

KARINA®

XW-604

OWNER'S MANUAL

CAR AUDIO SYSTEM
**PLEASE READ CAREFULLY BEFORE INSTALLING
OR OPERATED THIS UNIT**

فروشگاه اینترنتی کوالیما
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WARNING

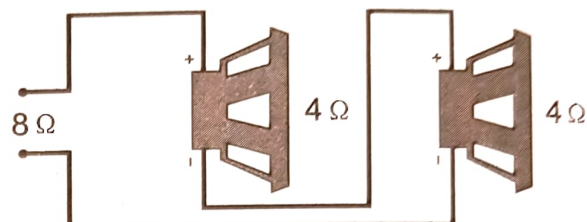
Make sure you choose a suitable place to mount the unit. The position should be completely dry with a good circulation of air, and from a mechanical point of view very stable.

System planning is the best way to maximize your amplifier performance. By planning your installation carefully you can avoid situations where the performance of the reliability of your system is compromised. Your authorized dealer has been trained to maximize your system's sonic potential. Your dealer is a valuable resource in helping you with your system design and installation.

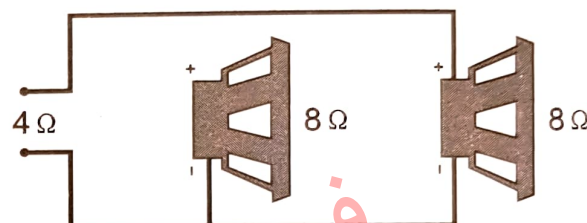
Speaker Requirements

Each channel of your amplifier can easily drive 4Ω speaker loads when used in the stereo mode. When a channel-pair is bridged, the recommended minimum load impedance is 3Ω for subwoofer use, and 4Ω for full range operation. Although operation with lower impedances is not likely to cause immediate damage to the internal circuitry, the unit will most likely overheat, causing the thermal protection circuitry to shut down the amplifier. When the chassis cools down, normal operation will resume. Continuing to operate the amplifier under these conditions is not recommended and will reduce its life expectancy.

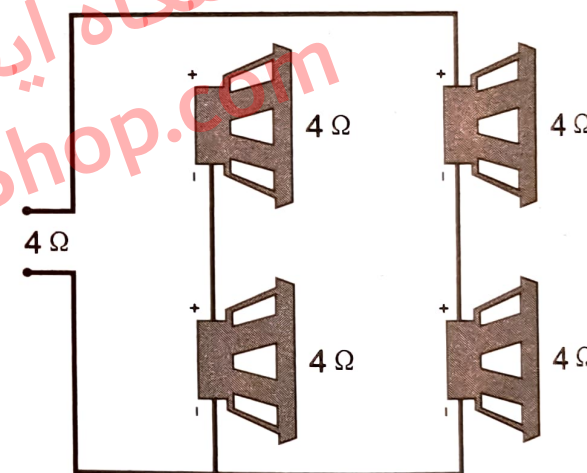
Most speakers designed for car audio operation are 4Ω impedance. Connecting two such speakers in parallel will result in a 2Ω impedance load as seen by the amplifier. Some subwoofer models feature a dual 4Ω voice coil design. Connecting these voice coils in parallel will result in a 2Ω nominal impedance, which is not recommended for use with bridged channels of your amplifier.



Series wiring

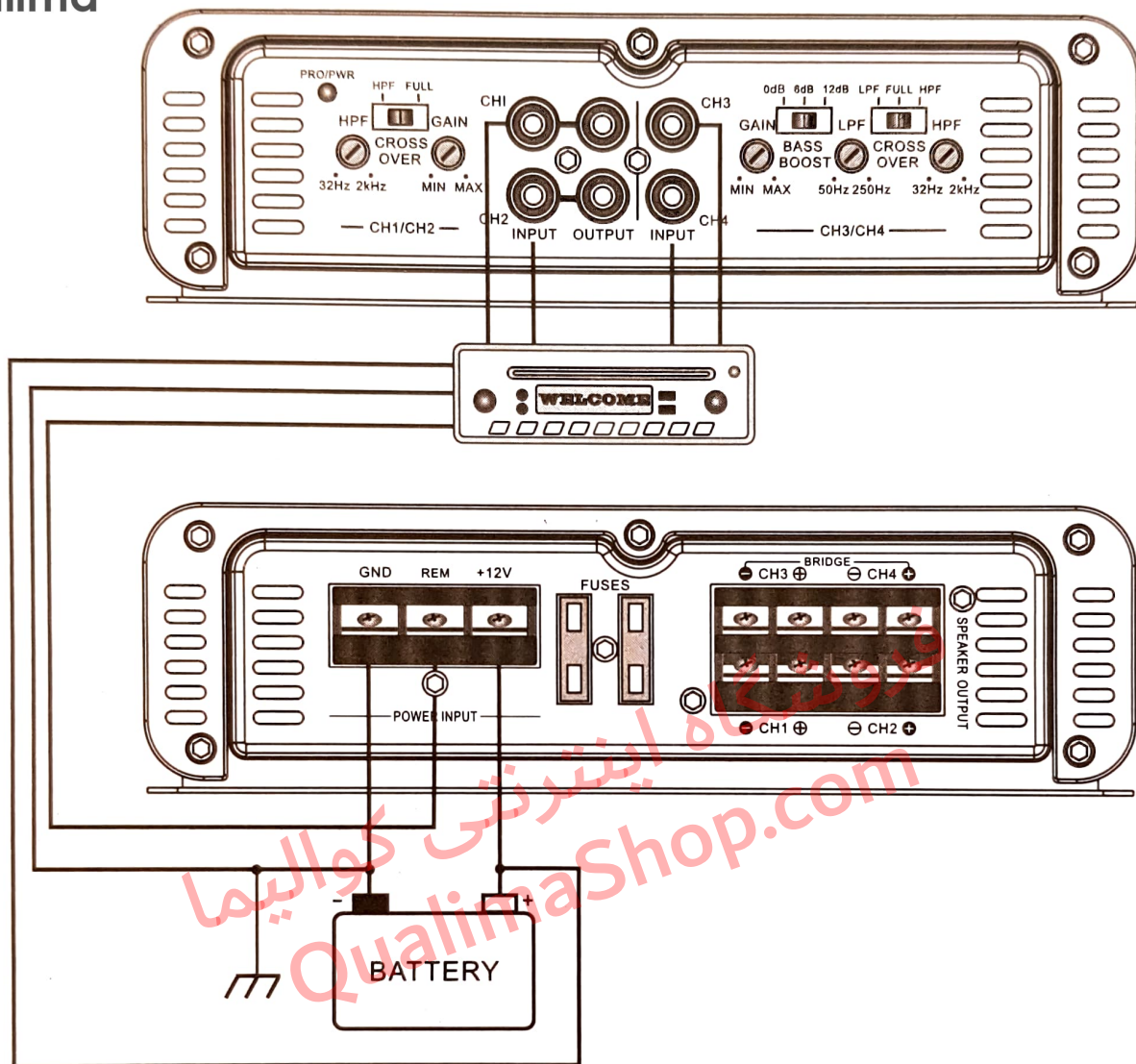


Parallel wiring



Series/parallel wiring

Power Connection Leads



Notes on the power supply

Connect the + 12V power input lead only after all other leads have been connected.


Be sure to connect the ground wire of the unit securely to a metal part of the car.

A loose connection may cause a malfunction of the amplifier.

REMOTE: The unit is turned on by applying + 12Volts to this terminal. This terminal does not draw heavy current like the two power terminals, so a thinner connecting wire is acceptable. Standard 18 GAUGE is fine and the standard colour is yellow. If the radio is equipped with a power antenna control wire, it can drive this terminal. If the power antenna wire is already in use, you can still splice into it. With this method, the unit will turn on automatically with the radio. Use the power supply lead with a fuse attached whose value is the same as original fuse.

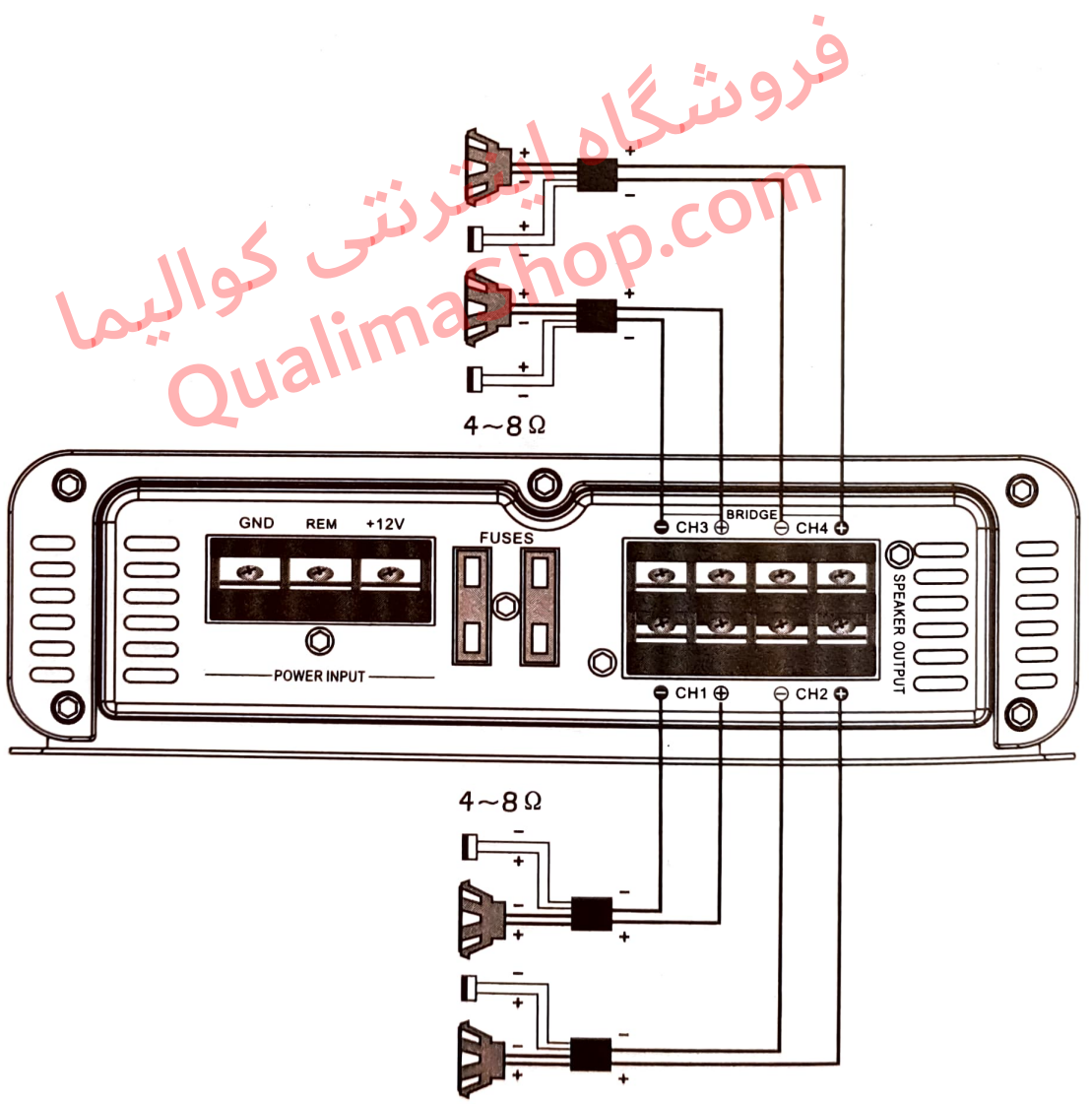
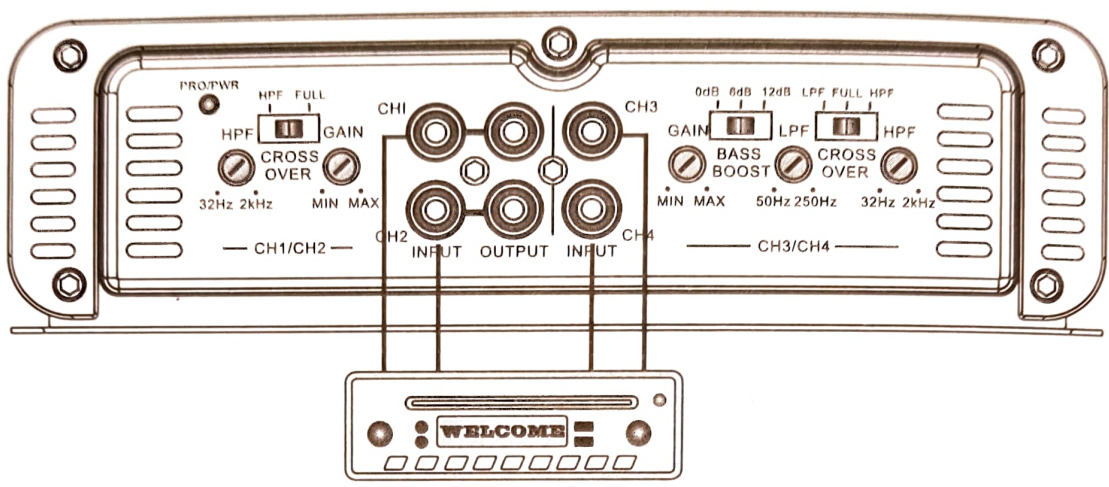
Place the fuse in the power supply lead as close as possible to the car battery.

During a full power operation, Maximum current will run through the system. Therefore, Make sure that the leads to be connected to the + 12v and GND terminals of the unit respectively must be larger than 10-Gauge (AWG.10).



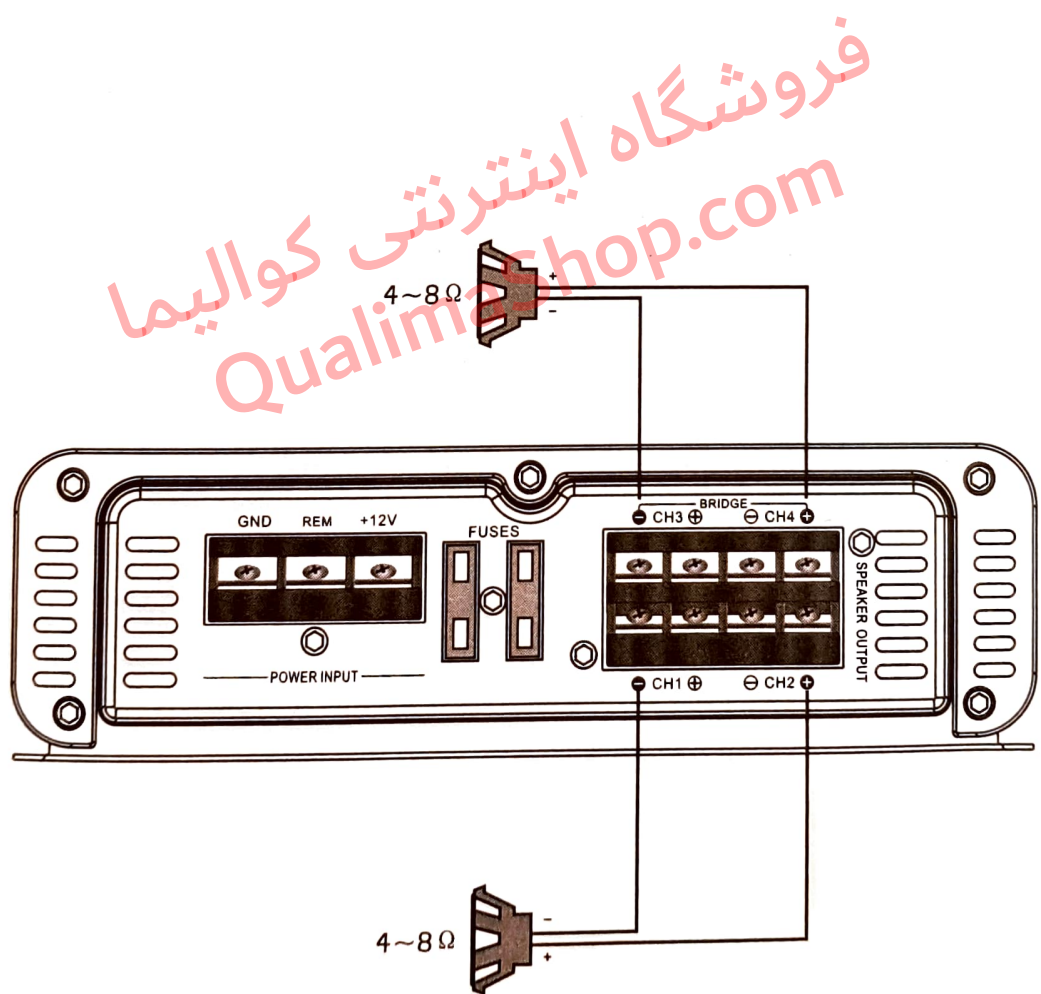
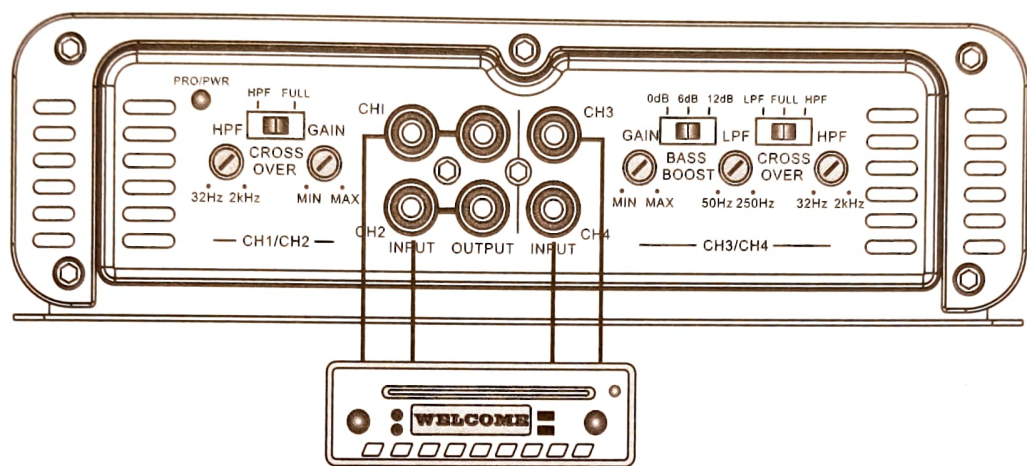
System 1 4 channel mode

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System 2 bridged connection subwoofer



Trouble Shooting

Possible Cause

low or no remote turn-on input

fuse blown

power wires not connected

audio input not connected or no output from source

speaker wires not connected

audio cycles on and off

speakers are blown

thermal protection engages when amplifier heatsink temperature exceeds 90°C

loose or poor audio input

distorted output

amplifier level sensitivity set too high; exceeding maximum output capability of amplifier

impedance load to amplifier too low

shorted speaker wires

speaker not connected to amplifier properly

Action to Take

check remote turn-on voltage output at amplifier and correct as needed

check power wire integrity and reversed polarity ,repair as needed and replace fuse

check power wire and ground connections and repair or replace as needed

check input connections and signal integrity , repair or replace as needed

check speaker wires and repair or replace as needed

check system with known working speaker and repair or replace speakers as needed

make sure there is proper ventilation for amplifier and improve ventilation as needed

check input connections and repair or replace as needed

reset gain referring to the tuning section of the manual for detailed instructions

check speaker impedance load if below 2 Ω stereo or 4 Ω mono rewire speakers to achieve a higher impedance

check speaker wire connections and repair or replace as needed

check speaker wiring and repair or replace as needed refer to the Installation section of this manual for detailed instructions

Possible Cause

Action to Take

poor bass response

speakers wired wrong polarity causing cancellation at low frequencies

check system with known working speakers and repair or replace as needed

crossover set incorrectly

check speaker polarity and repair as needed

reset crossovers referring to the multi-cross crossover configuration section of this manual for detailed instructions

battery fuse blowing

impedance load to amplifier too low

check speaker impedance load, if below 2 Ω stereo or 4 Ω mono rewire speakers to achieve a higher impedance

short in power wire or incorrect power connections

check power and ground connections and repair as needed

fuse used is smaller than recommended

replace with proper fuse size

too much current being drawn

check speaker impedance load, if below 2 Ω stereo or 4 Ω mono rewire speakers to achieve a higher impedance

short in power wire or incorrect

check power and ground connections and repair as needed

amplifier fuse blowing

too much current being drawn

check speaker impedance load, if below 2 Ω stereo or 4 Ω mono rewire speakers to achieve a higher impedance and replace with recommended fuse size

check power and ground connections and repair as needed
replace with proper fuse size

fuse used is smaller than recommended

XW-604

Max output power 4 Ω (Watts)	65W RMS x 4CH
Max output power 2 Ω (Watts)	100W RMS x 4CH
Bridged power 4 Ω (Watts)	200W RMS x 2CH
THD	<0.10%
Frequency response ($\pm 2db$)	10Hz~45KHz
Signal to noise ratio	>90dB
Sensitivity	200mV~8V
Recommended fuse type	25A x 2
Dimensions	302mm x 200mm x 58mm

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