

**Owner's Manual and  
Installation Guide**

# Caution:

**Please do not plug in or unplug RCA plugs to the amplifier inputs while the amplifier is turned on. Doing so is potentially harmful to the amplifier by allowing RF (radio frequencies) into the amplifier, causing instability during the brief period while the RCA shield is not connected, and the power is connected. Only plug in or unplug RCA plugs with the amplifier off as standard practice with all audio equipment.**

*Picasso*

**P1.210**

**P2.150**

**P2.200**

**P2.400**

**P4.140**

**P4.260**

**P4.500**

**P4.800**

**P5.610**

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## CONGRATULATIONS!

You now own a *Picasso* Amplifier, the product of an uncompromising design and engineering philosophy.

To maximize the performance of your system, we recommend that you thoroughly acquaint yourself with its capabilities and features. Please retain this manual and your sales receipt for future reference.

Soundstream amplifiers are the result of American innovation and the highest quality control standards. When properly installed, they will provide you with many years of listening pleasure. Should your amplifier ever need service or replacement due to theft, please record the following information which will help protect your investment.

### IMPORTANT INFORMATION

Serial # \_\_\_\_\_

Dealer's Name \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Installation Shop \_\_\_\_\_

Installation Date \_\_\_\_\_

## CAUTION!

Prolonged listening at extremely high levels may result in hearing loss. Even though your new **Soundstream *Picasso* Amplifier** sounds better than anything you've heard, exercise caution to prevent hearing damage.

### **FEATURES: P1.210/P2.150/P2.200/P2.400/P4.140 P4.260/P4.500/P4.800/P5.610**

- Four Channel MOSFET Power Amplifier
- Heavy-duty Aluminum Alloy Heatsink
- Class A-B Operation
- Continuously-Variable HP/LP Pass Crossover: 50Hz- 4KHz
- Bass Boost: 0 or +18dB
- Remote Subwoofer Level Control
- Continuously-Variable Input Gain Control
- Nickel Plated RCA And Speaker Level Inputs
- Remote Turn-On/Turn-Off Circuit
- MOSFET Pulse Width Modulated Power Supply
- 2 Ohm stable
- Soft Turn-On Circuit
- Thermal and Speaker Short Protection Circuitry
- LED Power and Protection Indicators

## Specifications

Signal / Noise Ratio	105dB
THD	0.015%
Frequency Response	10 - 35k
Damping Factor	>250
Signal Voltage Range	200mV - 6V
Power Voltage Range	11V - 16V

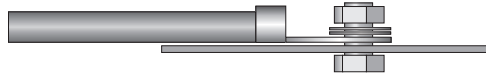
## Power and Fuse Ratings

Model	4 Ohm	2 Ohm	Bridged	Fuse
P1.210	130w x 1	210w x 1	—	25A x 1
P2.150	50w x 2	75w x 2	150w x 2	20A x 1
P2.200	70w x 2	100w x 2	200w x 2	25A x 1
P2.400	125w x 2	200w x 2	400w x 1	25A x 2
P4.140	25w x 4	35w x 4	—	15A x 1
P4.260	45w x 4	65w x 4	130w x 2	20A x 2
P4.500	80w x 4	125w x 4	250w x 4	25A x 2
P4.800	125w x 4	200w x 4	400w x 2	80A x 1
P5.610	60w x 4 & 170 x 1	85w x 4 & 270 x 1	170w x 4 & 270 x 1	70A x 1

## Dimensions

Model	Length	Width	Height
P1.210	7.75" (197.4mm)	8.25" (207mm)	2.1" (53mm)
P2.150	7.0" (177.4mm)	8.25" (207mm)	2.1" (53mm)
P2.200	8.6" (217.4mm)	8.25" (207mm)	2.1" (53mm)
P2.400	12" (307.4mm)	8.25" (207mm)	2.1" (53mm)
P4.140	7.4" (187mm)	7.4" (188mm)	1.8" (45mm)
P4.260	11.6" (295mm)	8.25" (207mm)	2.1" (53mm)
P4.500	13.6" (345mm)	8.25" (207mm)	2.1" (53mm)
P4.800	19.8" (505mm)	8.25" (207mm)	2.1" (53mm)
P5.610	19.4" (495mm)	8.25" (207mm)	2.1" (53mm)

## Tools/ Parts For Installation



### NOTE: TOOLS ARE NOT SUPPLIED

Small Standard screwdriver, Phillips screwdriver (#2 or medium sized), Wire cutters, Wire strippers, - #6 round head screws, and 1 - #8 sheet metal screw (or nut, bolt flat washer, start washer) (see detail), 2 Ring connectors (large enough to accommodate your method of grounding), In-line fuse or circuit breaker.

## Built-in Crossover

All *Picasso Amplifiers* feature built-in electronic crossovers. The *Picasso Amplifiers* feature continuously-variable low pass crossovers and continuously-variable high pass crossovers, with bandpass options.

## Protection Circuitry

The amplifier protection circuitry will disable the amplifier if the inputs are overloaded, short-circuited or extremely high temperature conditions are detected. When the protection mode is in operation, the LED indicator on the front panel will be illuminated, indicating the amplifier has gone into a self-preservation mode.

If you observe that the protection LED is lit, please check the system carefully to determine what has caused the protection circuit to engage. The amplifier can be reset by turning the remote power off and then on again. If the amplifier shuts down due to a thermal overload condition, please allow it to cool down before powering up. If the amplifier shuts down because of an input overload or short circuit, be sure to repair these conditions before attempting to power up the amplifier again.

## 2 Ohm Operation (in stereo mode)

Your *Picasso Amplifier* was designed to operate effectively at loads down 2 Ohms. This means that you can install four 8 Ohm speakers per channel when using parallel wiring. Increasing the number of woofers per channel at low frequencies (up to 100Hz) produces an acoustic coupling effect. This acoustic coupling increases your power output by 3 dB per speaker doubling.

When operating at 2 Ohms, the amplifiers will increase their output power by approximately 50%. The current draw will also increase by about the same amount, so be sure you have enough current to run the amplifiers into a 2 Ohm load. If you lack adequate current, your music reproduction will be distorted.

## INPUT SENSITIVITY

Please note: The gain control of any car audio amplifier should not be mistaken for a volume control. It is a sophisticated device, designed to match the output level of your audio source unit to the input level of the amplifier. Do not adjust this input level to maximum unless your input level requires it. Ignoring these instructions will result in an input overload to the amplifier, and excessive audio distortion. It can also cause the protection circuit to engage.

## Mounting the Amplifier

Mark the location for the mounting screw holes by positioning the amplifier where you wish to install it and use a scribe (or one of the mounting screws) inserted in each mounting hole to mark the mounting surface. If the mounting surface is carpeted, measure the hole centers and mark with a felt tip pen.

Drill pilot holes in the mounting surface for the mounting screws and insert the mounting screws into these holes. Tighten them securely.

**Note:** Before beginning your installation, be sure to take note of any wires, lines or other devices in your vehicle which may be located behind any mounting surface.

## Electrical Wiring

All *Picasso Amplifiers* are equipped with easy top access screw terminals. These terminals are nickel-plated in order to ensure excellent electrical contact and to resist corrosion.

When making electrical connections to the amplifier, please observe the following:

- Use at least 8 gauge or heavier wire for power and ground connections.
- Wire the amplifier directly to the car battery. Make sure there is circuit protection (Such as a fuse) on the positive power lead, within 18 inches of the battery.
- For the ground connection, use the shortest possible wire to a good chassis ground point.
- Wire the Remote connection to the remote turn-on lead of your equalizer or head unit. In some cases this may be the power antenna lead of the head unit.

## FUSING

Fuses protect both the amplifier and the electrical system of your vehicle from faulty conditions. If you must replace the fuse in your *Picasso Amplifier*, use a fuse of exactly the same type and rating. A different type or rating may result in damage or cause a fire.

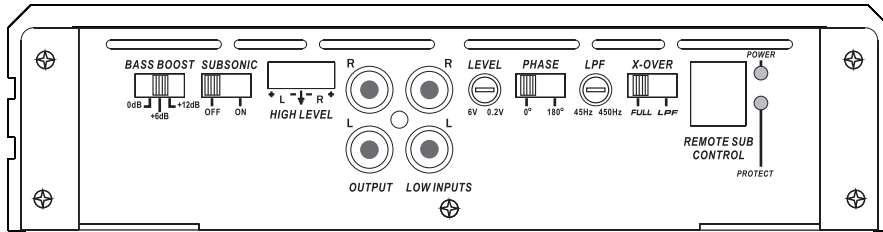
## REMOTE GAIN CONTROL

The P1.210, are equipped with a dashboard mount remote subwoofer level control. Run the supplied dashboard remote control from the front panel of your amplifier. By turning the level knob clockwise, you will increase the output of low frequencies.

## PANEL LAYOUT

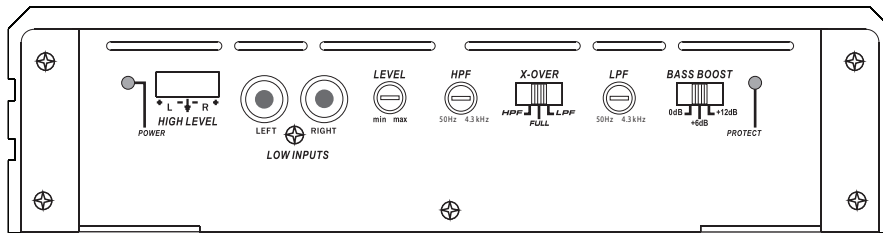
P1.210

LEFT VIEW



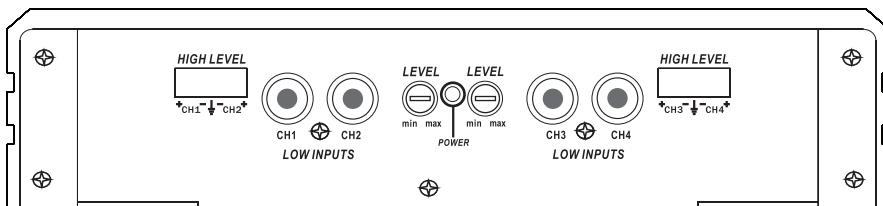
P2.150 P2.200 P2.400

LEFT VIEW



P4.140

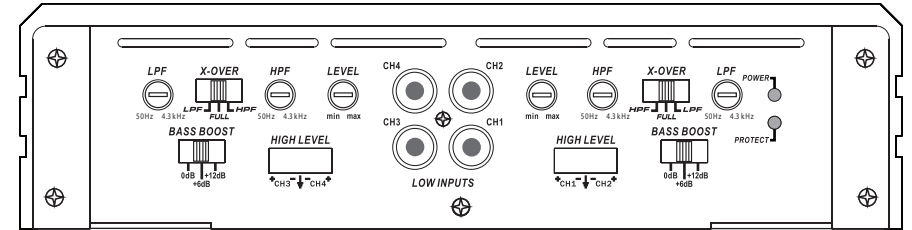
RIGHT VIEW



## PANEL LAYOUT

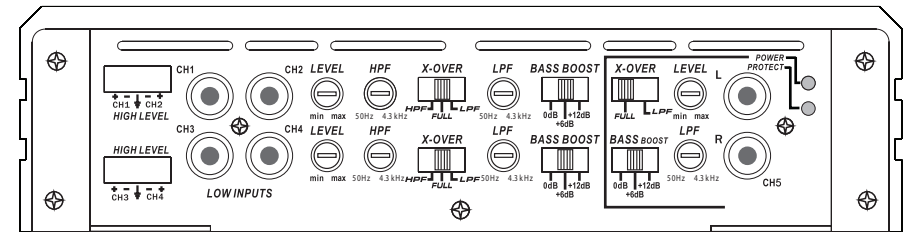
P4.260 P4.500 P4.800

LEFT VIEW



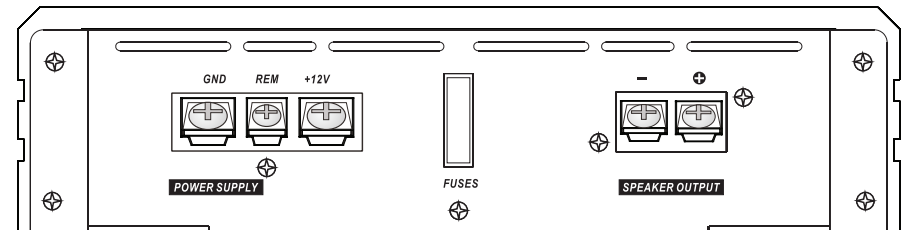
P5.610

LEFT VIEW



P1.210

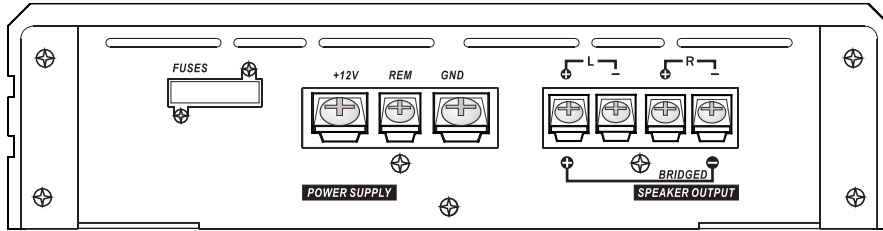
RIGHT VIEW



## PANEL LAYOUT

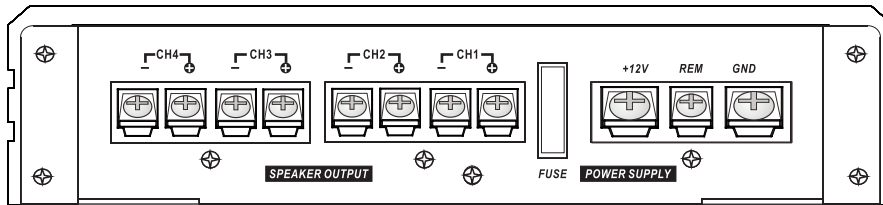
P2.150 P2.200 P2.400

RIGHT VIEW



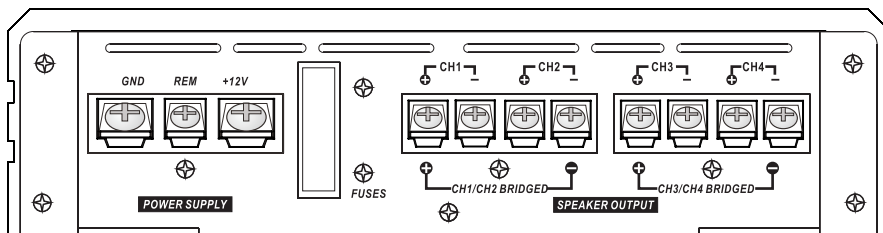
P4.140

RIGHT VIEW



P4.260 P4.500 P4.800

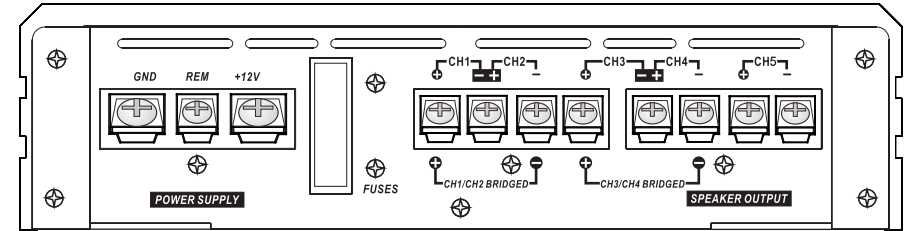
RIGHT VIEW



## PANEL LAYOUT

P5.610

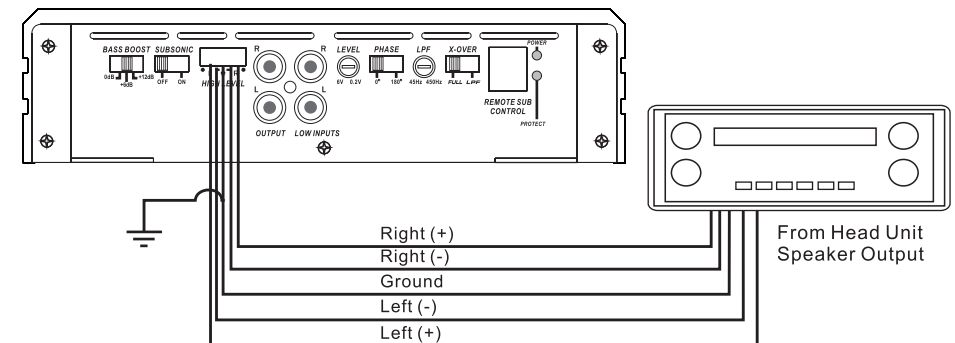
RIGHT VIEW



## High Level Inputs

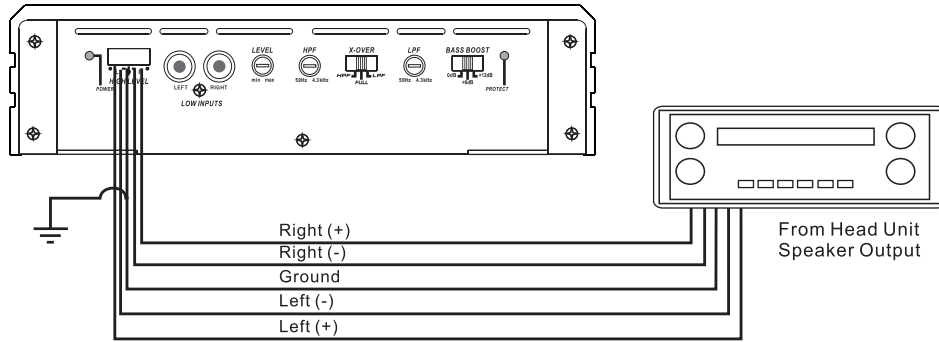
**WARNING:** If you use High Level (Speaker) inputs, do not use the Low Level inputs at the same time.

P1.210



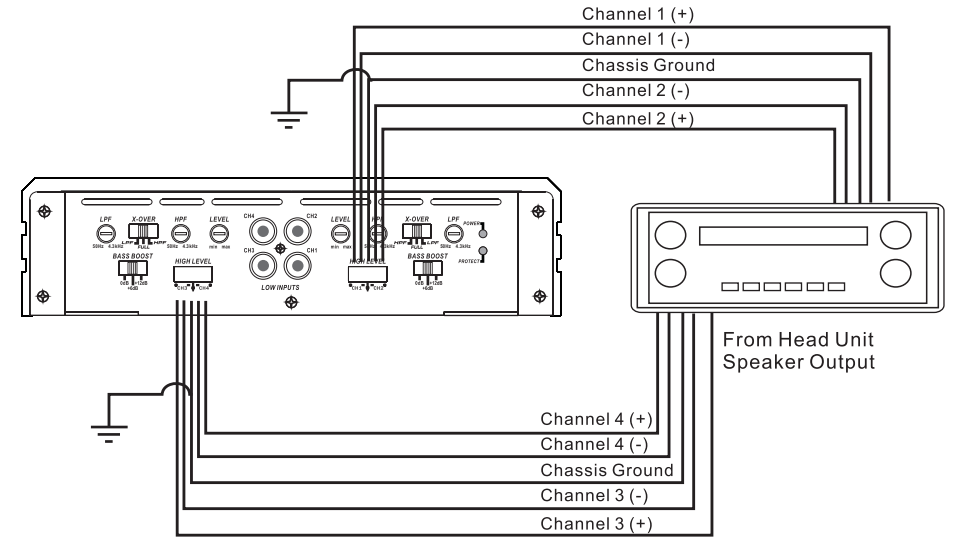
## High Level Inputs

P2.150 P2.200 P2.400

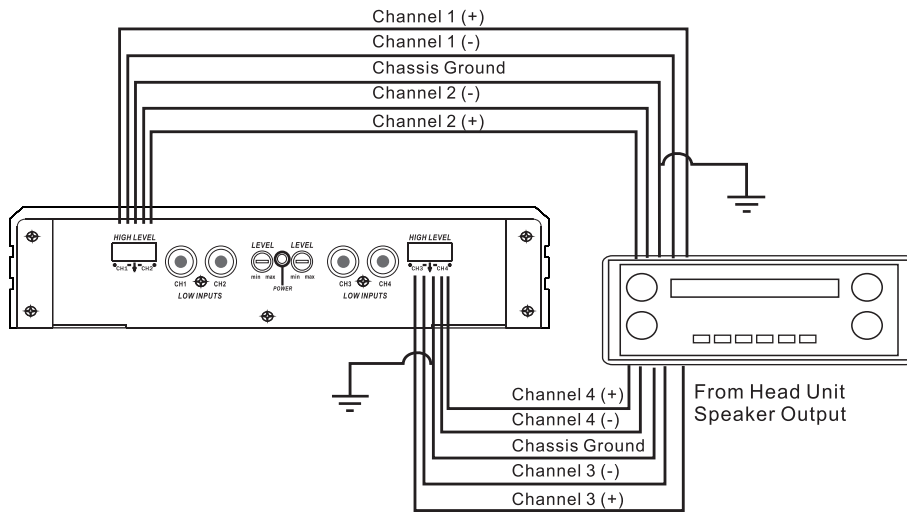


## High Level Inputs

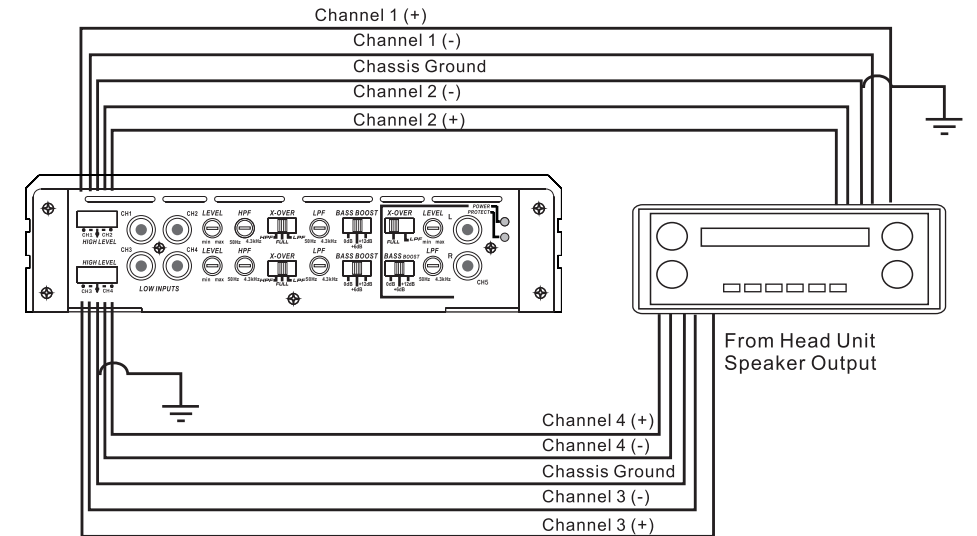
P4.260 P4.500 P4.800



P4.140

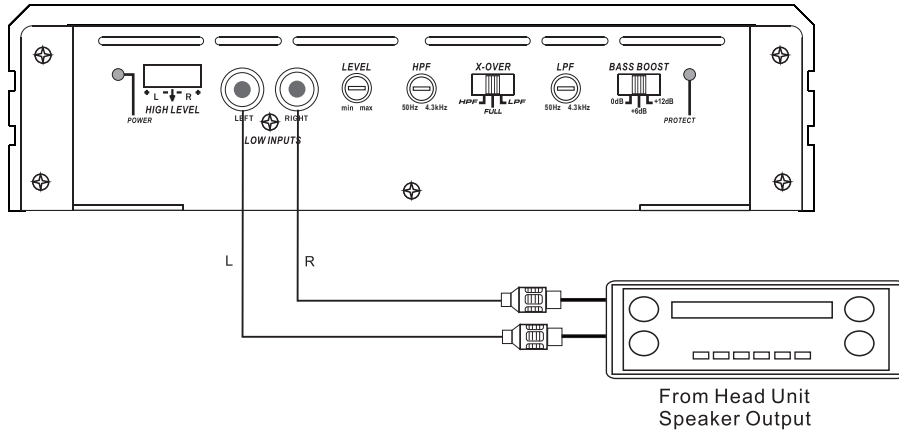


P5.610



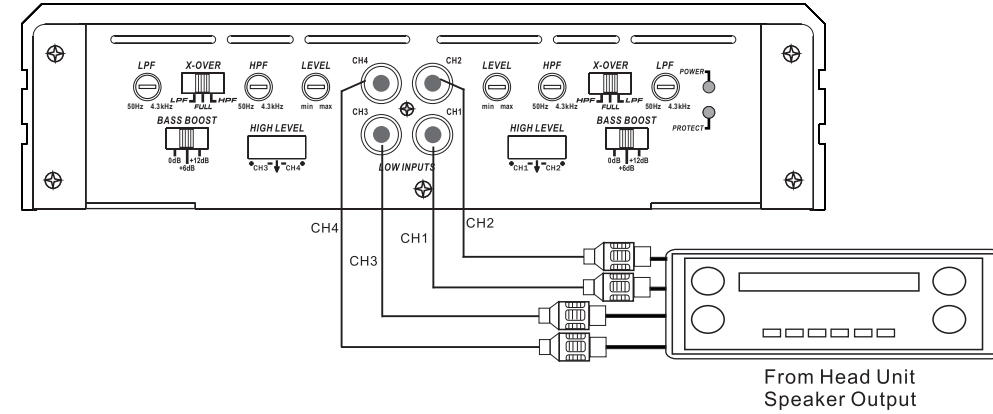
## Low Level InPuts

P2.150 P2.200 P2.400

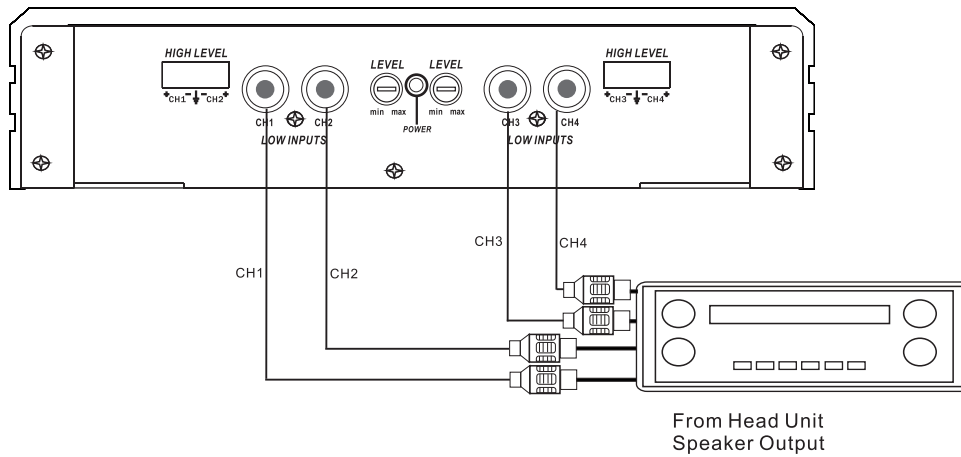


## Low Level InPuts

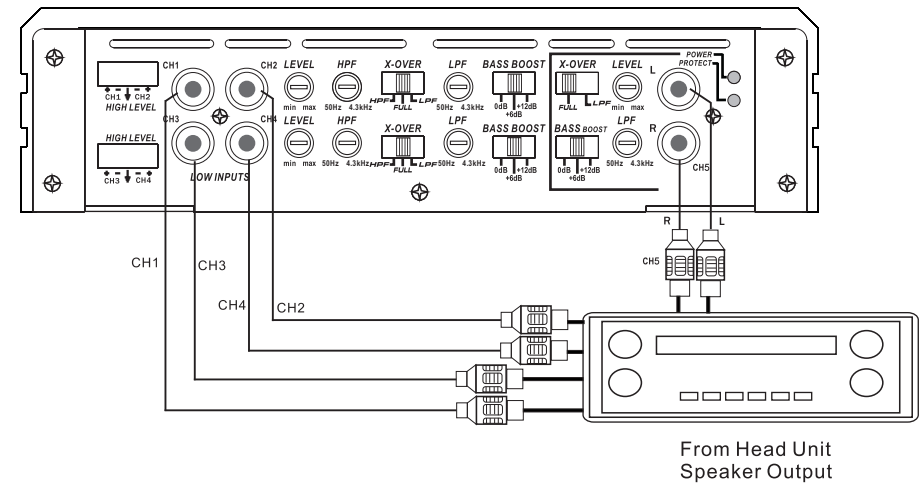
P4.260 P4.500 P4.800



P4.140

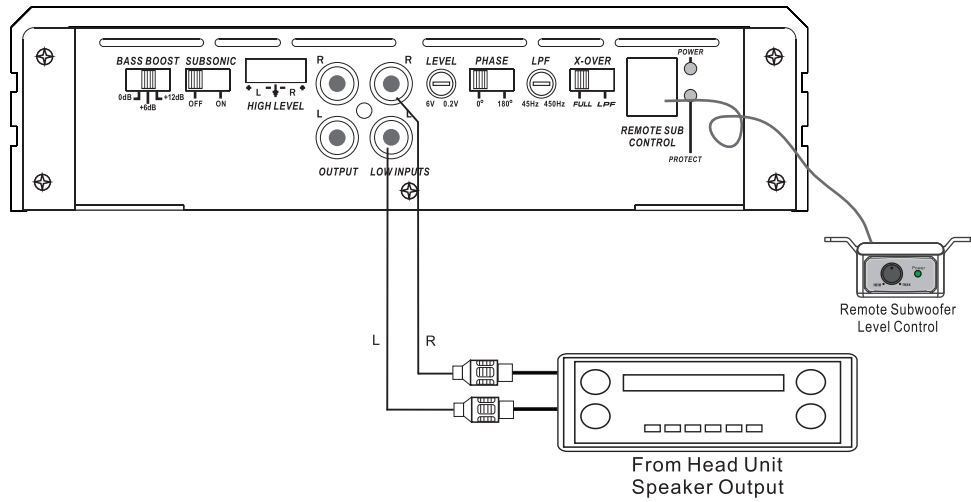


P5.610



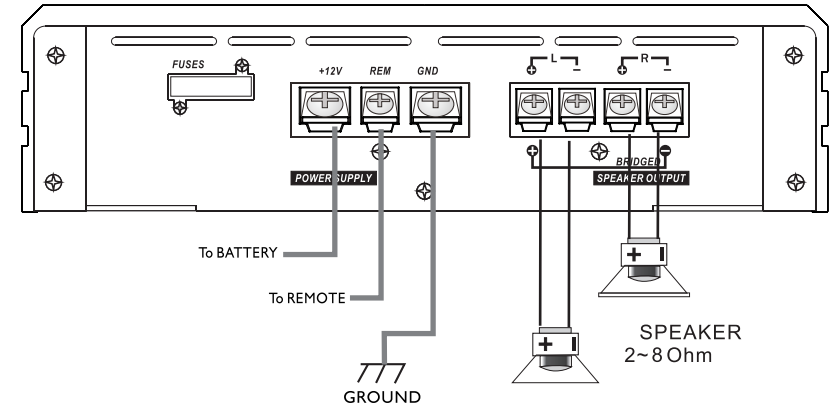
## Low Level Inputs

P1.210



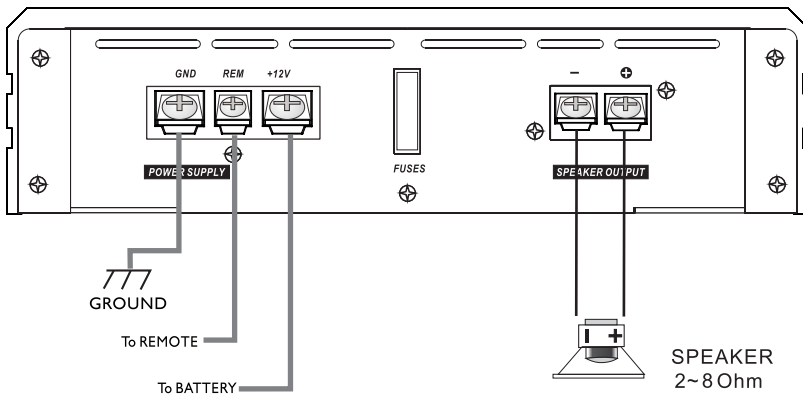
## Speakers Connections

2Ch.Stereo:P2.150 P2.200 P2.400

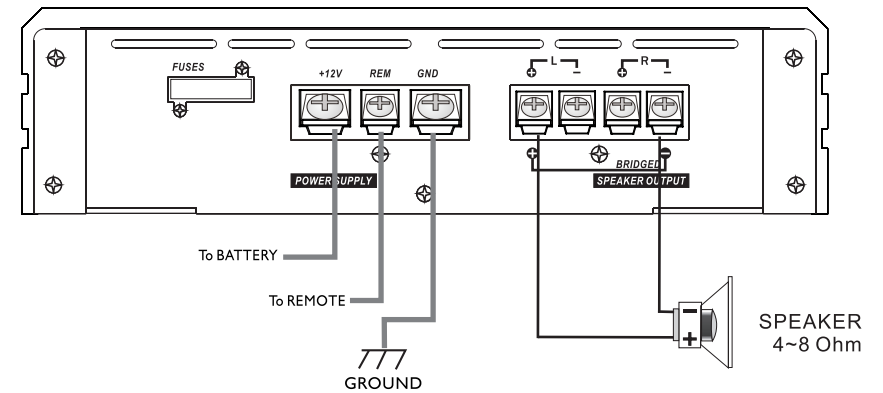


## Speakers Connections

1Ch.Stereo: P1.210



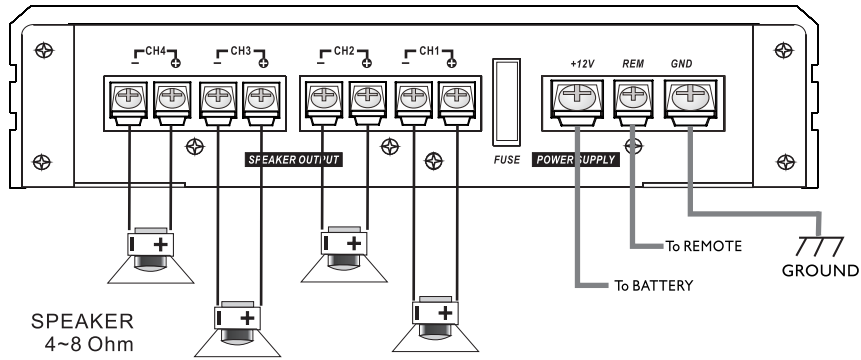
2Ch.Bridged:P2.150 P2.200 P2.400





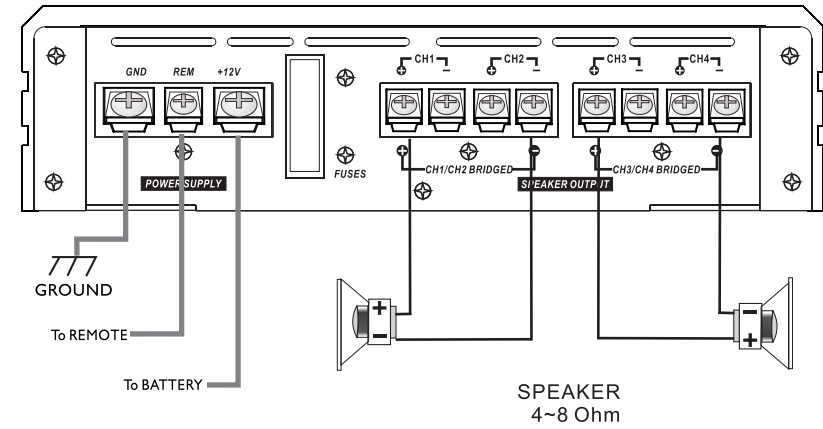
## Speakers Connections

4Ch.Stereo:P4.140

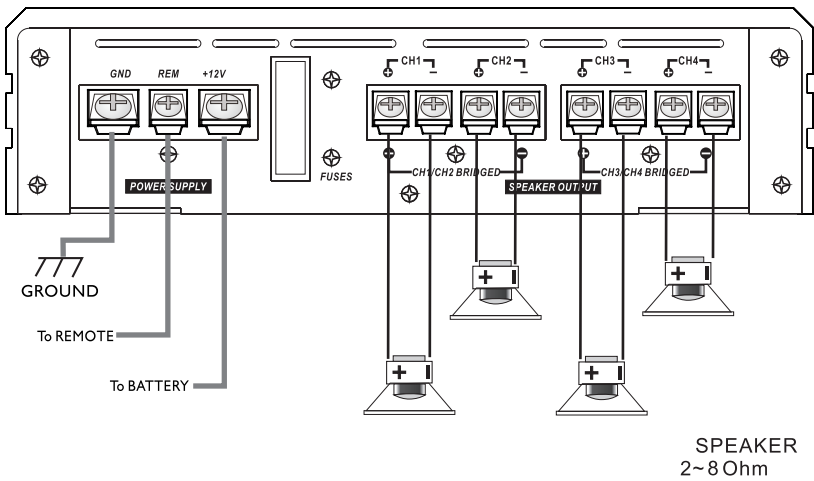


## Speakers Connections

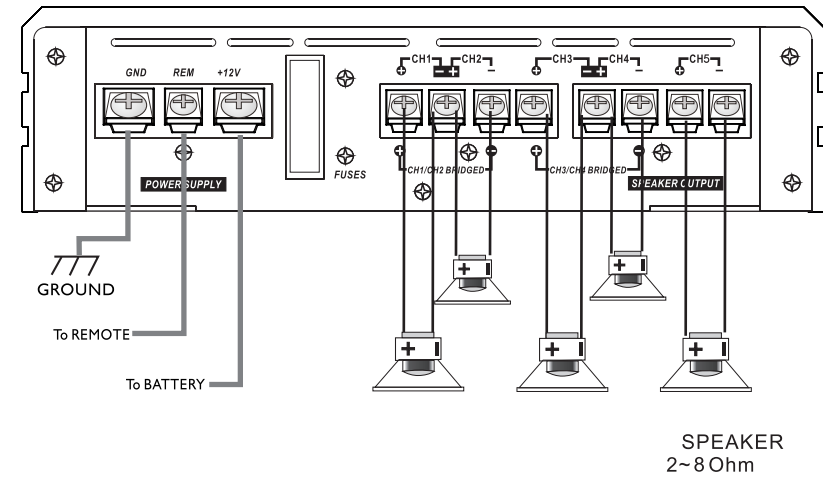
4Ch.Bridged:P4.260 P4.500 P4.800



4Ch.Stereo:P4.260 P4.500 P4.800

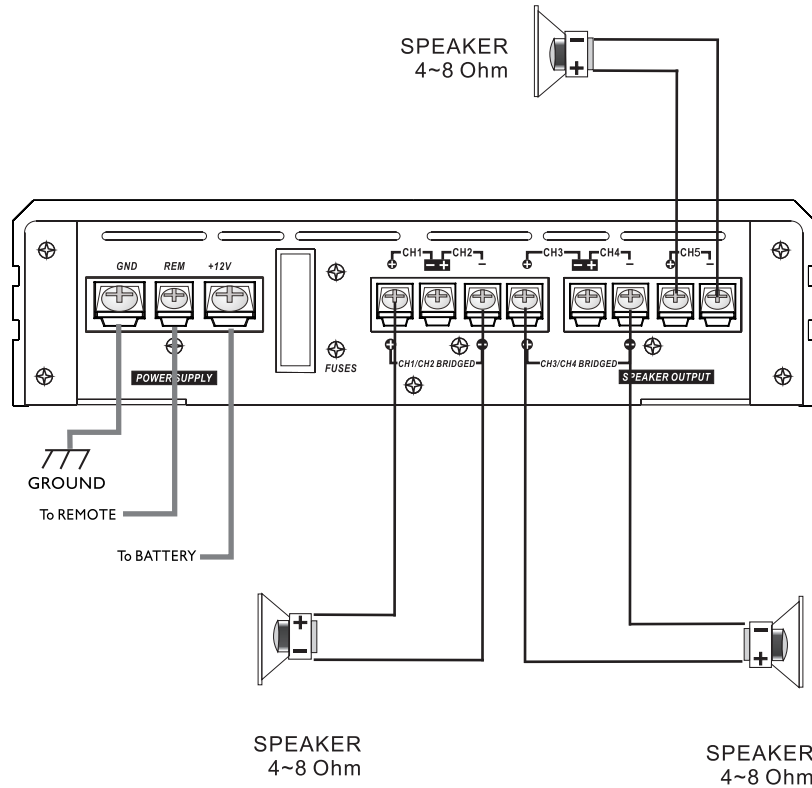


5Ch.Stereo:P5.610



## Speakers Connections

5Ch.Bridged:P5.610



## TROUBLE SHOOTING

### NO SOUND

Is the LED lit?

**YES**

**NO**

Check Power and Remote turn-on wire for voltage. Make sure Ground wire is secure.

STILL NO SOUND

See your Authorized Sound Stream Dealer.

### SOUND IN ONE CHANNEL ONLY

Reverse left and right speakers by unplugging the speaker connector, turning it over and plugging it back in.

SOUND IS NOW ON

**OPPOSITE CHANNEL**

Reverse RCA inputs

**SAME CHANNEL**

Problem is in the speaker of speaker wire of the silent channel

SOUND IS NOW ON

**OPPOSITE CHANNEL**

Reverse RCAs at head unit

**SAME CHANNEL**

Problem is in the Amplifier, See your local Authorized Dealer

SOUND IS NOW ON

**OPPOSITE CHANNEL**

Problem is in the head unit or before the amplifier

**SAME CHANNEL**

Problem is in the RCA cables

## PROTECTION CIRCUIT

**Short Circuit Protection engaged:** The amplifier will turn off and try to come back on immediately. The amplifier will cycle like this indefinitely, with "blips" of sound each time. If this is the case, check your speakers and wiring for low impedance and short circuits.

**Thermal Protection engaged:** The amplifier will turn off and several minutes later will come back on. In this case, ensure that there is nothing blocking the normal convective airflow of the amplifier. No obstruction should be within 2" of the amplifier on all sides.

**NOTE: Low battery voltage will cause the amplifier to run warmer and possibly damage the amplifier.**