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MVP AMPLIFIERS

MVPA1

MVPA4

[USER MANUAL](#)



THANK YOU FOR CHOOSING NVX

Thank you for choosing the NVX MVP Series of amplifiers for your car, boat, motorcycle, RV, ATV, or any other mobile application where big power and great sound quality is needed for a small space application. The new MVP line of amplifiers are truly groundbreaking. The most compelling feature is the small footprint, but don't let the diminutive size fool you – these amplifiers utilize the latest in class D technology and cutting edge circuit design to drive your gear. Previously when an ultra-small footprint amplifier was needed, you had to sacrifice both power and certainly sound quality. Thanks to the innovation of the NVX design team you no longer have to make that sacrifice. The MVP line delivers power and quality normally reserved for amplifiers that are 2-3 times their size. We're not going to say the phrase "big things come in small packages" was inspired by our newest line of amplifiers, but the MVP series certainly validates it. NVX has a proud tradition of building products that are as functional as they are innovative. With the MVP line you can install these amplifiers in just about any application and achieve both the sound and power previously unheard of in a footprint this small. The 4-channel MVPA4 is capable of delivering 100 watts per channel to drive your mids & highs and the MVPA1 monoblock is capable of delivering 300 watts by one to drive your subwoofer, and both are contained in a case smaller than a video cassette tape. Now no matter the application, you can rest assured that NVX has a product that's right for you.

SPECIFICATIONS

Model Number	MVPA1	MVPA4
RMS Power Output @ 14.4	200 Watts x 1 Ch @ 4 Ohm 300 Watts x 1 Ch @ 2 Ohm	50 Watts x 4 Ch @ 4 Ohm 100 Watts x 4 Ch @ 2 Ohm Bridged 175 Watts x 2 Ch @ 4 Ohm
Frequency Response	10 Hz - 400 Hz	10 Hz - 20 kHz
Input Sensitivity	0.20 V - 5 V	0.20 V - 5 V
Signal-to Noise Ratio	105 dB	101 dB
Variable Lowpass Filter	40 Hz - 400 Hz	40 Hz - 400 Hz
Variable Highpass Filter	-	40 Hz - 4.00 Hz
Bass Boost	0 / +6 / +12 dB	-
Total Harmonic Distortion	< 0.65 %	< 0.07 %
Operating Voltage	8 V - 16 V	8 V - 16 V
Net Weight	2 lbs (0.90 kg)	2 lbs (0.90 kg)
A Height	1.56 in (39 mm)	1.56 in (39 mm)
B Length	5.44 in (138 mm)	5.44 in (138 mm)
C Width	4 in (102 mm)	4 in (102 mm)



RMS Power Output: 200 Watts x 1 Ch @ 4 Ohm 1% THD+N
Signal-to Noise Ratio: 82 dB (reference: 1 Watt @ 4 Ohm)

RMS Power Output: 50 Watts x 4 Ch @ 4 Ohm 1% THD+N
Signal-to Noise Ratio: 84 dB (reference: 1 Watt @ 4 Ohm)

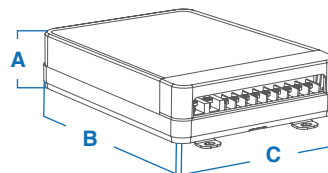
FEATURES

MVPA1

- Monoblock 1-Channel Amplifier
- Micro Class-D Circuitry
- LED Power/Protection Indicators
- 15A x 2 Mini-Blade Fuse
- Operating Voltage: 8V - 16V
- All Specs at Rated Power

MVPA4

- 4-Channel Bridgeable Amplifier
- Micro Class-D Circuitry
- LED Power/Protection Indicators
- 30A x 1 In-Line Mini-Blade Fuse
- Operating Voltage: 8V - 16V
- All Specs at Rated Power



SAFETY INFORMATION

- Please read and understand all instructions before attempting to use or install the amplifier. Damage caused by misuse is not covered under warranty.
- This unit is designed for use with 12VDC systems with negative ground only.
- Use only the supplied mounting hardware for a safe and secure installation.
- Adjust the volume to a safe and comfortable level when operating the motor vehicle.
- Never pour liquids on or near the amplifier, or place the product into a wet/moist environment. If liquid accidentally comes in contact with the amplifier, disconnect all power and ground connections immediately.
- Clean the unit with a soft, dry cloth only. Never use chemicals or solvents such as alcohol or household cleaner.

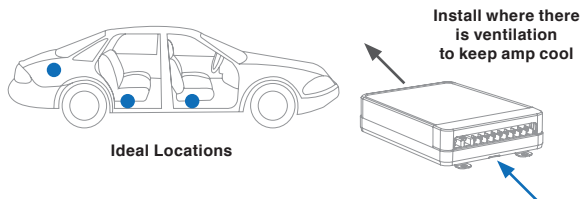
INSTALLATION

STEP 1: MOUNTING THE AMPLIFIER

To ensure optimal performance and maximum longevity, the amplifier should be mounted so there is suitable ventilation.

Ideal locations include under the seat, in the trunk, or any other location which provides adequate air space to keep amplifier cool. Due to the potential temperature of the heat sink, it is recommended that you do not mount the amp directly to fabric or vinyl material.

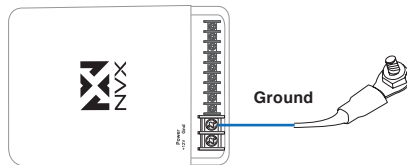
Once you've found a suitable location that provides ventilation and will keep the amplifier dry, mount the amplifier using the included mounting tabs. Make sure the amplifier is mounted securely.



STEP 2: MAKING POWER & GROUND CONNECTION

Be sure to use proper gauge wire for all power/ground connections. A minimum 10 gauge wire is recommended. For the best results, using an NVX amplifier installation kit is recommended.

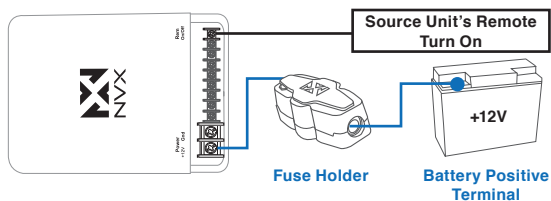
GROUND: Prepare the chassis ground by clearing any paint, dirt and grease from the metal surface. Connect a "ground" wire directly to the chassis of the vehicle within 30 inches of the amplifier using a non-anodized screw and a star washer, and connect the other end to the ground terminal. The ground should be kept as short as possible, and should never exceed 30 inches.



INSTALLATION CONTINUED

POWER: Connect a wire directly to the vehicle's positive battery terminal, installing an appropriate fuse holder within 18 inches of the battery. Route the wire to the amplifier's location, connecting it to the amplifier's positive terminal (+12V). Be sure to use appropriate grommets whenever routing the wires through the firewall or other sheet metal. After routing and connecting this wire, you may install the fuse into the fuse holder near the battery.

REMOTE: Connect the amplifier's remote (Rem) terminal to either the source unit's remote turn-on lead, or an alternate switched 12V+ source using a minimum of 18 gauge wire.



STEP 3: SIGNAL CONNECTIONS

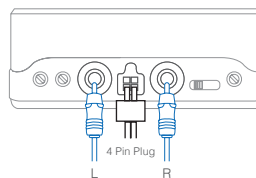
The MVP amplifiers have been designed to accept both low-level "RCA" inputs, as well as high-level speaker inputs through the included four/eight-pin plug.

LOW-LEVEL RCA INPUTS: To use the low-level RCA inputs, connect a high-quality RCA cable from the preamp outputs of the source unit to the RCA inputs on the amplifier. For the clearest signal, we recommend using an NVX shielded "noise-rejecting" twisted RCA cable.

HIGH-LEVEL SPEAKER INPUTS: To use the high-level speaker inputs, connect each of the wires coming from the included connector to the corresponding speaker output wires from the factory source unit. Take care to match the polarity and channel of each wire. Once the speaker wires have been spliced, plug the connector into the amplifier.

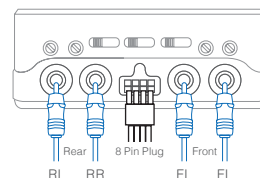
MVPA1 Signal Connection

Choose either RCA or 4-pin speaker plug



MVPA4 Signal Connection

Choose either RCA or 8-pin speaker plug



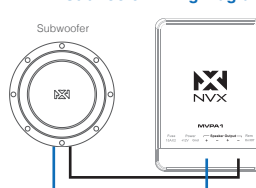
KEY — RCA Inputs — High-Level Inputs

STEP 4: SUBWOOFER & SPEAKER CONNECTIONS

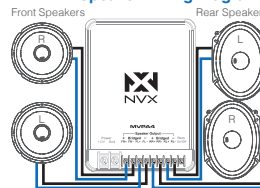
Once you've made the power, ground, remote, and signal connection for the amplifier, you are ready to connect the speakers or subwoofer(s).

Simply connect the speaker wire to the terminals of the corresponding speaker or subwoofer. For the best results, we recommend using NVX speaker wire with a minimum size of 16 gauge.

MVPA1 Subwoofer Wiring Diagram



MVPA4 Speaker Wiring Diagram



TUNING THE AMPLIFIER

SETTING THE GAIN (LEVEL):

The gain control is designed to help match the input sensitivity of the amplifier to the output voltage of the source unit. To set the gain, start by turning the gain all the way down then turn up the source unit up to 3/4 volume. Slowly raise the gain until audible distortion is apparent then back the gain down slightly until the distortion can no longer be heard. For most users setting the gain up half way will achieve the desired results.

*IMPORTANT NOTE

The gain dial is not a volume control and if set too high it will also amplify any noise or distortion already present. This can potentially lead to clipping.

SETTING THE BOOST SELECT:

The Bass Boost switch will increase the power output at 45Hz for more pronounced bass. There are three setting for Bass Boost 0db, +6db and +12db. Exercise caution when using this setting. We recommend 0db, but if Boost is required start at +6db and listen for audible distortion before increasing the Boost to +12db.

SETTING THE INPUT SELECT

2-CHANNEL OPERATION

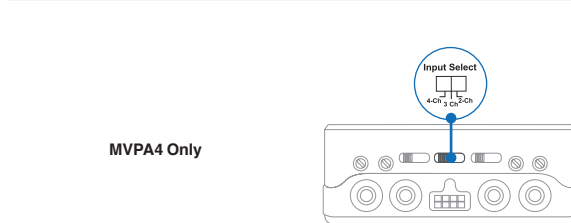
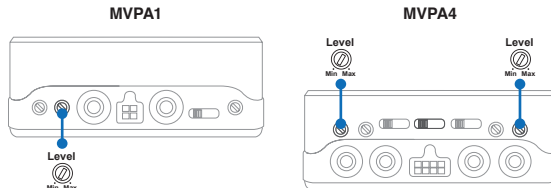
If your source unit has one set of pre-amp outputs (RCAs), set the switch to 2-channel input. The signal will be summed to all channels. This is ideal for source units with 1 pre-out or when bridging channels 1&2, 3&4.

4-CHANNEL OPERATION

If your source unit has two pairs of pre-amp outputs (RCAs) front and rear/sub, set the switch to 4-channel input. This will send signal to all 4-channels and retains fader and balance control.

3-CHANNEL OPERATION

If your source unit has one pair of pre-amp outputs (RCAs) front or rear. This is ideal when using one pair of speakers on channel 1&2 and bridging 3&4 to a center channel or subwoofer.



SETTING THE LOW-PASS FILTER

The low-pass filter (LPF) is designed to act as a “ceiling,” blocking out any frequencies that are above the low pass setting crossover point. This setting helps you filter out undesirable mid to high frequencies not designed to be played on subwoofers. A good starting point is 80hz as frequencies below 80hz are non directional. To set the LPF, simply turn the knob to the desired crossover frequency.

SETTING THE PHASE CONTROL

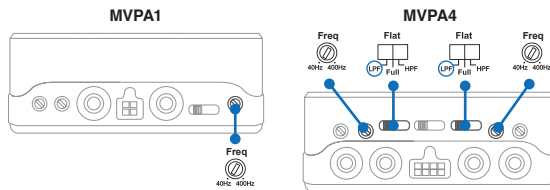
Most car stereo installations feature the tweeters and midwoofers in the front of the car, close to your ears. However, the subwoofer is usually located in the trunk or rear of the car as far as 6-10 feet away . The integrated phase adjustment knob can be used to help the sound from all the speakers reach your ears at the same time.

To set the phase control, start with the knob turned to zero. Gradually adjust the setting until the bass sounds as if it is coming from the front or center of the car, rather than from behind you. This may take several minutes as you listen carefully to achieve the desired sound.

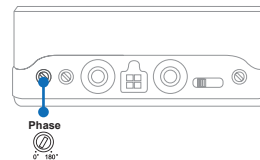
SETTING THE HIGH-PASS FILTER

The high-pass filter (HPF) is designed to act as a “floor,” blocking out any frequencies that fall below the selected crossover point. This setting helps you filter out undesirable bass frequencies for larger speakers and woofers. A good starting point is 80hz as this frequency range is above most speaker and tweeter resonant frequency levels, and will blend well with your low pass setting of 80hz as well.

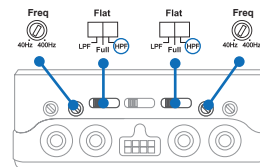
To set the HPF, simply turn the knob to the desired crossover frequency.



MVPA1 Only



MVPA4 Only



TROUBLESHOOTING

TROUBLE	SOLUTION
Power LED on amplifier is not lit when source is turned on	<ul style="list-style-type: none"> • Verify remote turn-on wire has sufficient voltage • Make sure power (+12V), ground (Gnd) and remote (Rem) connections are secure • Check amplifier fuse and in-line fuse • Make sure power wire has sufficient voltage
Power LED is on, but no output from speakers	<ul style="list-style-type: none"> • Check RCA/ High-Level Speaker connections to ensure amplifier is receiving signal • Check gain on amplifier • Check volume on source unit
Hearing engine noise through speakers	<ul style="list-style-type: none"> • Turn the source off, then disconnect the RCA's or speaker-level harness. If the noise stops, check all wiring and equipment connected to the amplifier and check to make sure you have a solid ground connection. If the noise continues, contact NVX tech support.
Amplifier output distorted	<ul style="list-style-type: none"> • Make sure source output is not distorted • Check the input sensitivity to make sure gain is not set to high.
Red LED protection indicator is lit	<ul style="list-style-type: none"> • Make sure amplifier has proper ventilation • Speakers are wired to the correct impedance for the application • Check to see if the speaker is short-circuited due to faulty connection or exposed wire. • Make sure the speaker is crossover in the correct range. • Make sure signal input is not shorted due to faulty connection or exposed wire.

WARRANTY

NVX warrants to the original retail purchaser that this product is to be free from defective materials and workmanship for a period of one (1) year from the date of purchase, if it is properly used and maintained. If this product proves defective in either material or workmanship, NVX, at its discretion, will (a) repair the product, or (b) replace the product, at no charge for parts or labor. If the product model is no longer available and cannot be repaired effectively or replaced with an identical model, NVX at its sole option may replace the unit with a current model of equal or greater value. To obtain a repair or replacement under the terms of this warranty, please return to dealer first, if possible, and the dealer will direct you accordingly for repairs or replacement. You will be required to submit a copy of the original receipt. Return shipping for exchanges/repairs is the sole responsibility of the original retail purchaser.

LIMITATIONS:

- This limited warranty does not cover failure of the product resulting improper installation, misuse, abuse, accident, neglect, mishandling, or wear from ordinary use or environmental deterioration.
- This limited warranty does not cover cosmetic damage, including paint damage, or consequential damage to ordinary use or environmental deterioration.
- This limited warranty does not cover cosmetic damage, including paint damage, or consequential damage to other components or premises which may result for any reason from the failure of the product.
- This limited warranty is null and void for products not used in accordance with NVX's instructions.
- This limited warranty is null and void for products with altered or missing serial numbers and for products not purchased from an authorized dealer.
- This limited warranty terminates if you sell or otherwise transfer this product to another party.
- This limited warranty is null and void for any speaker or subwoofer that has been damaged due to over-powering causing burnt voice coils and /or mechanical failures such as ripped spiders or surrounds.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE, JURISDICTION TO JURISDICTION, OR COUNTRY TO COUNTRY. NVX'S RESPONSIBILITY FOR MALFUNCTIONS AND DEFECTS IN HARDWARE IS LIMITED TO REPLACEMENT OR REPAIR AS SET FORTH IN THIS WARRANTY STATEMENT. ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE TERM OF THIS WARRANTY. SOME STATES, JURISDICTIONS, OR COUNTRIES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES OR CONDITIONS, OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS, SO THIS LIMITATION MAY NOT APPLY TO YOU. NVX DOES NOT ACCEPT LIABILITY FOR SPECIAL, INDIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING WITHOUT LIMITATION, ANY LIABILITY FOR THIRD PARTY CLAIMS AGAINST YOU FOR DAMAGES OR FOR PRODUCTS NOT BEING AVAILABLE FOR USE. THE MAXIMUM LIABILITY FOR WHICH NVX MAY BE RESPONSIBLE WILL BE NO MORE THAN THE AMOUNT YOU PAID FOR THE PRODUCT THAT IS THE SUBJECT OF THE CLAIM. SOME STATES, JURISDICTIONS, OR COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Warranty Outside the U.S.

The Warranty on this product shall comply with applicable law when sold to a consumer outside of the United States. To obtain any applicable warranty service, please contact the dealer from which you purchased this product, or the distributor that supplied this product.

WHAT TO DO IF YOU NEED WARRANTY OR SERVICE

Defective products should be returned to the place of purchase. Your authorized NVX dealer is trained to handle and expedite any warranty claim. Assistance in locating an authorized dealer can be found at nvx.com or by contacting NVX directly.

Alternatively, if it becomes necessary for you to return defective product directly to NVX, please refer to the following instructions for warranty service:

- Receive your RA Number from NVX online at nvx.com/support
- Package all defective components in the original packaging (if available) or in a package that will prevent shipping damage.
- Package the original packaging in an additional shipping container to avoid shipping damages and to comply with most shipping couriers such as UPS and FedEx.
- Insure your return at the price paid as NVX is not responsible for insurance losses or damages occurring in shipment to our facility.
- Clearly mark RA Number on the outside shipping container.
- Return only defective components as the return of functioning items increases your return freight charges.
 - Non-defective returns or products not eligible for warranty service will be returned freight collect.
- Include a copy of the original receipt with the purchase date clearly visible, and a "proof-of-purchase" statement listing the customer's name, dealer's name and invoice number, and product purchased.
 - Warranty expiration on items without proof-of-purchase will be determined from type of sale and the manufacturing date code.
- Ship your package freight prepaid to the address below. Items sent freight collect or COD will be refused.

NVX
Attn: Returns
10645 Freeport Dr.
Louisville, KY 40258-1873

Failure to follow the steps listed above may void your warranty. Any questions can be directed via email to cs@nvx.com or via mail at the address listed above.

Authorized Dealer's Name: _____
Purchase Date: _____
Model Number: _____
Serial Number: _____