

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.

Owner's Manual and Installation Guide

	RUB2.250
	RUB2.450
	RUB2.600
	RUB4.500
RUBICON	RUB4.600
	RUB1.400
	RUB1.700
	RUB5.800

CONGRATULATIONS!

You now own a RUBICON 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.

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 RUBICON Amplifier** sounds better than anything you've heard, exercise caution to prevent hearing damage.

Features

- High & Low Level Input
- Platinum 4 AWG Power Block
- Infinitely Variable Crossovers w/ Multipliers (High/Low/Band)
- Remote Gain Control (RUB1.400 RUB1.700, RUB2.450, RUB2.600)
- 35Hz Subsonic Filter (1 ch. only)
- 50Hz Bass Boost 0,6 or 12dB
- MOSFET PWM Power Supply
- IDI™ Intelligent Distress Indicator for Thermal, Short, & Impedance Protection
- Turn On/Off Delay
- 180 Phase Switch (1 ch. & 5 ch. only)
- Tri-Mode Capable
- 2/4/5 Channel Input
- 2 Ohm Stereo / 4 Ohm Mono Stable

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

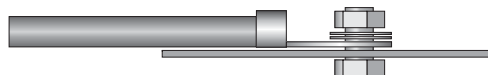
Power and Fuse Ratings

Model	4 Ohm	2 Ohm	Bridged	Fuse
RUB2.250	75W x 2	125W x 2	250W x 1	30A x 1
RUB2.450	120W x 2	225W x 2	450W x 1	25A x 2
RUB2.600	150W x 2	300W x 2	600W x 1	30A x 2
RUB4.500	75W x 4	125W x 4	250W x 2	25A x 2
RUB4.600	100W x 4	150W x 4	300W x 2	20A x 3
RUB1.400	250W x 1	400W x 1	-	25A x 2
RUB1.700	400W x 1	700W x 1	-	30A x 3
RUB5.800	70W x 4, 200W x 1	115W x 4, 340W x 1	230W x 2	25A x 3

Dimensions

Model	Length	Width	Height
RUB2.250	9.8" (250mm)	8" (205mm)	2" (52mm)
RUB2.450	17.71" (450mm)	8" (205mm)	2" (52mm)
RUB2.600	19.685" (500mm)	8" (205mm)	2" (52mm)
RUB4.500	13.77" (350mm)	8" (205mm)	2" (52mm)
RUB4.600	15.35" (390mm)	8" (205mm)	2" (52mm)
RUB1.400	13.77" (350mm)	8" (205mm)	2" (52mm)
RUB1.700	19.685" (500mm)	8" (205mm)	2" (52mm)
RUB5.800	19.685" (500mm)	8" (205mm)	2" (52mm)

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 **RUBICON Amplifiers** feature built-in electronic crossovers. The **RUBICON 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 **RUBICON 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.

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.

Electrical Wiring

All **RUBICON 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.

Remote Subwoofer Level Control

The **RUBICON RUB1.400**, **RUB1.700**, **RUB2.450** & **RUB2.600** 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.

Fuses

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

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.

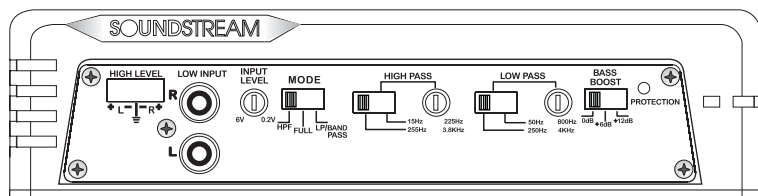
Drill pilot holes in the mounting surface for the mounting screws and insert the mounting screws into these holes. Tighten them securely.

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.

PANEL LAYOUT

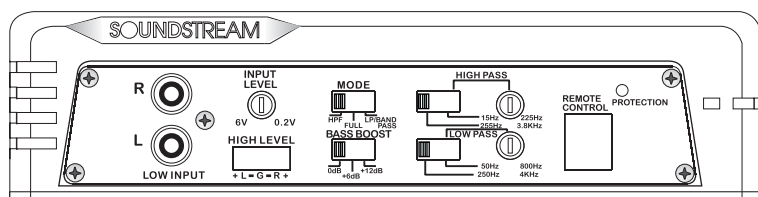
RUB2.250

LEFT VIEW



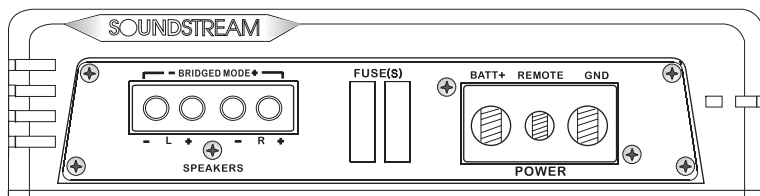
RUB2.450/RUB2.600

LEFT VIEW



RUB2.250 (use 1 fuse) **RUB2.450/RUB2.600 (use 2 fuses)**

RIGHT VIEW

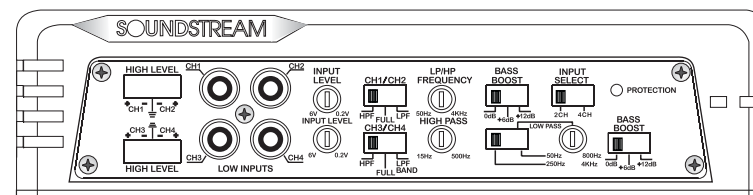


PANEL LAYOUT

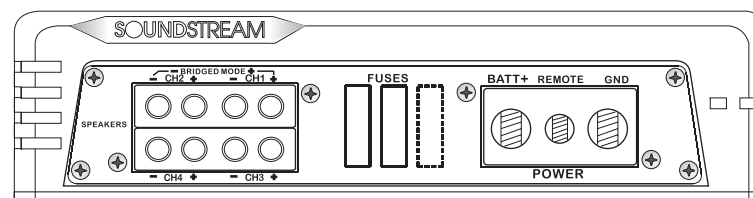
RUB4.500 (use 2 fuses)

RUB4.600 (use 3 fuses)

LEFT VIEW



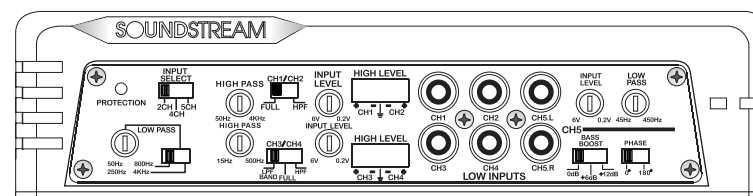
RIGHT VIEW



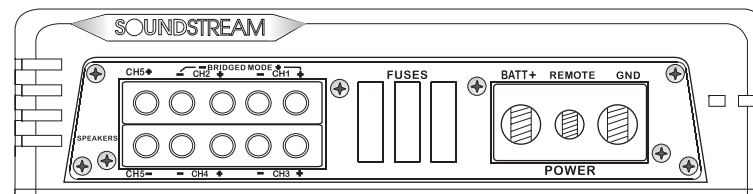
PANEL LAYOUT

RUB5.800

LEFT VIEW



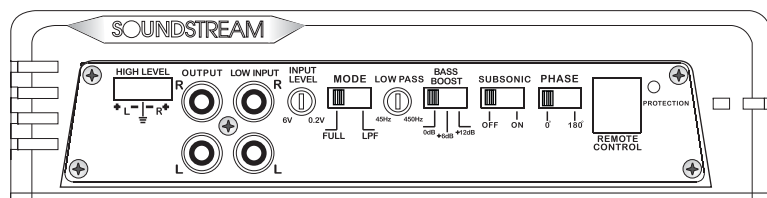
RIGHT VIEW



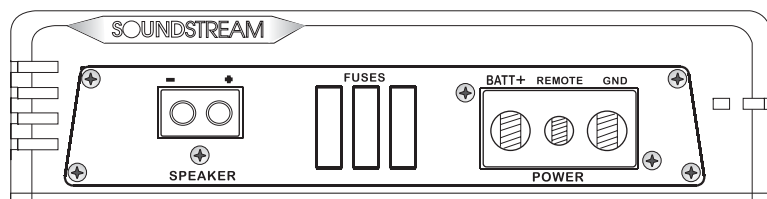
PANEL LAYOUT

RUB1.400 / RUB1.700

LEFT VIEW



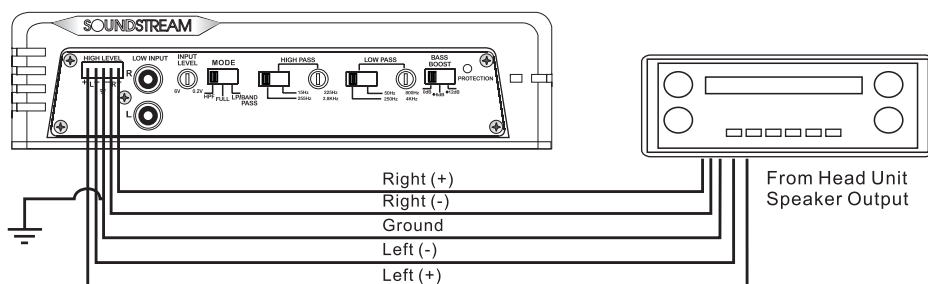
RIGHT VIEW



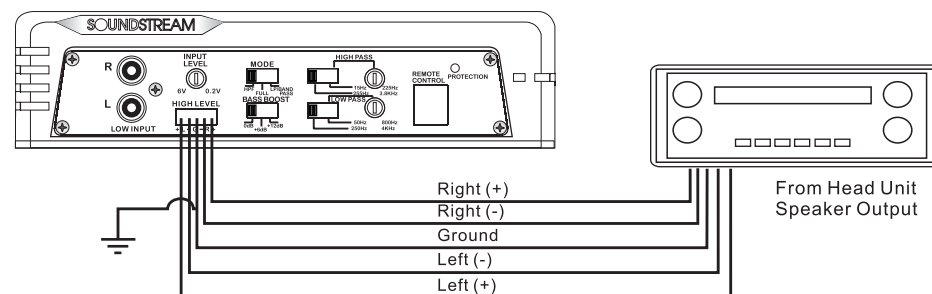
High Level Inputs

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

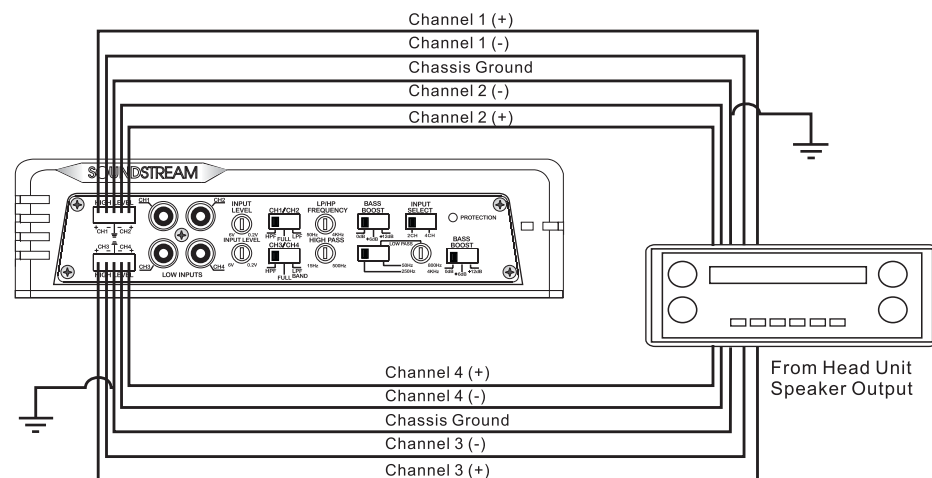
RUB2.250



RUB2.450 / RUB2.600



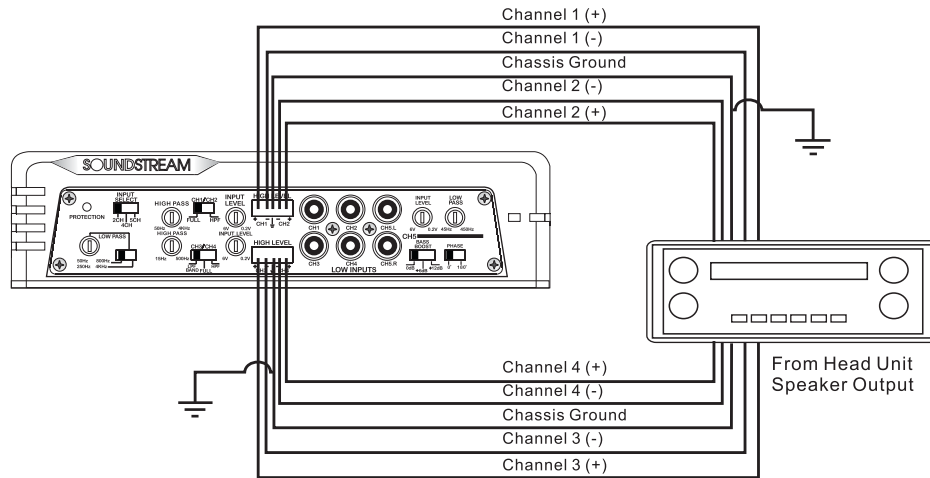
RUB4.500 / RUB4.600



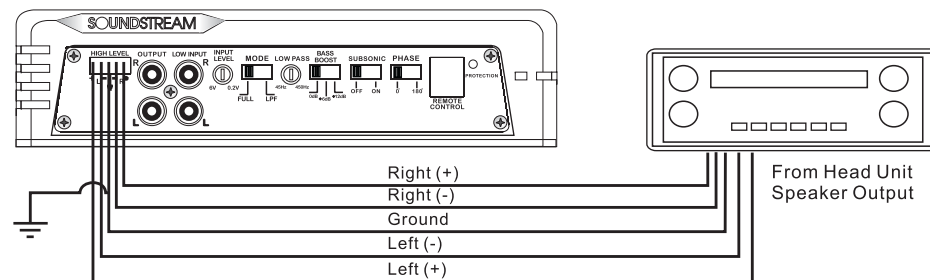
High Level Inputs

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RUB5.800

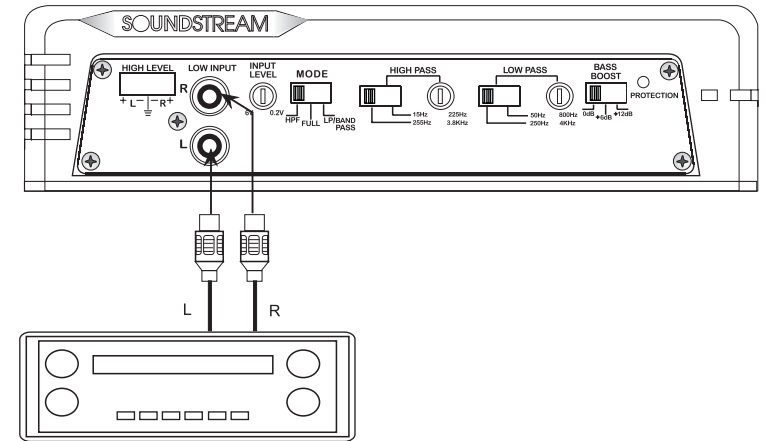


RUB1.400 / RUB1.700

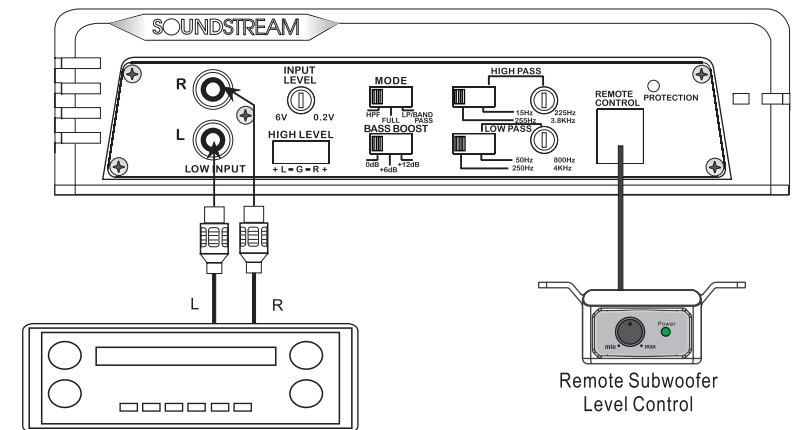


Low Level Inputs

RUB2.250

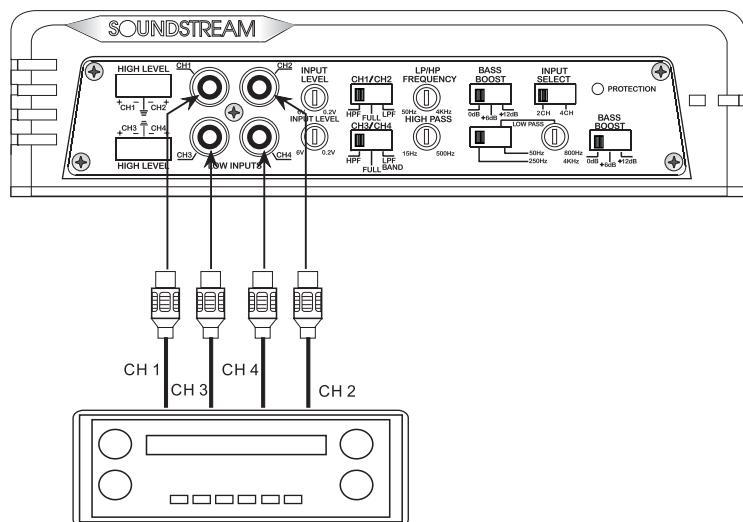


RUB2.450 / RUB2.600

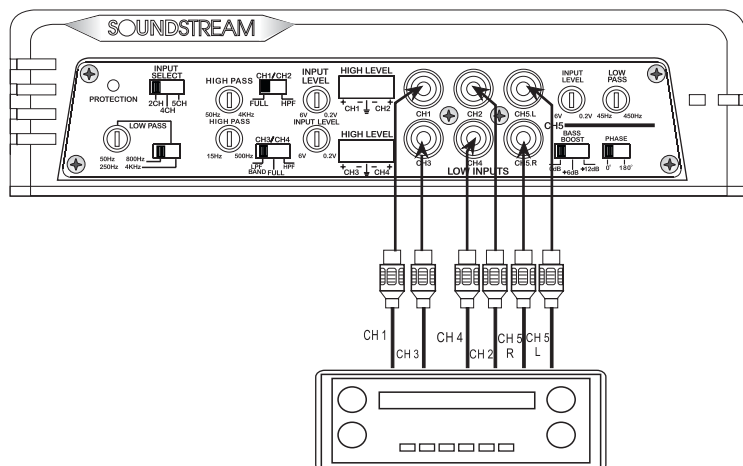


Low Level Inputs

RUB4.500 / RUB4.600

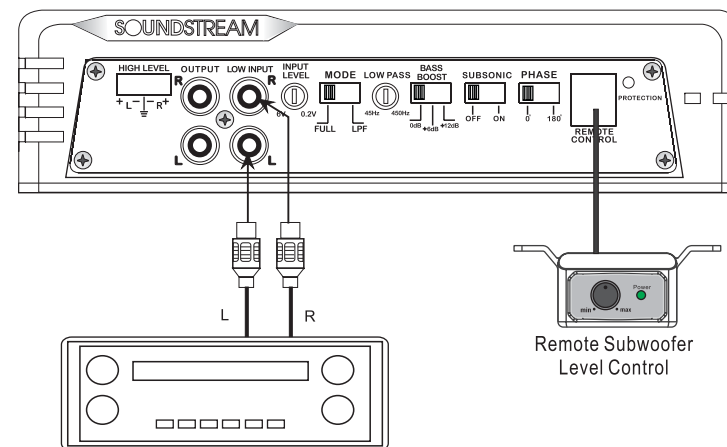


RUB5.800



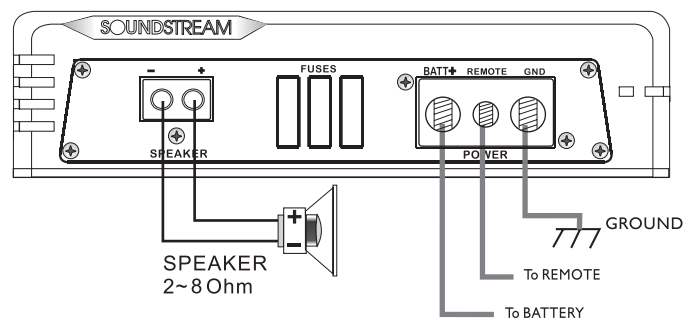
Low Level Inputs

RUB1.400 / RUB1.700

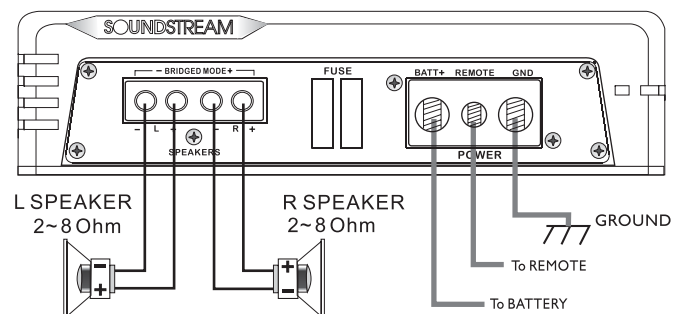


Speakers Connections

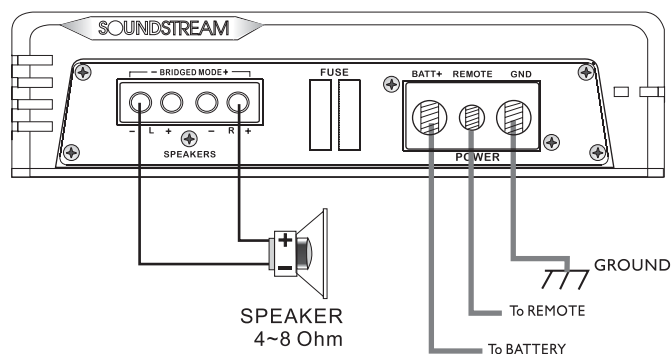
MONOBLOCK AMPLIFIERS: RUB1.400 / RUB1.700



2 CHANNEL STEREO RUB2.250/RUB2.450/RUB2.600

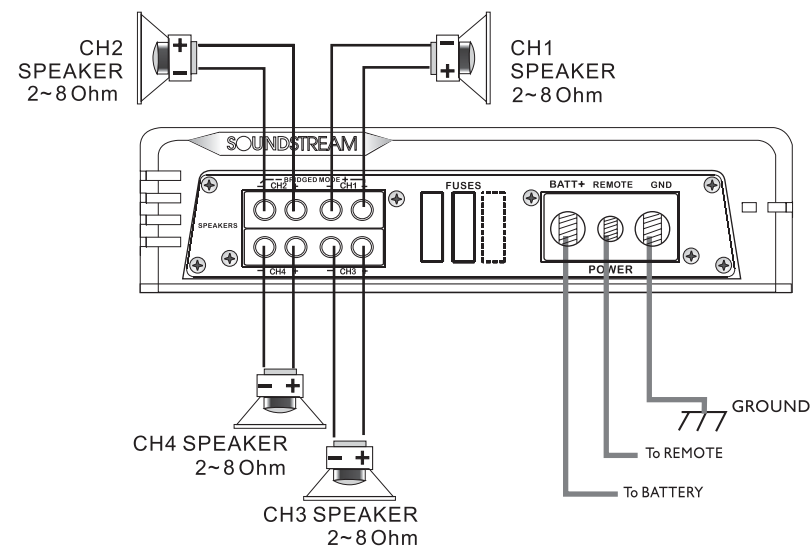


2 CHANNEL BRIDGED RUB2.250/RUB2.450/RUB2.600

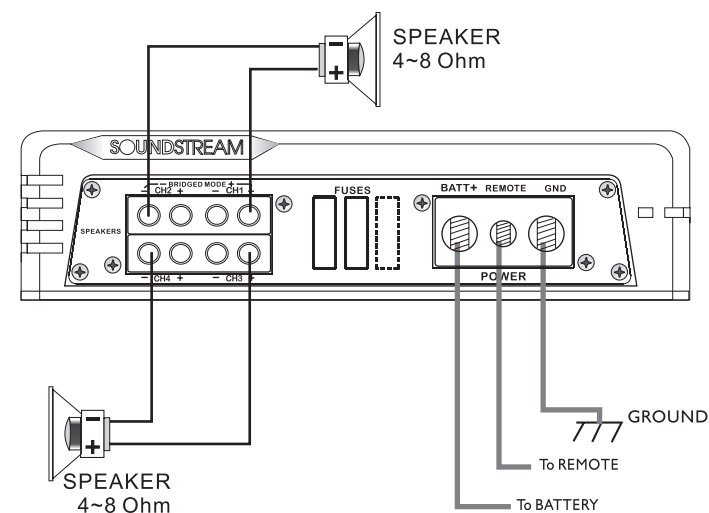


Speakers Connections

4 CHANNEL STEREO RUB4.500 / RUB4.600

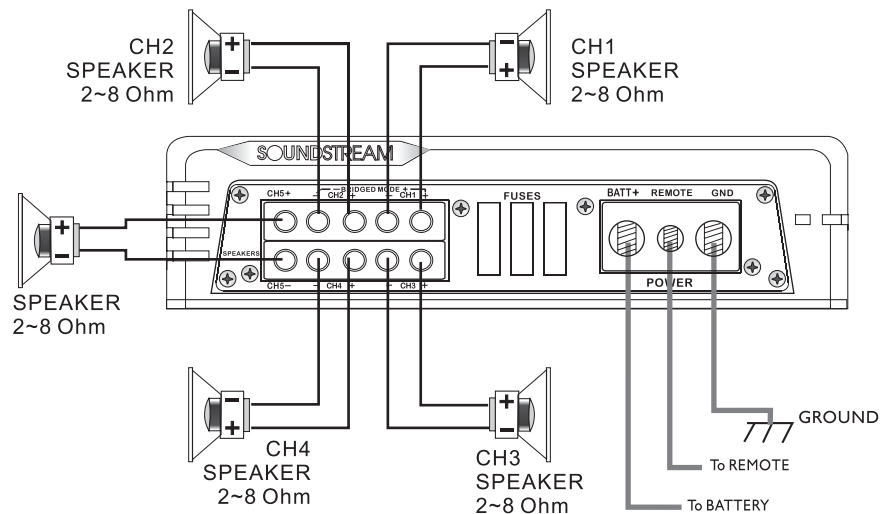


4 CHANNEL BRIDGED RUB4.500 / RUB4.600

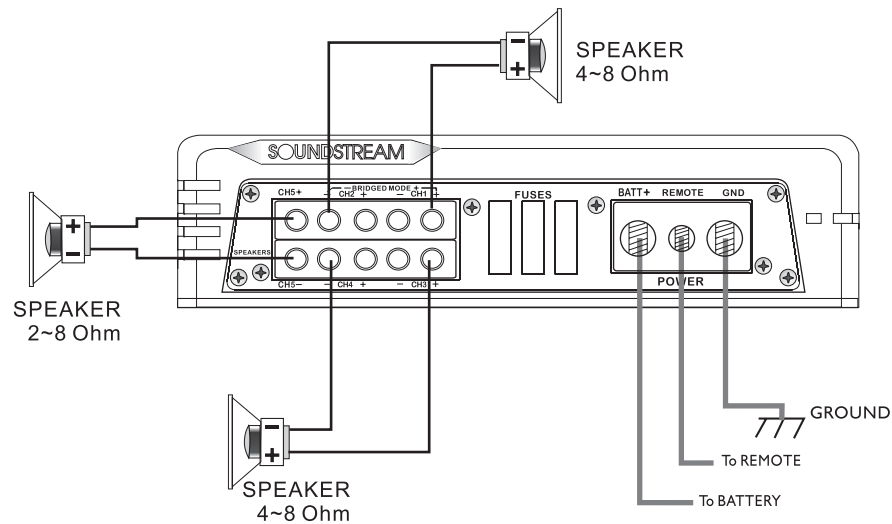


Speakers Connections

5 CHANNEL STEREO RUB5.800



5 CHANNEL BRIDGED RUB5.800



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 Authorize 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.