ROCKVILLE

RPA40BT
1000W 4 ZONE/CHANNEL HOME STEREO BLUETOOTH AMPLIFIER RECEIVER
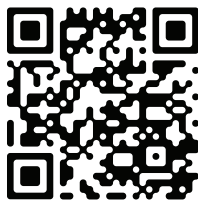
OWNER'S MANUAL

ATTENTION:
WATCH THIS VIDEO BEFORE FIRST USE!

Scan the **QR code** or go to **rockvillesupport.com/rpa40bt** for essential information, guides (video and/or written), and tips to make the most out of your purchase.

If you prefer written instructions, please read ahead!

With Rockville you get many options.

Missing items? If you ordered a bundle that includes more than one product and you are missing part of your bundle then it just means your order shipped from two different warehouses. You will receive the remaining items very soon. If you have any concerns or inquiries, feel free to call our customer support center at 1-646-758-0144, 24 hours a day/7 days a week.

Thank you for purchasing this Rockville product. Please read this installation guide carefully for proper use of your RPA40BT. Should you need assistance, please call our technical help line at 1-646-758-0144, 24 hours a day/7 days a week.

Includes
• Receiver
• Remote control for the MP3 module
• Owner's manual
• Video Card

Applications
• Multi-room home audio
• Offices
• Restaurant
• Bar
• School

IMPORTANT SAFETY INSTRUCTIONS

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

TO REDUCE THE RISK OF ELECTRICAL SHOCK, NEVER OPEN THE UNIT. THERE ARE NO USER-SERVICEABLE PARTS INSIDE. WE RECOMMEND SENDING THE UNIT TO THE ROCKVILLE SERVICE CENTER FOR ANY REPAIRS.

• Do not expose this unit to any kind of moisture.
• Please ensure that the unit is situated in a properly ventilated area.
• Do not attempt to operate this unit if the power cord has been frayed or broken.
• This unit is intended for indoor use only.
• Always mount this unit in a safe and stable manner.
• Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the point of exit from the unit.
• To avoid unnecessary wear and to improve the unit's life span, unplug the unit when not in use for extended periods of time.

Introduction
The RPA40BT is a 4 zone true 4 channel receiver for home audio or commercial audio. It has a true 4 channel amplifier built in. Each channel has independent volume controls allowing you to connect speakers in up to 4 different rooms. You can easily add on a wall volume controller if you want to control the volume from each room. Each channel/zone is 4-8 ohm stable which means you can connect (2) 8 ohm speakers in parallel on each channel which would allow you to connect up to 8 speakers (2 per zone).

Stereo/Mono
This has a stereo/mono switch which just means that if you connect 2 channels into a single zone you can get stereo separation of left and right channels. This receiver supports 4 mono zones/rooms or 2 stereo zones/rooms.

High power
When you pick this receiver up you can feel how heavy it is. It has a thick metal chassis to protect the internal amplifier. The amplifier puts out 250 watts RMS and 1,000 watts of peak power. All 4 zones/rooms have independent amplifiers that will easily power 1-2 speakers.

Playback options
The RPA40BT has a high quality Bluetooth chip with a 35 foot range. It also has an RCA input to connect any audio device as well as an optical input to connect your television. The RCA output allows you to expand your system and add a powered subwoofer or another amplifier. You can also connect 2 microphones directly to the front of the receiver and use this for karaoke or for PA announcements. There are built-in mic inputs with echo control and independent mic volume controls making this perfect for karaoke performances. Other playback options include SD card, USB playback, and FM radio.
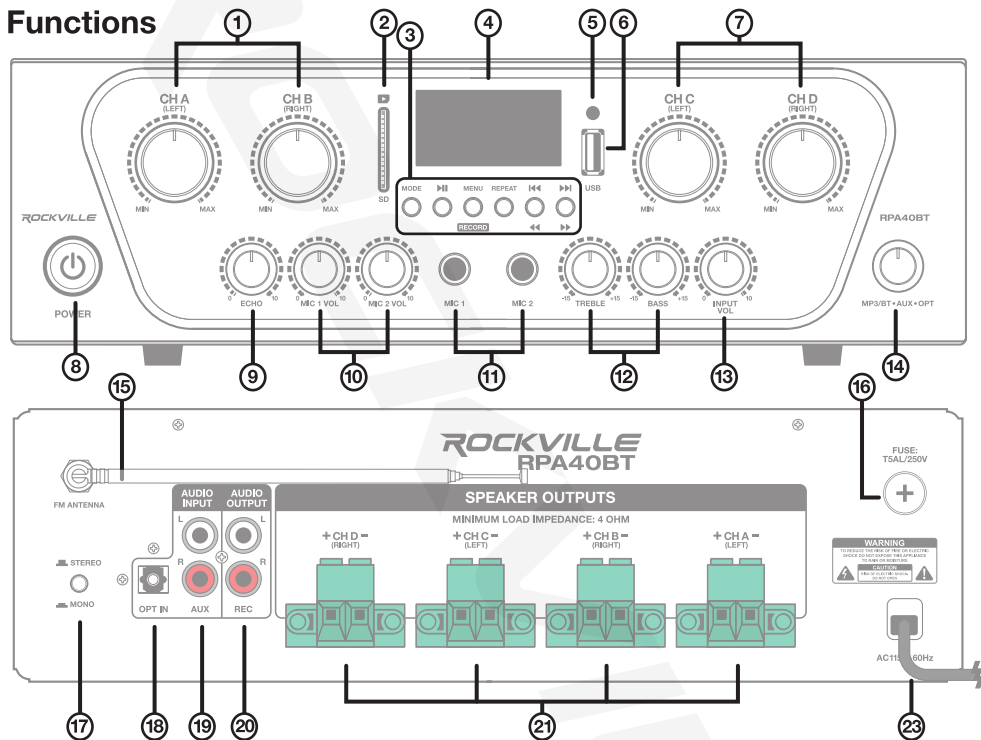
Controls

From the receiver you can control the volume of each zone/channel. There are bass and treble equalizer controls so you can tune the sound to your liking. You also get a master volume knob for the inputs and for the Bluetooth module.

Euro-block speaker terminals:

The euro-block speaker terminals make connecting speaker wire easier than ever. You can detach the terminals connect your speaker wire and then connect the terminals back to the receiver. That is way easier then sticking your head into a shelf and bumping it into the wall 10 times. Euro-block terminals will literally save you many headaches.

Functions

1. CH A (LEFT) and CH B (RIGHT) master volume knobs

2. SD Card input slot

3. MP3 module:

> **MODE:** Press to cycle through available input sources. Press and hold to enter or exit standby mode.
>
> ▶❙❙ (Play/Pause): In USB, SD, and Bluetooth modes, press to start or pause playback. In the folder menu, press to select desired file or folder. In FM radio mode, press and hold to automatically scan and save all available stations. Press and hold again to stop scan. Can save up to 40 stations.
>
> **MENU/RECORD:** Press this button to enter the folder menu (USB and SD mode only). Use the ❙◀◀/▶▶❙ (Previous/Next) buttons to cycle through files and/or folders. Press the ▶❙❙ (Play/Pause) button to select a file or enter a folder. Press and hold for 1 second to begin recording the RPA40BT's current output onto your USB thumb drive or SD card. Press the button again to stop recording. Press and hold for 5 seconds to force disconnect any paired BT device.
>
> **REPEAT:** Press to cycle through repeat modes (in this order): Repeat One, Repeat Random, Repeat All, and Repeat Folder.
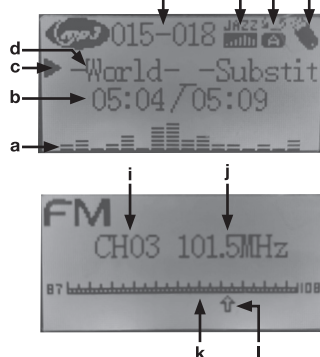>
> ❙◀◀/◀◀ (Previous/Rewind): In USB/SD modes, press this key to return to the previous track.

3

Press and hold to rewind the current track. In FM radio mode, press to cycle back through the saved stations. In FM radio and BT modes, press and hold to lower the volume.

▶▶|/▶▶ (Next/Fast Forward): In USB/SD modes, press this key to proceed to the next track. Press and hold to fast forward the current track. In FM radio mode, press to cycle foward through the saved stations. In FM radio and BT modes, press and hold to raise the volume.

4. LCD display
   a. Spectrum analyzer
   b. Elapsed track time/total track time
   c. Playback status
   d. Track name
   e. Track number, example track 15 of 18 tracks.
   f. Current EQ setting
   g. Current repeat mode
   h. current MP3 input source
   i. Saved station number
   j. Station frequency
   k. FM frequency bar
   i. Indicates the location of the current station's frequency.

5. RF receiver

6. USB input

7. CH C (LEFT) and CH D (RIGHT) master volume knobs

8. Power button

9. Mic echo control (see page 9)

10. Independent mic volume controls (see page 9)

11. ¼″ TS Mic inputs (see page 9)

12. 2 Band EQ controls

13. Input volume control (AUX, USB, SD, BT, FM radio, and Optical)

14. Input Source knob: Select input source (USB/SD/BT/FM radio, Auxiliary, Optical)

15. FM antenna

16. User-serviceable fuse compartment: T5A L/250V

17. Stereo/Mono: Press to select mono output mode. Depress to select stereo output mode.

18. Optical input w/LED to indicate when an optical signal is present.

19. Auxiliary RCA input

20. RCA Record output

21. CH D, CH C, CH B, and CH A Euroblock speaker outputs (see pags 6 –7)

23. Power cable (input voltage: 110V/60Hz)

Remote Control
1. **Standby:** Press to enter or exit standby mode. Please note, to turn the unit off, use the power button on the unit.

2. **MODE:** Press to cycle through available input sources.

3. **MUTE:** Press to mute playback.

4. **EQ (USB and SD mode only):** Press to cycle through the preset EQ settings, NORMAL/ROCK/POP/CLASSICAL/JAZZ,/COUNTRY.

5. **VOL+:** Press to increase the MP3 player's volume settings. Please note, this will not affect independent channel volume.

6. ▶▮ (Play/Pause): In USB, SD, and Bluetooth modes, press to start or pause playback. In FM radio mode, press and hold to automatically scan and save all available stations. Press and hold again to stop scan. Can save up to 40 stations.

7. |◀◀/◀◀ (Previous/Rewind): In USB/SD modes, press this key to return to the previous track.

4

Press and hold to rewind the current track. In FM radio mode, press to cycle back through the saved stations.
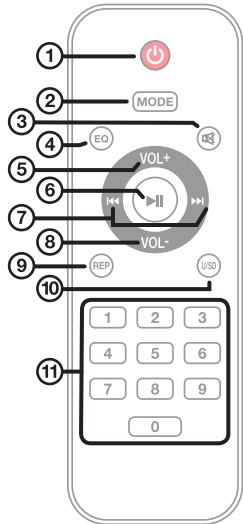
▶▶|/▶▶ (Next/Fast Forward): In USB/SD modes, press this key to proceed to the next track. Press and hold to fast forward the current track. In FM radio mode, press to cycle foward through the saved stations.

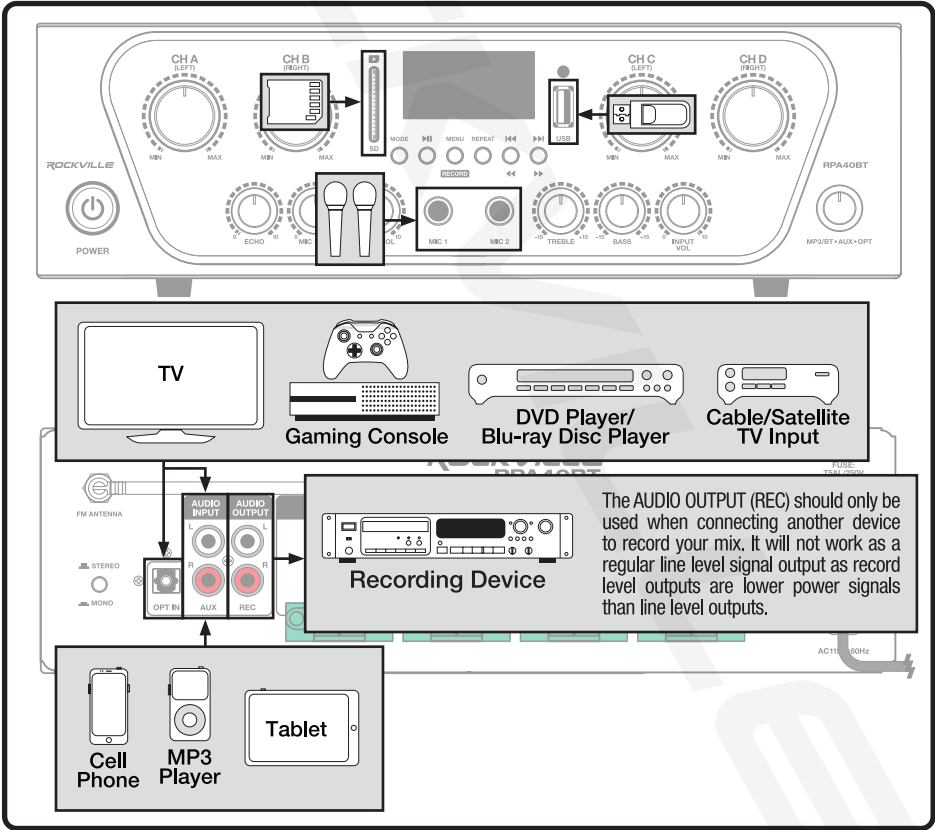8. **VOL-:** Press to decrease the MP3 player's volume settings. Please note, this will not affect independent channel volume.

9. **REP:** Press to cycle through repeat modes (in this order): Repeat One, Repeat Random, Repeat All, and Repeat Folder.

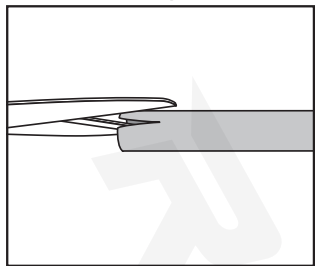10. **U/SD:** Press to toggle between USB and SD input.

11. **Number Pad:** Use the number pad select a specific track in USB and SD mode or a specific station in FM radio mode. When selecting radio stations, enter the station's frequency, no decimal needed. For example, if you are selecting 88.1, simply press 8-8-1 on the number pad. If you are selecting 102.9, enter 1-0-2-9 on the number pad.
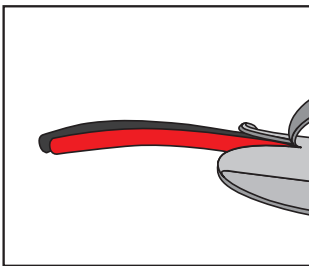

Input/Output Configurations

The AUDIO OUTPUT (REC) should only be used when connecting another device to record your mix. It will not work as a regular line level signal output as record level outputs are lower power signals than line level outputs.
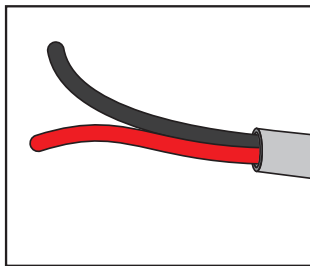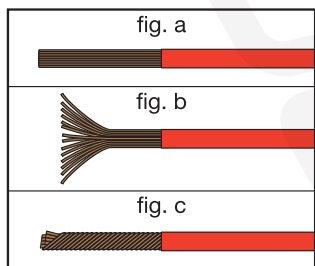
Connecting Speakers
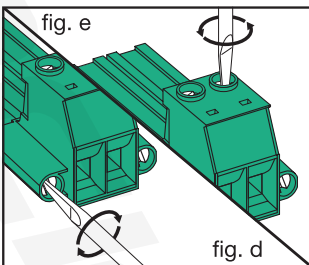

1. Carefully cut away a small amount of the speaker wire's insulation.

2. Peel back enough of the insulation to expose approximately 3 inches of wire.
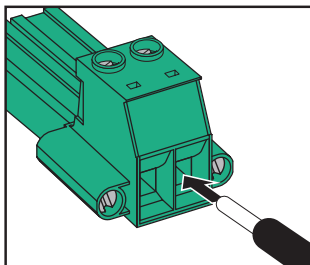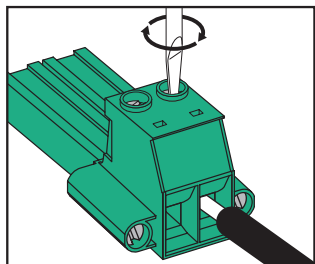

3. Cut off the excess insulation.

fig. a

fig. b

fig. c

4. Strip ¼″ of insulation from each wire (fig. a). Fan out the strands (fig. b) and twist them (fig. c) making sure that there are none sticking out.
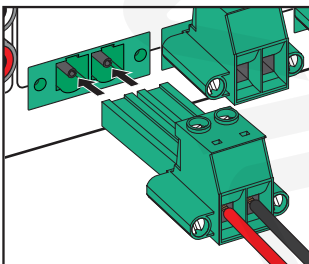

fig. e

fig. d

5. Loosen the screws at either end of the Phoenix terminal (fig. d) and pull it away from the amp. Now loosen the terminal screws on top (fig. e).
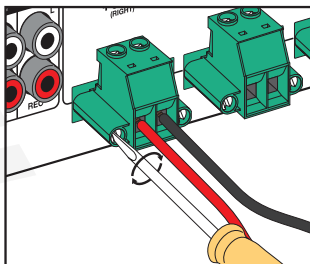

6. Insert the appropriate wire into the corresponding slot. Check that the wire is fully inserted and properly seated.

7. Tighten the terminal, do not overtighten. Repeat this procedure for the other wire(s). Make sure you've inserted the wire into the correct slot.

8. Plug the terminal into the zone slots. Gently push it until you hear it click.

9. Tighten the screws at either end of the terminal to lock it in place. Do not overtighten.
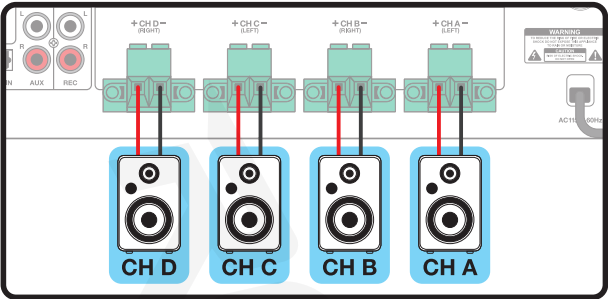
Speaker Output Configurations

The RPA40BT has the ability to output a mono or stereo signal. Simply press (mono) or depress (stereo) the mono/stereo button on the back of the unit. Please refer to the explanations of mono and stereo output below.

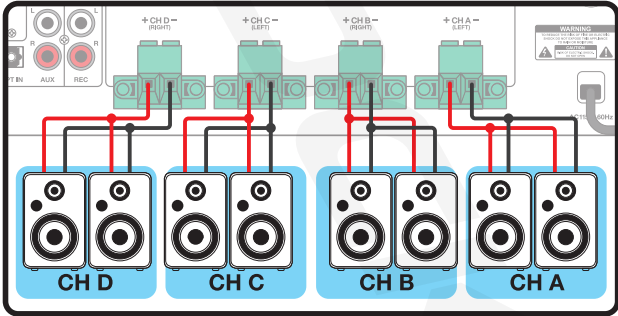> **(!) ATTENTION:** It's important that you match the impedance of your speakers to your amplifier. The RPT40BT has a minimum speaker impedance of 4 ohms; hence, the total impedance of your speakers must not be less than 4 ohms. Be sure to observe proper polarity.

Mono: In mono mode, the L/R audio signal is sent to one channel. Hence each speaker is playing the left and right signal at once.

Option 1: One 4-ohm or 8-ohm speaker connected to each channel.

Option 2: Two 8-ohm speakers, in parallel, connected to each channel.
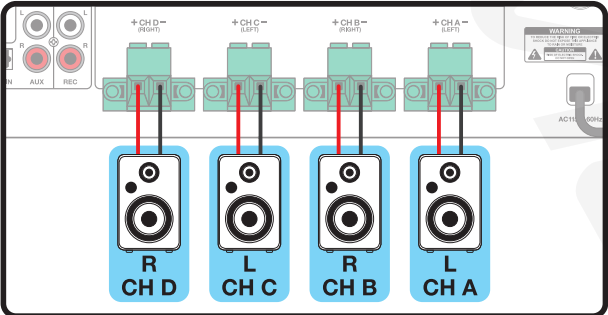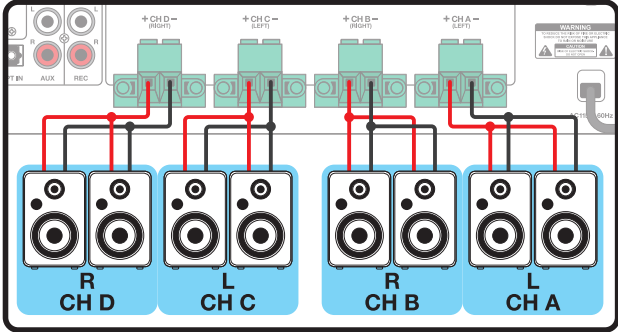

Stereo: In stereo mode, the audio signal is split into two channels, left and right. One speaker will play the left signal (channels C and A) and the other speaker will play the right signal (channels D and B) .

Option 1: One 4-ohm or 8-ohm speaker connected to each channel.

Option 2: Two 8-ohm speakers, in parallel, connected to each channel.

Bluetooth

Pairing

1. Turn the unit on and set the input selector knob to MP3/BT. Ensure that the INPUT and CH volume knobs are turned up. Now, push the **MODE** button to enter pairing mode. The LCD screen will read DISCONNECTED with the Bluetooth logo immediately below it.

2. Locate and select RPA40BT on your BT devices list of available connections.

3. Upon successful pairing, the LCD screen will read CONNECTED with the Bluetooth logo immediately below it.

4. To unpair, disconnect via your BT device's BT control panel. The unit will remember the last paired device.

Playback (controlled from the unit, the remote control, or your device)

1. **Play/Pause:** Press once to play current track; press again to pause.

2. ⏮ (Previous/Vol-): Press this key to return to the previous track. Press and hold to lower the volume.
   ⏭ (Next/Vol+): Press this key to proceed to the next track. Press and hold to raise the volume.

Please note, volume can be controlled via your device, the Previous/Next buttons on the unit (see no.2 above), the INPUT VOL knob, and the channel volume knobs. These controls must be set separately as they work independently of each other. To force disconnect all paired devices, press and hold the MENU/RECORD button for 5 seconds.

USB/SD

1. Set the input selector knob to MP3/BT. Ensure that the INPUT and CH volume knobs are turned up. Plug a USB drive into the USB port or an SD card into the card reader on the front panel. The unit will automatically begin to play music stored on the external device.

Playback (controlled from the unit or the remote control.)

1. **Play/Pause:** Press once to play current track; press again to pause.

2. ⏮/⏪ (Previous/Rewind): Press this key to return to the previous track. Press and hold to rewind the current track. Rewind is not available on the remote.
   ⏩/⏭ (Next/Fast-forward): Press this key to proceed to the next track. Press and hold to fast-forward the current track. Fast-forward is not available on the remote.

3. **Volume:** Volume is controlled via the INPUT VOL knob and the channel volume knobs. Please note, these controls must be set separately as they work independently of each other.

Folder Menu/Record Function: For detailed information on how-to record to or access folders on your USB drive or SD card, please refer to page 4, item 3, MENU/RECORD section.

Please note, connecting a USB drive or SD card will override other MP3 input modes. Formatting is not necessary, but if you do so, do not use the NTFS format. Supported file formats: MP3, WMA, WAV, FLAC, and APE.

AUX

Use the RCA AUX in audio inputs to connect line-level sources such as TVs, digital set-top boxes, DVD/Blu-ray disc players, gaming consoles, laptops, MP3 players, cell phones, tablets, etc. Mono audio sources can be connected using an RCA Y-cable connector.

Make sure that the input selector knob is set to AUX. All playback functions are controlled via your source device. Volume is controlled via your device, the INPUT VOL knob, and the channel volume knobs. Please note, these controls must be set separately as they work independently of each other.

Optical

Many TVs, digital set-top boxes, DVD/Blu-ray disc players, and gaming consoles have an optical (fiber optic) output. To connect your device to the RPA40BT using the optical input, follow the steps below.

1. Use a digital optical audio cable to connect the sound source to the amplifier.

2. Set the input source knob to OPT. Ensure that the INPUT and CH volume knobs are turned up.

FM Radio (controlled from the unit or the remote control)

1. Set the input selector knob to MP3/BT. Ensure that the INPUT and CH volume knobs are turned up.

2. Press the Mode button until the LCD display indicates you are in radio mode.

3. Make sure the antenna is up and fully extended.

4. Press and hold the Play/Pause button to automatically scan and save all available stations.

5. Use the ⏮ (Previous) to cycle back through the saved stations or press and hold to lower the FM radio's volume. ⏭ (Next) to cycle back through the saved stations or press and hold to lower the FM radio's volume.

6. **Volume:** Volume is controlled via the Previous/Next buttons on the unit (see no.5 above), the remote control, the INPUT VOL knob, and the channel volume knobs. While the remote control and Previous/Next buttons are synchronized, the channel volume knobs work independently so they must be set separately.

Mic Connections, Mic Volume, and Echo

1. Connect wired mics (not included) to either one of the ¼˝ mic jacks.

2. **Mic Volume:** Use the knobs marked MIC 1 VOL and MIC 2 VOL independently control each mic's volume.

3. **Echo:** The echo effect adds a series of repeated, decaying echoes to a sound. Equalizing the delays will change a room's sound characteristics from one that has reflective surfaces (brighter-sounding echoes) to one that is totally absorptive (darker-sounding echoes).

Features

• 1000W 4 Zone/Channel Home Stereo Bluetooth Amplifier/Receiver

• 4 Independent channels/zones/rooms/rooms each with volume control

• 4 Mono zones/rooms or 2 Stereo zones/rooms

• RMS Power: 4 x 62.5W @ 4 Ohms/4 x 40W @ 8 Ohms

• Peak Power: 4 x 250W @ 4 Ohms/ 4 x 160W @ 8 Ohms

• Built-in Bluetooth with 35 foot range

• Rear RCA input

• Rear Optical input

• Rear RCA output for a powered sub or adding another amplifier

• 4 sets of oversized detachable speaker terminals (Euro-block plugs)

• Two ¼″ Mic Inputs on front panel

• USB and SD inputs

• Record output to mixer or recording device

• Bass and treble control knobs

• FM Radio Tuner with Presets & Auto-Scan

• Built-in Pre-Amplifier

• Preset EQ for Bluetooth/USB/SD (2 band EQ for other inputs)

• Remote control for MP3 module only (does not control zone volume)

• Variable speed cooling fan

• Input Sensitivity: 300mv/20k Ohm

• Frequency Response: 20Hz – 20kHz

• Signal to Noise Ratio: 60dB

• Tone Characteristic: 100Hz – 10kHz ±12dB

• THD: > 0.1%

• Dimensions in inches (W x D x H): 11.97″x 11.4″ x 3.86″

• Weight: 13.23 lbs

Troubleshooting

PROBLEM	SOLUTION
No power	1. Make sure the unit is plugged in and the power switch is in the ON position. 2. Check that the power cable is properly plugged into the wall socket. 3. Check and replace the fuse if necessary. 4. If people or equipment tend to step and roll over or stretch your power cable, it can get damaged. Check the power cable for damage. If the cable is damaged, discontinue using the unit until the cable can be repaired.
No sound/low sound/distorted sound	1. Check that all appropriate cables and wires are plugged in correctly. 2. Check the INPUT VOL knob, the Microphone volume settings, the MP3 module volume (Bluetooth and FM radio mode), and the independent channel volume settings. 3. Check the volume settings on your input devices. 4. If using wall volume controls, be sure the volume is set properly. 5. Make sure the proper input source is selected. 6. Make sure you are using the proper type of speakers.

PROBLEM	SOLUTION
No sound/low sound/distorted sound	7. Make sure speakers are wired correctly (plus to plus, minus to minus; not plus to minus or vice versa). 8. Make sure the speakers' power ratings match the amplifier's.
Buzzing sound	1. Make sure you are using the proper cable. Check the requirements of the connected gear and the inputs on the amplifier and make sure you are using the appropriate cable. This unit's ¼″ mic outputs are TS (unbalanced) so you will need a TS mic cable. 2. For line inputs be sure to use high quality RCA cables.
Mic feedback or poor sound	1. Point mics away from any nearby speakers. 2. Make sure the microphones are on and the volume controls are properly set. 3. Make sure the microphone cables are properly connected and that you are using good-quality TS mic-specific cables.
Bluetooth pairing fails	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. 6. Make sure that the unit is not paired to a previously paired device.
No USB playback	1. Make sure you've selected the proper source. 2. Make sure that the audio files are in the specified format: MP3, WMA, WAV, FLAC, and APE 3. Make sure the USB drive is not formatted in NTFS format.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION
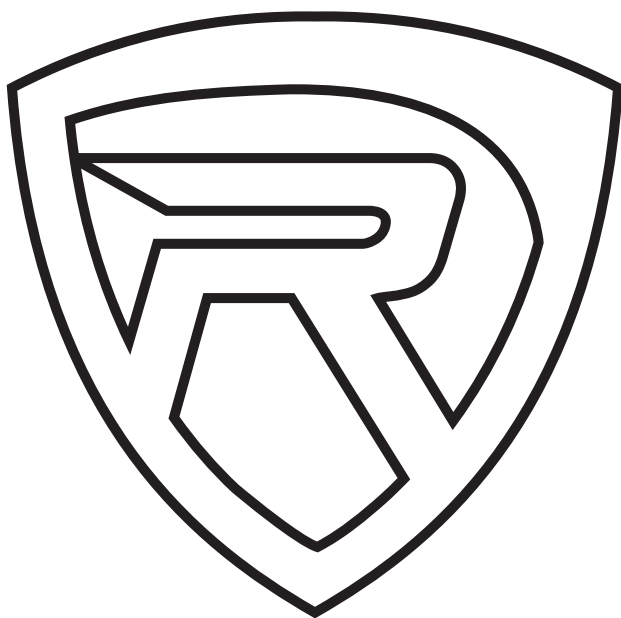
Hereby declares that the product(s) RPA40BT complies with FCC rules as mentioned in the following paragraph:

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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