



OWNER'S MANUAL AND
INSTALLATION GUIDE

- PCA2.130 PCA4.400
- PCA2.200 PCA4.520
- PCA2.260 PCA5.540
- PCA2.360 PCA1.350
- PCA2.520
- PCA2.760
- PCA4.260

Picasso

CONGRATULATIONS

You now own a Picasso Series 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 sale receipts 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 of replacement due to theft or damage, please record the following information which will help protect your investment.

Serial # _____

Dealers 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 Tarantula Series amplifier sounds better than anything you've ever heard, exercise caution to prevent hearing damage.

CONTENTS

Feature	p 2
Specifications	p 3-4
Wiring	p 5
All channel inputs and controls	p 6-8
All channel speaker wiring -	p 9-13
Trouble shooting guide	p 14
Warning	p 15

FEATURES

Fully regulated MOSFET power supplies

PWM circuitry

Tri-guard amplifier protection

ID1 (Intelligent Distress Indicator) Gives a visual indication of the amplifiers protection status

Platinum RCA inputs and outputs

Platinum plated power connectors

Line outputs

2, 4 & 5 Channel Amp Features

Bi-linear selectable crossover's for inputs and outputs (high/full/low)

Continually variable high and low crossover's

Variable subwoofer equalizer

Phase inversion switch (0-180)

OEM floating ground input

Tri-mode operation

Optional Remote Bass Control (EGA-RM)

Class D Amps Features

TST (Twin Stack Technology) Allows 2 amplifiers to drive 1 voice coil, effectively doubling the power.

High quality FR-4 circuit board

Class D circuitry

Continuously variable low-pass crossover

Continuously variable subsonic filter

Accepts up to 16VDC power input

1-Ohm stability

Includes EGA-RM remote bass control

SPECIFICATIONS

Frequency response.....	±1dB 10Hz to 30KHz
Signal to noise ratio	>97dB Class D >80dB
Signal input sensitivity.....	0.5-4.0V
DC input voltage range.....	11 volts to 16 volts
Typical current draw at idle.....	<1.5Amps

PCA2.130

Into 4 ohms @ 14.4 VDC.....	40 watts x 2
Into 2 ohms @ 14.4 VDC.....	60 watts x 2
Bridged into 4 ohms @ 14.4 VDC.....	130 watts x 1
Recommended fuse size.....	1 X 30A MAXI style
Dimension.....	9.5" L x 6" W x 2.5"H

PCA2.200

Into 4 ohms @ 14.4 VDC.....	60 watts x 2
Into 2 ohms @ 14.4 VDC.....	100 watts x 2
Bridged into 4 ohms @ 14.4 VDC.....	200 watts x 1
Recommended fuse size.....	1 X 60A MAXI style
Dimension.....	9.5" L x 8" W x 2.5"H

PCA2.260

Into 4 ohms @ 14.4 VDC.....	80 watts x 2
Into 2 ohms @ 14.4 VDC.....	130 watts x 2
Bridged into 4 ohms @ 14.4 VDC.....	260 watts x 1
Recommended fuse size.....	1 X 80A MAXI style
Dimension.....	9.5" L x 10.75" W x 2.5"H

PCA2.360

Into 4 ohms @ 14.4 VDC.....	110 watts x 2
Into 2 ohms @ 14.4 VDC.....	180 watts x 2
Bridged into 4 ohms @ 14.4 VDC.....	360 watts x 1
Recommended fuse size.....	1 X 100A MAXI style
Dimension.....	9.5" L x 13.0" W x 2.5"H

PCA2.520

Into 4 ohms @ 14.4 VDC.....	160 watts x 2
Into 2 ohms @ 14.4 VDC.....	260 watts x 2
Bridged into 4 ohms @ 14.4 VDC.....	520 watts x 1
Recommended fuse size.....	1 X 120A MAXI style
Dimension.....	9.5" L x 15" W x 2.5"H

PCA2.760

Into 4 ohms @ 14.4 VDC.....	220 watts x 2
Into 2 ohms @ 14.4 VDC.....	380 watts x 2
Bridged into 4 ohms @ 14.4 VDC.....	760 watts x 1
Recommended fuse size.....	1 X 60A MAXI style
Dimension.....	9.5" L x 20" W x 2.5"H

PCA4.260
 Into 4 ohms @ 14.4 VDC.....40 watts x 4
 Into 2 ohms @ 14.4 VDC.....65 watts x 4
 Bridged into 4 ohms @ 14.4 VDC.....130 watts x 2
 Recommended fuse size.....1 X 80A MAXI style
 Dimension.....9.5" L x 10" W x 2.5"H

PCA4.400
 Into 4 ohms @ 14.4 VDC.....60 watts x 4
 Into 2 ohms @ 14.4 VDC.....100 watts x 4
 Bridged into 4 ohms @ 14.4 VDC.....200 watts x 2
 Recommended fuse size.....1 X 90A MAXI style
 Dimension.....9.5" L x 11.5" W x 2.5"H

PCA4.520
 Into 4 ohms @ 14.4 VDC.....80 watts x 4
 Into 2 ohms @ 14.4 VDC.....130 watts x 4
 Bridged into 4 ohms @ 14.4 VDC.....260 watts x 2
 Recommended fuse size.....1 X 90A MAXI style
 Dimension.....9.5" L x 14" W x 2.5"H

PCA5.540
 Into 4 ohms @ 14.4 VDC.....60 watts x 4 + 110 x 1
 Into 2 ohms @ 14.4 VDC.....100 watts x 4 + 180 x 1
 Bridged into 4 ohms @ 14.4 VDC.....180 watts x 2 + 180 x 1
 Recommended fuse size.....1 X 90A MAXI style
 Dimension.....9.5" L x 18" W x 2.5"H

PCA1000D
 Into 4 ohms @ 14.4 VDC.....500 watts x 1
 Into 2 ohms @ 14.4 VDC.....800 watts x 1
 Bridged into 4 ohms @ 14.4 VDC.....1000 watts x 1
 Recommended fuse size.....1 X 60A MAXI style
 Dimension.....9.5" L x 12.75" W x 2.5"H

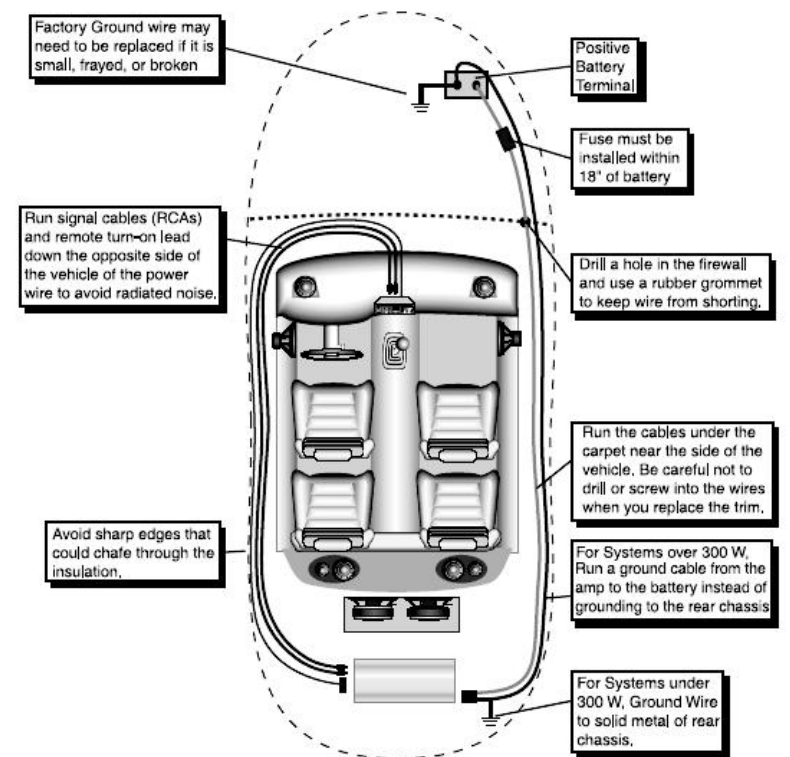
PCA1500D
 Into 4 ohms @ 14.4 VDC.....800 watts x 1
 Into 2 ohms @ 14.4 VDC.....1100 watts x 1
 Bridged into 4 ohms @ 14.4 VDC.....1500 watts x 1
 Recommended fuse size.....1 X 60A MAXI style
 Dimension.....9.5" L x 15" W x 2.5"H

PCA2000D
 Into 4 ohms @ 14.4 VDC.....1100 watts x 1
 Into 2 ohms @ 14.4 VDC.....1500 watts x 1
 Bridged into 4 ohms @ 14.4 VDC.....2000 watts x 1
 Recommended fuse size.....1 X 60A MAXI style
 Dimension.....9.5" L x 18" W x 2.5"H

PCA1.350
 Into 4 ohms @ 14.4 VDC.....200 watts x 1
 Into 2 ohms @ 14.4 VDC.....300 watts x 1
 Recommended fuse size.....1 X 40A MAXI style
 Dimension.....9.5" L x 10.75" W x 2.5"H

WIRING

Before beginning, disconnect the negative (-) terminal of the battery prior to working on the positive (+) terminal to prevent a short to ground. This is important, unless you want to spend the rest of your life with a nickname like "Sparky," or "Smokey." Reconnect the negative terminal only after all connections have been made.



Warning! A Main Fuse must be installed within 18" of battery!

VARIABLE LOW-PASS FILTER (40-250Hz)

For use as a dedicated subwoofer channel, set the filter switch to LPF and adjust variable crossover frequency with controls as desired. The amplifier input circuit filters out everything above 40-250Hz (depends on the adjustment of the frequency knob) so only the deepest bass notes are amplified,

VARIABLE HIGH-PASS FILTER (40-250Hz)

For use as a dedicated high range channel, set the filter switch to HPF. The input circuit filters out all frequencies below 40-250Hz (depends on the adjustment of the frequency knob).

BASS BOOST/REMOTE BASS KNOB CONTROL

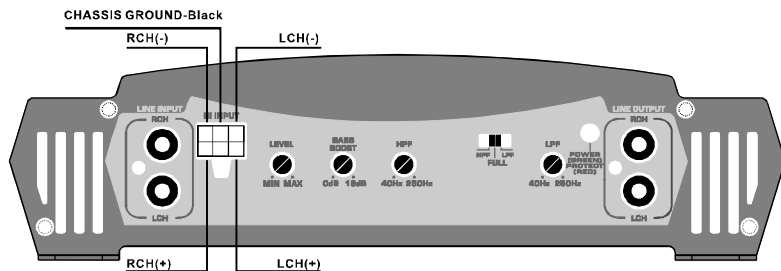
By using the bass boost function the deepest bass notes at 50Hz are emphasized.

CONNECTING HIGH LEVEL INPUTS

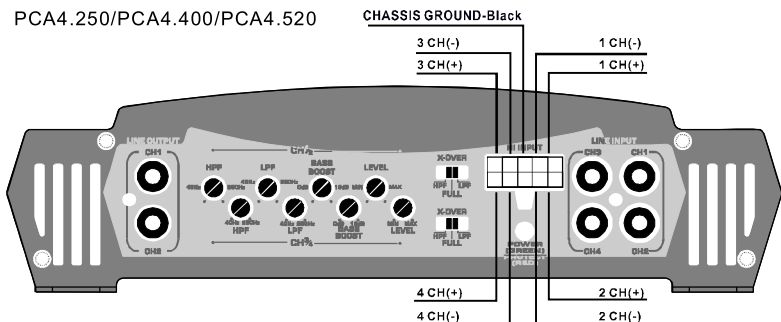
Connect the black signal ground to a clean, bare metal surface on the vehicle chassis. Connect the positive (+) speaker wire leads to the positive (+) signal channel in wires on the high input wire harness. (Do not connect the negative (-) speaker wire leads to the high input wire harness).

Do not use the high level input if you are using the low level RCA inputs.

PCA2.130/PCA2.200/PCA2.260/PCA2.360/PCA2.520/PCA2.760

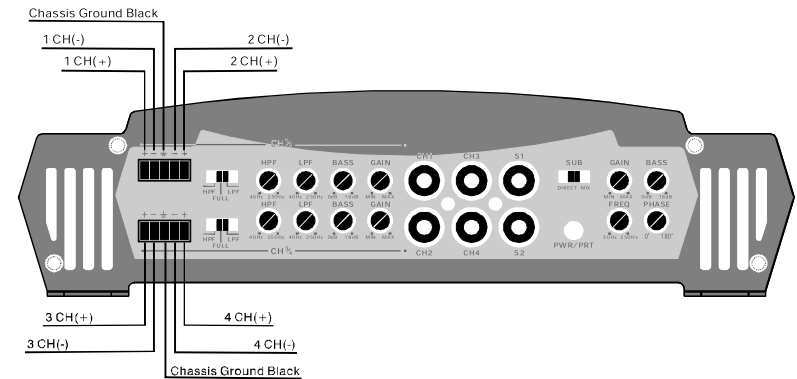


PCA4.250/PCA4.400/PCA4.520



6

PCA5.540



CONNECTING LOW LEVEL INPUTS (RCA JACKS)

Wire routing is critical for noise free performance, observe the following:

1. Always use high quality RCA type shielded cables.
2. Always use the shortest length possible. If the cable is too long make an "S" type loop(not a coiled loop) in the center of the cable to take up any excess.
3. Never cut the shielded cable and re-splice it.
4. Never route any amplifier input cables near or parallel to the speaker outputs, high energy ignition wires, or near computer controlled ignition circuit units (computer units can be found behind or under the dash in late model cars).

POWER INDICATOR LED

This METER LAMP will illuminate when the amplifier is turned on. If it fails to illuminate, check the power(+) connections to the amplifier and the fuses.

PROTECTION CIRCUIT

Should the amplifier be short circuited, overloaded or overheated, the protection circuit will shut down the amplifier.

CAUTION

This amplifier was designed to be used with either 2 Ohm stereo/channel or 4 Ohm each mono bridged channel. In the case of tri-mode operation, use either 8 Ohm stereo channel speakers and 4 Ohm sub or vice versa. See the section Tri-Mode for further information on proper use.

7

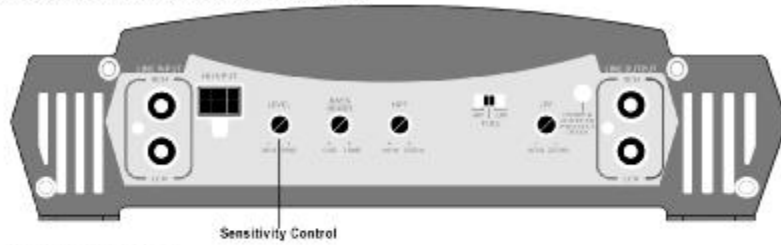
INPUT SENSITIVITY (LEVEL) CONTROL

In order to achieve maximum signal-to-noise performance, this control adjusts the signal level from your car stereo to match the amplifiers sensitivity. It's not a volume control.

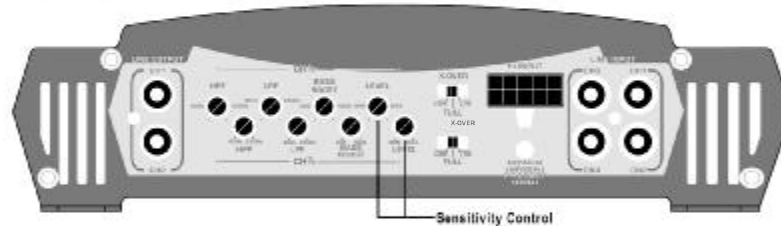
To adjust Input Sensitivity (Level) Control:

- Set input level at Min.
- Set the car stereo volume to 3/4 of the maximum setting
- Slowly increase the input level until audible distortion is heard.
- Turn the level back until the distortion is no longer evident.

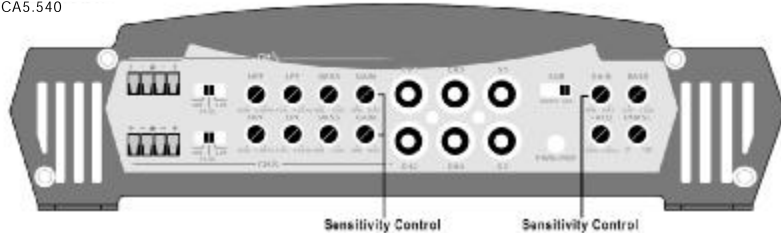
PCA2.130/PCA2.200/PCA2.260/PCA2.360/PCA2.520/PCA2.760



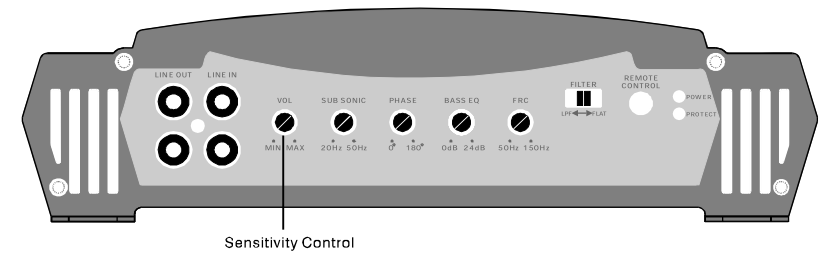
PCA4.260/PCA4.400/PCA4.520



PCA5.540



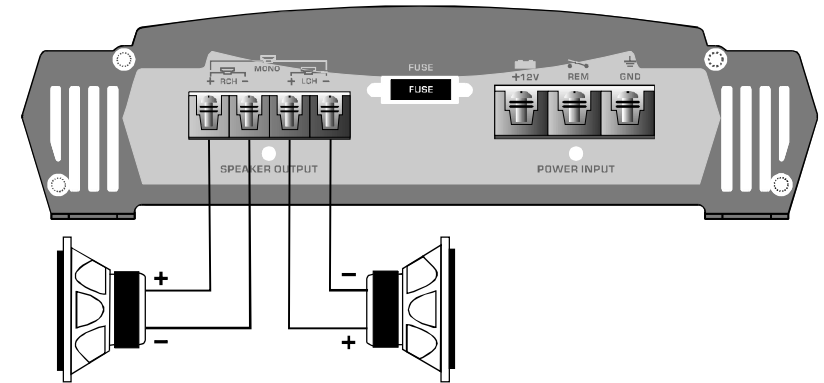
PCA1.350



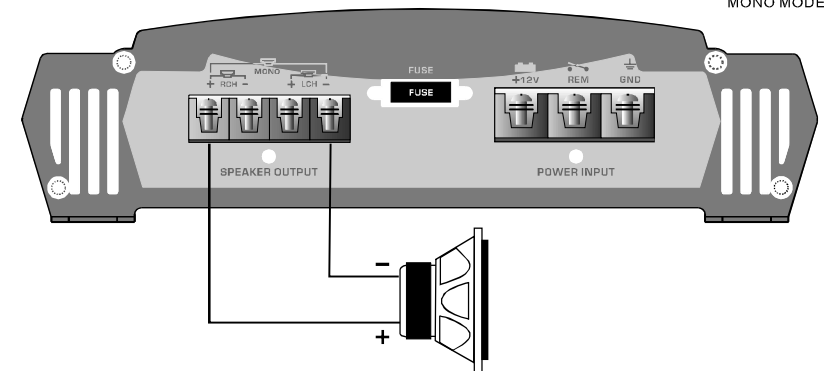
CONNECTING SPEAKERS

PCA2.130/PCA2.200/PCA2.260/PCA2.360/PCA2.520/PCA2.760

STEREO MODE

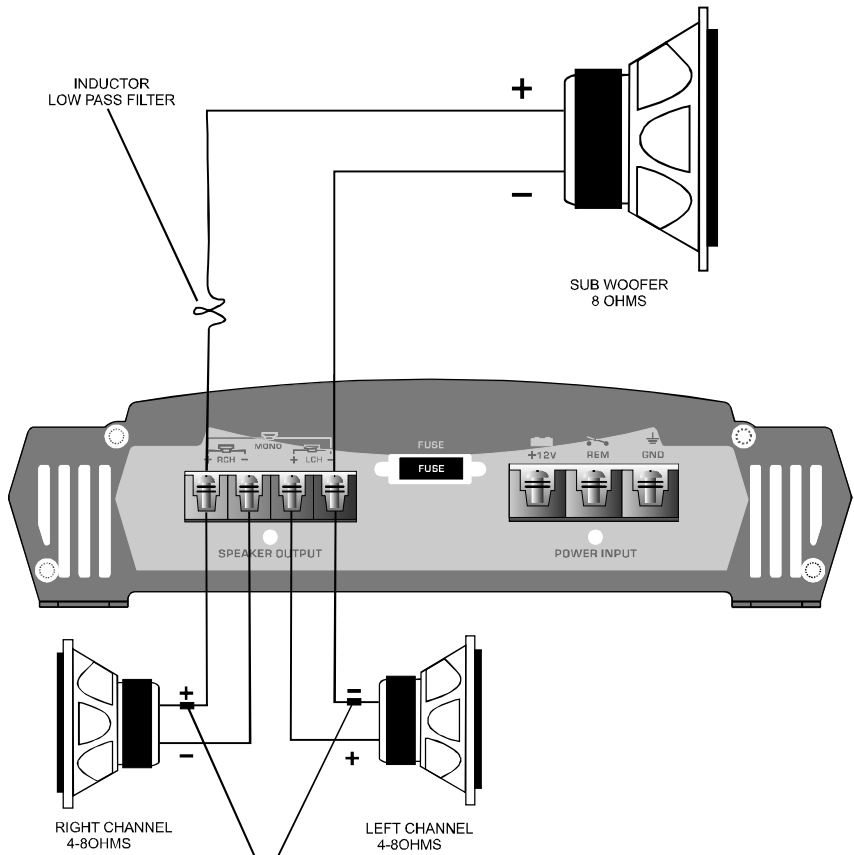


MONO MODE



TRI MODE

TRI MODE OPTIONAL OUTPUT Allows a sub woofer to be operated in mono mode while the main speakers play in stereo. Leave the crossover switch on the FULL position. Use a 100 Volt, non-polar capacitor for a high pass crossover and a wire coil to block high frequencies from the sub woofer as shown in the figure below.

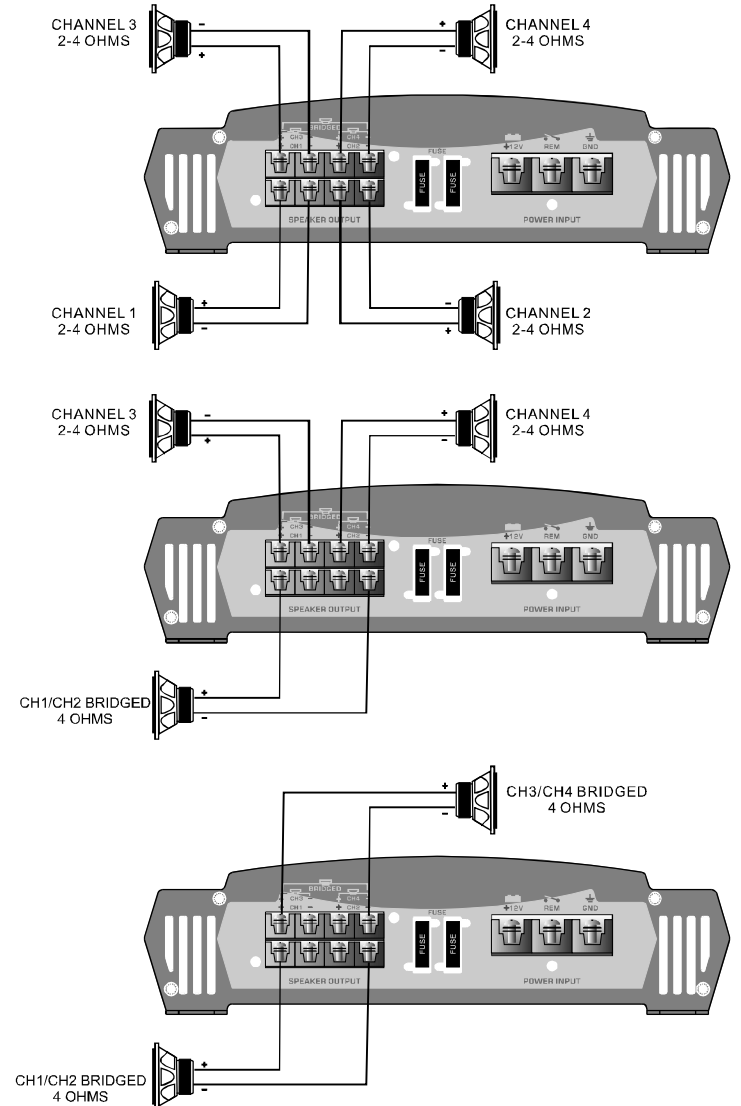


COMPONENT VALUES FOR 6dB PASSIVE CROSSOVER

FREQUENCY	INDUCTOR	CAPACITOR
80Hz	7.5mH	470uF
100Hz	6.5mH	330uF
120Hz	5.5mH	330uF
150Hz	4mH	220uF

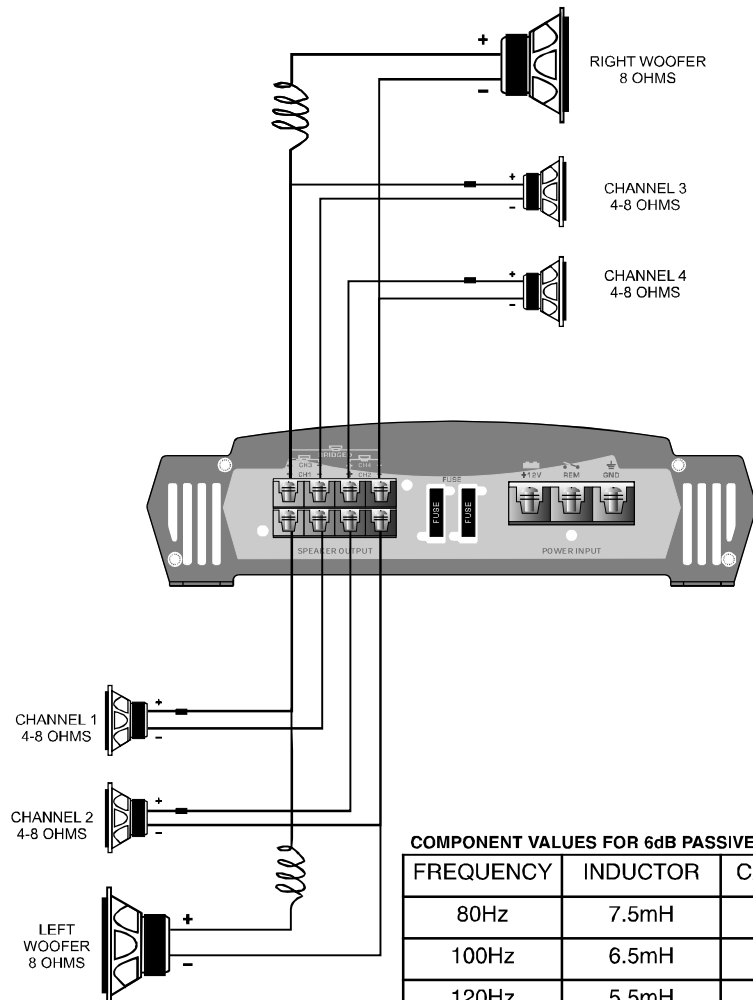
FOUR CHANNEL/THREE CHANNEL/TWO CHANNEL WIRING

PCA4.260/PCA4.400/PCA4.520



FRONT PANEL LAYOUT FOUR CHANNEL INPUTS AND CONTROLS

PCA4.260/PCA4.400/PCA4.520



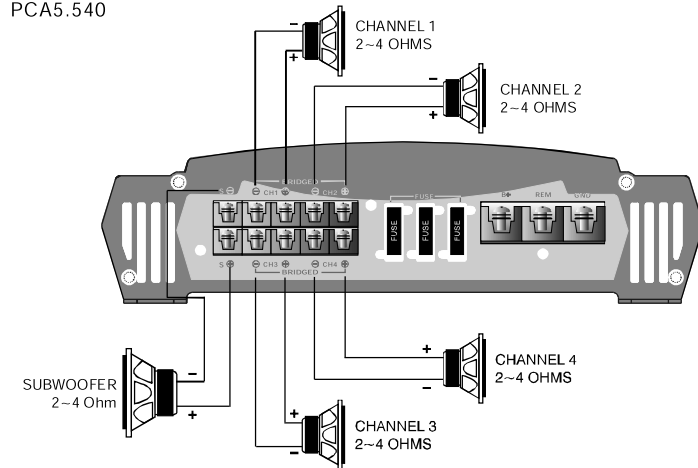
COMPONENT VALUES FOR 6dB PASSIVE CROSSOVER

FREQUENCY	INDUCTOR	CAPACITOR
80Hz	7.5mH	470uF
100Hz	6.5mH	330uF
120Hz	5.5mH	330uF
150Hz	4mH	220uF

12

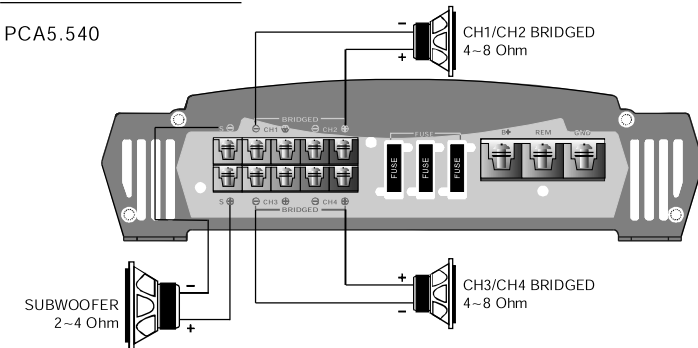
CONNECTING SPEAKERS

PCA5.540



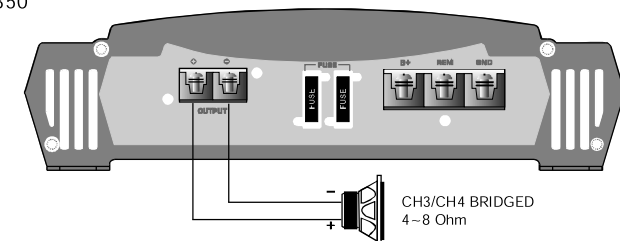
BRIDGED MODE

PCA5.540



MONO BLOCK CONNECTING SPEAKERS

PCA1.350



13

TROUBLE SHOOTING GUIDE

SYMPTOMS	CHECK POINTS	CURE
NO SOUND	Is the power LED illuminated? Is the diagnosis LED illuminated?	Check fuses in the amplifier. Be sure turn-on lead is connected. Check gain control. Check radio volume level. Clean contacts on fuse holder
AMP NOT SWITCHING ON	No power to power wire. No power to remote wire with radio on. Fuse Broken.	Repair power wire connections. Check connections to radio. Check fuse.
NO SOUND ON ONE CHANNEL	Check speaker leads. Check audio leads.	Inspect for short circuit or an open connection. Reverse left and right RCA inputs to determine if it's occurring before the amp.
AMP TURNING OFF MEDIUM/HIGH VOLUME	Check speaker load impedance.	Be sure proper speaker load impedance recommendations are observed.
PROTECTION LED ON RED	Temperature shutdown. Speaker wire short circuit	Turn radio down. Separate speaker wires and insulate.

WARNING

Investigate the layout of your automobile thoroughly before drilling or cutting any holes. Take care when you work near the gas tank, lines or hydraulic brake lines and electrical wiring. Do not mount this system so that the wire connections are unprotected or subjected to pinching or damage from near by objects. The 12 Volt DC positive power must be fused at the battery positive terminal connection. Before making or breaking power connection to the system, disconnect the 12 Volt power wire at the battery. Make sure that the radio is off when making any connections to the system. Only replace the fuse with a fuse of the identical rating supplied with the amplifier. Using a different fuse other than supplied with the amplifier may result in damage to the system that is not covered under warranty.



SOUNDSTREAM[®]

T E C H N O L O G I E S

SOUNDSTREAM TECHNOLOGIES

1550 S. Maple Avenue., Montebello, CA 90640 U.S.A.

Phone 323-724-4600 Fax. 323-722-8125

www.soundstream.com



Notes:

