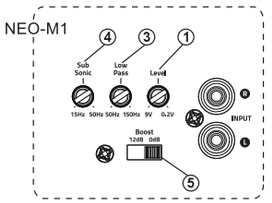
Setup

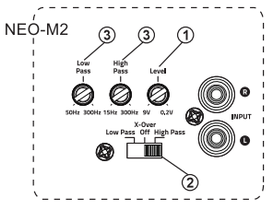
A *Settings*

The illustrations below describe the various controls. Refer to the illustration that matches your amplifier.



1 GAIN Adjustment

The gain control purpose is to match the output of your source signal to the amplifier. Refer to the section B below for detailed instructions.

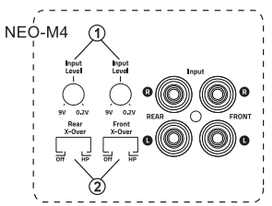


2 X-OVER Switch

This switch will set the amplifier to have a full frequency output or to filter out high or low frequencies. NEO-M2 offers either a low pass or a high pass filter.

3 Frequencies Adjustment

The Low Pass Filter will cut off the frequencies above the setting. The High Pass Filter will cut off the frequencies below the setting.



4 SUBSONIC Adjustment

The Subsonic Filter will cut off the frequencies below the setting. If using with a subwoofer the setting should be kept between 15-25Hz.

5 BOOST Switch

The Boost Switch will increase the signal 12dB at 45Hz. Be aware this setting can cause distortion if the gain is not set properly.

LIMITED WARRANTY

DB DRIVE warrants any products purchased in the U.S.A. from an authorized DB DRIVE dealer. All products are warranted to be free from defects in material and workmanship under normal use and service for a period of (1) year when the unit installed by an authorized DB DRIVE dealer. Non-authorized dealer installed products carry a (1)year parts and labor limited warranty. This warranty applies to the original purchase only.

DB DRIVE will either repair or replace (as its option) any unit that has been found to be defective and under warranty provided the defect occurs within:

One (1) year if purchased through an authorized DB DRIVE dealer. This limited warranty does not extend to units that have been subjected to misuse, abuse, neglect, or accident. Products that in DB DRIVE's judgment shows evidence of having been altered, modified, or serviced without DB DRIVE's authorization, will be ineligible under this warranty.

To obtain warranty service please contact your retailer or see our website www.dbdrive.net for more details.

All warranty claims must be handled directly through the authorized DB Research dealer they were originally purchased from

SPECIFICATIONS

NEO M1

Output Power @ 14.4 VDC, 2Ω	1 x 500W
Output Power @ 14.4 VDC, 4Ω	1 x 250W
Power Supply Input Voltage	12.0VDC to 14.8VDC
THD (1KHz @ 4Ω)	0.04%
Bandwidth (-3 dB)	18Hz - 22KHz
Damping Factor (1KHz @ 4Ω)	100
S/N ratio (as weighted @ 1 Volt)	99db
Input Sensitivity	.0.2MV - 6V
Minimum Load Impedance	2Ω
Low-Pass filter range	50Hz ~ 150Hz
Sub-Sonic Filter Range	15Hz ~ 50Hz
Bass Boost	45 Hz @ 0 ~ 12dB

NEO M2

Output Power @ 14.4 VDC, 2Ω	2 x 250W
Output Power @ 14.4 VDC, 4Ω	2 x 125W
Output Power @ 14.4 VDC, 4Ω Bridge	1 x 500W
Power Supply Input Voltage	12VDC to 14.8VDC
THD (1kHz @ 4Ω)	0.04%
Bandwidth (-3dB)	18Hz- 22KHz
Damping Factor (1k Hz @ 4Ω)	100
S/N ratio (as weighted @ 1 Volt)	99dB
Input Sensitivity	0.2MV - 6V
Minimum Load Impedance	2Ω
High-Pass Crossover filter range	15Hz - 300Hz
Low-Pass Crossover filter range	50Hz - 300Hz

NEO M4

Output Power @ 14.4 VDC, 2Ω	4 x 100W
Output Power @ 14.4 VDC, 4Ω	4 x 50W
Power Supply Input Voltage	12VDC to 14.8VDC
THD (1kHz @ 4Ω)	0.04%
Bandwidth (-3dB)	18Hz- 22KHz
Damping Factor (1k Hz @ 4Ω)	100
S/N ratio (as weighted @ 1 Volt)	99dB
Input Sensitivity	0.2MV - 6V
Minimum Load Impedance	2Ω

Due to continuous improvement of the product the Specifications are subject to change without notice.

DB Research L.L.P.
302 Hanmore Industrial Parkway // Harlingen, TX 78550
ph: 877.787.0101 // fx: 956.421.4513 // www.dbdrive.net

DB DRIVE™

NEO
Micro AMPLIFIERS

NEO M1
NEO M2
NEO M4

User Manual
Installation Instructions

DB Research L.L.P. - 302 Hanmore Industrial Parkway - Harlingen, TX 78550
Ph: (877) 787-0101 - Fax: (956) 421-4513 - www.dbdrive.net

Before you start

Congratulations on your purchase of a DB Drive state-of-the-art power amplifier. Your selection of a DB Drive car audio product indicates a true appreciation of fine musical reproduction. Whether adding to an existing system or including your DB Drive amplifier in a new musical system, you are certain to notice immediate performance benefits.

Power cable size and fusing

It is critical to use the proper power and ground cable. Select the size listed here for your amplifier model. Always use high quality copper cable. Visit our website for multi amp system cable recommendations.

Be sure to use the proper fuse size for each model. Some models require an external fuse.

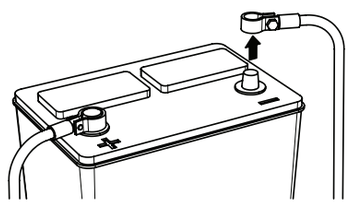
Model	Fuse Size	Cable Size
NEO-M1	1-30A atc	10ga
NEO-M2	1-30A atc	
NEO-M4	1-30A atc	

For power cable runs over 20 feet, 8ga is recommended.

Installation

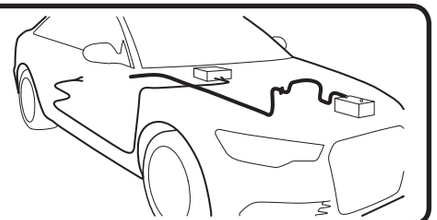
1 Disconnect Negative Battery Terminal

Place terminal in a secure position so that it won't accidentally contact the negative battery post



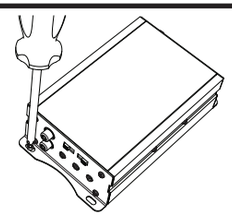
2 Run Cables

Properly route power, speaker and RCA cables through the vehicle.



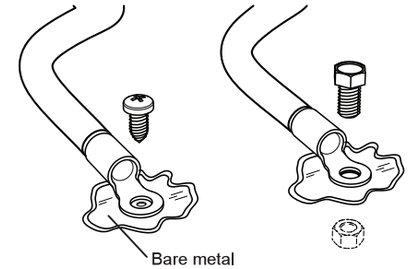
3 Mount Amplifier

Choose a mounting location that will provide adequate air ventilation. Mount the amplifier to a secure surface. Do not mount the amplifier upside down.



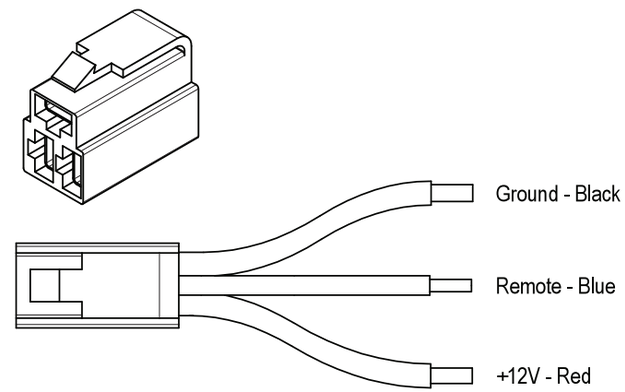
4 Chassis Ground

The chassis ground connection is critical to the performance of the amplifier. Choose a location that is close to the amplifier. Completely scrape away the paint and use a nut and bolt if possible.
DO NOT USE AN EXISTING FACTORY BOLT!



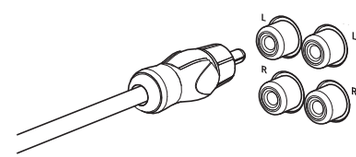
5 Power Connection

Attach the chassis ground, +12V and remote wire. It is important to make sure these connections are very secure.



6 Signal Input Connection

Connect the RCA cables to the INPUT connectors. The OUTPUT can be used to provide input for a second amplifier.



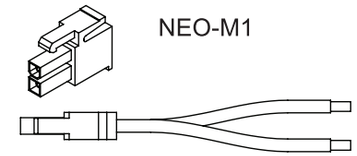
7 Gain Control

Turn the GAIN control completely counter-clockwise to minimum.

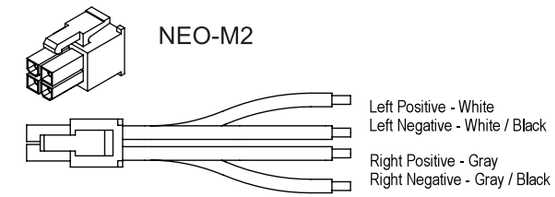
8 Speaker Connections

Connect the speaker cables to the speaker output connectors. Follow the diagram below that best fits your speaker configuration.

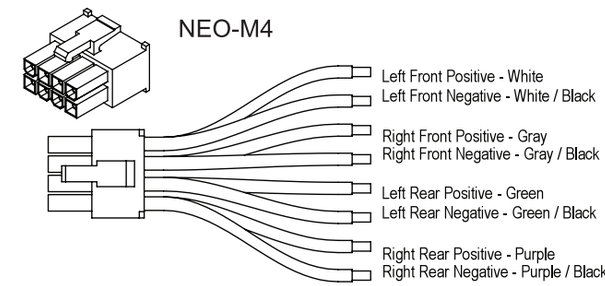
NEO-M1



NEO-M2

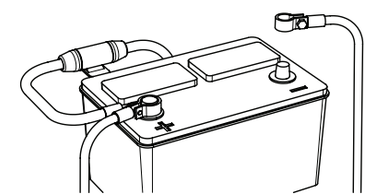


NEO-M4



9 Positive Battery Connection

Connect the power cable to the positive battery terminal. The power cable must be fused within 18 inches of the battery terminal.



Be prepared to disarm your vehicle's alarm and to enter your radio / source unit code.

10 Re-connect Negative Battery Terminal

Re-connect the negative battery terminal making sure it is securely tightened.