

EARTHQUAKE SOUND

PowerHouse Series Amplifiers Owners Manual

MODELS: PH800W/2

PH1000W/2 PH2200W/4

PH2000W/D1 PH2000W/D1.1 PH5000W/D1 PH10000W/D1 PH20000W/D1







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THANK YOU

Thank you for choosing Earthquake Sound's high-end line of PowerHouse amplifiers for superior enhancement of your mobile audio system. With proper installation and responsible listening, your amplifier(s) will give you years of near perfect sound reproduction.

We strongly recommend you to have your new amplifier(s) installed by an authorized Earthquake Sound dealer: Installation professionals employed by your dealer have the correct tools and knowledge to install your amplifier(s) neatly and successfully. Also, when your new products are installed by an authorized dealer, your product will include a FIVE YEAR LIMITED WARRANTY (1-Year for Digital models excluding PH2000W/D1 and PH2000W/D1.1). If you choose to perform your own installation, your warranty will be subject to limitations. Dealer policies on handling warranty requests may vary from one dealer to the next. Please read the warranty information in its entirety and use good judgment when making these vital decisions.

CAUTION: Earthquake Amplifiers are capable of generating high sound pressure levels. You should exercise caution when operating these amplifier systems. Long term exposures to high levels of sound pressure will cause permanent damage to your hearing. Sound pressure levels exceeding 85dB can be dangerous with constant exposure. Set your audio system to a comfortable loudness level. Earthquake Sound Corporation does not assume liability for damages resulting from the direct use of Earthquake amplifiers or other Earthquake products , and urges users to play their music at moderate listening levels.

<u>SOUND LEVEL DBA</u>	DURATION IN HOURS		
90 92 95 97 100 102 105 110 115	8 6 4 3 2 1 - 1 1/2 1 1/2 1/4 or less	THE CHART (ON THE SIDE) SHOWS THE U.S. GOVERNMENTS OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS WHICH WERE IN EFFECT AT THE TIME OF THIS PUBLICATION FOR PERMISSIBLE NOISE EXPOSURE, PER 29CFR1910.95, TABLE G- 16.	

WARRANTY

Five (5) year limited warranty; PH800W/2, PH1000W/2, PH2200W/4, PH2000W/D and PH2000W/D1.1:

Earthquake warrants the original purchaser that all Factory Sealed New Audio Products be free from defects in material and workmanship, under normal and proper use, for a period of five (5) years from the date of purchase (as shown on the original bill of sale with serial number affixed/written on it). The five (5) year limited warranty period is valid only if the product was purchased from and properly installed by an authorized Earthquake Sound dealer/installer, and the warranty registration card is properly completed and mailed to Earthquake Sound Corporation.

- Products that were purchased from non-authorized dealers are not covered by warranty.
- If the product was not installed by an authorized dealer, then only a ninety (90) day warranty period applies.
- Open box, B-stock and DEMO products have only thirty (30) day warranty from the date of purchase.

(A) Five (5) year limited warranty plan coverage guidelines:

- First year: Earthquake pays for labor, parts, and ground freight (only in US mainland, not including Alaska and Hawaii) back to customer.
- Second, third, fourth & fifth year: Earthquake pays labor only. Customer must pay for parts, re-packing (if needed) and freight both ways.
- Earthquake agrees to repair or replace at our option all such defective products/parts.

(B) Warning:

Products (sent in for repair) that are tested by Earthquake technicians and deemed to have no problem(s) will not be covered by the five (5) year limited warranty. Customer will be charged a minimum of one (1) hour of labor (ongoing rates) plus shipping and handling charges.

(C) Warranty Limitations:

- Defective products/parts have not been altered or repaired by other than an Earthquake factory approved technician.
- Products/parts are not subjected to negligence, improper use, or accident, damaged by improper line voltage, used with incompatible products, or have its serial number or any part of it altered, defaced or removed, or have been used in any way that is contrary to Earthquake's written instructions.
- Damages to speaker cabinet and cabinet finish due to misuse, abuse, or use of improper use of cleaning materials/methods.
- Bent speaker frame, broken speaker connectors, holes in speaker cone, surround & dust cap, burnt speaker voice coil.
- Fading, deterioration of speaker components and finish due to improper exposure to elements.
- Bent amplifier casing, damaged finish on the casing due to abuse, misuse, or improper use of cleaning material.
- Burnt tracers on PCB.
- Product/part damaged due to poor packaging or abusive shipping conditions.
- Subsequent damage to other products.

WARRANTY

A warranty claim will not be valid if the warranty registration card is not properly filled and returned to Earthquake with a copy of the purchase receipt.

(E) Service Request:

To receive product(s) service, contact Earthquake service department at (510) 732-1000 and request an RMA (Return Material Authorization) number. Items shipped without a valid RMA number will be refused. Make sure you provide us with your complete/correct shipping address (NO P.O. Box), a valid phone number and a brief description of the problem you are experiencing with the product(s). In most cases, our technicians might be able to resolve the problem over the phone, thus eliminating the need to ship the product(s).

(F) Shipping Instructions:

Product(s) must be packaged in its original protective box(es) to minimize transport damage, otherwise a re-packing charge may apply. Shipper claims regarding items damaged in transit must be presented to carrier. Earthquake Sound Corporation reserves the right to refuse products that are improperly packed. Copy of original purchase receipt must accompany product(s) being returned for service. We encourage you to include with the package a written description of the problem.

Ship product to:

Earthquake Sound Corp. 2727 Mc Cone Avenue, Havward, CA 94545 Phone: (510) 732-1000

You are responsible for the cost of shipping and insurance for the product(s). Please be sure to write the RMA number on every box.

(G) Disputes Resolution:

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All disputes - between client(s) and Earthquake Sound Corporation - resulting from the five (5) year limited warranty policy must be resolved according to the laws & regulations of the county of Alameda, California.

NOTE: For warranty guidelines on the PH5000W/D1, PH10000W/D1 and PH20000W/D, please refer to the one provided in the product packaging.

Please keep this warranty information in your files for future reference if necessary. It is recommended that you stick your serial number here for future reference.



2.375" x 10.125" x 10.375" 2.375" x 10.125" x 13.375" Dimensions (HxWxL) 2.375" x 10.125" x 16.5" x 10.125" x 8.5" x 12" 2.375" x 10.125" x 12" 2.375" x 10.125" x 15" 4.5" x 12" x 28.625" x 10.125" 2.375" ; 2.375" Weight ** 13.5 13 13 16 7 18 თ Stereo 2 x 3000 1 x 860 1 x 900 2 x 145 4 x 130 1 x 500 1 x 450 105 Power 4-Ohm × N **SPECIFICATIONS** Power 2-Ohm Bridged 1 × 20,000 1 x 3000 1 x 3000 1 × 1000 200 2 x 250 4 x 250 1 x 700 ž x 1000 1 × 5000 1 × 5000 Power 1-Ohm A/A N/A N/A N/A N/A ~ Power 4-Ohm Bridged 1 x 400 1 x 500 2 x 500 MONO MONO MONO MONO 6000 Max Power 20000 1400 1400 5000 5000 1000 1400 800 *** Channels 1 (MONO) 1 (MONO) 1 (MONO) 1 (MONO) 2 2 4 2 PH2000W/D1.1 PH10000W/D1 PH5000W/D1 PH2000W/D1 PH20000WD PH2200W/4 PH1000W/2 PH800W/2 Model

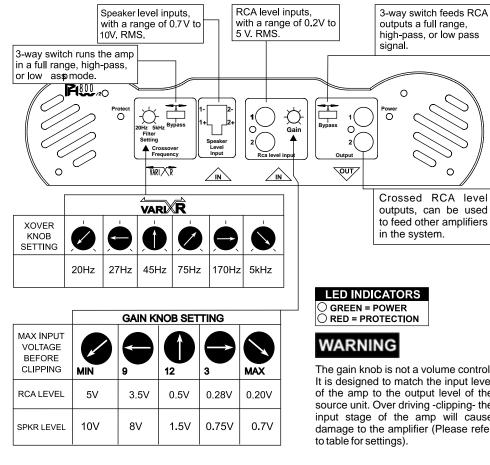
ALL MEASUREMENTS ARE MADE USING RESISTIVE LOAD *** ALL POWER RATINGS ARE PEAK POWER ***

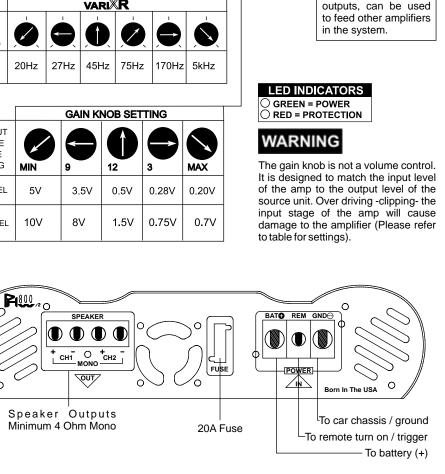
- SIGNAL SENSOR
 This new feature allows you to eliminate the use of a remote wire to turn on your amplitter.
 When in "AUTOON" mode, the amplifier will automatically detect an incoming signal once the stereo is turned on. If the amplifier does not detect a signal within 20 minutes, it will automatically shuts down.

amplifier to detect any incoming signal NOTE: The RCA outputs must be inserted in CH1/2 for the when the amplifier is on "AUTO ON" mode, if your system generates noise through the RCA wire waking up the amplifier, you may want to switch your amplifier installation to the "REMOTE ON" and therefore waking up the arr mode (must use the turn on wire) cases 1 some ⊆ NOTE: |

PH800W/2

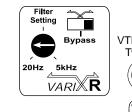
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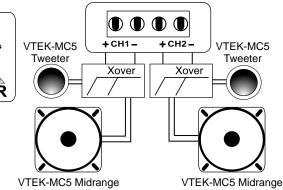




FRONT STEREO IMAGES

Set Xover knob to 9 O'clock (27Hz), & set Xover switch to high-pass.





REAR FILL STAGING

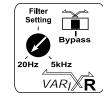
WARNING The PH is designed to

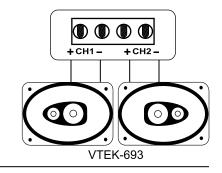
operate in stereo or mono mode. When

used in stereo applications, a minimum

load of 2 ohms per channel is required.

Set Xover knob to Mininum (20Hz), & set Xover switch to high-pass.



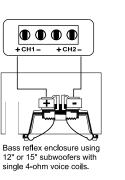


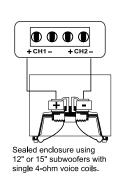
BASS APPLICATIONS

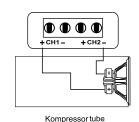
Set Xover knob to 2 O'clock (75Hz), & set Xover switch to low-pass.



WARNING The PH is designed to operate in mono mode. When bridging the two channels, a minimum load of 4 ohms is required.

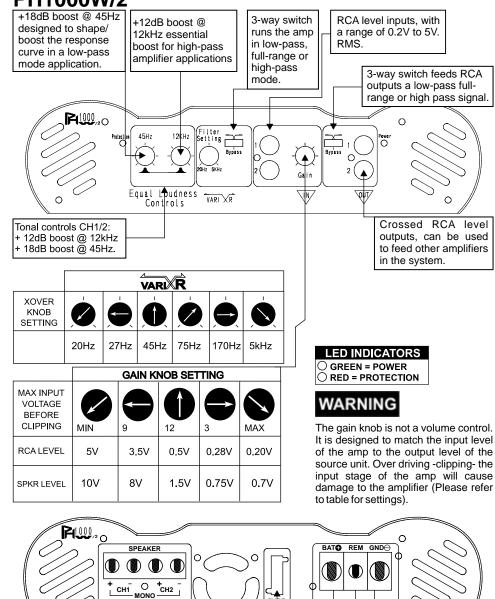






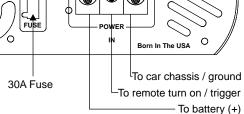
in mono application (4 ohms minimum).

PH1000W/2



Speaker Outputs Minimum 4 Ohm Mono

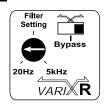
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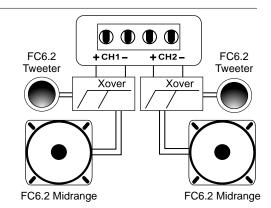


FRONT STEREO IMAGES

Set Xover knob to 9 O'clock (27Hz), & set Xover switch to high-pass.

WARNING





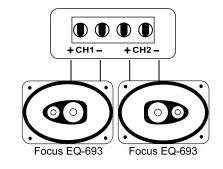
Set Xover knob to Minimum (20Hz), & set Xover switch to Full Range

REAR FILL STAGING

The PH1000W/2 is designed to operate in stereo or mono mode. When used in stereo applications, a minimum

load of 2 ohms per channel is required.





BASS APPLICATIONS

Set Xover knob to 2 O'clock (75Hz), & set Xover switch to low-pass.

Bass reflex enclosure using

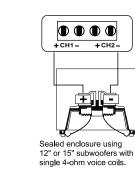
12" or 15" subwoofers with

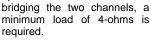
single 4-ohm voice coils.

+CH2_

+ CH1 -







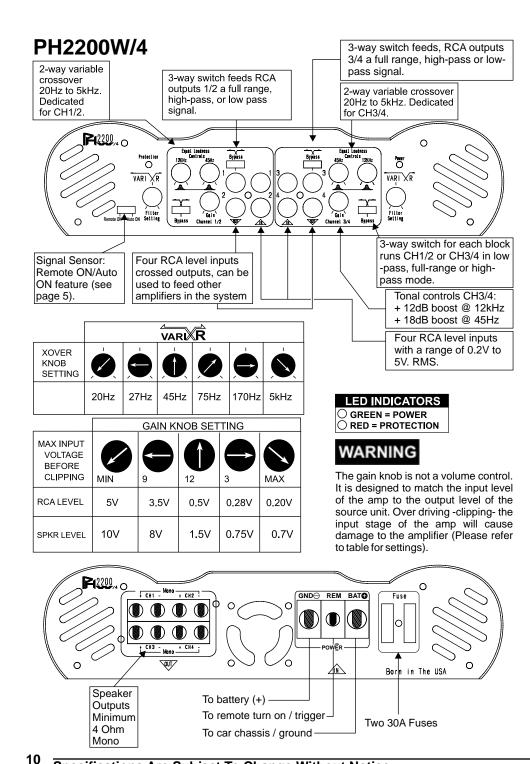
The PH1000W/2 is designed to

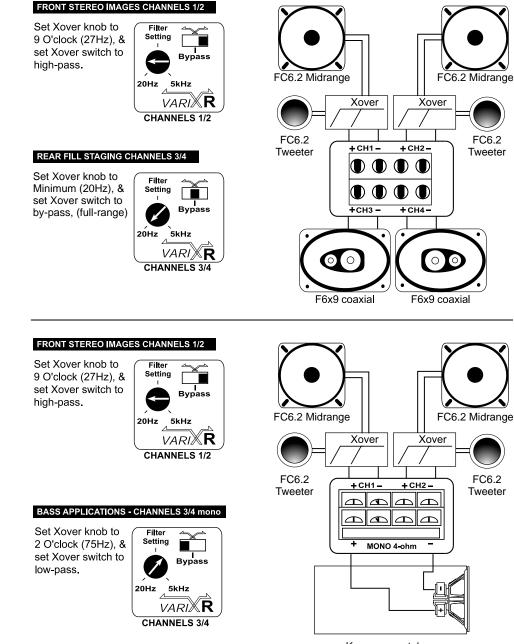
operate in mono mode. When

WARNING

+ CH1- + CH2-

Kompressor tube in mono application (4 ohms minimum).





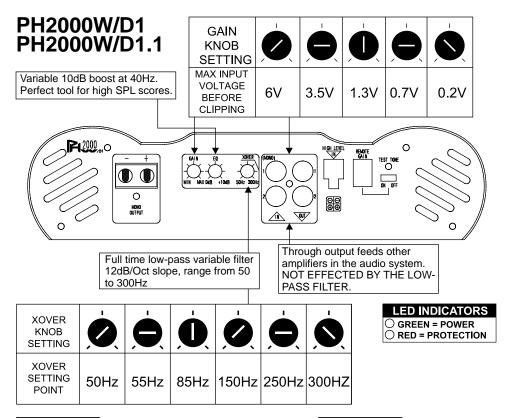
Kompressor tube in mono application (4 ohms minimum).

FC6.2

Tweeter

FC6.2

Tweeter



WARNING

to table for settings).

The gain knob is not a volume control.

It is designed to match the input level

of the amp to the output level of the

source unit. Over driving -clipping- the

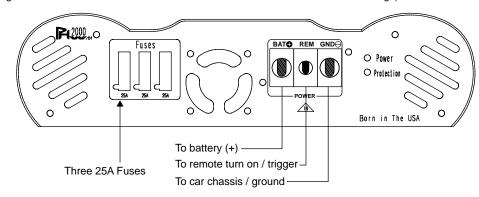
input stage of the amp will cause

damage to the amplifier (Please refer

WARNING

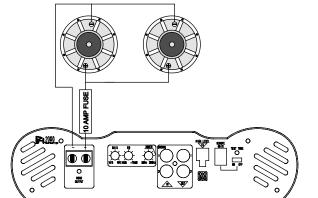
Before you install the amp, take note of the following: #1. You have to confirm that your power supply can deliver spontaneous power to the amplifier when needed to propel the load.

#2. Bullet-proof ground: the ground cable must be 4gauge minimum, it should be very short, and well grounded to the chassis.



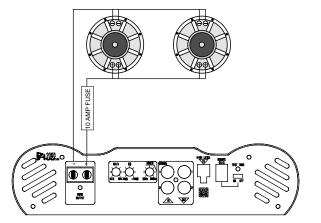
- * Test the alternator output. Factory alternators will produce 60-80 amperes at best. Wear and heat will reduce the output by 40%.
- * Alternator ground (-) must be reinforced, use 4-gauge cable instead of the factory 8-gauge.
- * Alternator positive (+) to battery (+) must be reinforced. Use 4-gauge cables.
- * Check your battery condition. Batteries degrade after a while.
- * Battery (+) to amplifier (+) must be a 4-gauge cable.
- * Ground amplifier to chassis using 4-gauge cable, keep the cable short (Maximum 2-feet).
- * Use 1 farad capacitor to compensate for surges in demand.
- * We recommend the use of one (1) auxiliary battery.

Two Single 4-Ohm Subwoofers @ 2-Ohm



USE THREE 25-AMPERE FUSES TO PROTECT THE AMPLIFIER

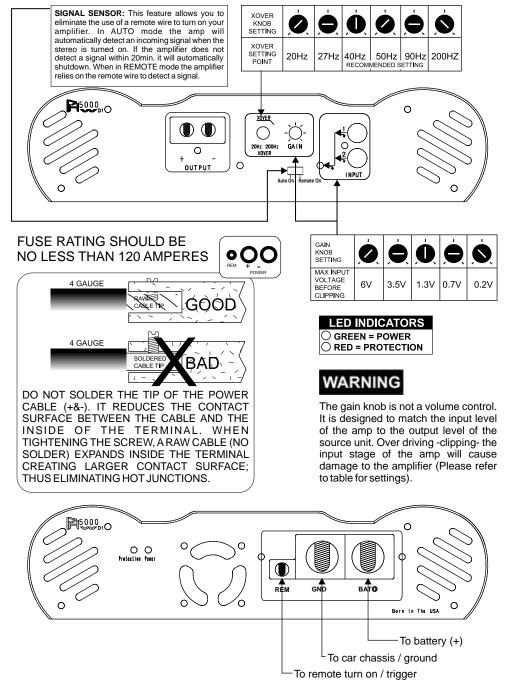
Two Dual 4-Ohm Subwoofers @ 1-Ohm



WARNING

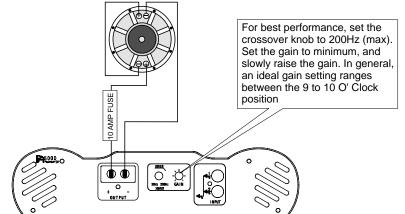
THIS CONFIGURATION IS FOR USE WITH PH2000W/D11 1-Ohm AMPLIFIER ONLY

PH5000W/D1

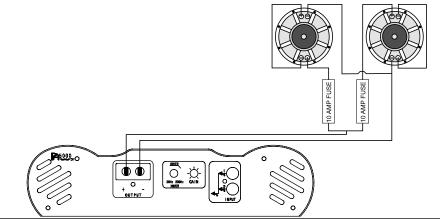


- Test the alternator output. Factory alternator will produce 60 to 80 amperes at best. Wear and heat will reduce the output by 40%.
- Alternator ground (-) must be reinforced, use 4-gauge cable instead of the factory 8-gauge.
- Alternator positive (+) to battery (+) must be reinforced. Use 4-gauge cables.
- Check your battery condition. Batteries degrade after a while.
- Battery (+) to amplifier (+), must be a 4-gauge cable.
- Ground amplifier to chassis using 4-gauge cable, keep the cable short (maximum 2-feet).
- Use 1 farad capacitor to compensate for surges in demand.
- \bullet We recommend the use of one (1) auxiliary battery.

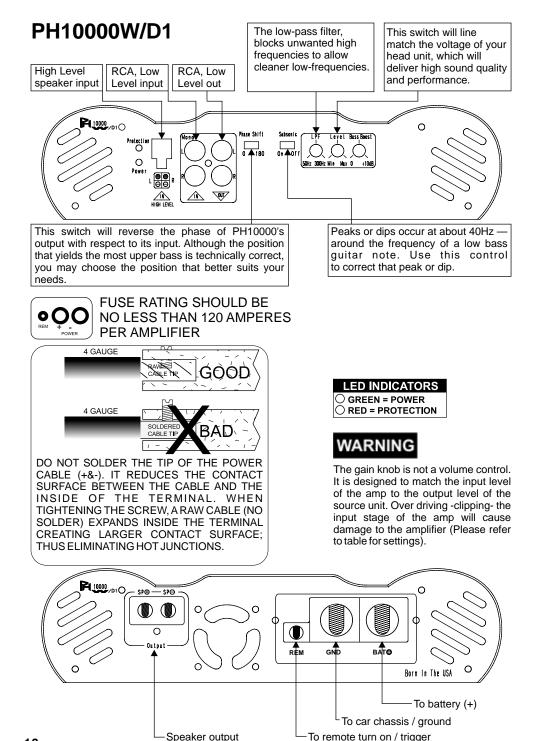
One Subwoofer

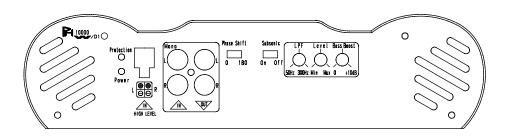


Two Subwoofers



www.earthquakesound.com 15





"RCA level" audio signal needed to clip the input stage (bass boost at minimum)

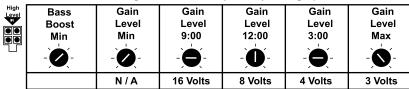
		0	•			,
	Bass	Gain	Gain	Gain	Gain	Gain
Ò	Boost	Level	Level	Level	Level	Level
V	Min	Min	9:00	12:00	3:00	Max
O _R	-)		-)	-))-	-)	-))-
		12 Volts	6 Volts	1 Volt	0.7 Volt	0.5 Volt
"RCA level" audio signal needed to clip the input stage (bass boost at maximum)						
	Bass	Gain	Gain	Gain	Gain	Gain
	Boost	Level	Level	Level	Level	Level
0	Max	Min	9:00	12:00	3:00	Max

2.7 Volts

"SPEAKER level" audio signal needed to clip the input stage (bass boost at minimum)

0.8 Volt

0.5 Volt



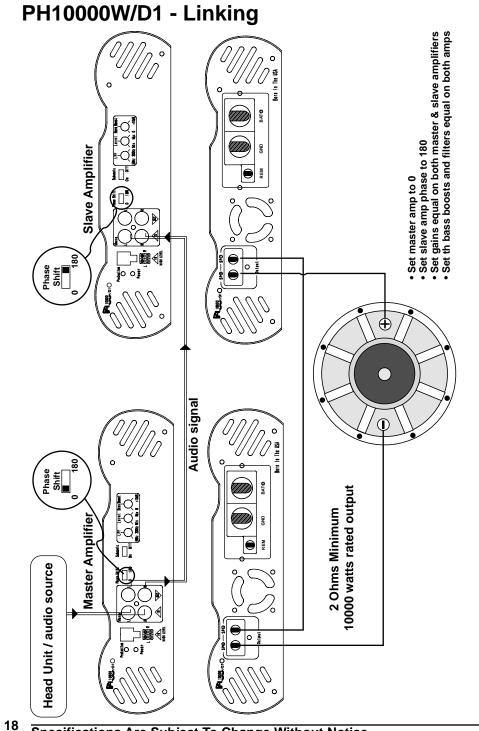
"SPEAKER level" audio signal needed to clip the input stage (bass boost at maximum)

High	Bass	Gain	Gain	Gain	Gain	Gain
	Boost	Level	Level	Level	Level	Level
	Max	Min	9:00	12:00	3:00	Max
	-	-	-	-)		-)
		N/A	14 Volts	4 Volts	2 Volts	1 Volt

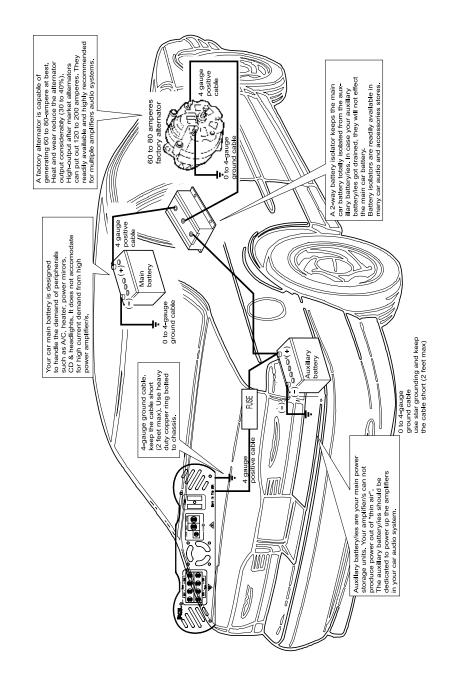
0.2 Volt

0

6 Volts



Installation Example



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