



LIMITED WARRANTY

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

Hypnotic™ 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 Hypnotic™ dealer with original proof of purchase.

This limited warranty periods do not extend to units having been subjected to misuse, abuse, neglect, or accident. Products that in Hypnotic's judgment shows evidence of having been altered, modified, or serviced without Hypnotic's authorization, will be ineligible under this warranty.

To obtain warranty services please contact your retailer or visit our website at www.HypnoticUSA.com for more details.



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

Designed and Engineered in the U.S.A.



Models:

Monoblock

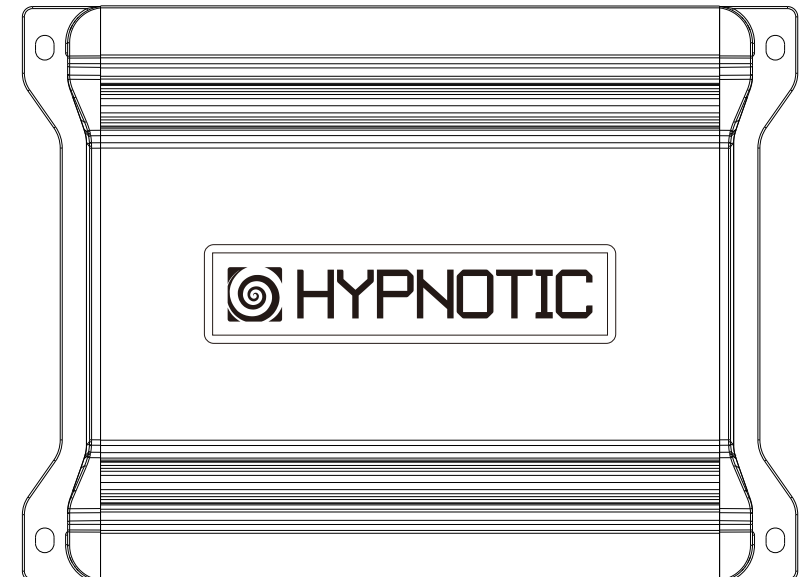
HX1200.1D • HX2400.1D • HX3600.1D

4 Channels

HX800.4 • HX1200.4

5 Channels

HX2000.5D



Instruction Manual

• Installation Instruction / Owners Manual •

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

INTRODUCTION

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

KEEP YOUR SALES RECEIPT

Take this time to attach your sales receipt to the manual and put in a safe place. In case of any unforeseen reason this product may need warranty service, your receipt will be necessary to establish purchase date.

RECOMMENDATION

A power amplifier's performance is only as good as its installation. Proper installation will maximize the system's overall performance. It is recommended that you have our product installed by an authorized Hypnotic™ retailer. However, if you decide to install it yourself, please carefully read through this manual and take your time to do a quality installation.

Due to continuing product improvements and possible manual revisions, we recommend checking our website for the latest product information at www.HypnoticUSA.com

IMPORTANT! Before making any connections, disconnect the car's battery until the installation is completed to avoid possible damage to the electrical system.

WARNING!

Exposure to a high power sound system can cause hearing loss or damage. Listening to your system at loud levels while driving will impair your ability to hear traffic sounds and emergency vehicles. Use common sense when listening to your system.

FEATURES

HX800.4, HX1200.4, & HX2000.5D

- 5 Channel Full Range (HX2000.5D)
- Class D circuitry
- Audiophile grade components
- Ultra high efficiency mosfet design
- Selectable input gain range
- 2Ω stereo / 4Ω Bridge capability
- Heat management system
- Double sided PCB
- Variable high, band, and low pass x-over
- Variable high/low pass x-over (HX2000.5D)
- Remote Bass Control Included (HX2000.5D)

HX1200.1D, HX2400.1D, & HX3600.1D

- 10hm Stable Capability
- Class D Monoblock
- RCA line level Stereo inputs
- Heat management system
- PWM Mosfet power supply
- Double Sided PCB
- Selectable input gain range
- Remote Bass Control Included

Specifications:	HX800.4	HX1200.4	HX2000.5D
	4 Channel		5 Channel
Dynamic Power:	4 x 100 Watts @ 4Ω 4 x 200 Watts @ 2Ω 2 x 200 Watts @ 4Ω bridged	4 x 150 Watts @ 4Ω 4 x 300 Watts @ 2Ω 2 x 300 Watts @ 4Ω bridged	4 x 100 Watts @ 4Ω 4 x 200 Watts @ 2Ω 1 x 600 Watts @ 2Ω (5th Ch)
Ch 1-2 High Pass Crossover:	20Hz - 5KHz	20Hz - 5KHz	40Hz - 300Hz
Ch 1-2 Low Pass Crossover:	50Hz - 5KHz	50Hz - 5KHz	N/A
Ch 3-4 High Pass Crossover:	20Hz - 5KHz	20Hz - 5KHz	40Hz - 300Hz
Ch 3-4 Low Pass Crossover:	50Hz - 5KHz	50Hz - 5KHz	N/A
Ch 5 Low Pass Crossover:	N/A	N/A	40Hz - 300Hz
X-Over Slope:	12dB	12dB	12dB
Bass Boost @ 45Hz:	0 - 12dB	0 - 12dB	0 - 12dB
Input Sensitivity:	250mV - 6V	250mV - 6V	250mV - 6V
Signal to Noise Ratio:	>92dB	>92dB	>92dB
THD at Rated Power:	>1%	>1%	>1%

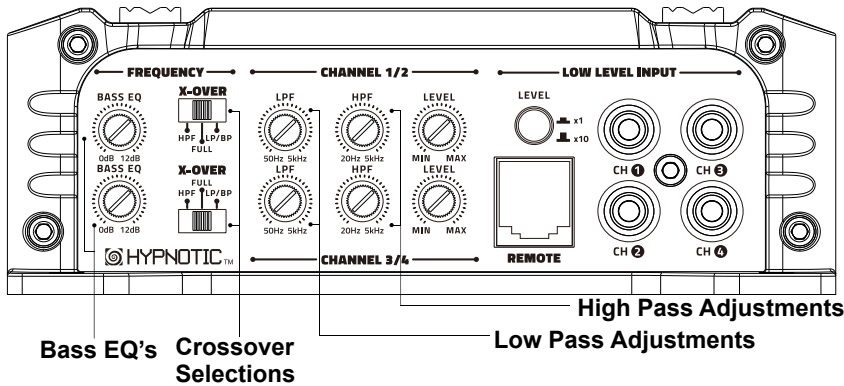
Specifications:	HX1200.1D	HX2400.1D	HX3600.1D
	Monoblock		
Dynamic Power:	1200 Watts 1 x 600 Watts @ 1Ω 1 x 300 Watts @ 2Ω	2400 Watts 1 x 1200 Watts @ 1Ω 1 x 600 Watts @ 2Ω	3600 Watts 1 x 1800 Watts @ 1Ω 1 x 900 Watts @ 2Ω
Low Pass Filter:	40Hz - 300Hz	40Hz - 300Hz	40Hz - 300Hz
Subsonic Filter:	0Hz - 25Hz	0Hz - 25Hz	0Hz - 25Hz
Bass Boost @ 45Hz:	0 - 12dB	0 - 12dB	0 - 12dB
Input Sensitivity:	250mV - 6V	250mV - 6V	250mV - 6V
Signal to Noise Ratio:	>95dB	>90dB	>90dB
THD at Rated Power:	>1%	>1%	>1%

BUILT-IN CROSSOVER

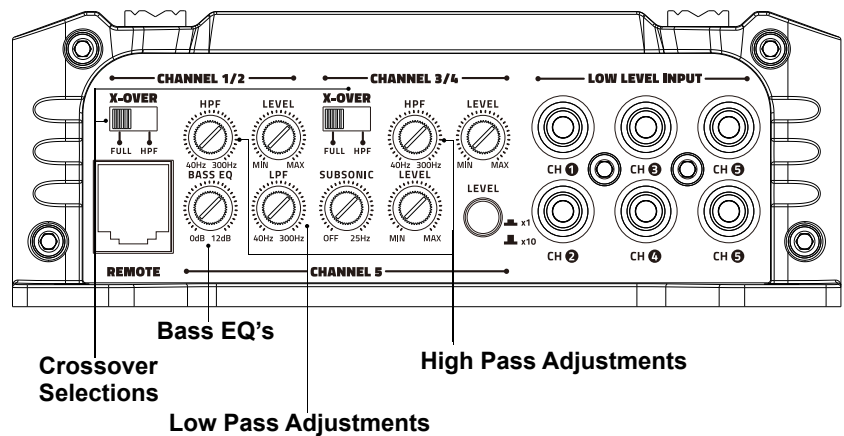
4 Channel: HX800.4 & HX1200.4

The **4 Channel: HX800.4, HX1200.4, and 5 Channel: HX2000.5D** feature a high pass, low pass filter, or a full range signal. The high pass filter controls the high pass point for the speaker outputs. The low pass filter controls the low pass point for the speakers outputs. The full range allows you to play all desired frequencies whether they are high or low frequencies.

4 Channel: HX800.4 & HX1200.4



5 Channel: HX2000.5D



Safety Precautions

Fuse amplifiers power wire at the battery

Be sure to fuse the power wire within 12" of the car's battery. This will protect the car's battery in case of a short circuit between the power amplifier and battery. **THIS IS A MUST**, the amplifier's built-in fuse will only protect the power amplifier not the car's battery!

Use high grade wire connectors

To ensure maximum power transfer and secure safe connections, it is recommended to use high grade barrier spades (for connection at amplifier) and terminal rings (for connection at battery).

Do not run any wires underneath vehicle

Exposed wires have a chance of being cut or damaged. It is best to run all wires through the vehicle under the carpet and/or side panels. This lends to a cleaner installation and less risk of damage.

Use caution when mounting amplifier

Remember there are many electrical wires, gas lines, vacuum lines, brake lines as well as a gas tank in the automobile. Make sure you know where they are when mounting the amplifier to avoid puncturing lines, shorting wires or drilling holes in the gas tank.

Run signal wires away from electrical wires

To avoid possibility of induced noise from the car's electrical system (i.e. popping noise or engine noise), run wires away from car's electrical wiring.

Make all ground wires as short as possible and at the same point

In order to reduce the chance of ground loops (i.e. engine noise), make the grounding wire as short as possible to reduce the wires resistance. Also, when using multiple components, make sure all units are grounded at the same point.

Avoid sharp edges when running the wires

To avoid the possibility of power, signal or speaker shorts, be careful not to allow the amplifier's wires to come in contact with sharp edges. Use a grommet to protect the wire when running through the fire wall.

DC Offset Protection

This circuit protects the output of the amplifier against DC voltage. If for some reason DC voltage is detected at the output stage, the amplifier will shut down protecting the speakers from direct current.

Short Circuit Protection

The circuit protects the amplifier from damage due to short found in the speakers or wiring if one of the speakers or its wiring comes in contact with ground, the amplifier will shut down. To resume normal operation, correct the problem and turn the head unit off, then back on. The amplifier will reset and play again.

Thermal Protection

To protect the amplifier circuitry against damage caused by prolonged exposure to high temperatures, a thermal protection circuit is activated if the amplifier reaches excessively high operating temperature. Once the thermal circuit is activated, the amplifier will shut down to cool off. The amplifier will automatically turn back on once it cools down to a safe operating temperature.

Power Indicator

The diagnostic L.E.D. illuminates when the amplifier is on and receiving power.

Built-in Crossover

The Hypnotic™ HX800.4, HX1200.4, HX2000.5D are equipped with built in variable crossover network allowing you to select the crossover function and frequency for each of the front channels or rear channels of the amplifier independently.

Power and Speaker Distribution Blocks

Heavy gauge bare wire distribution blocks are provided for maximum power and signal transfer with minimal resistance.

Line out

Full range line outputs have been provided for convenient connection to additional amplifiers in the system. The outputs are buffered to reduce signal loss.

Power Fusing

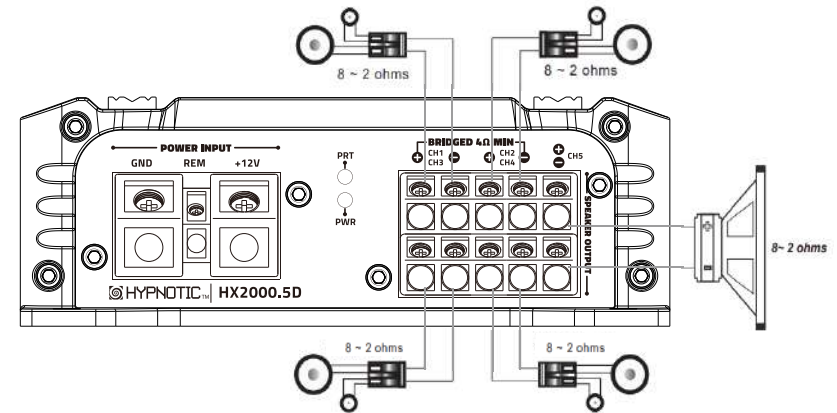
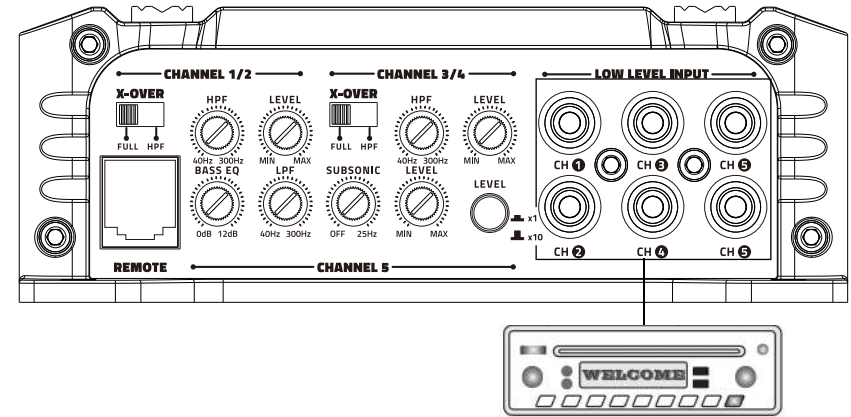
This protects the amplifier against short circuits and excessive current.

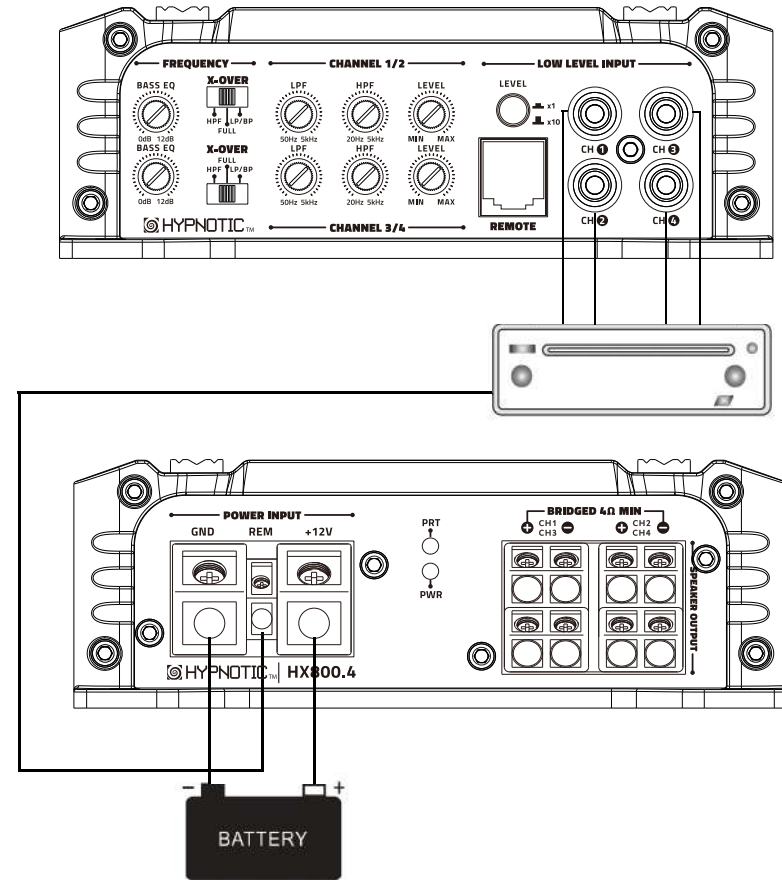
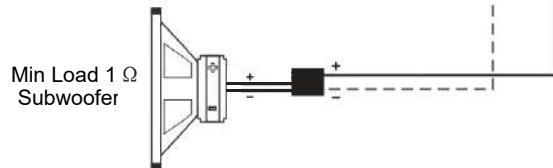
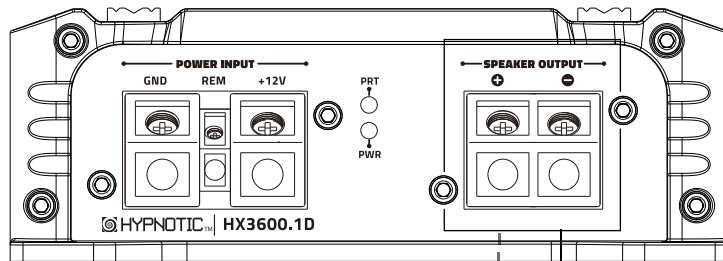
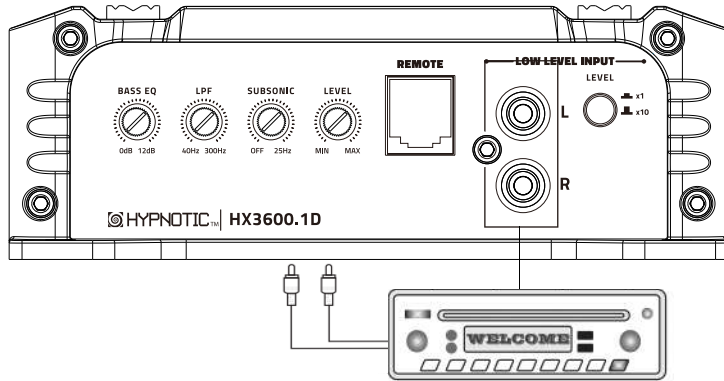
Remote Turn-on

Automatically turns amplifier on when connected to the head unit's remote output. The amplifier will turn on and off with the head unit to save current consumption. This control also operates the reset circuit for the amplifier's protection. It must be connected with the head unit in order to reset protection circuits.

Low Impedance Stability

- HX800.4 - 2 ohm, 4 Ohms bridged
- HX1200.4 - 2 ohm, 4 Ohms bridged
- HX2500.5D - 2 ohm, 4 Ohms bridged





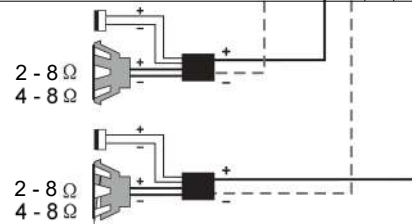
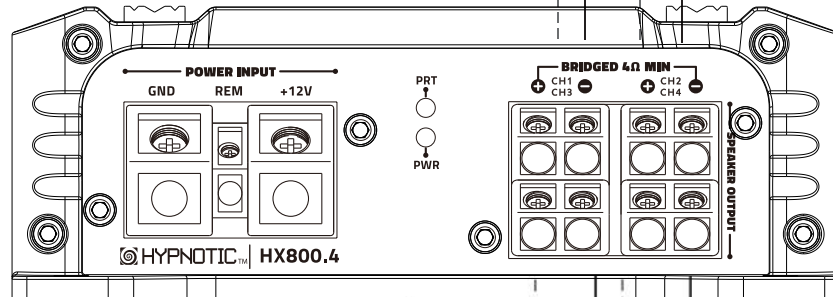
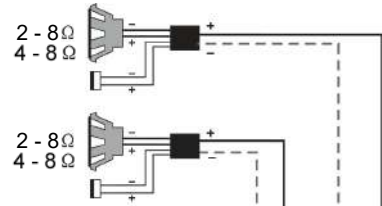
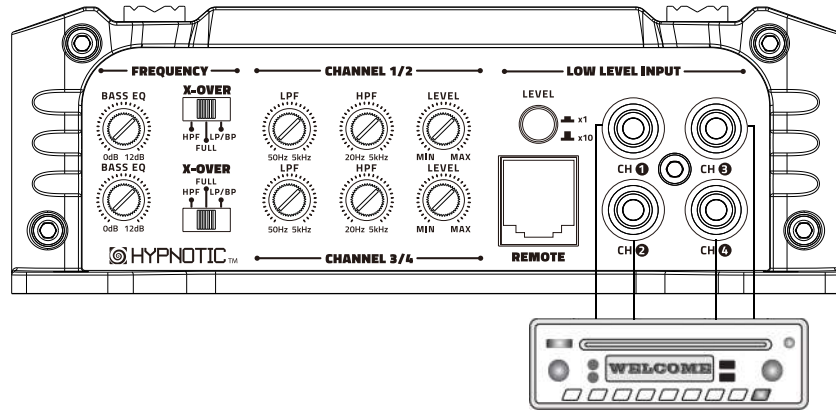
Notes on the Power Supply

Connect the +12V power input lead only after all other leads have been connected. Be sure to connect the ground wire of the unit securely to a metal part of the car. A loose connection may cause a malfunction of the amplifier.

REMOTE: The unit is turned on by applying +12Volts to this terminal. This terminal does not draw heavy current like the two power terminal so a thinner connecting wire is acceptable. Standard 18 GAUGE is fine and the standard color is yellow. If the power antenna wire is already in use, you can still splice into a fuse attached whose value is the same as original fuse.

During a full power operation maximum current will run through the system. Therefore, make sure that the leads are connected to the +12V and GND terminals of the unit respectively must be larger than 10-Gauge (AWG 10)

STEREO



BRIDGED

