

Owner's Manual

PB444X

Super Blue

PB446X

PB448X

PB449X

Super Blue



PYRAMID

2 ch amp PB444X • PB446X • PB449X • 4 ch amp PB448X

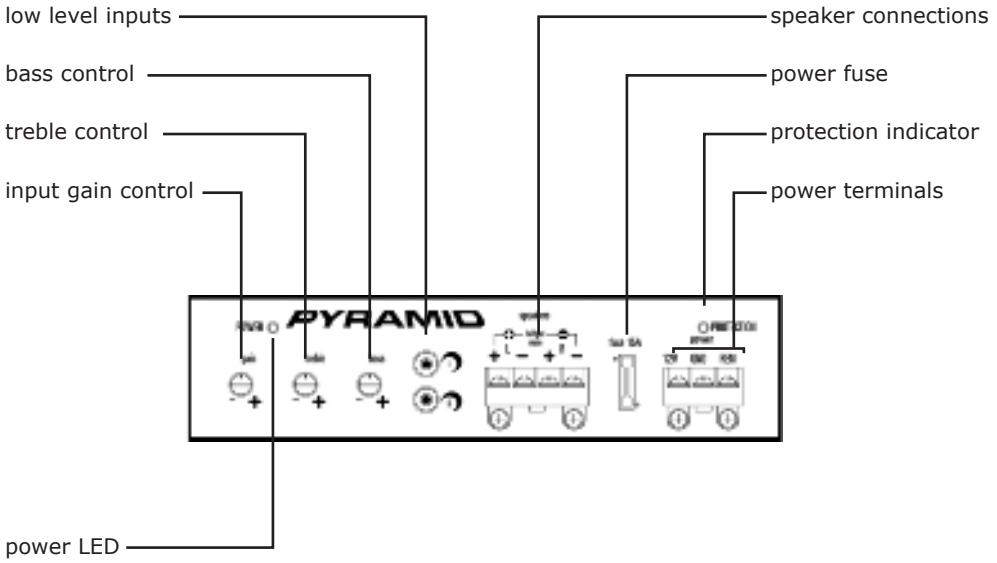
specifications

PB444X **PB446X** **PB448X** **PB449X** 2 ch amplifier 2 ch amplifier 4 ch amplifier 2 ch amplifier

	PB444X 2 ch amplifier	PB446X 2 ch amplifier	PB448X 4 ch amplifier	PB449X 2 ch amplifier
output power @14.4 V.D.C 1 Khz				
Maximum Power Output	200W x 2	300W x 2	250W x 4	500W x 2
RMS Power Output @ 4 ohms	60W x 2	70W x 2	65W x 4	125W x 2
bass/treble control	yes	yes	no	yes
subwoofer crossover	no	no	yes	no
bridged mode	400W x 1	600W x 1	500W x 2	1000W x 1
frequency response	15-30 Khz (+3dB)	10-30 Khz (+3dB)	10-30 Khz (+3dB)	10-30 Khz (+3dB)
input impedance	10 K-Ohms	10 K-Ohms (low) 100 Ohms (high)	20 K-Ohms (low) 100 Ohms (high)	20 K-Ohms (low) 100 Ohms (high)
input sensitivity	150 mV	250 mV (low) 2.5 V (high)	250 mV (low) 2.5 V (high)	250 mV (low) 2.5 V (high)
power supply voltage	DC 14.4V negative ground (10.5-16V)	DC 14.4V negative ground (10.5-16V)	DC 14.4V negative ground (10.5-16V)	DC 14.4V negative ground (10.5-16V)
matching speaker impedance	4-8 Ohms	2-8 Ohms	2-8 Ohms	2-8 Ohms
maximum current draw	15 A	20 A	30 A	30 A
dimensions (W x H x D)				
mm	230 x 59 x 270	307 x 59 x 270	389 x 59 x 270	389 x 59 x 270
inches	9.05 x 2.32 x 10.63	12.09 x 2.32 x 10.63	15.31 x 2.32 x 10.63	15.31 x 2.32 x 10.63
net weight				
kg	2.25	2.95	3.85	3.85
lbs	4.95	6.49	8.47	8.47

2 ch amp PB444X

features and controls



low level inputs this amp features gold-plated RCA input jacks for high impedance input. Use these with car stereo output which uses RCA-type connector cables.

bass control use this control to adjust the bass output level to suit your taste or audio program material.

treble control use this control to adjust the treble output level to suit your taste or audio program material.

input gain control use this control to match the outputs of your head unit to the amplifier. Starting with your head-unit volume control set at about the 2 o'clock position, increase the amp gain control until distortion begins to occur, and reduce slightly from this point.

power LED this indicator is illuminated when power is applied.

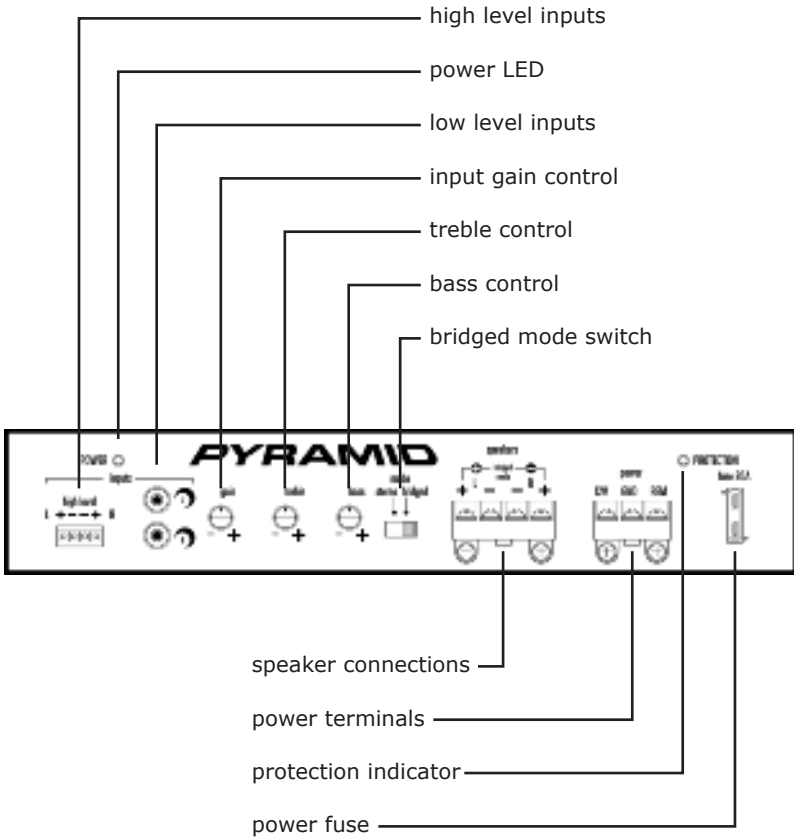
speaker connections these terminals are 14K gold plated to guarantee high conductivity and minimum signal loss.

power fuse the fuse protects the amplifier and your car's electrical system from short circuit conditions.

protection indicator if the amplifier is incorrectly wired or not matched to the speaker system, the protection indicator will come on and the amplifier will turn off. Disconnect the power wire to reset the amplifier.

power terminals use these connectors to deliver power, ground, and remote turn-on control to the amplifier.

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features and controls



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high level inputs if your car stereo does not have RCA output jacks, you can connect the speaker output from the stereo system to the amplifier.

power LED this indicator is illuminated when power is applied.

low level inputs this amp features gold-plated RCA input jacks for high impedance input. Use these with car stereo output which uses RCA-type connector cables.

input gain control use this control to match the outputs of your head unit to the amplifier. Starting with your head unit volume control set at about the 2 o'clock position, increase the amp gain control until distortion begins to occur, and reduce slightly from this point.

treble control use the control to adjust the treble output level to suit your taste or audio program material.

bass control use the control to adjust the bass output level to suit your taste or audio program material.

bridged mode switch the amplifier can be bridged to form a high-power one channel unit. Make sure that the speaker system on the bridged channel is capable of handling the rated power and is of the proper impedance.

speaker connections these terminals are 14K gold plated to guarantee high conductivity and minimum signal loss.

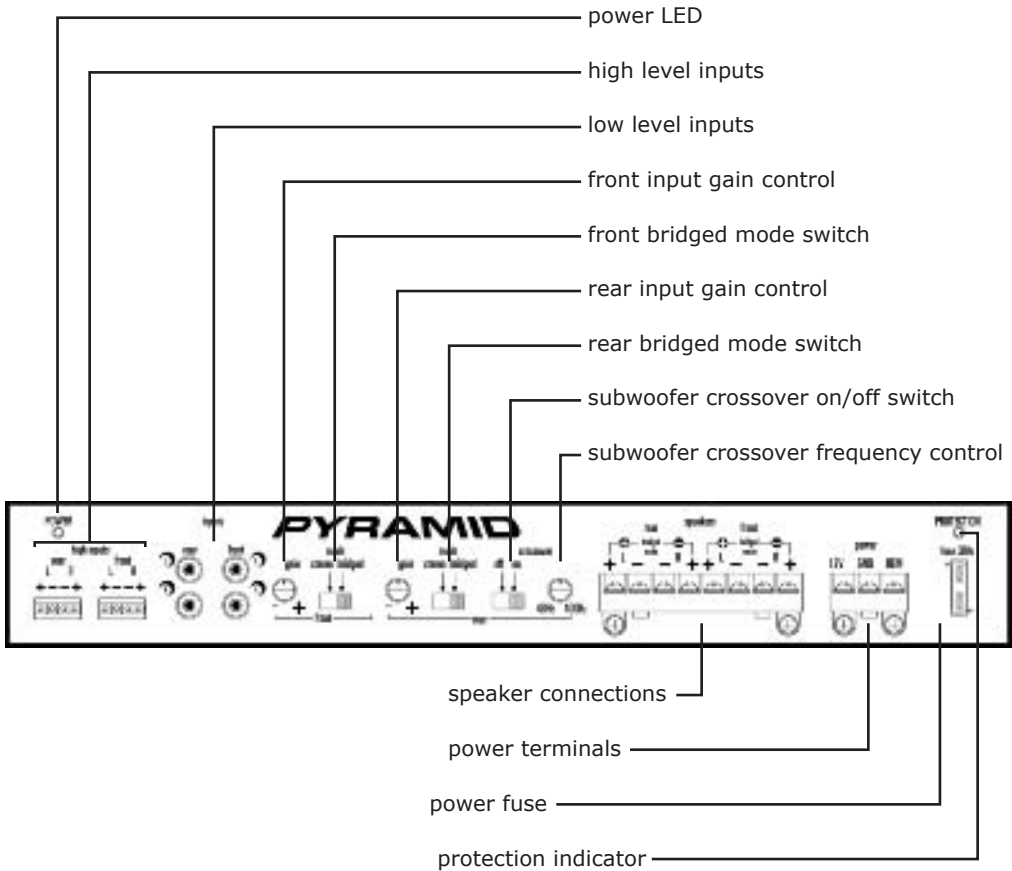
power terminals use these connectors to deliver power, ground, and remote turn-on control to the amplifier.

protection indicator if the amplifier is incorrectly wired or not matched to the speaker system, the protection indicator will come on and the amplifier will turn off. Disconnect the power wire to reset the amplifier.

power fuse the fuse protects the amplifier and your car's electrical system from short circuit conditions.

4 ch amp PB448X

features and controls



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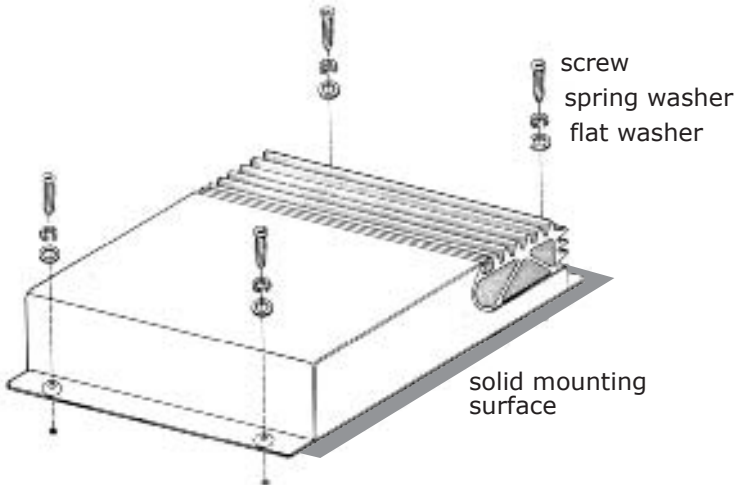
- power LED** this indicator is illuminated when power is applied.
- high level inputs** if your car stereo does not have RCA output jacks, you can connect the speaker output from the stereo system to the amplifier.
- low level inputs** this amp features gold-plated RCA input jacks for high impedance input. Use these with car stereo output which uses RCA-type connector cables.
- input gain controls** use these controls to match the outputs of your head unit to each pair of amplifier inputs. Starting with your head unit volume control set at about the 2 o'clock position, increase the amp gain controls until distortion begins to occur, and reduce slightly from this point.
- bridged mode switch** the amplifier can be bridged to form a high-power two channels unit. Make sure that the speaker system on the bridged channel is capable of handling the rated power and is of the proper impedance.
- subwoofer crossover on/off switch** this flexible amplifier can be set up with left/right (or bridged) rear subwoofer system(s). This switch activate the rear subwoofer crossover.
- subwoofer crossover frequency control** when activated, this control sets the upper frequency limit for signals sent to the rear channel(s).
- speaker connections** these terminals are 14K gold plated to guarantee high conductivity and minimum signal loss.
- power terminals** use these connectors to deliver power, ground, and remote turn-on control to the amplifier.
- power fuse** the fuse protects the amplifier and your car's electrical system from short circuit conditions.
- protection indicator** if the amplifier is incorrectly wired or not matched to the speaker system, the protection indicator will come on and the amplifier will turn off. Disconnect the power wire to reset the amplifier.

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mounting and installation

Please read the Installation Precautions section below before installing your Pyramid Super Blue amplifier, and then refer to the diagrams provided to connect power, audio input and speaker connections according to your own system configuration requirements.

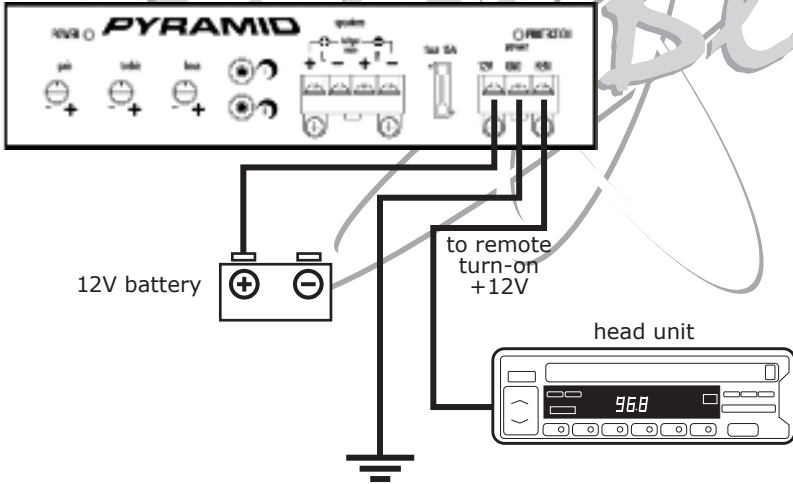
Installation Precautions

- Before you drill or cut any holes, investigate your car's layout very carefully. Take care when you work near the gas tank, fuel lines, hydraulic line and electrical wiring.
- Do not operate the amplifier when it is unmounted. Attach all audio system components securely within the automobile to prevent damage, especially in an accident.
- Do not mount this amplifier so that the wire connections are unprotected or in a pinched condition, or likely to be damaged by nearby objects. Be sure to select a location inside your vehicle which has adequate ventilation.
- Before making or breaking power connections in your system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.
- If you need to replace the power fuse, only replace it with a fuse identical to that supplied with the system. Using a fuse of a different type or rating may result in damage to your system which isn't covered by the manufacturer's warranty.

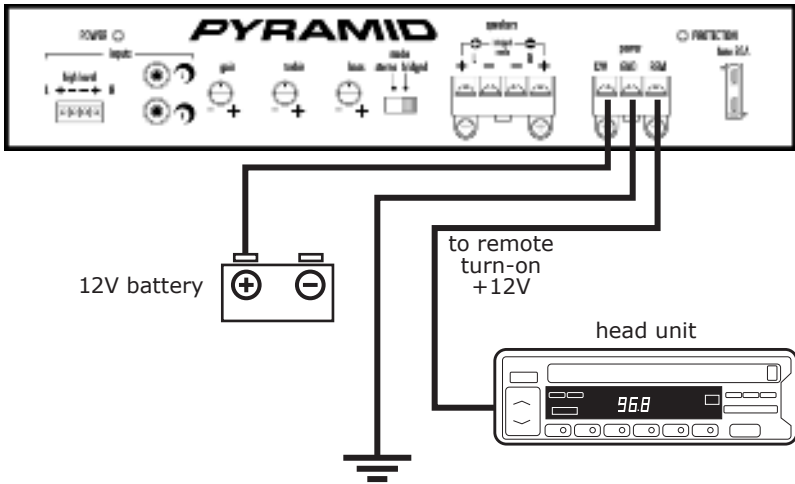


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electrical connections

PB444X



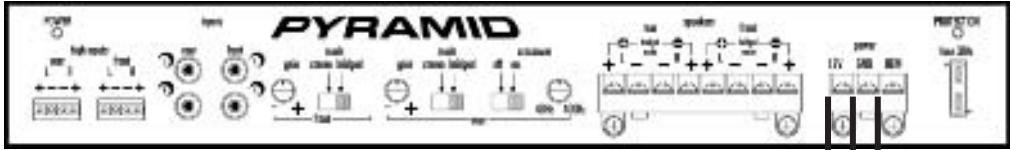
PB446X • PB449X



4 ch amp PB448X

electrical connections

PB448X

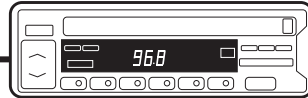


12V battery



to remote
turn-on
+12V

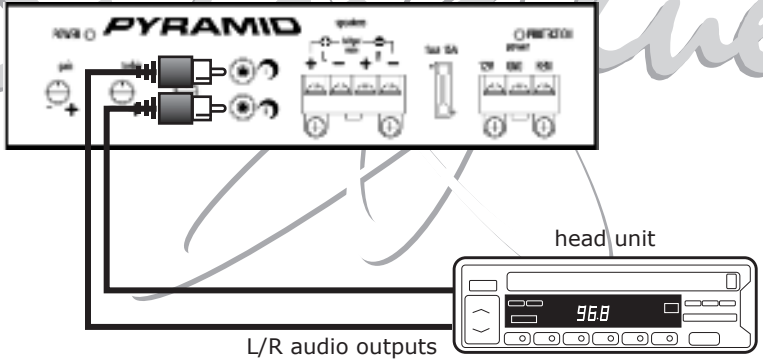
head unit



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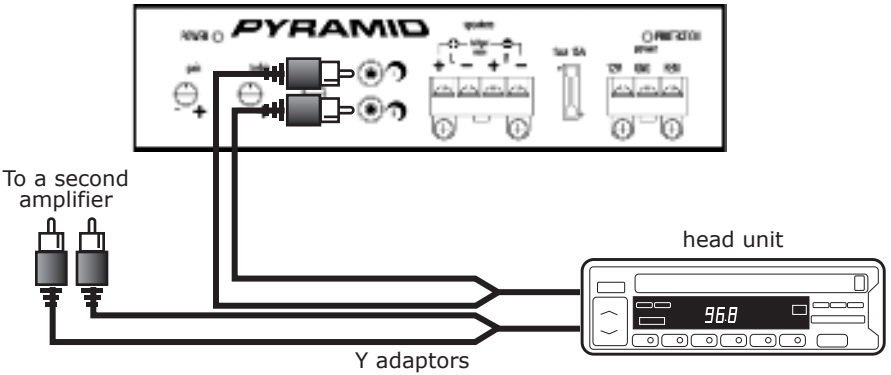
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stereo input connections



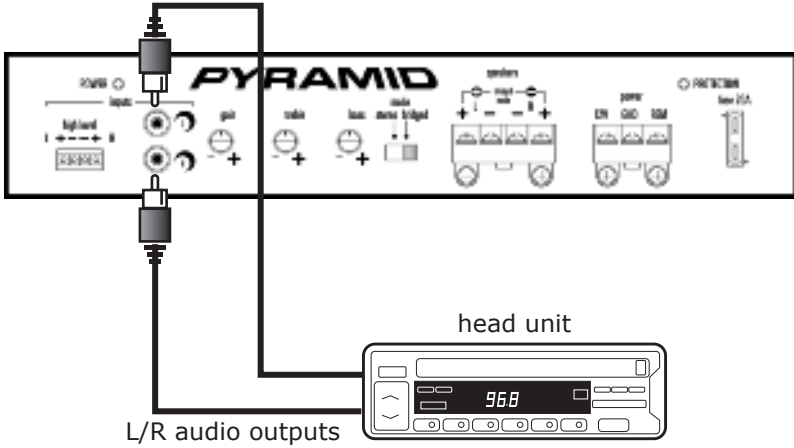
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mono input connections



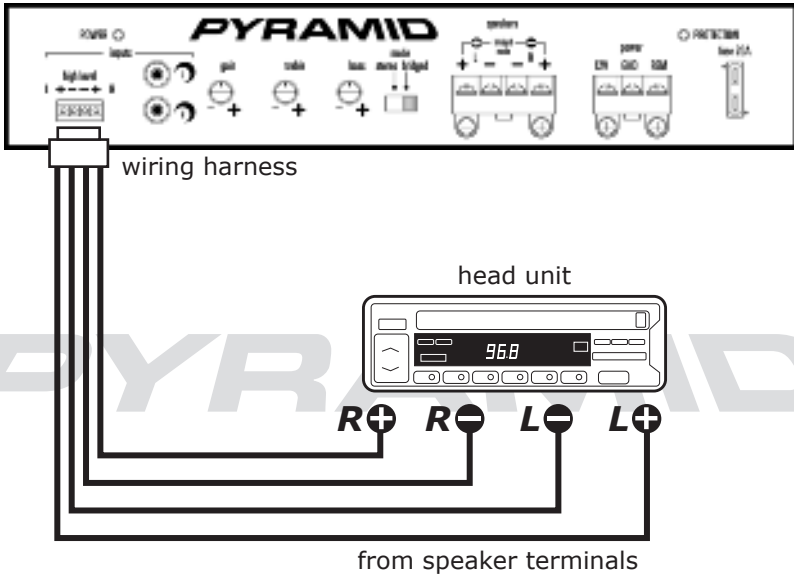
stereo input connections

using low level inputs



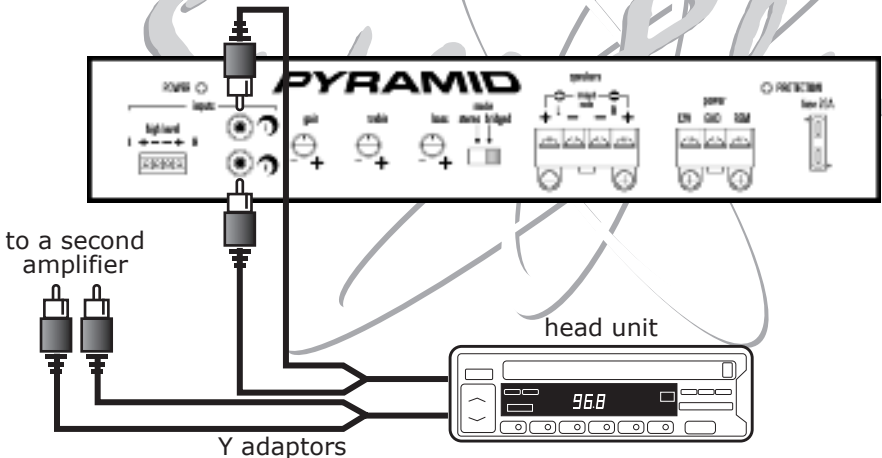
using high level inputs

PLEASE NOTE! If using high level inputs, do not use the low level RCA inputs at the same time!



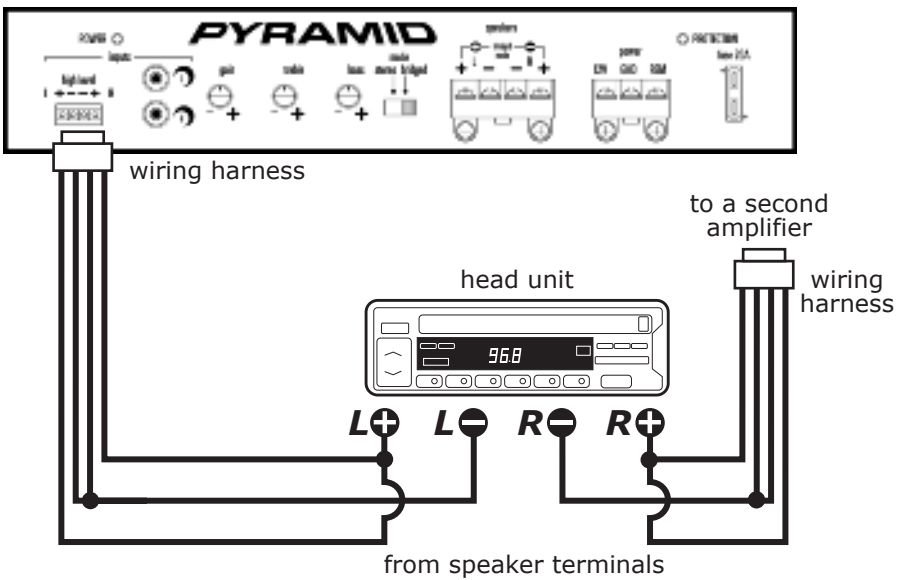
mono input connections

using low level inputs



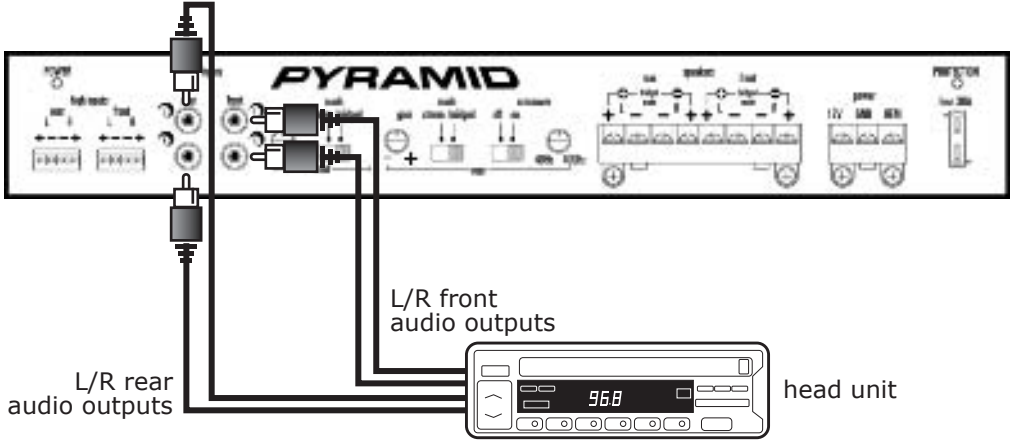
using high level inputs

PLEASE NOTE! If using high level inputs, do not use the low level RCA inputs at the same time!



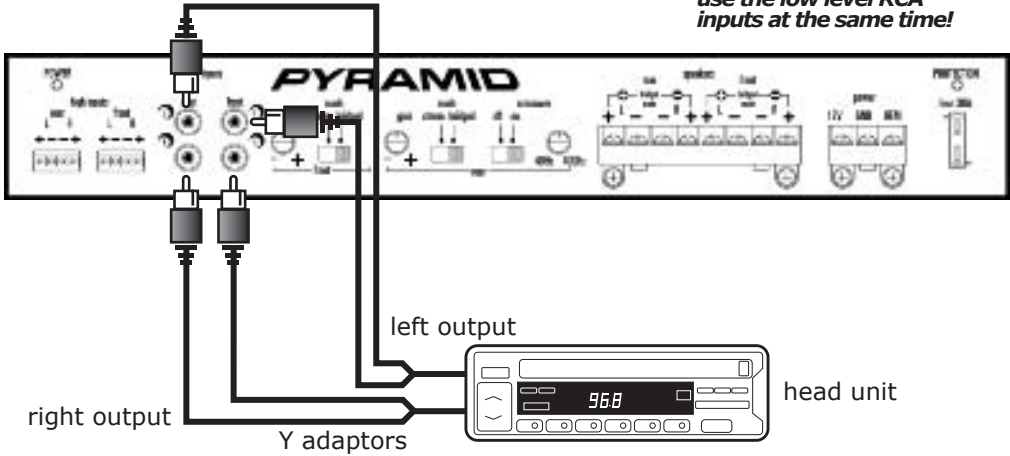
2/4 channel input connections

4 CH input connections using low level inputs



2 CH input connections using low level inputs

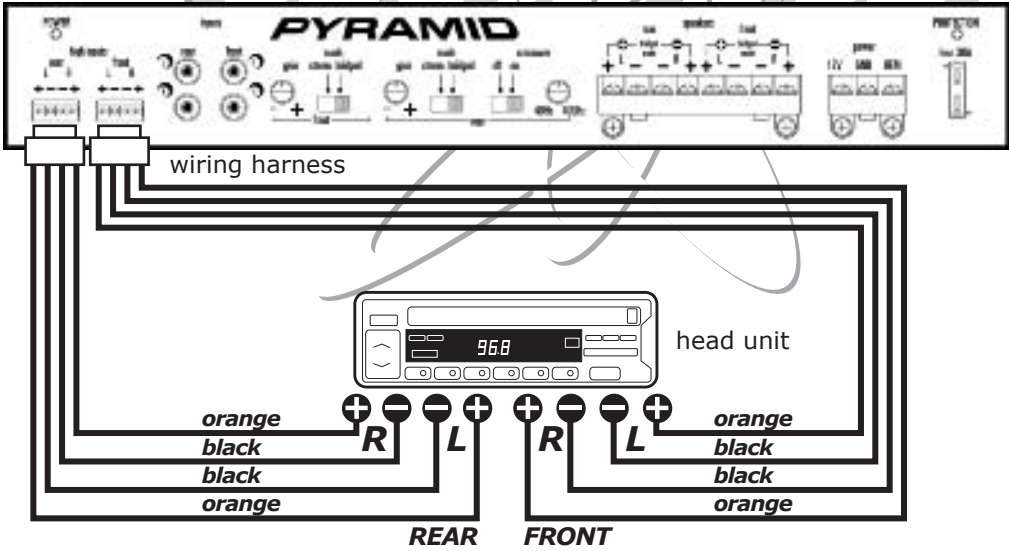
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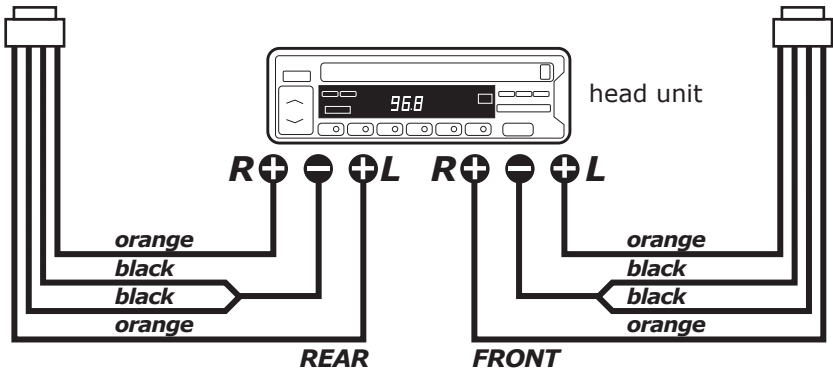
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hi level input connections

4 CH floating ground connection

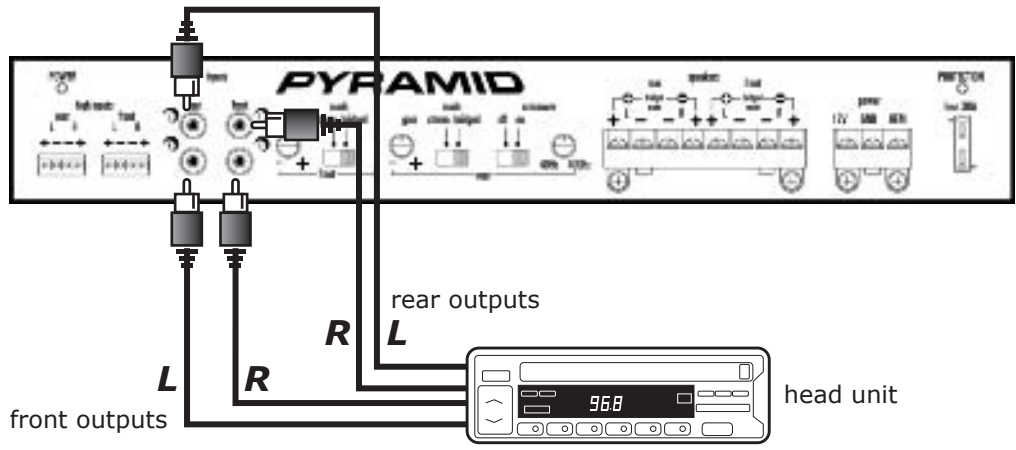


4 CH harness wiring for common ground connection



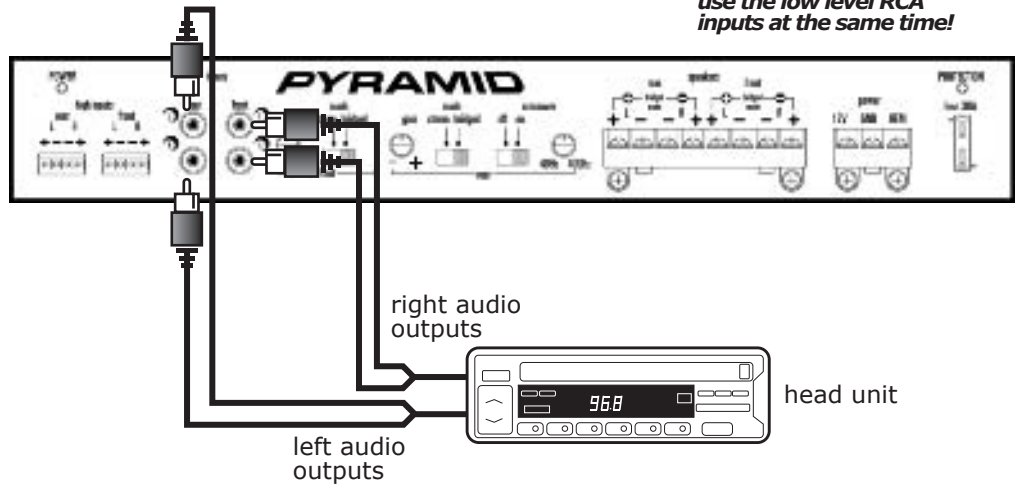
mono input connections

4 CH mono input connections using low level inputs



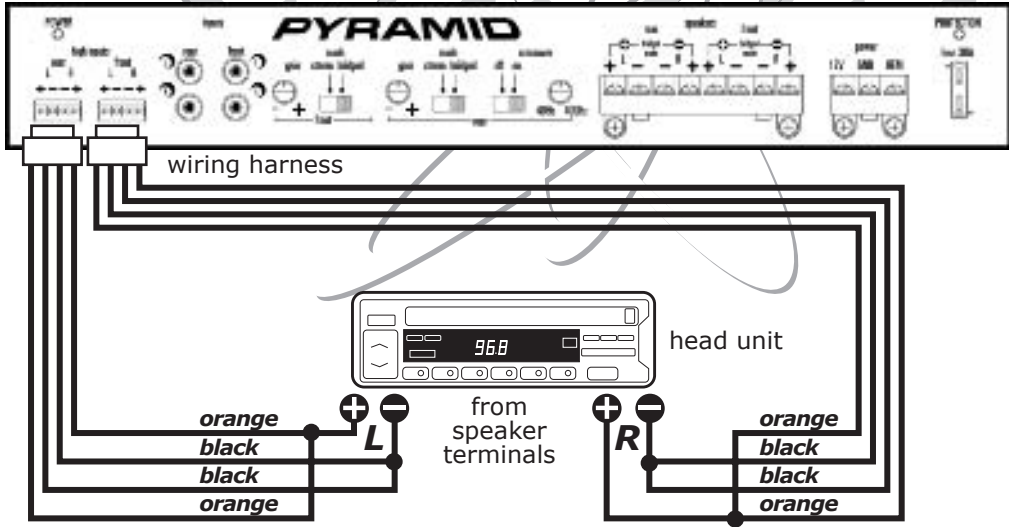
2 CH mono input connections using low level inputs

PLEASE NOTE! If using high level inputs, do not use the low level RCA inputs at the same time!

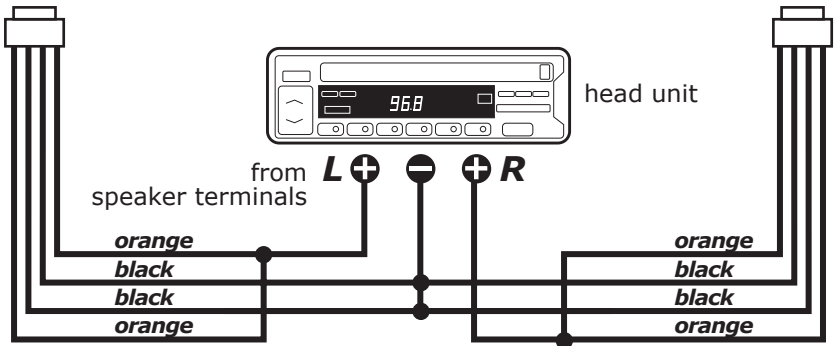


hi level mono input connections

4 CH floating ground connection



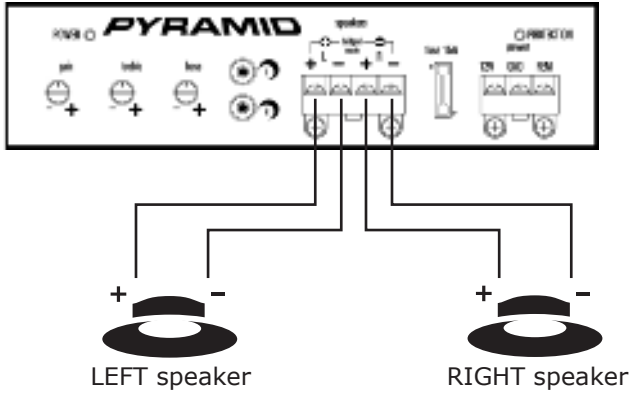
4 CH harness wiring for common ground connection



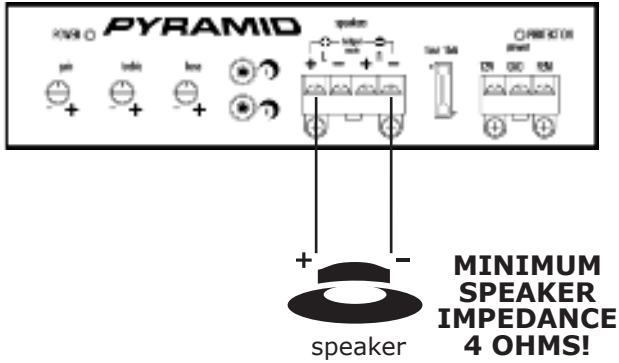
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speaker connections

stereo output mode



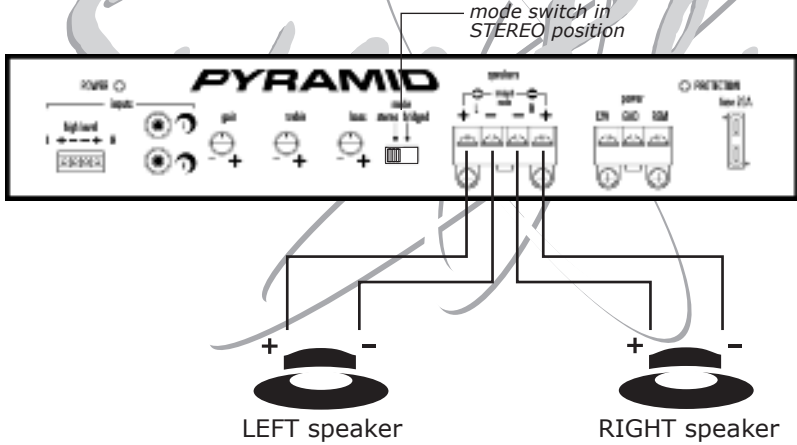
bridged mono output mode



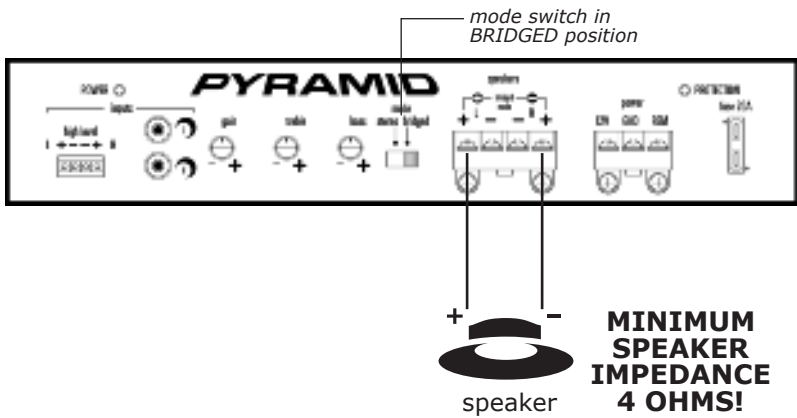
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speaker connections

stereo output mode



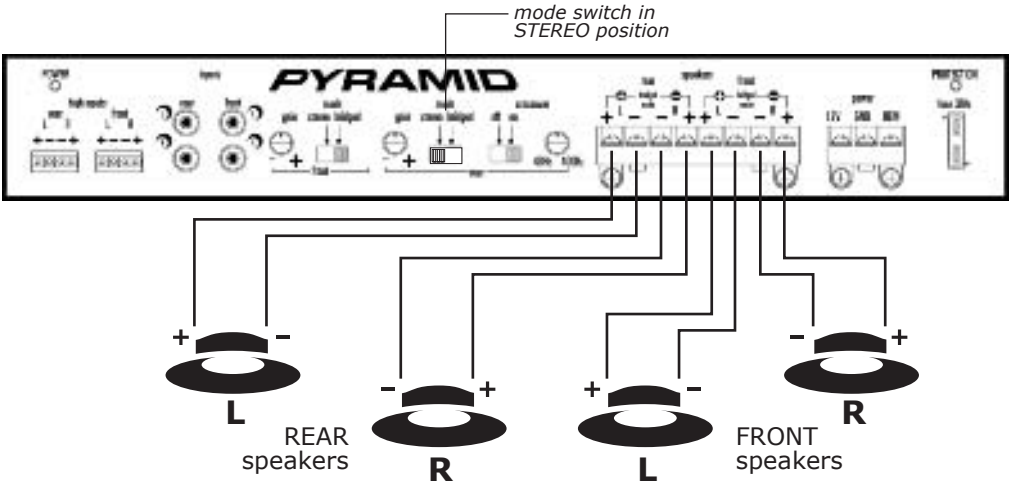
bridged mono output mode



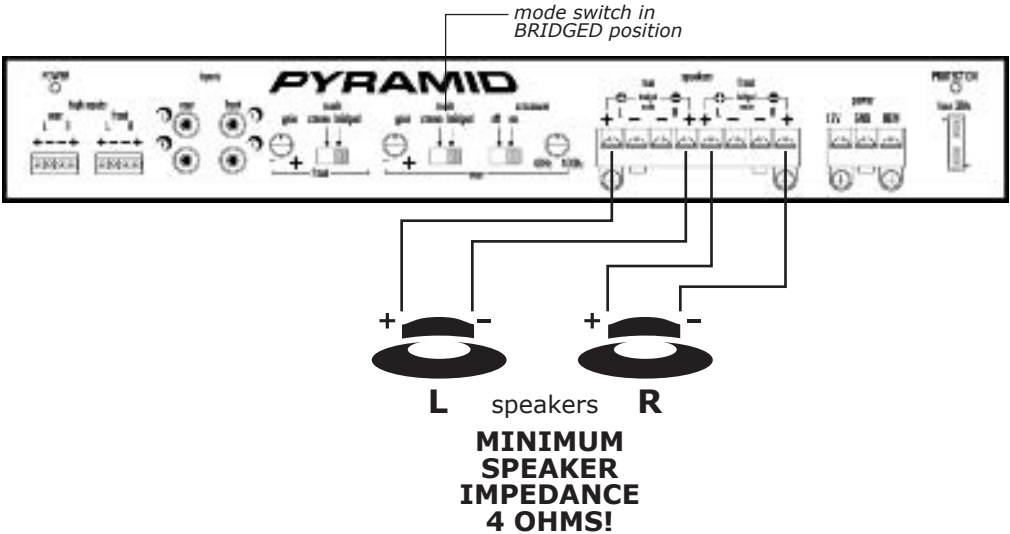
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speaker connections

4 channel (stereo) output mode



bridged mono output mode



troubleshooting

Before removing your amplifier, refer to the list below and follow the suggested procedures. Always test the speakers and their wires first.

Amplifier will not power up.

- Check for good ground connection.
- Check that remote DC terminal has at least +12v DC.
- Check that there is battery power on the + terminal.
- Check all fuses.
- Check that Protection LED is not lit. If it is lit, shut off amplifier briefly and then repower it.

High hiss or engine noise (alternator whine) in speakers.

- Disconnect all RCA inputs to the amplifier(s) – if hiss/noise disappears, then plug in the component driving the amplifier and unplug its inputs. If hiss/noise disappears, go on until the faulty/noisy component is found.
- It is best to set the amplifier's input level as insensitive as possible. The best subjective S/N ratio is obtainable this way. Try to drive as high a signal level from the head unit as possible.

Protection LED comes on when the amplifier is powered up.

- Check for shorts on speaker leads.
- Check that the volume control on the head unit is turned down low.
- Remove speaker leads, and reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty.

Amplifier(s) gets very hot.

- Check that the minimum speaker impedance for that model is correct.
- Check for speaker shorts.
- Check that there is good airflow around the amplifier. In some applications, an external cooling fan may be required.

Distorted sound

- Check that the Level control(s) is set to match the signal level of the head unit.
- Check that all crossover frequencies have been properly set.
- Check for shorts on the speaker leads.

High squeal noise from speakers.

- This is almost always caused by a poorly-grounded RCA patch cord.