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**PLMRA210BT - PLMRA410BT - PLMRA430BT
PLMRA830BT - PLMRA630BT**

Waterproof Bluetooth Amplifier

USER GUIDE

About PyleUSA

Pyle, founded in the 1960s, has evolved into a renowned manufacturer of high-quality advanced woofers. Our journey started with the iconic Pyle Driver, becoming a household name in original speakers. In the late 20th century, we expanded into replacement speakers, car audio, home audio, marine audio, and professional audio & musical instruments with our Pyle Pro line.

Pyle Car:

Transform your car into a perfect listening environment with our competitively priced speakers, amplifiers, and head units. Upgrade from factory speakers to enhance your music experience. Explore accessories like navigation systems, DVD players, iPod interfaces, and safety-focused cameras.

Pyle Home:

Discover a range of home entertainment products, including projectors, TVs, mounts, stands, and HD technology. Pyle Home offers bass-expanding mini speakers, headphones, vintage turntables, power amplifiers, horn speakers, and more for an enriched media experience at home and on the go.

Pyle Pro:

As the leading source of audio equipment worldwide, Pyle Pro caters to musicians, studio engineers, and amateurs. Our PA Systems, featuring wireless microphones, rechargeable batteries, and iPod/iPhone docks, are ideal for various events. Explore our emerging guitar line, effects pedals, and USB-to-analog converters without compromising on quality.

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READ ALL INSTRUCTIONS CAREFULLY BEFORE USING THIS PRODUCT.

RETAIN THIS OWNER'S MANUAL FOR FUTURE REFERENCE.

California Prop 65 Warning



This product may expose you to chemicals, which is known to the state of California to cause cancer, birth defects and other reproductive harm. Do not ingest.

For more info go to: www.P65warnings.ca.gov

Warnings

- **Read and keep these instructions for future reference.**
- Carefully follow instructions and adhere to the given directions.
- Keep the amplifier dry as liquids may contain minerals that corrode electronic circuitry.
- Clean the amplifier housing only with a slightly damp cloth.
Avoid using chemicals or solutions.
- Do not block any ventilation openings. Install following the manufacturer's instructions.
- Do not install near heat sources like radiators, stoves, or other heat-producing electrical devices.
- Prevent cables, wires, or power cords from being walked on, bent, stretched, or pinched, especially at the plug or where they connect to the amplifier.
- When uncertain about specifications, consult the Pyle Audio website and refer to FAQs.
- Ensure the unit is placed on a stable, flat surface that can support its weight.
- Unplug the unit during lightning storms or when unused for an extended period.
- Do not leave the device unattended when powered on.
- Refer all servicing to qualified personnel if the unit is damaged or malfunctions. This includes damage to the power supply cord or plug.
- If the unit may undergo excess vibration during use, ensure proper and secure installation. Damage caused by insufficient support is not covered by the warranty.

If the unit is subjected to excessive vibration during use, it must be securely installed. Damage resulting from insufficient support is not covered by the warranty. To safeguard the unit's panels and prevent damage, always use protective plastic cups or washers before tightening mounting bolts.



Service for your amplifier can be obtained from an authorized Pyle Audio service center. To initiate the process, contact Pyle Audio with your proof of purchase (receipt) along with the defective unit. Upon instructions from Pyle Audio, send or deliver the malfunctioning unit to an authorized service center. Ensure to transport the unit in its original factory packaging.

Important Note: Users must prevent any type of smoke and related substances from entering the amplifier. Smoke-laden air is corrosive, and prolonged exposure can cause irreparable damage to your amplifier. Take precautions before reconnecting the unit to a power supply. Additionally, be aware that when moving equipment from a cold to a humid location, condensation may occur inside. Always allow time for the equipment to reach the same temperature as its environment before reconnecting to a power supply.

Testing & Connections

After completing all the connections, power on your stereo and listen for the amplifier to activate. If you notice any unusual noises emanating from the speakers, promptly turn the system off and double-check all the wiring.

Once you've linked your radio or equalizer to the amplifier, you can fine-tune the gain control to match the output level of your radio:

- A. Set the volume control on your radio to the 2/3 position.
- B. Adjust the gain control for an average listening level.
- C. Turn the radio volume all the way down and listen for any background noise.
- D. Start your vehicle and listen for electrical noise.
- E. Make minor adjustments to the sensitivity to minimize background noise and address some engine noise.
- F. **CAUTION:** Avoid turning the sensitivity up beyond what is necessary for clear sound at 2/3 volume.
- G. This adjustment is a one-time process.

NOTE: *Exercise caution to prevent battery over-discharge, especially during prolonged operation at high sound levels when the engine is not running or idling.*

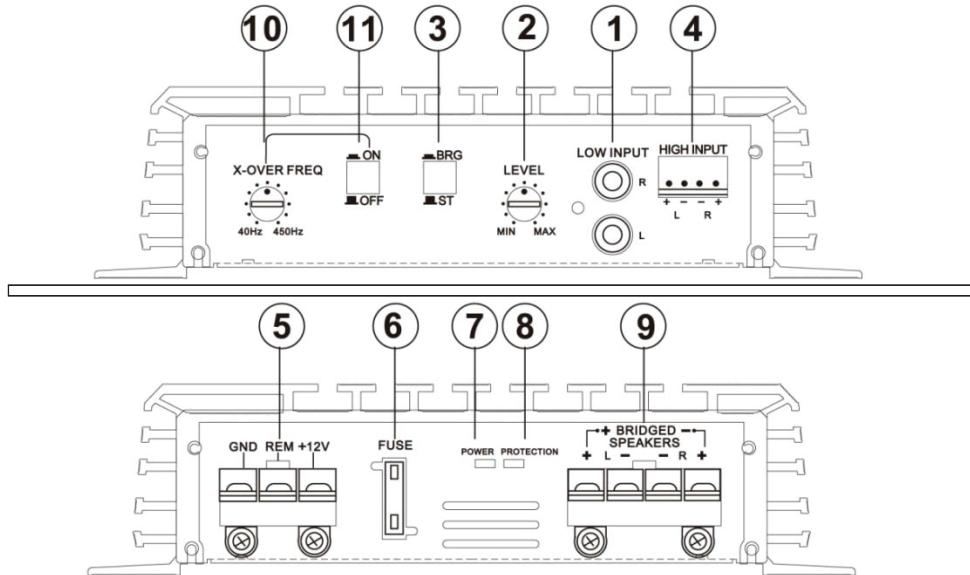
Maintenance

To ensure the longevity and optimal performance of your amplifier, follow these maintenance guidelines:

1. **Keep the amplifier dry.** If it gets wet, promptly wipe it dry to prevent corrosion of electronic circuits.
2. Use the amplifier in normal temperature environments. Extreme heat or cold can impact electronic devices and may cause damage.
3. Handle the amplifier with care to avoid dropping, which can lead to damage to circuit boards and cases, resulting in improper functioning.
4. Keep the amplifier away from dust and dirt to prevent premature wear of parts.
5. Occasionally wipe the amplifier with a damp cloth for a fresh appearance. Avoid using harsh chemicals, cleaning solvents, or strong detergents.

After completing all connections, power on your stereo and listen for the amplifier to activate. If you hear any unusual noises from the speakers, turn off the system and double-check all wiring connections.

PLMRA210BT - System Layout



PLMRA210BT

- 1. RCA (Low Level Input):** The unit is equipped with RCA input jacks. Connect the RCA input with the car stereo or equalizer outputs using RCA type connector cables.
- 2. Input Gain Control:** These are not your amplifier's volume controls. They are a sophisticated device to be utilized when matching the input signal of your head unit or equalizer to the amplifier.
- 3. Bridging Capability:** The amplifier can be bridged to a high-power single-channel unit. Ensure that you have a speaker or series of speakers connected to the bridged setup capable of handling at least 200 Watts of RMS power.
- 4. Speaker Connectors (High level Input):** This unit is equipped with terminal inputs. Connect the terminals to a standard car stereo output system, whether it's a common ground or floating ground type originally outputting to speakers. Connect the speaker wires of the car stereo to the "L-" (Left) and "R-" (Right) terminals, respectively.
If the car stereo has only three wires, connect the "COMMON" wire to both "L" and "R" inputs of the amplifier.
- 5. Power Supply Terminal:** Connect the +12V DC power supply to the terminal using lugs and screws accessible at the panel of this amplifier.
BATT +12V: Connect the +12V DC power supply wire to the terminal from the terminal of the fuse at the battery. (Fuse preferably installed within 1 foot from the battery).
GROUND: Connect the ground wire to the chassis of the automobile, boat, or other vehicle at the ground terminal.
REMOTE: Connect the control wire, which provides remote turn-on and power off, to the remote terminal.
- 6. Power on LED:** When the amplifier is properly grounded, has a proper power supply, and is receiving its remote power signal, the green LED will light up, indicating that the power conditions are correct.
- 7. Protection LED:** The illuminated indicator signals that the built-in protection circuitry is activated.
- 8. Power Fuse:** The power fuse serves to protect both the amplifier and the automobile's electrical system from incorrect electrical conditions.

9. Speaker Terminals: The speaker terminals are silver-plated for high conductivity and minimal impedance loss. Ensure that you strip just enough insulation off your speaker wires to fit under the screw plate, preventing speaker wire short circuits.

The amplifier can support an impedance load as low as 2 ohms per channel or 4 ohms in bridged mode. However, using a 4-ohm stereo load and an 8-ohm bridge load will significantly increase the life expectancy of the amplifier.

10. Crossover Frequency Unit: This feature allows you to adjust the crossover frequency for both channels within the range of 40-450 Hz.

11. Crossover ON/OFF Switch: This feature provides the option to operate the amplifier at full range or to utilize the built-in crossover.

The Pyle Elite Series Amps offer a range of options and configurations that differ among the various models in the amplifier line. For detailed information on amplifier connection options and features specific to your model, refer to the product's specific model number.

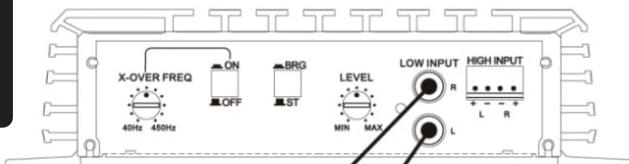
Additionally, you can find detailed specifications and more information by visiting the manufacturer's website online.

Stereo Input Connection

RCA Type Terminals

High Impedance

Low Level Inputs

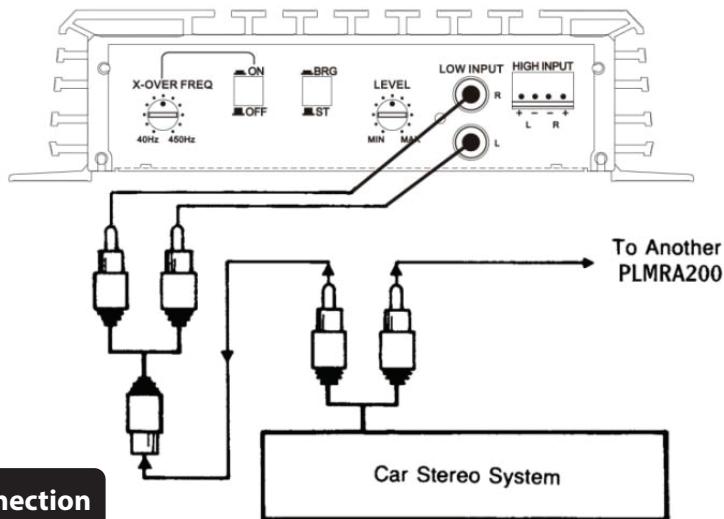


Visit www.PyleAudio.com for detailed model information, specific model wiring and connection ability.



Stereo Input Connection - RCA Type

The Elite Series Amps are equipped with plated RCA terminals designed for low-level input connections. To connect to radios and equalizers with line-level output, use RCA-type connector cables. Couple the RCA input on the amplifier with the car stereo or equalizer output using these cables for proper integration.



Mono Input Connection

RCA Type Terminals

Bridge-Ability

***Not available on all**

PLMRA amp models.

Mono Input Connection - RCA Type

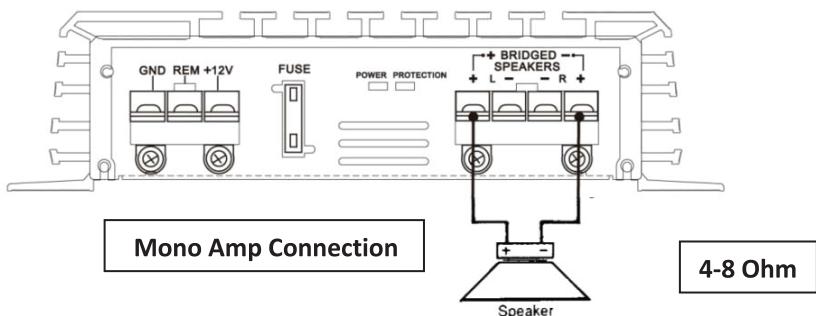
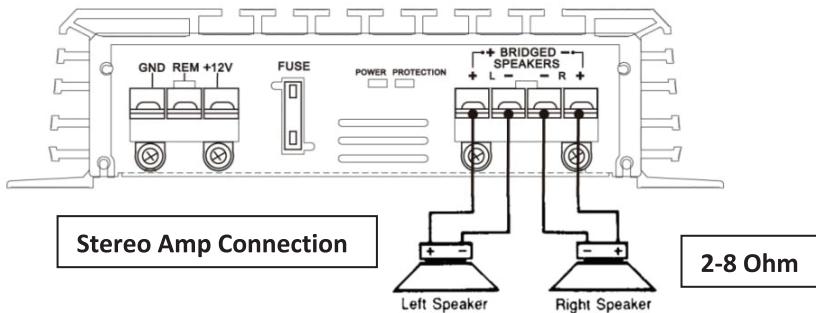
For Mono Input Connection in the Elite Series Amps, some models allow easy bridging for mono operation by feeding the same signal to both LEFT and RIGHT Input terminals. To achieve this, use a Y-adaptor to connect your car stereo output to both input terminals.

Speaker Connection - Stereo Amp System

Connect the output terminals to the corresponding LEFT and RIGHT Speakers. (Fig. 1 below shows a pair of speakers connected in stereo)

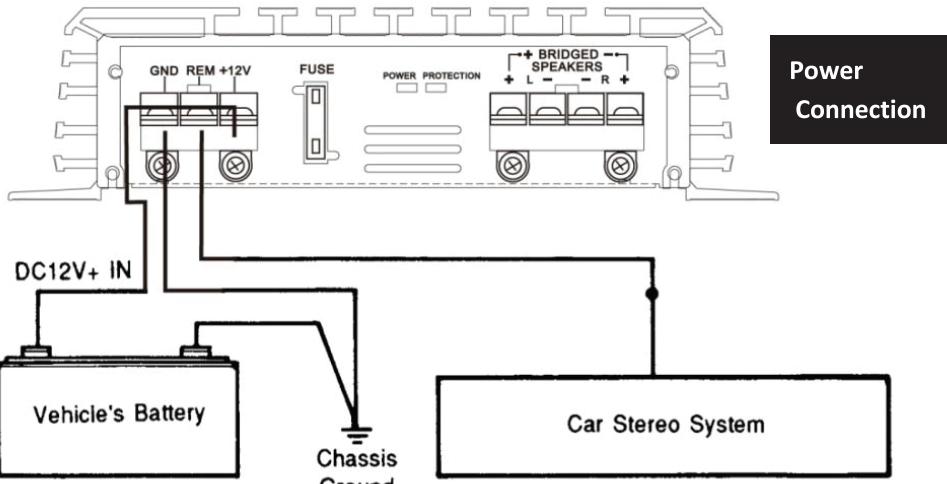
Speaker Connection - Mono Amp System:

Select Elite Series Amps can be bridged from a 2-channel amplifier to a one-channel amplifier. The ideal speaker impedance for optimum operation is 4 ohms. The amplifier will provide stable operation within the range of 2 to 8 ohms loads. The minimum recommended speaker load is 2 ohms for each channel in normal operation. When operating in the bridged mode, the minimum recommended speaker load is 4 ohms for each bridged channel. Operating the amplifier below this impedance load can cause damage to both the amplifier and your speakers, voiding your warranty.



In bridged mode on the Elite Series Amps, the speaker negative terminals on the amplifier are not used. Bridging involves using multiple channels of an amplifier to drive a common load, meaning you use more than one source of power to drive a speaker. In this configuration, the negative terminals for each channel are not utilized.

Users should avoid setting the gain to maximum automatically, as it can increase the risk of damaging the amplifier. Properly matching the signals is crucial. High signal levels coming into the amplifier can make the system sensitive to noise conditions. Follow the instructions in the manual to match the system levels correctly and prevent issues.



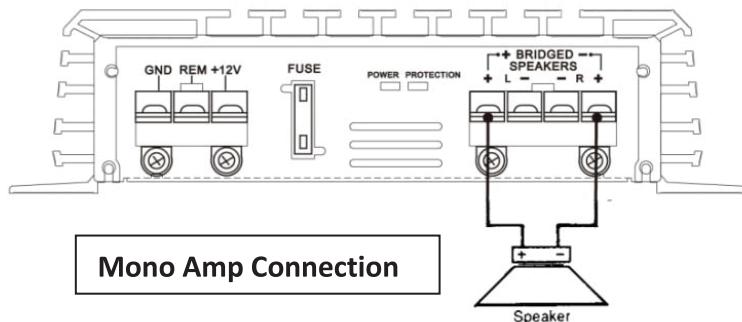
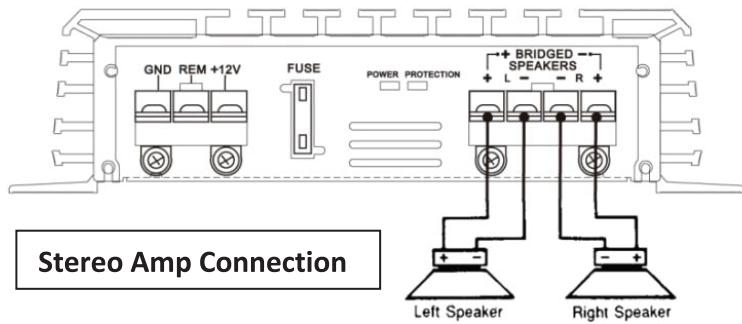
Power Connection for Elite Series Amps

1. Connect the +12V (positive) of the amp to your vehicle's battery.
2. Connect the GND (ground) of the amp to your vehicle's battery (-) and ensure proper grounding.
3. For additional reinforcement, add another connection of gauged wire from the (-) negative battery terminal to the chassis of the stereo unit.
4. Connect the 'Remote' of the amp to your vehicle's external switch for a positive 12V ON/OFF connection.
This can be connected to the receiver power antenna lead (Amp turn on), typically blue in color.

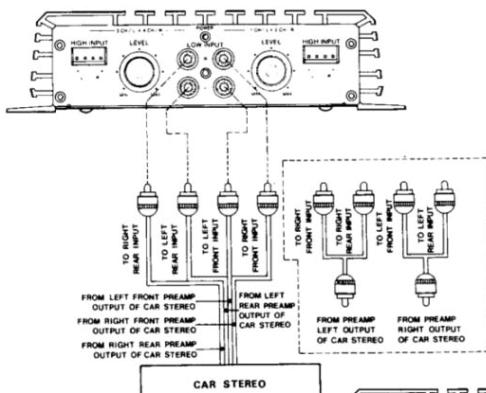
Always refer to the specific model information and connection abilities for detailed instructions. Models mentioned: PLMRA210BT, PLMRA410BT, PLMRA430BT, PLMRA630BT, PLMRA830BT.

Visit the official Pyle website for more information.

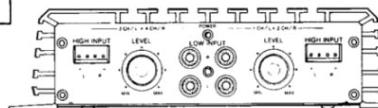
PLMRA210BT - Wiring



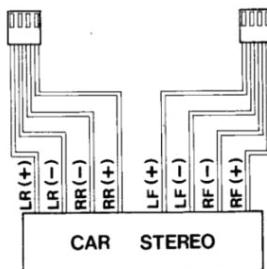
PLMRA410BT - Wiring



Stereo Input Connection
RCA Input



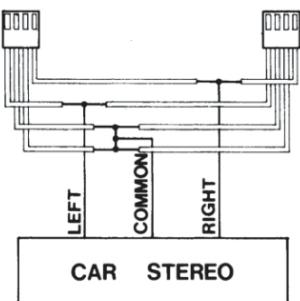
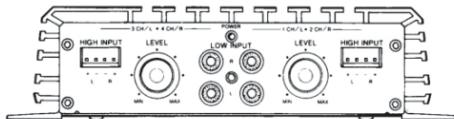
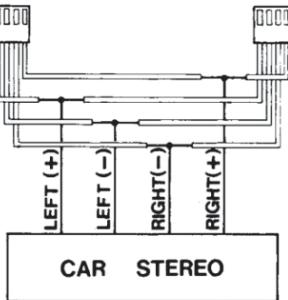
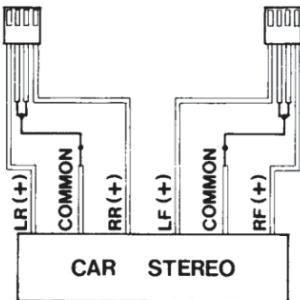
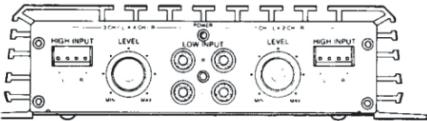
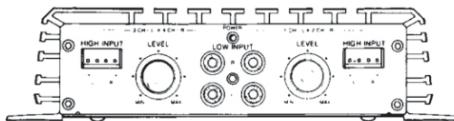
**High Level - Speaker Level
(BTL or Common Ground)**
Four Speaker Output Mode
Floating Ground Type



PLMRA410BT - Wiring

Common Ground Type

Two Speaker Output Mode Floating Ground Type

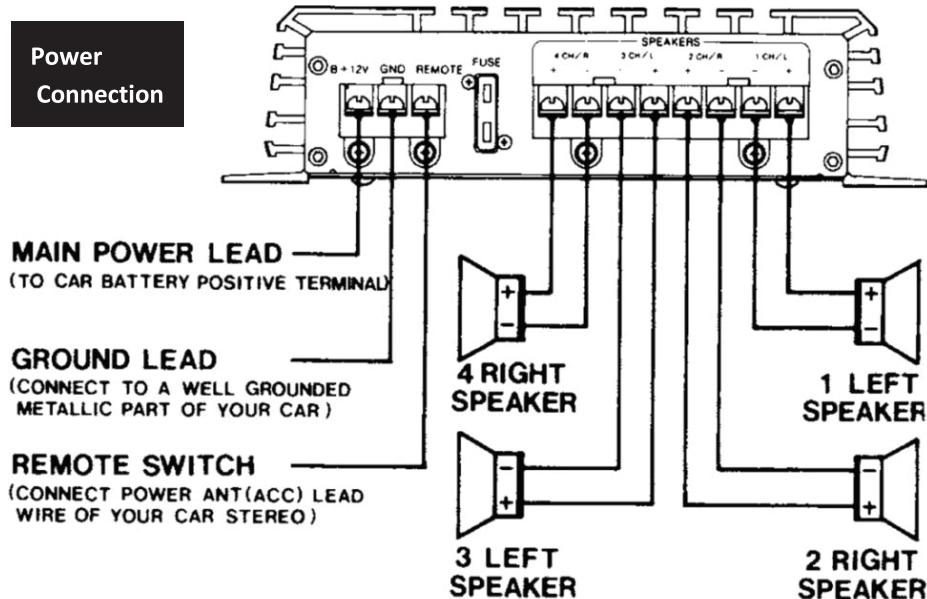


*High and Low impedance inputs
cannot be used at the same time.

Note:

Elite Series Amps come with built-in short circuit protection. If you accidentally connect any speaker wires to ground, or if positive power (+) and (-) wires short together, the protection circuit will operate automatically and cut off the output. In such a case, you must switch off the entire system immediately, double-check speaker wire connections and isolation, and then switch on the amplifier again.

PLMRA410BT - Wiring



Connect the speaker output terminals to the corresponding speakers.

The speakers must be high quality and capable of handling high power.

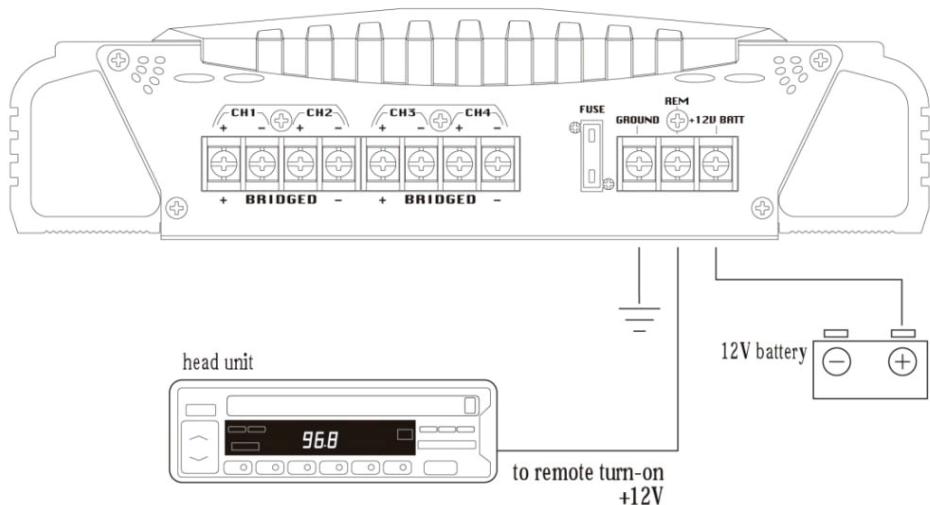
Separated return paths and strong wires are required.

1. Connect the +12V pole of the power supply directly to the battery (+) position terminal (In-line fuse 1 foot from battery).
2. Connect the GND pole of the power supply directly to the (-) negative ground battery terminal or vehicle chassis.
3. To make good grounding and prevent motor boating noise problems, connect another 12-gauge minimum wire from the (-) negative battery terminal to the chassis of the stereo unit.
4. Connect the 'Remote' pole to an external switch for positive 12V ON/OFF. This may be connected to the receiver power antenna lead.

PLMRA430BT - Wiring

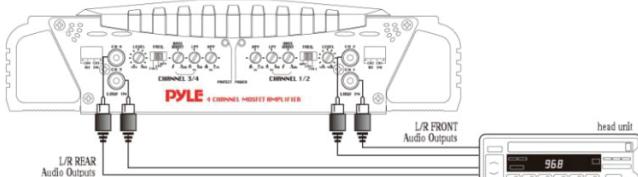


Power Connection

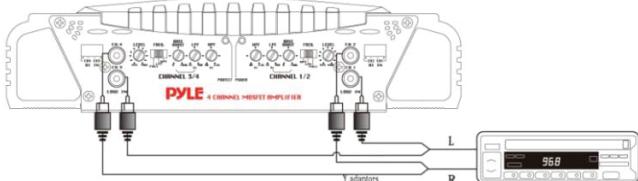


PLMRA430BT - Wiring

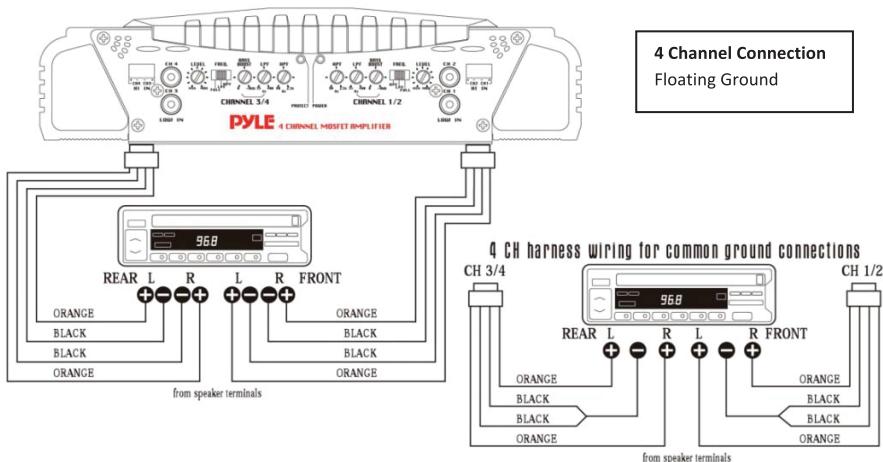
4 Channel Input Connection Low Level Inputs



2 Channel Input Connection Low Level Inputs



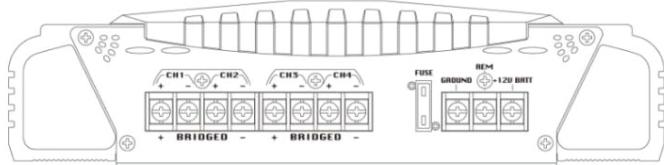
High Level Wiring



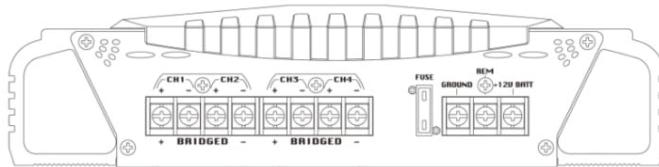
Visit www.PyleAudio.com for detailed model information, specific model wiring and connection ability.

PLMRA430BT - Wiring

4 Channel Output Mode



Bridged Dual Mono Output Mode



Bridged Dual Mono Output

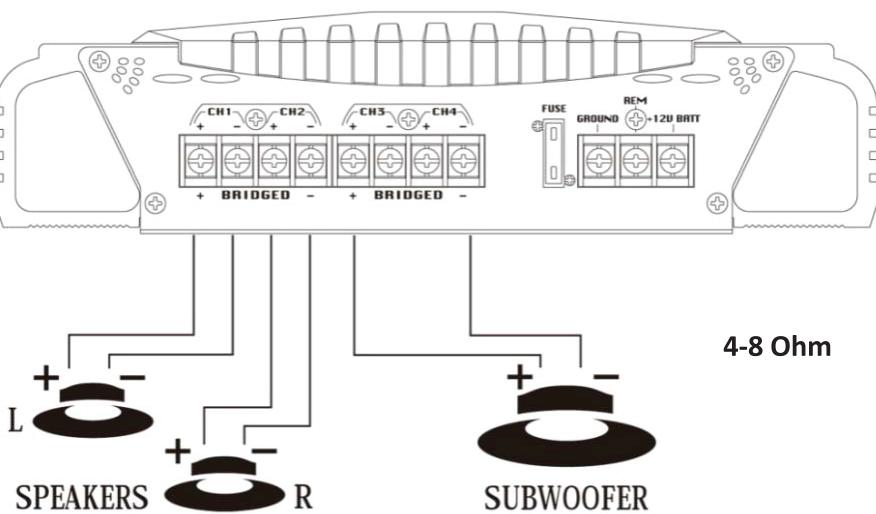
2-8 Ohm

speakers

L

R

4 Channel Stereo Output Mode with Mono Bridged Subwoofer Output



4-8 Ohm

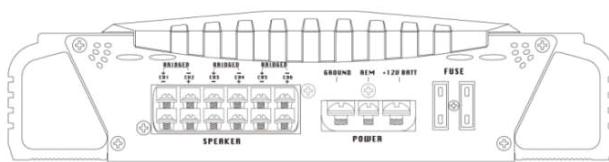
L

R

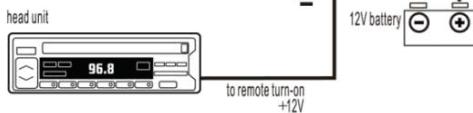
SPEAKERS

SUBWOOFER

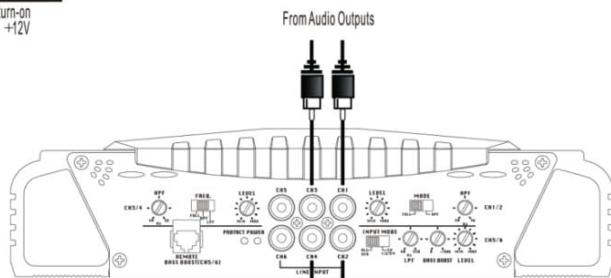
PLMRA630BT - Wiring



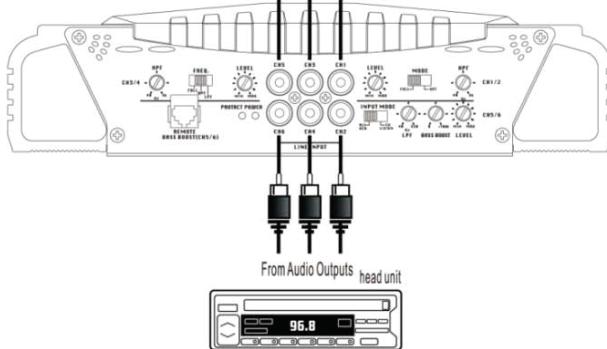
Electrical Connection



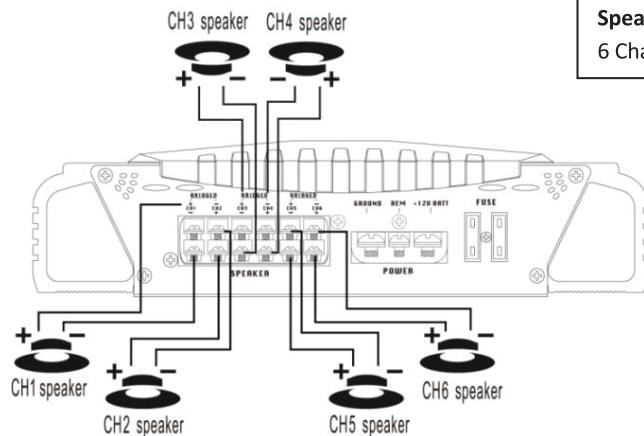
4 Channel Inputs RCA Low Level



Mono Input Connection 6 Channels

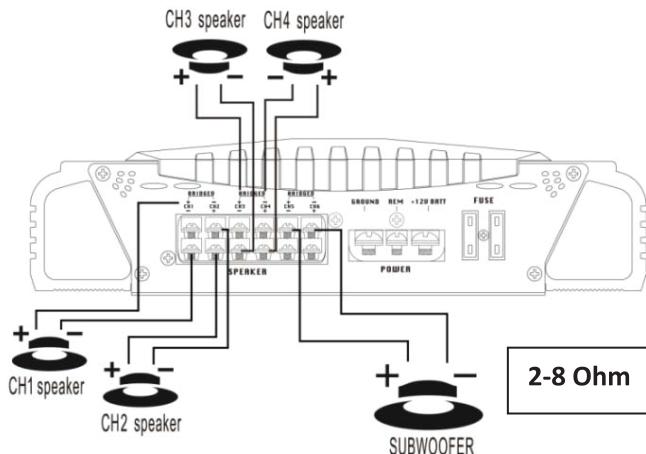


PLMRA630BT - Wiring



Speaker Connection
6 Channel Output Mode

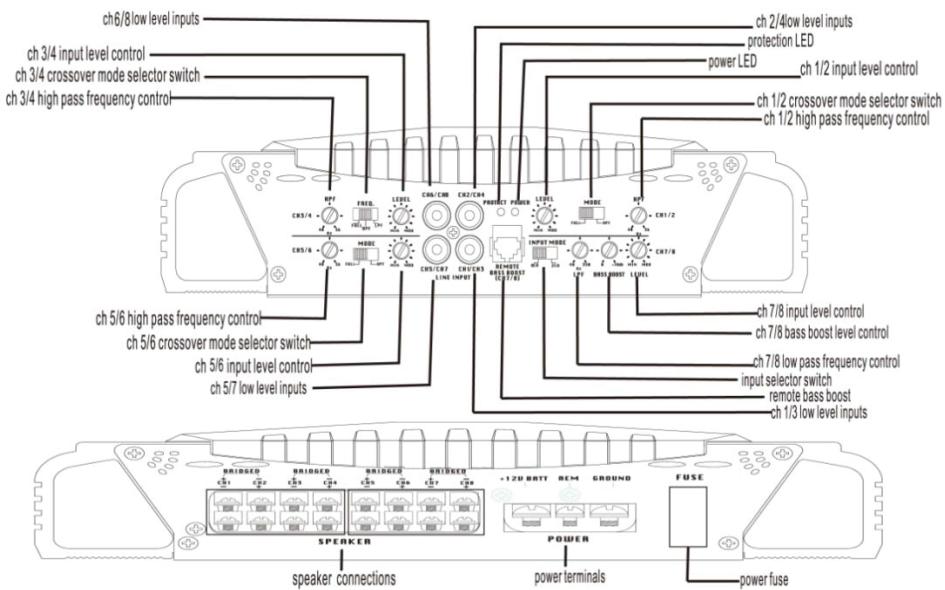
2-8 Ohm



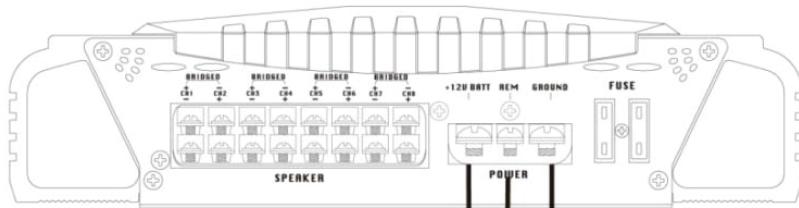
2-8 Ohm

Speaker Connection
Mono Bridged Subwoofer Output

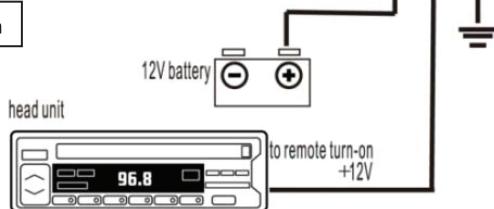
PLMRA830BT - Wiring



PLMRA830BT - Wiring



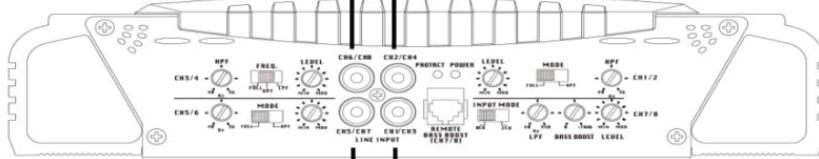
Electrical Connection



From Audio Outputs

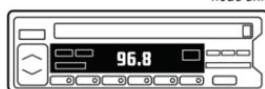


Multi Channel Input Connection

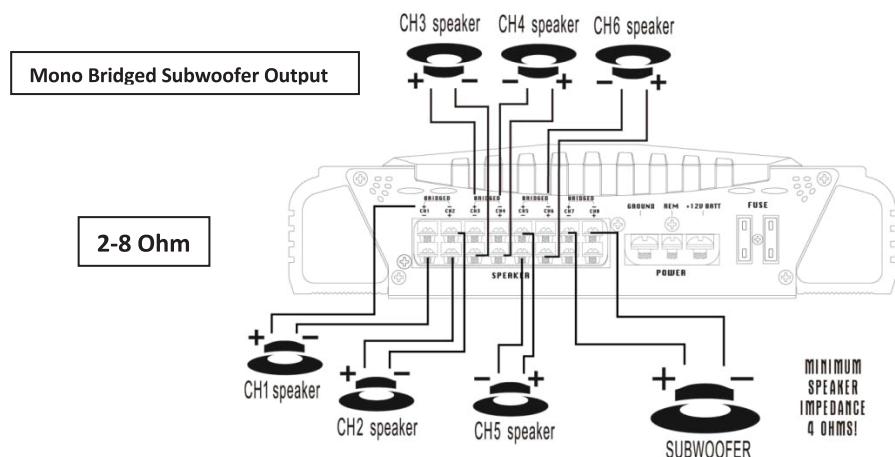
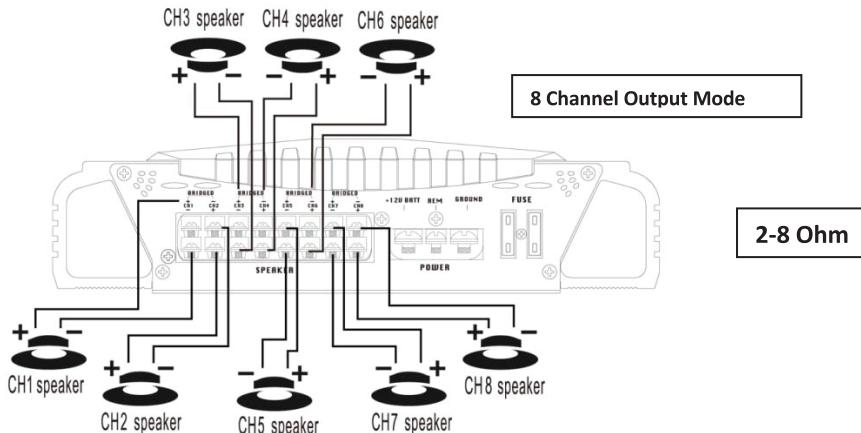


From Audio Outputs head unit

Visit www.PyleAudio.com for detailed model information, specific model wiring and connection ability.



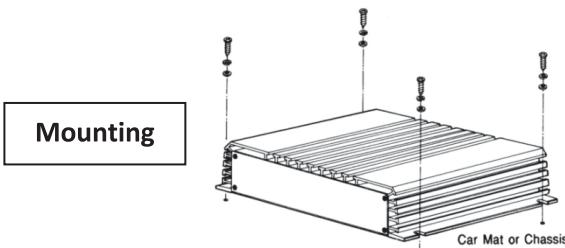
PLMRA830BT - Wiring



Elite Series Bluetooth Connection

When searching for the amp via your smartphone or other Bluetooth-enabled device, the Bluetooth amp network name will appear as 'Pyle Amp' in your device list. The amp will not require a password to connect. Once successfully paired with your compatible Bluetooth-enabled device, you will be able to control music streaming ability into the Pyle amp. Choose from streaming audio to adjusting volume controls -- all from your device.

Your amp comes with all required mounting hardware. When determining a suitable location in your vehicle for the amp, please remember that this is a high-power electronic device that is capable of generating high temperatures.



Mounting

Always choose a mounting location that will be least susceptible to vibration, provides adequate ventilation, and is free of dust and moisture.

Ensure the amp is mounted in a way that allows for reasonable airflow around the unit. To mark the location for the mounting screw holes, position the amp in the desired location. The heatsink of the amp will have notches on its outer edges for fastening. Use a scribe or one of the mounting screws to mark the mounting surface. If the surface is carpeted, measure the hole centers and mark with a felt tip pen. Before drilling the mounting holes and securing the amp, check for any wires, lines, or other devices behind the mounting surface.

Ensure you do not interfere with the vehicle's safety features, wiring, or electrical systems. Drill pilot holes in the mounting surface for the mounting screws and tighten them securely.

When making electrical connections with your amplifier and vehicle battery, it's important to take precautions or seek the assistance of a professional installer. Use the proper gauge wire for power and ground connections.

Wire the amplifier directly to the car battery. For the ground connection, use the shortest possible wire to connect to a secure chassis ground.

Wire the remote connection to the auto start lead of your head unit, equalizer, or power antenna.

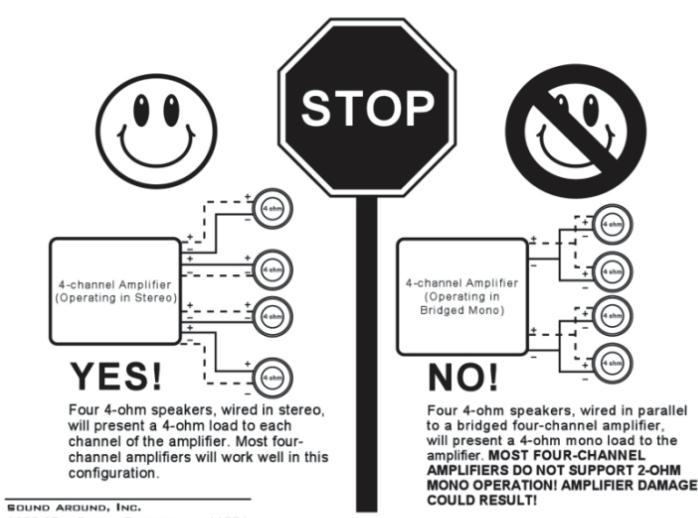
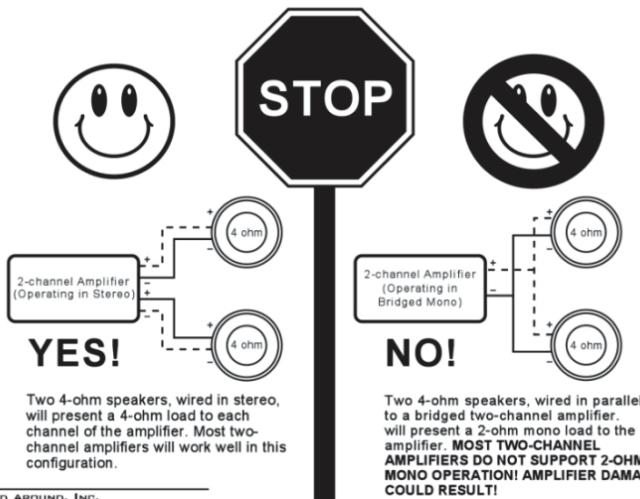
Circuitry Protection

The amplifiers come with built-in fuse systems and circuitry protection to safeguard both the amplifiers and your vehicle's electrical systems.

If you ever need to replace the fuse or suspect a fault in your system, please contact Pyle technical support or consult a trained professional.

When replacing fuses, ensure to use ONLY a fuse of the exact same type and rating to avoid damage or fire.

The built-in protection circuitry in the amplifiers will disable the amplifier if it detects an input overload, speaker short circuit, or extreme temperature conditions. When the protection circuit is activated, the Protection LED will illuminate. If this occurs, carefully inspect the system to identify the source of the problem. If the shutdown was due to a thermal overload condition, allow the amplifier to cool down before attempting to restart. If the shutdown was due to an input overload or speaker short circuit, correct the condition before restarting. The amplifier can be restarted by turning the remote power OFF and then ON again.



FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

IC warning

- English:

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French:

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

(1) L'appareil ne doit pas produire de brouillage; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

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