

## Technical Pro RX113+(2) HC85

# Technical Pro RX113BT Home Theater System User Manual

Model: RX113+(2) HC85

## INTRODUCTION

---

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Technical Pro RX113BT 1500w Home Theater Amplifier Receiver and Rockville HC85 8" In-Ceiling Speakers. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

## PACKAGE CONTENTS

---

Verify that all items listed below are included in your package:

- (1) Technical Pro RX113BT 1500w Bluetooth Home Receiver Amplifier Amp with 10 Band EQ
- (2) Pairs of Rockville HC85 8" Inch 700 Watt In-Ceiling Home Theater Speakers (4 speakers total)
- Rack Ears (detachable)
- Feet attached to bottom of receiver
- Remote Antenna
- Owners Manual (this document)
- Power Plug
- Remote Control



Image: The Technical Pro RX113BT amplifier receiver shown with four Rockville HC85 in-ceiling speakers.

## SAFETY INFORMATION

**WARNING:** To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not open the casing; there are no user-serviceable parts inside. Refer all servicing to qualified service personnel.

- Ensure proper ventilation around the unit. Do not block ventilation openings.
- Do not place the unit near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.

## SETUP

### Amplifier Placement

The RX113BT amplifier can be placed on a flat surface or mounted in a standard 19-inch audio rack using the included detachable rack ears. Ensure adequate space for ventilation, especially around the cooling fan.



Image: Front view of the RX113BT amplifier, showing its controls and the option for rack mounting.

### Speaker Installation (Rockville HC85 In-Ceiling Speakers)

The HC85 speakers are designed for in-ceiling installation. Refer to the separate speaker installation guide for detailed instructions on cutting the ceiling opening and securing the speakers. The cut-out diameter is 9.3 inches and mounting depth is 3.03 inches.



Image: A Rockville HC85 in-ceiling speaker with its grille removed, revealing the 8-inch woofer and Mylar dome tweeter.



Image: Two white, paintable grilles for the Rockville HC85 in-ceiling speakers.

## Connecting Speakers to Amplifier

The RX113BT supports 5-channel surround sound. Connect your speakers to the appropriate outputs on the rear panel of the amplifier. The HC85 speakers have an impedance of 8 Ohms.

- Use high-quality speaker wire.
- Connect the positive (+) terminal of the speaker to the positive (+) terminal of the amplifier output.
- Connect the negative (-) terminal of the speaker to the negative (-) terminal of the amplifier output.
- Ensure all connections are secure to prevent short circuits.



Image: Rear panel of the RX113BT amplifier, highlighting the speaker output terminals (Banana Binding Post and Push Button) and various audio inputs.

## Connecting Audio Sources

The amplifier features multiple input options:

- **RCA Inputs:** Connect up to three audio sources (e.g., CD player, DVD player, game console) using RCA cables.
- **Aux Input:** Use the 1/8" (3.5mm) input for connecting MP3 players or other portable devices.
- **Bluetooth:** Pair your Bluetooth-enabled device wirelessly (see Operating Instructions).
- **Microphone Inputs:** Two 1/4" microphone inputs are available on the front panel for karaoke or DJ use.

## Power Connection

Connect the supplied power cord to the amplifier's power input and then to a suitable wall outlet. The unit is 110-220V switchable. Ensure the voltage selector on the rear panel matches your local power supply before plugging in.

## OPERATING INSTRUCTIONS

---

### Powering On/Off

Press the **POWER** button on the front panel to turn the unit on or off.

### Source Selection

Use the input selector buttons (TUNER, AUX, MP3, DVD) on the front panel or remote control to choose your desired audio source.

### Volume Control

Adjust the master **VOLUME** knob on the front panel or use the volume buttons on the remote control.

### Equalizer Adjustment

The RX113BT features dual 10-band equalizers with individual LED indicators. Adjust the sliders for each frequency band to customize the audio output to your preference. Each EQ band is individually lit with a blue LED for easy readout.



Image: Close-up of the RX113BT amplifier's front panel, highlighting the dual 10-band graphic equalizer with its illuminated sliders.

### Bluetooth Pairing

1. Select the **BLUETOOTH** input source.
2. On your Bluetooth-enabled device (smartphone, tablet, etc.), enable Bluetooth and search for available devices.
3. Select "RX113BT" from the list of devices.
4. Once paired, audio from your device will play through the amplifier.

### Karaoke / DJ Functions

Connect microphones to the **MIC1** or **MIC2** inputs on the front panel. Use the **MIC VOL**, **ECHO**, **MIC BASS**, and **MIC TREBLE** controls to adjust microphone levels and effects.

The **MICROPHONE DELAY** buttons (50MS, 100MS, 150MS, 200MS) allow you to add a delay effect to the microphone output.

## FM Tuner

Select the **TUNER** input. Use the tuning controls to manually scan for FM radio stations. The digital fluorescent output display meter will show tuning information.

## Surround Sound

The amplifier supports 5-channel surround sound. Ensure your speakers are connected correctly to the surround sound outputs. Use the **SURROUND SOUND** knob to adjust the surround effect.

## MAINTENANCE

---

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier and speakers. Do not use liquid cleaners or aerosols.
- **Ventilation:** Periodically check that the ventilation openings on the amplifier are clear of dust and debris to ensure proper cooling. The built-in cooling speed fan helps maintain optimal operating temperature.
- **Speaker Grilles:** The speaker grilles are paintable. If painting, ensure the paint does not clog the perforations.

## TROUBLESHOOTING

---

Problem	Possible Cause	Solution
No power	Power cord not connected; power outlet faulty; voltage selector incorrect.	Ensure power cord is securely plugged in. Test outlet with another device. Verify voltage selector (110/220V) matches local supply.
No sound from speakers	Incorrect input selected; speaker wires loose or incorrectly connected; volume too low; mute engaged.	Select correct input source. Check all speaker wire connections (positive to positive, negative to negative). Increase volume. Ensure mute is off.
Bluetooth not connecting	Amplifier not in Bluetooth mode; device too far; device already paired with another unit.	Ensure amplifier input is set to Bluetooth. Move device closer to amplifier. Disconnect device from other Bluetooth devices and try again.
Distorted audio	Volume too high; incorrect equalizer settings; faulty audio source.	Reduce volume. Adjust equalizer settings. Test with a different audio source.

## SPECIFICATIONS

---

### Technical Pro RX113BT Amplifier

- **Peak Power:** 1500 Watts
- **Channels:** 5 Channel Surround Sound
- **Equalizer:** Dual 10-band with individual LED indicators
- **Inputs:** RCA (3 audio sources), 1/8" (MP3/Aux), Bluetooth, Dual 1/4" Microphone
- **Outputs:** Banana Binding Post (2 Speakers), Push Button (Surround Sound Speakers), RCA (1 Record Line, 2 Mono to Subwoofer)
- **Tuner:** FM Manual Tuner
- **Features:** Cooling Speed Fan, Digital Display, Digital Fluorescent Output Display Meter, Removable Rack-Mount Brackets, Remote Control, Balance, Bass and Treble controls, Bass Booster, Echo, Treble controls for Mic.
- **Dimensions:** 17"w (19" w/ brackets) x 5"h x 12.25"d

- **Weight:** 15 lbs
- **Voltage:** 110-220V Switchable

## Rockville HC85 In-Ceiling Speakers

- **Peak Power Handling:** 350 Watts (per speaker) / 700 Watts (per pair)
- **RMS Power Handling:** 120 Watts (per speaker) / 240 Watts (per pair)
- **Woofers:** 8" Polypropylene Cone with Rubber Surround
- **Voice Coil:** 1" Aluminum
- **Tweeter:** Mylar Dome, Aim-able Swivel
- **Magnet:** 20 oz. Ferrite
- **Terminals:** High Quality Spring Loaded Push
- **Frequency Response:** 40Hz - 20KHz
- **Sensitivity:** 89dB @ 1w / 1m
- **Impedance:** 8 Ohms
- **Mounting Depth:** 3.03 inches
- **Cut-out Diameter:** 9.3 inches
- **Color:** White (paintable)

## WARRANTY AND SUPPORT

---

This product comes with a manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support or service inquiries, please contact Technical Pro customer service. Information regarding protection plans is available from your retailer.

**Manufacturer:** Technical Pro

**Date First Available:** September 17, 2018

© 2024 Technical Pro. All rights reserved.  
For more information, visit [technicalpro.com](https://www.technicalpro.com)