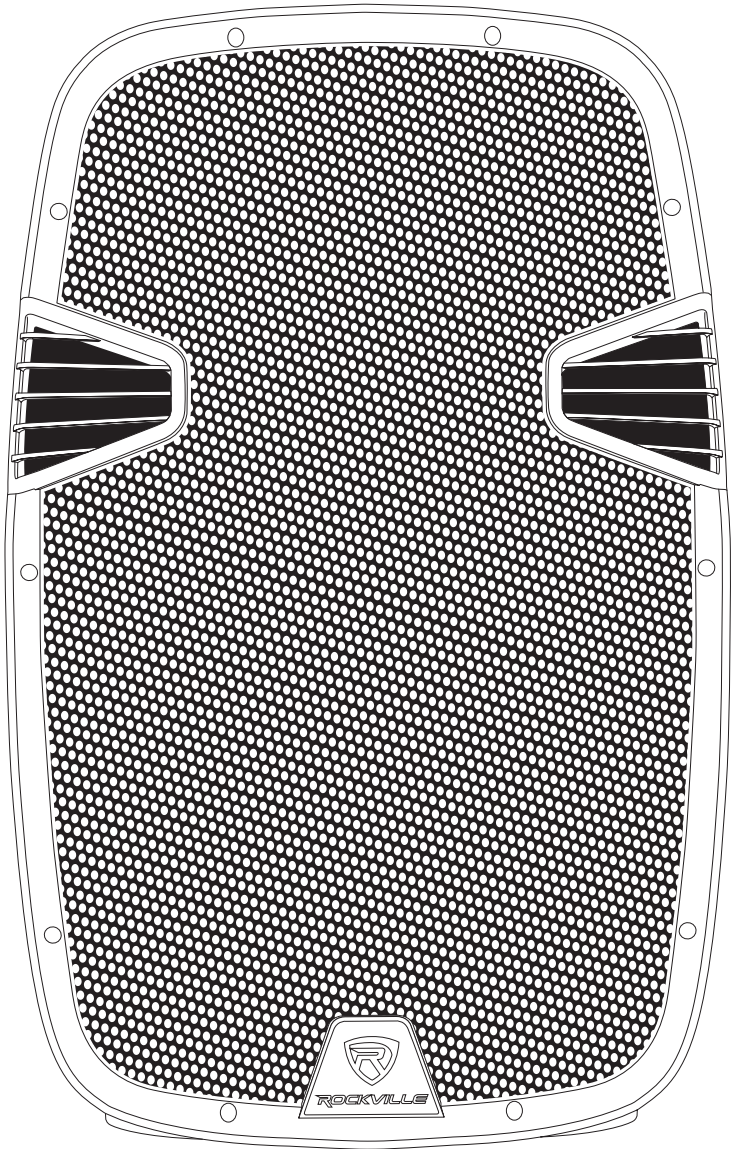


ROCKVILLE



OWNER'S MANUAL

RAM12BT V2/RAM15BT V2

Who reads manuals?

Instead, go to vimeo.com/443443847
or scan the QR code and watch a
short video, which shows you how to
set this item up and how to use it.



ROCKWELL

Thank you for purchasing this Rockville RAM-BT v2 series pro audio speaker with bluetooth and TWS wireless stereo linking. Please read this installation guide carefully for proper use of your RAM-BT v2. Should you need assistance, please call our technical help line at 1-646-758-0144, Monday through Friday, 9am to 5pm EST.

INCLUDES

- Active/Powered DJ/PA Speaker With Built-in Bluetooth
- 2 Wireless Microphones
- Built-in Rechargeable Battery
- Power Cable
- Remote Control

IMPORTANT SAFETY INSTRUCTIONS

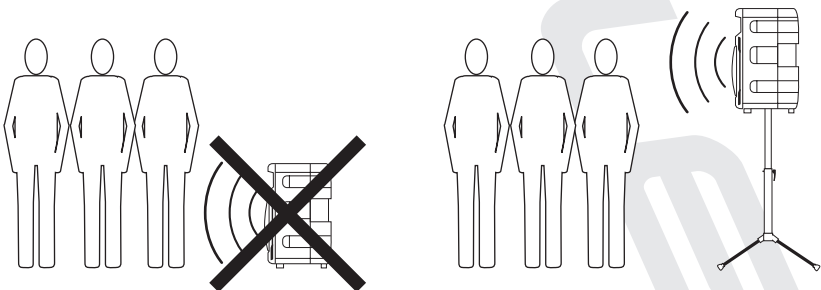


- To reduce risk of electric shock, never open the unit. There are no user serviceable parts, refer service to an authorized Rockville service center.
- Do not expose this unit to any kind of moisture.
- Please ensure that the unit is situated in a properly ventilated area.
- Make sure the unit is placed on a level and stable surface.

Setting Up Your RAM BT V2 Professional Sound System

Your RAM BT V2 unit is set up to produce the full spectrum of sound from its woofer and tweeter horn combination. The lower frequencies seek out the floor of the room they are playing and travel along the floor and walls. The tweeter horn is more directional. Hence when setting up your system its more important to make sure that the tweeter horns are not blocked by any furniture and are located / aimed at ear level to the listening audience. Woofer aiming is not as critical as explained previously due to the nature of the woofer sounds able to travel through various paths even when blocked.

It is therefore recommended that when setting up your system you set up your speakers on speaker stands, such as the Rockville model RVES05 (not included) so that the tweeter sounds will radiate above the listening crowd. This will guarantee optimum sound dispersion and achieve clear vocal sound reproduction.



How To Avoid Irritating Feedback

The placement of your microphone is critical in avoiding feedback through your RAM BT unit. Never set up your microphone in front of the speaker. Always set up your microphone behind the speaker. When approaching the speaker to make any adjustments, we recommend approaching the speaker from the rear and not walking directly towards the front of the speaker.

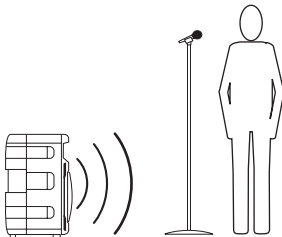


Stage Monitor Setup

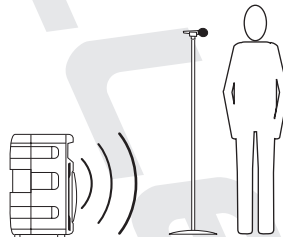
Unlike a PA setup which face the crowd, stage monitors are set up to face the performer on stage and to direct the sound towards them. This presents a particular problem as now feed back may occur. To avoid stage monitor feedback the following precautions should be taken.

1. Choose a microphone with high directivity, i.e. cardioid or hyper-cardioid polar pattern.
2. Never point the microphone directly down in front of the speaker. Holding the microphone in normal position will allow you to be closer to the stage monitor with out feed back.
3. See illustration below as to position of microphones when mounted in stand. Cardioid polar patter microphones should always be at a 90 degree angle to the axis of the stage monitor. Hyper Cardioid polar pattern microphones should be positioned at an acute angle to the sage monitor.

You may choose to add a feedback eliminating processor to your system for additional flexibility on stage.



Cardioid Polar Patter

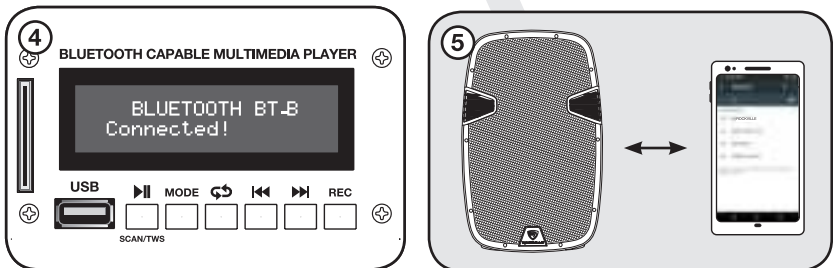
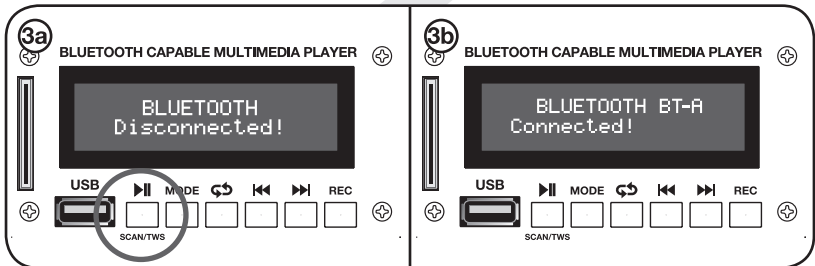
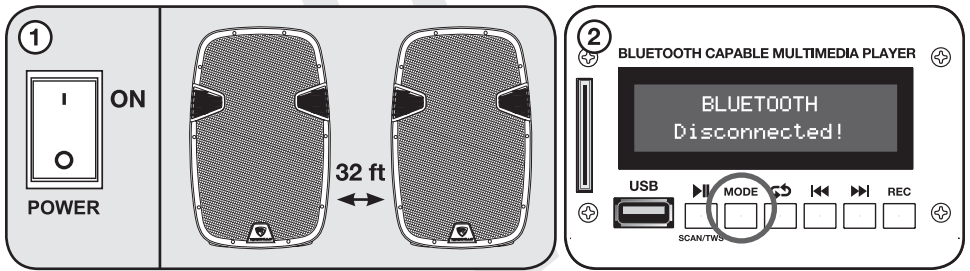


Hyper Cardioid Polar Patter

Wireless Speaker Linking

The RAM-BT v2 features True Wireless Stereo (TWS) Bluetooth linking. This means you can purchase 2 of these speakers and link them together to play in stereo wirelessly.

1. Make sure both RAM-BTv2 unit's power switches are in the ON position and that they are within 32 feet of each other.
2. Press the Mode button on both of the units to enter Bluetooth mode. The LCD screens should show that the speakers are not connected via Bluetooth or to another speaker.
3. Press the SCAN/TWS button on one of the units for 3 seconds (3a). If pairing is successful the unit's LCD screen will read "BLUETOOTH BT-A Connected" (3b). This is the primary and all functions will be controlled by this unit.
4. The secondary unit's LCD screen will read "BLUETOOTH BT-B Connected".
5. Once the speakers are connected, go to your phone's Bluetooth interface and select "ROCKVILLE" from the list of devices. If connection is successful, you will hear the same audio from both unit's. You are now ready to enjoy true wireless stereo sound!



! PLEASE NOTE

Once the units are in TWS mode, the primary (left) unit becomes the master unit and will control all functions.

APPLICATION USES

Microphone Presentations

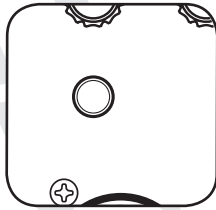
Your RAM-BT v2 features ultra-low noise Mic input via an XLR port and ¼" TRS stereo jack.

1. Make sure the Power switch is in the OFF position.
2. Plug your microphone into the XLR/¼" combo jack.
3. Switch on the RAM-BT v2 unit.
4. Refer to the "Setting Level Controls" section of this manual for instructions on how to properly adjust the Mic Volume controls.

Always stand behind the Power Gig when making your microphone adjustments to avoid feedback distortion.

Talk over Feature

In the ON position the TALK OVER function gives the microphone priority over all other features so that the microphone's volume level will be higher. When the TALK OVER function is in the OFF position, the microphone can be used in conjunction with any other feature (Bluetooth, MP3, SD, etc.) at the same sound level.



Line Input

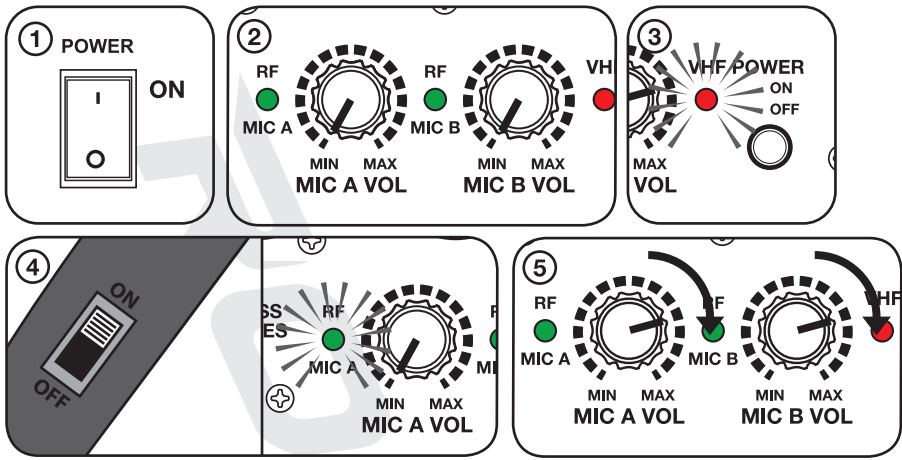
You can use the Line In XLR input to connect a mixer or the RCA inputs to connect an additional stereo signal source such as a smart phone, tablet, MP3 player, CD player, etc.

1. Make sure the Power switch is in the OFF position.
2. Connect the mixer to the XLR input or line level signal source to the RCA inputs **(never use both at once)**.
3. Switch on the RAM-BT v2 unit.
4. Refer to the "Setting Level Controls" section of this manual for instructions on how to properly adjust the Line In level control (gains).

Wireless Microphone Set-Up

Your RAM BT unit comes with two wireless microphones. To connect the microphones to the unit follow these steps:

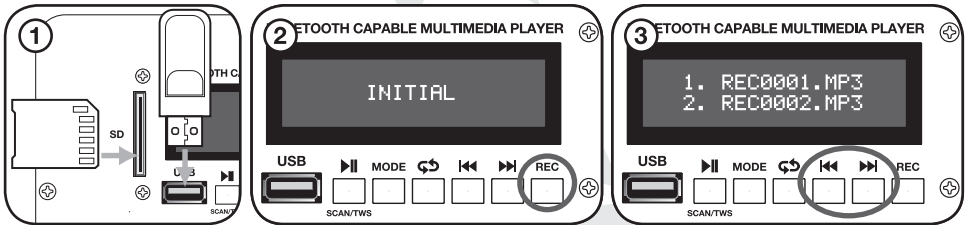
1. Make sure the RAM BT unit power switch is in ON position.
2. Keep both Mic A Volume and Mic B Volume and Channel B wireless Mic Volume at Min position.
3. Press the VHF power on button (red indicator LED should be on).
4. Switch on one microphone. It should automatically connect to the corresponding channel and the LED for that channel should light up.
5. Repeat steps 1 through 5 for the second microphone.
6. Use the Mic A / Mic B volume controls to adjust each microphone's volume.



Record Function

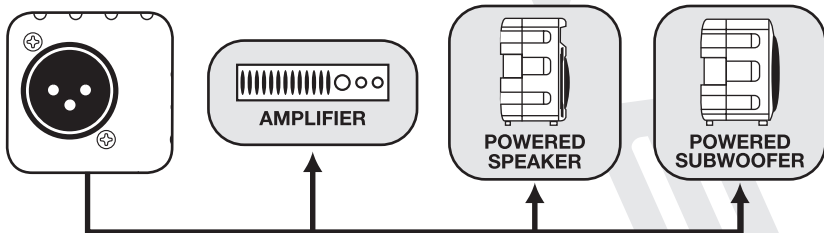
You can record the input from any mic or line input source to a USB or SD card.

1. Make sure there is a USB or SD card inserted and that your input source is ready.
2. Press the red record button to begin recording. The LCD display will read INITIAL. Press the red record button to stop recording and save the audio files.
3. Saved files will be named REC0001.MP3, REC0002.MP3, REC0003.MP3, etc. Use the Previous/Next buttons to find the files on the USB disc or SD card.



Line Out Balanced Connection.

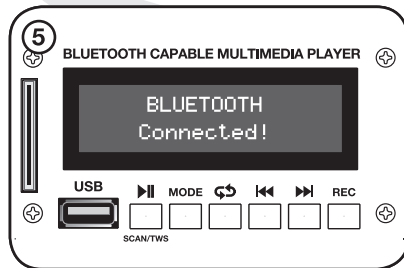
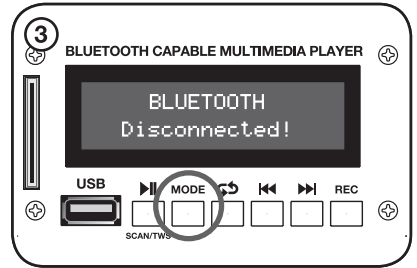
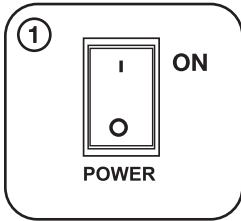
The XLR Line Out allows you to output the amplifier signal to a powered subwoofer, another powered speaker, or an amp, which will, in turn, power other speakers. Simply connect the output device to the RAM-BT v2 using an XLR to XLR or XLR to 1/4" TRS cable to share the signal. We recommend you use high quality cables such as Rockville's RCXFM20E-B XLR to XLR cable or the RCXMB20-B XLR to 1/4" TRS cable.



Bluetooth Pairing

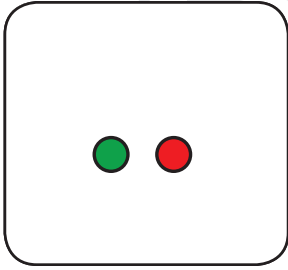
To connect your iPod, iPhone, MP3 player, Android phone or any other Bluetooth capable device follow the steps listed below.

1. Make sure the RAM-BT v2 unit's power switch is in the ON position.
2. Turn on the Bluetooth feature on your device.
3. Push the Mode button on your RAM-BT v2 unit until you are in Bluetooth mode. The LCD screen will read "BLUETOOTH Disconnected"
4. Once in Bluetooth mode, the unit should show up on your device as "ROCKVILLE". Select it from your list of available devices.
5. If pairing is successful, the LCD screen will read "BLUETOOTH Connected". You can now begin to stream music.



Built-in Battery

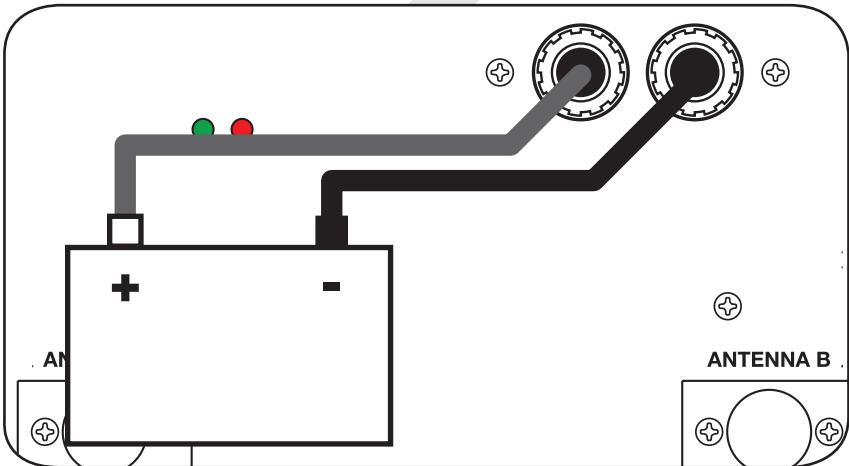
This unit includes a built-in 12 volt, 9 amp battery. This convenient features allows you to use your RAM BT for up to 12 hours in any situation where outlets are not readily available. No need to concern yourself with extension cords and the such. The unit comes with battery status LED indicators to let you know the status of the battery and when to charge the battery. The battery can run for up to 12 hours on a full charge. To charge the battery simply plug it into an outlet. Battery takes approximately 6 hours to charge. The battery is fully charged when the left LED is on and the right LED is off. While charging the left LED is off and the right LED is on. When the battery is drained it is important that you immediately turn off your unit to prevent damage to the battery.



STATUS	LED1	LED2
1. NOT charging	OFF	OFF
2. Charging	OFF	ON
3. Fully charged	ON	OFF
4. Overvoltage	OFF	Flashing slowly
5. Pulse charging	OFF	Flashing quickly

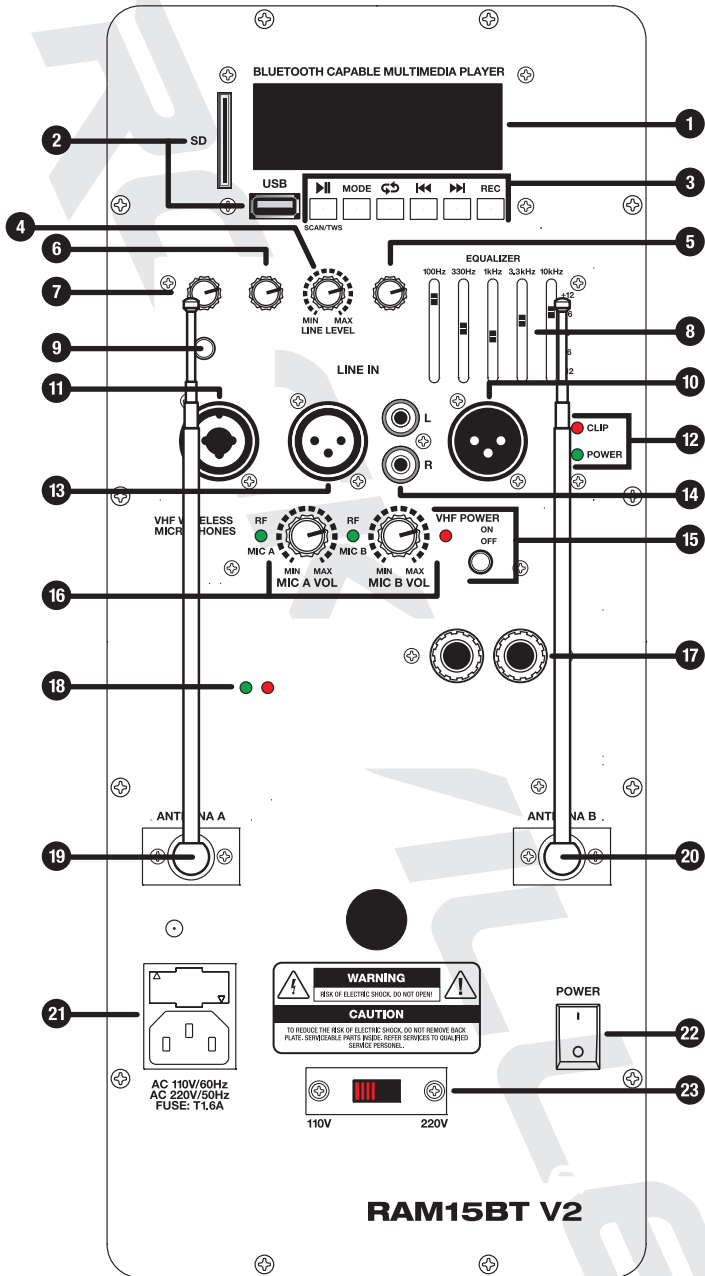
External Battery Power

As well as having a built-in battery, the RAM BT also has the ability to power up using an external battery. Simply hook the unit up to any 12V car battery or 12V power source. We recommend you use spade terminals to connect the power cables to the unit's power and ground inputs. Remember, RED is POSITIVE (+12V) and BLACK is NEGATIVE (-).

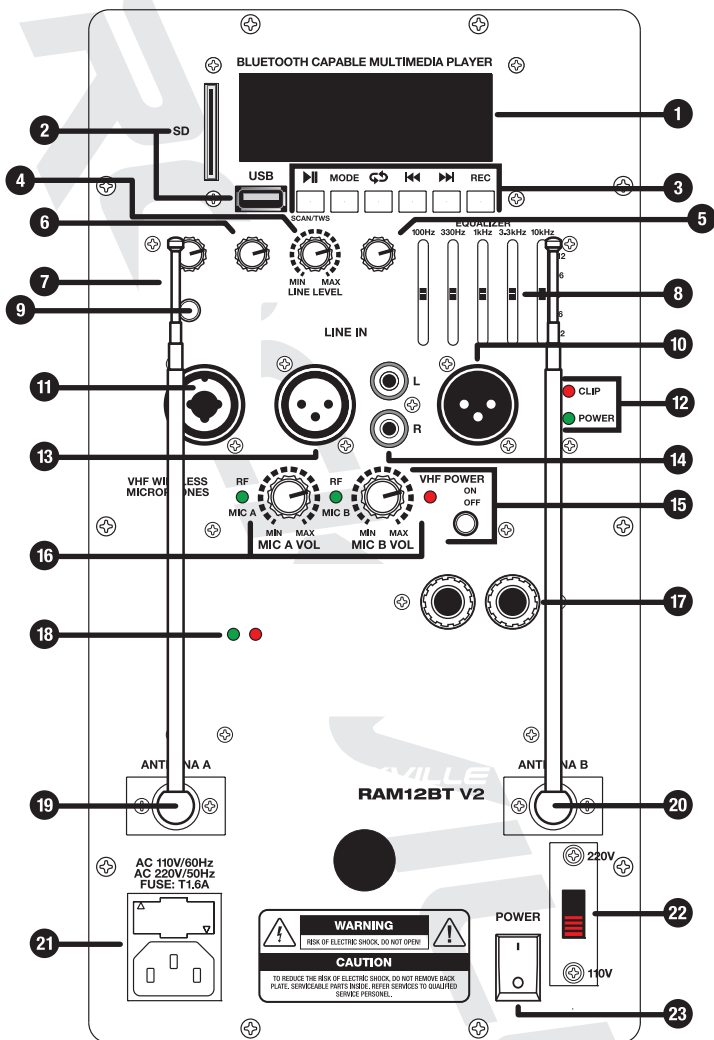


ROCKWELL

1. LCD display
2. USB and SD/MMC Card input
3. MP3 Player controls:
 - Play/Pause, Scan, TWS - Press this button once to start music playback; press again to pause. In FM radio mode press and hold for 5 seconds to automatically scan and save all available stations. See page 6 for TWS pairing procedure.
 - Mode - Switches between input modes: Bluetooth, USB, SD / MMC, and FM Radio.
 - Repeat - Press once to repeat current track, press again to repeat all tracks. Press a third time to exit repeat mode.
 - Previous/Next track buttons also serve as volume controls. For track control quickly press button. For volume control press and hold button.
 - Rec: Press to record Mic and Line input to a USB or SD card (see page 8)
4. Line level input volume control
5. MP3 volume control (USB, SD, and Bluetooth input)
6. Mic echo effect control
7. Mic input volume control
8. 5 band equalization control panel
9. Talk over On/Off selector switch: gives priority to mic input
10. XLR line out port
11. Combo XLR/1/4" TRS mic input
12. Power and amplifier clip limit LED indicators
13. XLR Line in port: accepts signals from a variety of sources such as keyboards, electronic drums, mixers, etc. Use the RCA plugs to connect stereo signal sources such as CD players, DVD music players, MP3 players, etc.
14. L/R RCA line inputs
15. Wireless Microphone VHF transmitter power control
16. Mic A and B connection indicator LEDs and Volume controls.
17. Built-in 12V/9A battery with optional external battery connection
18. Internal battery status indicators (see page 10)
19. Mic A antenna
20. Mic B antenna
21. IEC AC power socket w/user serviceable fuse (see page 18 for fuse replacement)
22. Power switch
23. Variable voltage selector switch (110V/220V)



1. LCD display
2. USB and SD/MMC Card input
3. MP3 Player controls:
 - Play/Pause, Scan, TWS - Press this button once to start music playback; press again to pause. In FM radio mode press and hold for 5 seconds to automatically scan and save all available stations. See page 6 for TWS pairing procedure.
 - Mode - Switches between input modes: Bluetooth, USB, SD/MMC, and FM Radio
 - Repeat - Press once to repeat current track, press again to repeat all tracks. Press a third time to exit repeat mode.
 - Previous/Next track buttons also serve as volume controls. For track control quickly press button. For volume control press and hold button.
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19. Mic A antenna
20. Mic B antenna
21. IEC AC power socket w/user serviceable fuse (see page 18 for fuse replacement)
22. Variable voltage selector switch (110V/220V)
23. Power switch



Features

- High-power 2-way pro sound reinforcement speaker system
- Bluetooth connectivity
- True Wireless Stereo (TWS) linking
- Digital MP3/FM radio music player w/LCD display
- USB/SD Inputs: Accepted file formats - MP3, WAV, WMA
- Wireless remote control
- Wireless VHF Mic Capability (2 wireless mics included) w/independent volume control
- Compact and light weight system delivers distortion free sound
- Linear Class AB amplifier technology
- Internal switch-mode power supply
- 5-Band Graphic Equalizer
- State-of-the-art Japanese made pure titanium-diaphragm compression driver
- Ultra-wide dispersion, 40° large-format horizontal wave guide horn molded directly into the cabinet
- Ultra-low noise Mic input via XLR / ¼" TRS combo jack w/independent volume and echo effect control.
- XLR and RCA line inputs with level adjustment (**never use both inputs at once**)
- XLR line output
- 35mm pole socket for stand mounting.
- Built-in wheels and retractable top handle
- High impact ABS construction.
- Amplifier clip limit & power LED indicators
- Built-in 12V/9A battery with optional external battery connection for extended battery life. Internal battery will charge when unit is plugged in.
- External user serviceable fusing.

Specifications

RAM12BT V2

- Power: 600 Watts Peak / 300 Watts Program / 150 Watts RMS
- 4 Ohm 1.5" KSV High Power Voice Coil
- 25mm, 8 Ohm Titanium Diaphragm Tweeter
- 60oz Magnet Motor Structure

RAM15BT V2

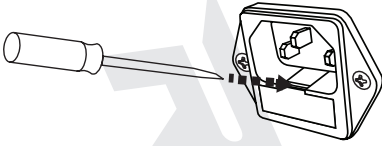
- Power: 800 Watts Peak / 400 Watts Program / 200 Watts RMS
- 4 Ohm 2" KSV High Power Voice Coil
- 34mm, 8 Ohm Titanium Diaphragm Tweeter
- 80oz Magnet Motor Structure

Troubleshooting

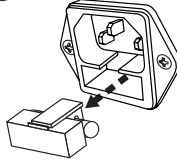
PROBLEM	SOLUTION
No power	<ol style="list-style-type: none"> 1. Make sure the unit is plugged in and the power switch is in the ON position. 2. Check that the power cable is plugged in tightly to the unit. 3. Check and replace the fuse if necessary. See fuse replacement diagram on page 18.
No sound/ distorted sound	<ol style="list-style-type: none"> 1. Check that all appropriate cables are plugged in correctly. 2. Check the Volume settings. 3. Be sure your microphone is on. 4. If using a mixing console, make sure fader and balance are set to center positions and levels are increased.
Buzzing sound	<p>Make sure you are using a proper cable. For 1/4" cables, there are 3 types: instrument, TS (unbalanced), and TRS (balanced). Check the requirements of the connected gear and the input of the speaker and make sure you are using the appropriate cable.</p>
Mic feedback	<p>Point the mics away from the speaker. Make sure the mics are behind the speaker, not in front of it (see page 4).</p>
Poor Mic sound	<ol style="list-style-type: none"> 1. Make sure you are using the Mic In port. 2. If using wireless mics, check the batteries, the volume settings, and make sure the antennas are fully extended.
Not enough bass	<p>Add a subwoofer to your setup – PA speakers do not play deep frequencies as well as a subwoofer. Regardless of brand or model, if you want deep thumping bass you must add a subwoofer.</p>
Bluetooth pairing fails	<ol style="list-style-type: none"> 1. Check to see that both devices are turned on and that your Bluetooth device is discoverable. 2. Turn both devices off and then on again. 3. Make sure you've selected the proper source. 4. Make sure that the Bluetooth device is within 5 feet of the unit. 5. Move both devices away from other Bluetooth devices, microwaves, wireless routers, and other electronics. 6. Make sure that the unit is not paired to a previously paired device.
TWS pairing fails	<ol style="list-style-type: none"> 1. Check to see that both devices are turned on. 2. Make sure both devices are in Bluetooth mode. 3. Make sure both RAM-BT units are near each other. 4. Make sure that the unit is not paired to a previously paired device. 5. If TWS pairing is successful, but Bluetooth pairing to the main unit fails, please look at the "Bluetooth pairing fails" section above.
No SD or USB playback	<ol style="list-style-type: none"> 1. Make sure you are in USB/SD mode. 2. Make sure the SD card or USB drive is properly connected. 3. Make sure that the audio files are in the specified format (see page 16). 4. Make sure the SD card/USB drive is not damaged.

Replacing the Fuse

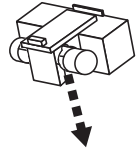
① Use a screwdriver to release the fuse holder.



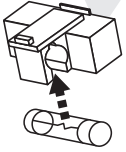
② Remove the fuse holder.



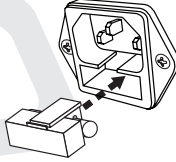
③ Remove the fuse.



④ Replace the fuse.



⑤ Re-insert the fuse holder.



FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

Responsible party name: Rockville

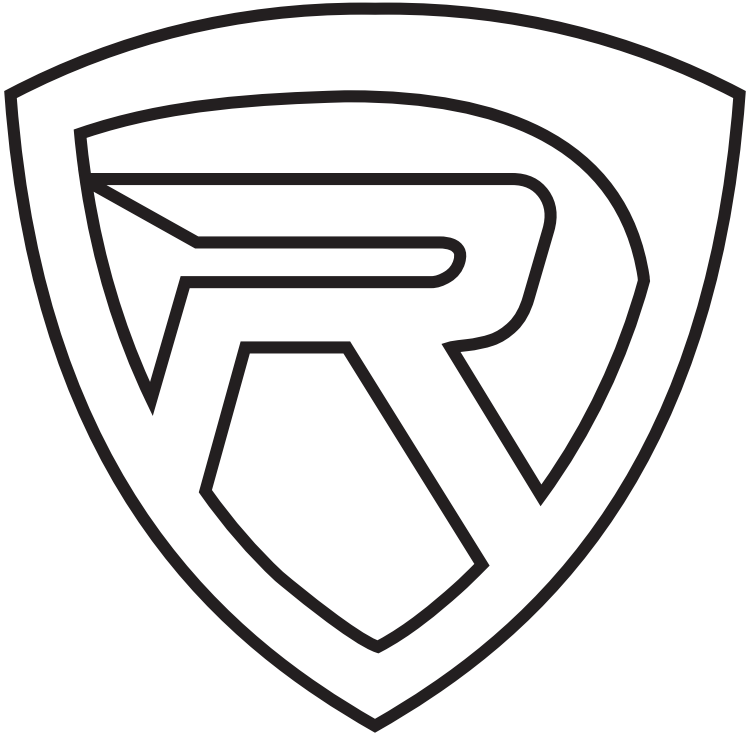
Address: 600 Bayview Ave.
Entrance A
Inwood, NY 11096

Hereby declares that the product(s) RAM-BT V2 pro audio speakers comply with FCC rules as mentioned in the following paragraph:

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.

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 to 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.



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RockvilleAudio.com

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