electrical shorts. Below are recommendations for proper power cable installation and connections.

- Make the ground wire as short as possible.
- Connect the ground wire to a paint and corrosion-free, solid, metal area of the vehicle's chassis.
For a solid ground connection, an additional ground wire of the same gauge is recommended as the main power wires (or larger) between the battery's post and the vehicle chassis.
- Install an in-line fuse within 18" of the battery's positive terminal.
- Place an additional in-line fuse within 18" of the amplifier.

Note: In the event, you need to remove the amplifier from your vehicle, the ground wire should be the last wire disconnected from the amplifier, just the opposite as it was when you installed it.

CONSUMER
LIMITED WARRANTY INFORMATION

NVX Audio offers a limited warranty on NVX Audio products on the following terms:

Length of Warranty (U.S.A.)
• Standard Warranty - 1 Year

Length of Warranty (World Wide)
Warranties vary by country. Please contact your local Authorized NVX Audio Distributor for further terms & conditions.

What is Covered?
This warranty applies only to NVX Audio products sold to consumers by Authorized NVX Audio. Dealers in the United States of America or its possessions. Product purchased by consumers from an Authorized NVX Audio Dealer in another country are covered only by that country's distributor and not by NVX Audio.

Who is Covered?
This warranty covers only the original purchaser of NVX Audio products purchased from an Authorized NVX Audio Dealer in the United States. To receive service, the purchaser must provide NVX Audio with a copy of the receipt stating the customer name, dealer name, product purchased, and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at NVX Audio's discretion.

What is Not Covered?
Damage caused by accident, abuse, improper operations, water, theft, shipping.
Any cost or expense related to the removal or reinstallation of the product.
Service performed by anyone other than NVX Audio or an Authorized NVX Audio Service Center.

Protection LED illuminated red? 1) If the amplifier is very hot to the touch and thermal protection is engaged. Test for proper impedance at the speaker terminals with a multimeter. Check for adequate airflow around the amplifier. 2) If the amplifier shuts down while the vehicle is running, the voltage protection is engaged and voltage to the amplifier is not within the 10-16-volt operating range. Have the vehicle's charging and electrical system inspected? 3) If the amplifier will only play at low volume levels, the short circuit protection is engaged. Check for speaker wires shorted to each other or the vehicle chassis. Check for damaged speaker(s) operating below the minimum recommended impedance.

Alternator/generator noise-whining sound with engine's RPM? 1) Check for damaged RCA cables. 2) Check the routing of the RCA cables (do not run signal and power cables parallel to each other. 3) Check the source unit for proper grounding. 4) Check the gain settings and turn them down if they are set too high.

Ground noise? NVX Audio amplifiers are engineered to be fully compatible with all manufacturer's stereo head units. Some head units may require additional grounding to prevent noise from entering the audio signal. If you are experiencing this problem with your head unit, in most cases running a ground wire from the RCA outputs on the head unit to the chassis will remedy this issue.

Reduced bass response? Reverse a speaker connection from positive to negative on the subwoofer terminals, if the bass improves, the speaker was out of phase.

CAUTION: When jump-starting the vehicle, be sure that connections made with jumper cables are correct. Improper connections can result in blown amplifier fuses as well as the failure of other critical systems in the vehicle.

Fig 2 THE SPEAKER CONNECTION

XAD41/XAD42

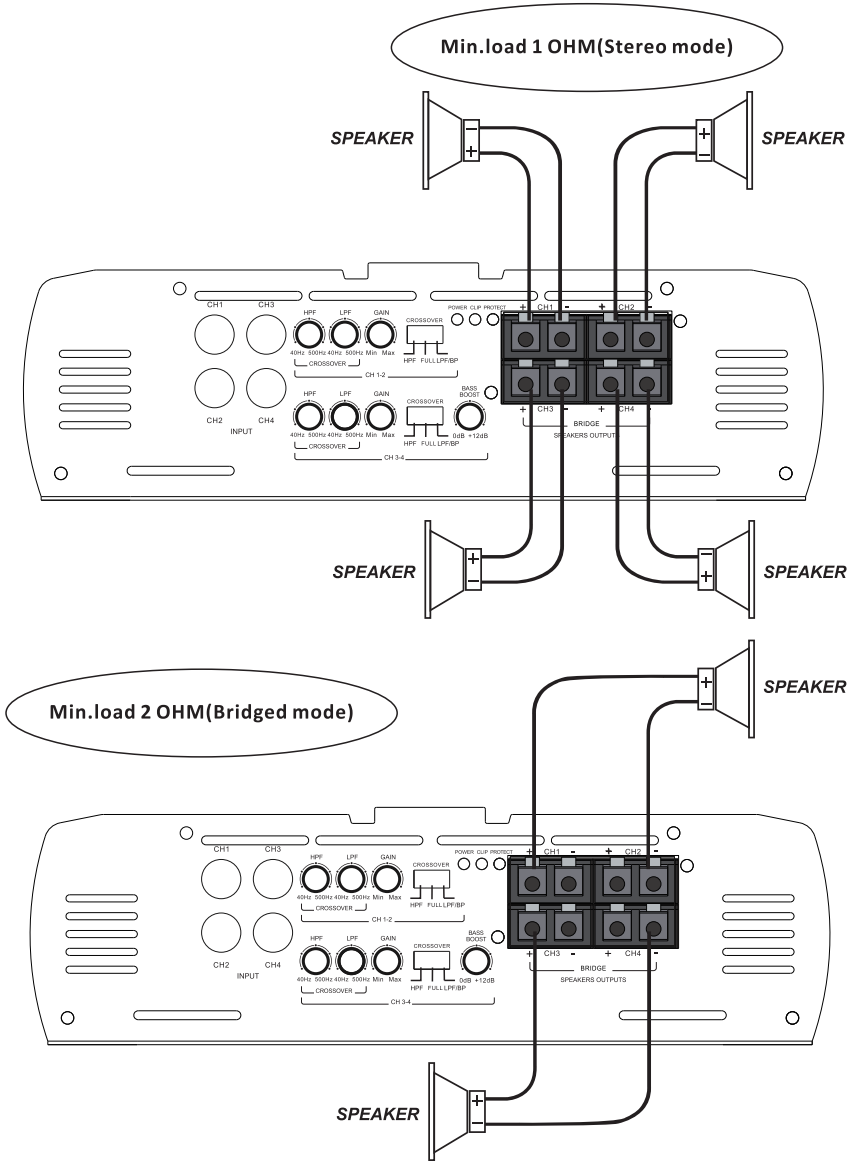
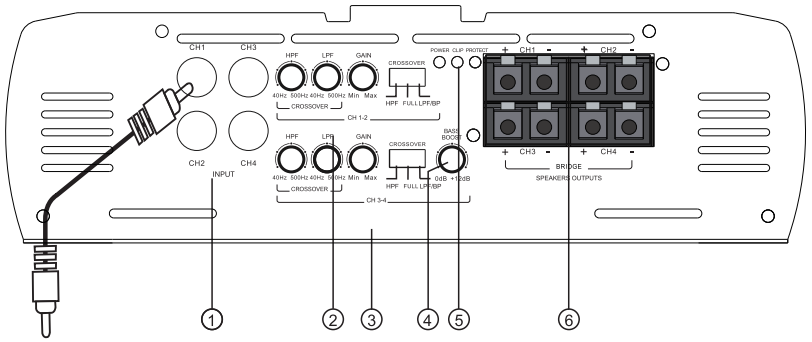


Fig 3 FRONT PANEL CONNECTOR

XAD41/XAD42



Source Unit

1	RCA signal input (2 Channel)	To connect the RCA signal wire from the audio source/head unit
2	Crossover: Channel 1 & 2	HPF: To adjust the high pass filter's crossover point (40Hz-500Hz)
		LPF: To adjust the low pass filter's crossover point (40Hz-500Hz)
		Gain: Input signal level adjustment 0.2V-6V
3	Crossover: Channel 3 & 4	HPF: To adjust the high pass filter's crossover point (40Hz-500Hz)
		LPF: To adjust the low pass filter's crossover point (40Hz-500Hz)
		Gain: Input signal level adjustment 0.2V-6V
4	Bass Boost	To adjust the Bass from min to max
5	Power status, clipping, protection LED	Indicating power and clipping status and activated protection mode
6	Speaker Output	To be connected to one or more speakers

Operation

Status LEDs (Power and Protect): Power LED will illuminate blue when the amplifier is turned on and operating normally. The clipping LED will illuminate yellow when experiencing any clipping issues. Protection LED will illuminate if the amplifier shuts down due to a short circuit, DC offset, or overheating.

HPF Variable Control: This is a separate low-frequency filter that can be adjusted anywhere from 40Hz - 500Hz. This control function is useful for removing low bass frequencies to prevent damage to the small full-range speakers.

LPF Variable Control: The variable crossover control on the side panel of the amplifier allows you to adjust the crossover frequency from 40-500Hz. We recommend starting at the midpoint setting (80Hz) and turn clockwise for greater mid-bass frequencies or counterclockwise for reduced mid-bass output.

Level Control: The input gain control is not a volume control. It is possible to have a maximum power output even at the minimum level setting. To set this level properly turn the source unit to 80% volume. Next, slowly turn clockwise the level control on the amplifier up until you can hear audible distortion, then turn it down to preferred settings.

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Line Level Inputs: The RCA inputs are capable of receiving low-level signals (200mV-6V) from a source unit, preamplifier, or equalizer.

Line-Level Outputs: Provides a full range signal for easy connection to additional Amplifiers.

GND (Ground): Connect this terminal directly to the metal chassis of the vehicle.

REM (Remote Turn): This terminal is used to turn on the amplifier when the stereo head unit is turned on. Connect it to the remote turn-on lead output of your stereo head unit.

Troubleshooting

If your amplifier does not appear to be working, check the obvious things first, such as blown fuses, poor or incorrect wiring, setting of the crossovers, source unit, gain setting, etc. There is a power LED indicator on the side of the amplifier denoting the power state of the amplifier in addition to the protection LED. Green status is working and Red signifies the amplifier is in protect mode.

Power LED not illuminated? With a multimeter check the following: 1) +12 volt power terminal

should read between +12V to 16V. 2) Remote turn-on terminal should read the same as +12 volt. 3) Check for reversed power and ground connections. 4) Ground terminal for proper conductivity. 5) Check for blown fuses.