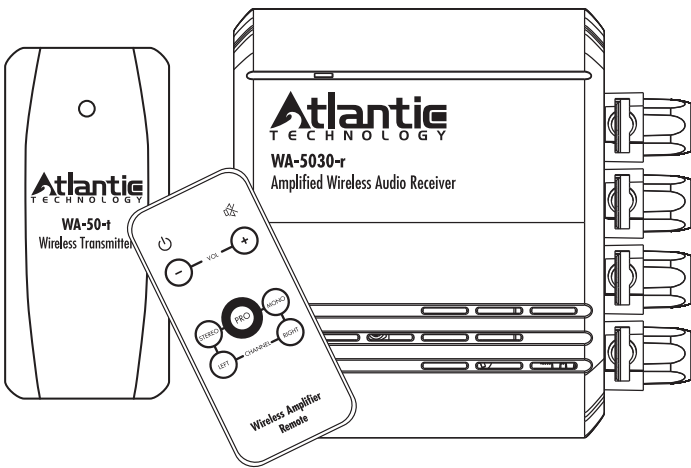


WA-5030

Wireless Transmitter/
Amp-Receiver System



Atlantic
TECHNOLOGY

Instruction Manual

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Safety Overview

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance



WARNING:

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE APPARATUS TO RAIN OR MOISTURE



CAUTION:

TO REDUCE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICE-ABLE PART INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

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.

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

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.

Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. Damage Requiring service; Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged,
 - b. If liquid has been spilled, or objects have fallen into the apparatus,
 - c. If the apparatus has been exposed to rain or water,
 - d. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
 - e. If the apparatus has been dropped or damaged in any way, and
 - f. When the apparatus exhibits a distinct change in performance; this indicates a need for service.
14. Object and Liquid Entry – Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit.
15. Batteries – Always consider the environmental issues and follow local regulations when disposing of batteries.
16. If you install the apparatus in a built-in installation, such as bookcase or rack, ensure that there is adequate ventilation. Leave 20 cm (8") of free space at the top and sides and 10 cm (4") away from the rear panel or wall, creating a flue like gap for warm air to escape.
17. This device has no mains switch. To disconnect this device from mains supply, the power cord must be disconnected.
18. Only use the enclosed AC power adapter.

System Function

System Function Description

The WA-5030 System is designed to wirelessly transmit an audio source signal from one location to a dedicated wireless audio amplifier. The audio amplifier is then connected to any general purpose loudspeaker.

The WA-50-t Transmitter is a high performance device that broadcasts digital audio over the 2.4 GHz band. Analog input signals are converted to digital format for transmission. The radio frequency broadcast is digital, uncompressed, CD quality data. The broadcast signal is uniquely formatted so that either the Atlantic Technology WA-50-r or WA-5030-r Receiver can receive and convert it into useful audio output.

The WA-5030-r Receiver/Amplifier is readily configured to drive a pair of 8 Ohm speakers in Stereo mode.

NOTE: *There is also the capability to use the WA-5030-r Receiver/Amplifier for more specialized functions. These functions are covered in the section "Advanced Functions" (pg 12)*

Both the WA-50-t and WA-5030-r receiver are equipped to operate with 3 different Zones. Each Zone is a unique formatting of the broadcast digital data so that components operating and linked on one Zone will not receive or interfere with other WA components operating on a different Zone.

This permits operation of up to three different zones within the same RF broadcast area.

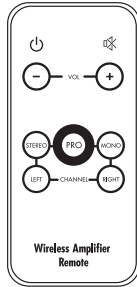
Features

- Lossless, Uncompressed, CD quality streaming audio network, sample rate 48 kHz.
- Dedicated 2.4 GHz streaming audio network to reduce interference with WiFi networks or other 2.4 GHz devices such as cordless phones and microwaves.
- Simple to set-up, plug and play
- Virtually no time delay or data drops

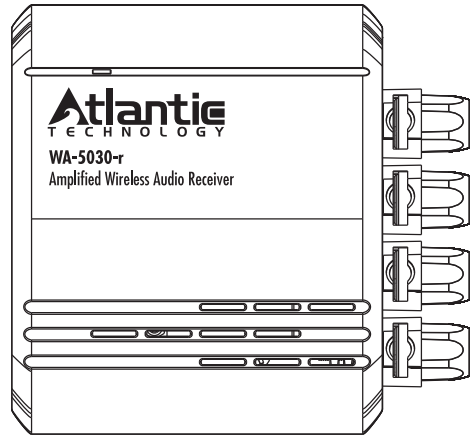
Package Content



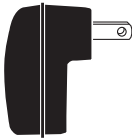
WA-50-t Wireless Transmitter



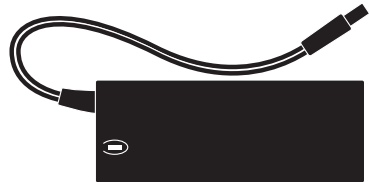
Remote



WA-5030-r Receiver/Amplifier



USB AC Power Adapter



24VDC, 48W Power Supply



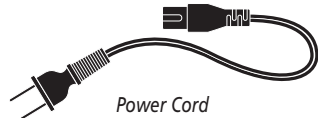
1/8" Stereo Cable



1/8" Mono to RCA Cable



USB cord



Power Cord



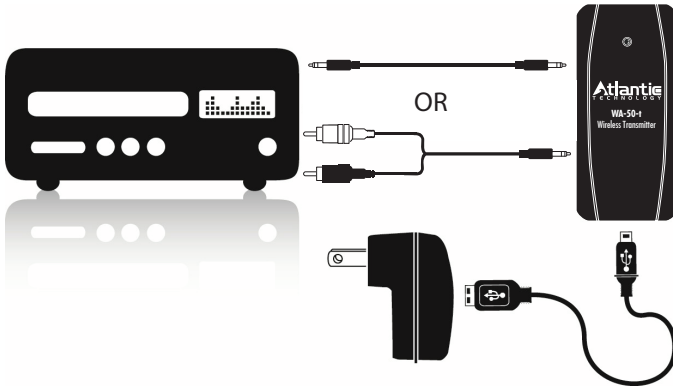
1/8" Stereo to RCA Cable



IR Receiver Cable

Transmitter Basic Setup

WA-50-t Wireless Transmitter



1. Select the "Zone" setting you wish to use when transmitting this audio signal.
2. Connect supplied USB cable's Mini-USB connector to the WA-50-t.
3. Connect the standard USB connector to the supplied USB AC adapter. The LED will flash red/blue for 3-5 seconds.
4. Connect the 1/8" stereo connector into the 1/8" stereo jack on the WA-50-t.
5. Connect the RCA connectors to your receiver's or processor's Pre-Out or Tape-Out jacks (There is no Master Volume control of the WA-5030-r from your receiver when using the Tape-Out jacks—you'll need to use the 5030-r's remote control with its IR Receiver cable connected.)
6. Alternately, you may use the 1/8" stereo cable to connect the WA-50-t to the headphone jack of a portable MP3 player or a portable CD player.

Note that the 1/8" analog input is intended for line-level (1 Vrms max) signals only.

Use of speaker-level signals may result in distortion and/or damage to your system.

Computer/Media Server Connections

PC Configurations



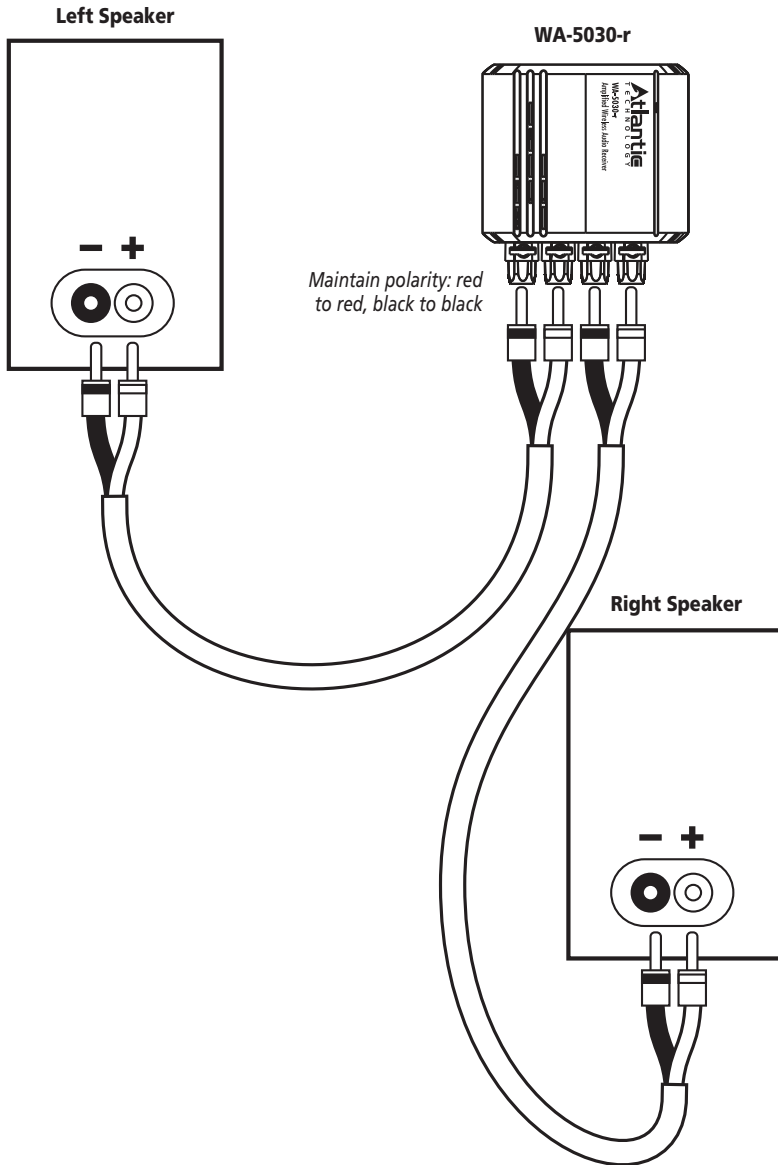
1. Select the "Zone" setting you wish to use when transmitting this audio signal.
2. Connect supplied USB cables Mini-USB connector to the WA-50-t.
3. Connect the standard USB connector to an open port on your PC.
4. WA-50-t status light will rapidly alternate between red and blue for 3-5 seconds.
5. Your PC will automatically recognize the WA-50-t as a USB Audio Device (usually a USB headset). Please allow your PC to finish the installation process before proceeding. A message will appear in the bottom right corner of your desktop stating "Your new hardware is installed and ready to use."
6. Your WA-50-t is now configured as your computer or media server's default audio playback device.

NOTE: It may be necessary to manually select USB Headset as the default audio device under the audio tab of your computer's Sound and Audio Devices menu located in the computer's Control Panel.

Apple/Mac Configuration

1. Select the "Zone" setting you wish to use when transmitting his audio signal.
2. Connect supplied USB cable's Mini-USB connector to the WA-50-t.
3. Connect the standard USB connector to an open port on your Mac computer.
4. WA-50-t status light will rapidly alternate between red and blue for 3-5 seconds.
5. Click on System Preferences and select "Sound" under the "Hardware" menu.
6. Click "Output" and manually select "USB Headset".
7. Your WA-50-t will now be configured as the default audio play-back device on your Mac computer.

Basic Receiver/Amplifier Configuration



Initial Setup & Linking Procedure

You must configure the WA-5030-r receiver/amplifier to "talk" to the WA-50-t transmitter. After performing the Transmitter Basic Setup on Page 7-8. Follow these simple steps:

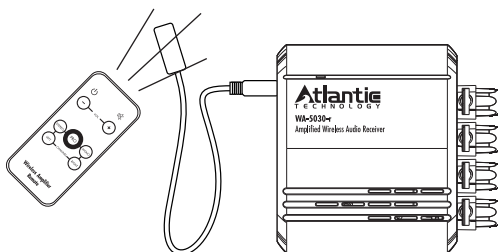
Step 1

Upon powering the WA-50-t Transmitter, the LED indicator will flash Red/Blue in seeking amplifier link. Upon successfully linking, it will become steady Blue.



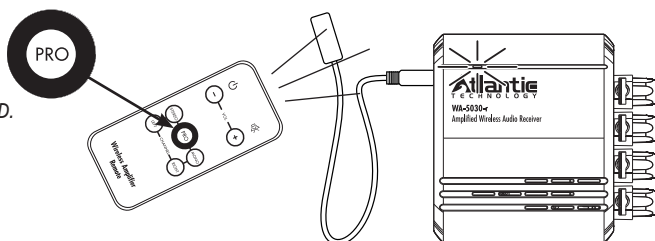
Step 2

WA-5030-r Receiver/Amplifier LED will indicate a steady Red upon power up. It will switch to Blue upon successful linking. If red, press "LINK" button on the receiver's bottom panel to change its zone (one-> two-> three with each pressing).



Step 3

Press and HOLD the "PRO" button for approximately 5 seconds until the LED flashes RED.



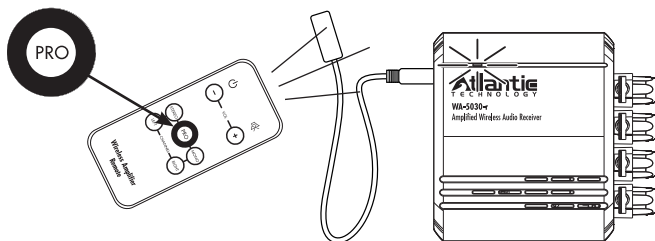
Step 4

Press the STEREO mode button. LED will become steady Blue, confirming selection.



Step 5

Press and HOLD the "PRO" button for approximately 5 seconds until the LED flashes BLUE, then it will return to steady-state BLUE.



Step 6

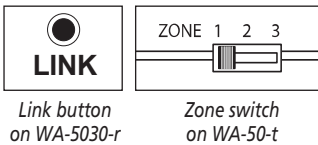
Repeat Steps 1-5 for each WA-5030-r Receiver/Amplifier to be programmed. Remember, only the Receiver/Amplifier to be programmed should be powered at this time. When programming is completed, all Receiver/Amplifiers may be powered on.

Multi-Zone

The WA-5030 system permits up to 3 unique zones within a common RF coverage area.

Creating Multiple Zones

The WA-5030 System is capable of supporting three independent audio networks within a common broadcast zone. Thus three different audio sources can be utilized in the same common area. The WA-5030-r Receiver/Amplifiers can be selected to link with any of the three sources.



The default setting for the WA-5030 System is Zone 1. Changing the Zone is accomplished through the “LINK” button located on the bottom of the WA-5030-r Receiver/Amplifier and the Zone Switch on the side of the WA-50-t Transmitter. Pressing the “LINK” button sequentially steps the WA-5030-r Zone with each press.

If setting up single transmitter to multiple amplifiers, establish the link to one amplifier at a time. Make certain the transmitter and the amplifier are set to the same Zone. Power up the first Receiver/Amplifier to establish the link. Then power up the second amplifier.

Examples of Multiple Zones

If you wish to use more than one WA-5030-r amplifier/receiver to operate multiple sets of speakers with different signals, do the following:

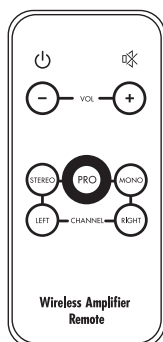
1. Use one WA-50-t connected to the side (5.1) surround out jacks set to Zone 1
2. Use WA-5030-r, set to Zone 1 to power side 5.1 speakers
3. Repeat above with another WA-50-t connected to back surround out jacks (7.1), set to Zone 2. Use another WA-5030-r, set to Zone 2 to power back surround speakers

or...



Use a single WA-50-t to control multiple WA-5030-r's to power different speakers in different rooms with the same signal.

1. Connect one WA-50-t to the Tape-Out or Pre-Out jacks on your receiver
2. Set WA-50-t to Zone 1
3. Connect first WA-5030-r to speakers in dining room
4. Connect second WA-5030-r to speakers in guest room
5. Set both WA-5030-r's to Zone 1
6. Speakers in both dining room and guest room will play the same program

Remote Control Operation



All functions of the WA-5030-r may be controlled by the Remote Control, as long as the IR cable is connected. There are no control functions on the WA-50-t Transmitter or WA-5030-r Receiver/Amplifier units themselves.

-  On/Off - each press cycles the amplifier On or Off. Amplifier status is indicated by its BLUE LED.
-  Mute - each press cycles the amplifier output Mute or Un-Mute.
- VOL** Volume Up (+) or Down (-).

Advanced Functions

Mode	Amplifier Channel	
	Left	Right
Stereo	Left	Right
Left	Left	Left
Right	Right	Right
Mono	Left+Right	Left+Right

The WA-5030-r is designed with advanced functions that configure the Left and Right output channels to: Left, Right and Mono

These functions are addressed through the system programming feature "PRO."

Please see the section titled Programming the Amplifier for Advanced Operation (pg. 13)

Operational Configurations

Bi-Amping

Use one WA-5030-r Receiver/Amplifier on each speaker to power its LF and HF Sections independently; see Bi-Amp set-up instruction (pg. 14). Program the Left speaker's amplifier to operate in the "LEFT" mode; see Programming section (pg. 13). Similarly, program the Right speaker's amplifier to operate in the "RIGHT" mode.

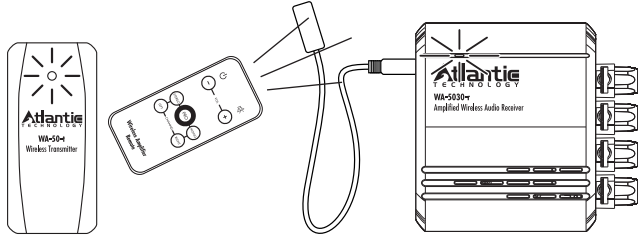
Commercial/Distributed Audio Mode

Connect the WA-50-t Transmitter to the desired audio signal source. Program each WA-5030-r Receiver/Amplifier to operate in the Mono mode so that each speaker will play the full audio input, making it unnecessary to use "stereo pairs" of speakers. This will enable a fully expandable sound system to operate within range of the Transmitter.

Programming the Amplifier for Advanced Operation

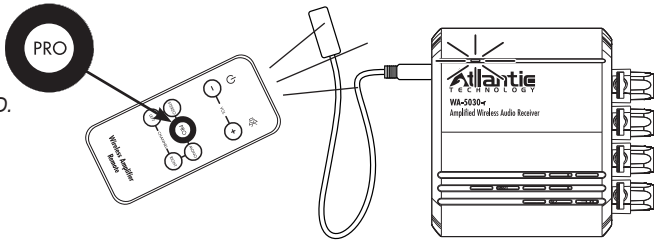
Step 1

Power up both the WA-50-t Transmitter and WA-5030-r Receiver/Amplifier. Establish link between two. If more than one Amplifier is to be linked to the Transmitter, make sure that only the Amplifier of interest is powered and linked for programming at a time.



Step 2

Press and HOLD the "PRO" button for approximately 5 seconds until the LED flashes RED.



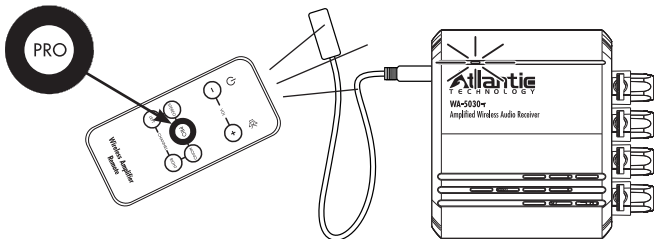
Step 3

Press desired MODE button: Left, Right, or Mono. LED will become steady Blue, confirming selection.



Step 4

Press and HOLD the "PRO" button for approximately 5 seconds until the LED flashes BLUE, then it will return to steady-state BLUE.



Step 5

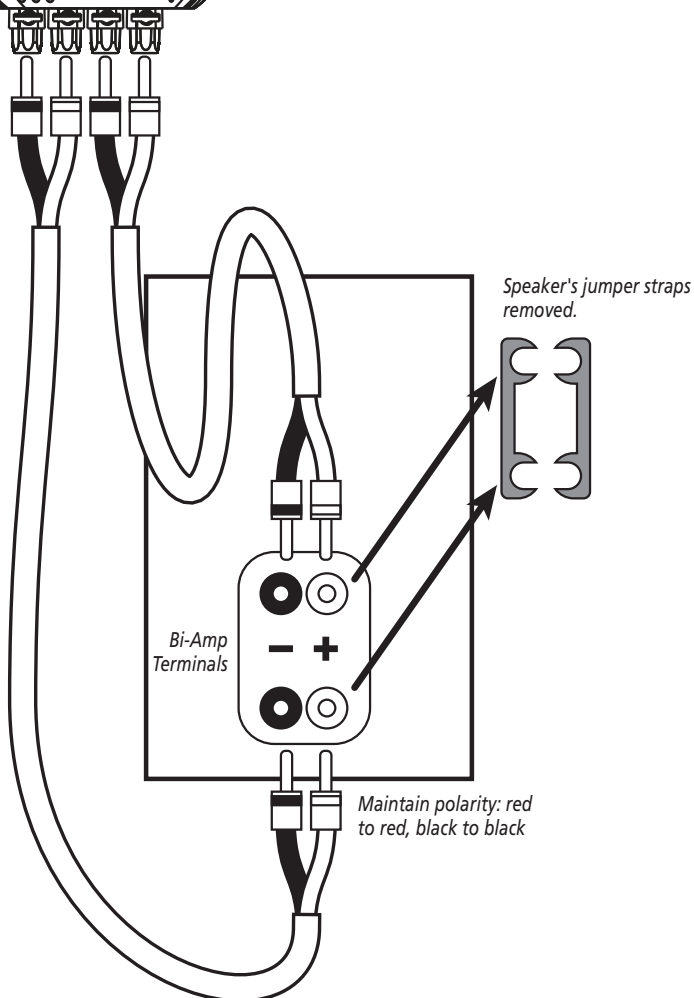
Repeat Steps 1-4 for each WA-5030-r Receiver/Amplifier to be programmed. Remember, only the Receiver/Amplifier to be programmed should be powered at this time. When programming is completed, all Receiver/Amplifiers may be powered on.

Example of Bi-Amp Configuration



Configure the Left speaker's amplifier as "Left" and the Right speaker's amplifier as "Right."

Please see Programming Section (pg 13) for instructions



Troubleshooting

No wireless connection (no blue "Linked" indication on either the WA-5030-r or the WA-50-t)

1. Make sure both the transmitter and amplifier are operating on the same Zone Setting. (Use "LINK" button receiver's bottom panel)
2. Make sure receiver is within the broadcast range of the transmitter.

Wireless Connection, but no sound

1. Make sure the audio source is properly connected and playing. Analog input requires "line level" (1 Vrms max).
2. Verify Transmitter and Amplifier are operating on the same Zone Setting.

Specifications

- Wireless full CD quality sound
- Robust and dedicated network for your audio
- Easy setup, get wireless music in seconds
- Wireless range up to 150 ft (50m); line of sight, 300 ft (100m)
- No interference or delays
- Time delay max 10ms
- Works with both Mac & PC
- Plug'n play - No software needed
- Flexible multi-zone functionality
- RF band: 2.4GHz
- Dedicated proprietary protocol
- USB 2.0 interface
- SNR: 93dB
- 2 x 30 Watts/ch, 1 kHz 8Ω

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