

RCA RP7887

RCA RP7887 Super Radio 3 User Manual

Model: RP7887

Brand: RCA

INTRODUCTION

Welcome to the user manual for the RCA RP7887 Super Radio 3. This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your new radio. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

The RCA RP7887 Super Radio III is designed for high performance, offering exceptional long-range reception and sensitivity for both AM and FM frequencies. It features a 2-way speaker system with a 6.5" high sensitivity woofer and 2" cone tweeters, providing crisp and clear audio. Separate bass and treble controls allow for personalized sound adjustment. The radio supports 2-way power (AC/DC) with automatic switching, and includes external antenna terminals for enhanced reception.

PRODUCT OVERVIEW

The RCA RP7887 Super Radio 3 is a portable AM/FM radio engineered for superior reception and sound quality.

Key Features

- High performance AM/FM radio with long-range reception and sensitivity.
- 2-way speaker system: 6.5" high sensitivity woofer and 2" cone tweeters.
- Separate bass and treble controls for audio customization.
- Thumbwheel tuning controls for precise station selection.
- External AM/FM antenna terminals for connecting an external antenna.
- 2-Way Power with Automatic (AC/DC) Switching.

Components and Controls



Figure 1: Front view of the RCA RP7887 Super Radio 3.

This image displays the front of the RCA RP7887 Super Radio 3. Visible features include the large speaker grille covering the woofer and tweeter, the tuning dial with frequency markings for FM (88-108 MHz) and AM (530-1700 KHz), and the control panel on the right. The control panel includes switches for Wide/Normal band, AM/FM band selection, and AFC (Automatic Frequency Control) on/off. Below these are rotary knobs for Treble, Bass, and Volume. The RCA logo is located on the bottom left of the speaker grille. A carrying handle is visible at the top.

1. Tuning Dial: Displays the current radio frequency for AM and FM bands.



Figure 2: Tuning Dial.

This close-up shows the tuning dial of the radio. The top scale indicates FM frequencies from 88 to 108 MHz, while the bottom scale shows AM frequencies from 530 to 1700 KHz. A red indicator line moves along the scale to show the tuned frequency. A "LOG SCALE" is also present above the FM frequencies.

2. Speaker Grille: Protects the 6.5" woofer and 2" tweeters.



Figure 3: Speaker Grille and RCA Logo.

This image focuses on the speaker grille, which is a black mesh covering the audio components. The RCA logo is prominently displayed in white on the lower left portion of the grille, indicating the brand of the radio.

3. Control Panel: Contains switches for band selection and AFC, and rotary knobs for audio adjustments.



Figure 4: Control Panel.

This close-up shows the right-side control panel. From top to bottom, there are three slide switches: "WIDE/NORMAL" for band width, "AM/FM" for band selection, and "AFC ON/OFF" for Automatic Frequency Control. Below these are three rotary knobs labeled "TREBLE", "BASS", and "VOLUME", allowing users to adjust audio output.

- 4. **Carrying Handle:** Integrated handle for portability.
- 5. **External Antenna Terminals:** Located on the rear (not pictured), for connecting an external antenna.

SETUP

Powering the Radio

The RCA RP7887 Super Radio 3 can be powered by AC (household current) or DC (batteries).

AC Power

1. Ensure the radio is placed on a stable, flat surface.
2. Locate the AC power cord (if included or connect a standard AC cord).
3. Plug one end of the AC power cord into the AC input jack on the radio (usually located on the back).
4. Plug the other end into a standard wall outlet (120V AC, 60Hz).

5. The radio will automatically switch from DC to AC power when plugged in, conserving battery life.

DC (Battery) Power

The radio requires 6 D-size batteries (not included).

1. Open the battery compartment cover, typically located on the back or bottom of the radio.
2. Insert 6 D-size batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
3. Close the battery compartment cover securely.
4. When operating on battery power, the radio will draw power from the installed batteries.

Note: Remove batteries if the radio will not be used for an extended period to prevent leakage and damage.

Antenna Setup

For optimal reception, extend the telescopic antenna for FM reception. For AM reception, the radio uses a built-in ferrite bar antenna, but an external AM antenna can be connected to the external antenna terminals for improved signal.

OPERATING INSTRUCTIONS

Turning On/Off and Volume Control

1. To turn the radio on, rotate the **VOLUME** knob clockwise until a click is heard and the radio powers on.
2. Adjust the volume by rotating the **VOLUME** knob clockwise to increase and counter-clockwise to decrease.
3. To turn the radio off, rotate the **VOLUME** knob counter-clockwise until a click is heard and the radio powers off.

Tuning to a Station

1. Select the desired band (AM or FM) using the **BAND** slide switch on the control panel.
2. Rotate the **TUNING** thumbwheel control (located on the top right of the radio) to scan for stations. Observe the tuning dial to locate the frequency.
3. For FM reception, fully extend and adjust the telescopic antenna for the best signal.
4. For AM reception, rotate the radio for optimal signal strength, as the built-in ferrite bar antenna is directional.

Audio Adjustment

Use the **TREBLE** and **BASS** rotary knobs on the control panel to customize the sound output.

- **TREBLE:** Adjusts the high-frequency sounds. Rotate clockwise for brighter sound, counter-clockwise for softer highs.
- **BASS:** Adjusts the low-frequency sounds. Rotate clockwise for deeper bass, counter-clockwise for less bass.

Wide/Normal Band Switch

The **WIDE/NORMAL** slide switch (for AM band only) allows you to adjust the radio's selectivity.

- **WIDE:** Provides a wider audio bandwidth, which can result in richer sound quality, especially for strong local stations.
- **NORMAL:** Narrows the audio bandwidth, which can help in separating closely spaced stations and reducing interference from adjacent channels, useful for weaker signals.

Automatic Frequency Control (AFC)

The **AFC** slide switch (for FM band only) helps to stabilize FM reception.

- **ON:** Engages the AFC, which automatically fine-tunes the frequency to maintain a stable signal, reducing drift.
- **OFF:** Disables the AFC, allowing for manual fine-tuning, which can be useful for very weak or distant FM stations.

MAINTENANCE

Cleaning

To clean the radio, use a soft, dry cloth. For stubborn marks, slightly dampen the cloth with water.

- Do not use abrasive cleaners, waxes, or solvents (e.g., alcohol, benzene, thinners) as they may damage the cabinet finish.
- Avoid spraying liquids directly onto the radio.

Battery Care

- Replace all batteries at the same time. Do not mix old and new batteries.
- Do not mix different types of batteries (e.g., alkaline and rechargeable).
- Remove batteries if the radio will not be used for an extended period to prevent battery leakage and corrosion.
- Dispose of used batteries responsibly according to local regulations.

Storage

When storing the radio, ensure it is turned off and disconnected from AC power. Store in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

If you experience issues with your RCA RP7887 Super Radio 3, please refer to the following common problems and solutions before seeking professional service.

Problem	Possible Cause	Solution
No power	AC cord not plugged in; Batteries dead or incorrectly inserted.	Check AC cord connection; Replace batteries, ensuring correct polarity.
Poor reception / Static	Antenna not extended/adjusted; Weak signal; Interference from other electronics.	Fully extend and adjust telescopic antenna (FM); Rotate radio for AM; Move radio away from interfering devices; Try connecting an external antenna.
Sound distorted	Volume too high; Bass/Treble settings incorrect; Weak signal.	Lower volume; Adjust Bass/Treble knobs; Improve reception.
Tuning drift (FM)	AFC is off.	Turn AFC switch to ON .
AM stations difficult to tune	WIDE/NORMAL switch set to WIDE for weak signals.	Set WIDE/NORMAL switch to NORMAL for better selectivity.

SPECIFICATIONS

Feature	Detail
Model	RP7887

Feature	Detail
Brand	RCA
Tuner Technology	AM/FM
Speaker System	2-way (6.5" woofer, 2" cone tweeters)
Power Source	AC (120V, 60Hz) / DC (6 x D-size batteries)
Product Dimensions	13.4 x 4.3 x 9.2 inches
Item Weight	4.7 pounds
Connectivity	Wired (External Antenna Terminals)
Material	Plastic

WARRANTY AND SUPPORT

Limited Warranty

RCA products are manufactured and sold by Alco Electronics Ltd. under license from RCA. This product is covered by a limited warranty against defects in material or workmanship for a period of one year from the date of original purchase. This warranty does not cover damage caused by accident, misuse, abuse, improper installation or operation, or unauthorized repairs.

For specific warranty terms and conditions, please refer to the warranty card included with your product or contact customer support.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact RCA customer support.

Please have your model number (RP7887) and purchase information ready when contacting support.

Note: Contact information for customer support (phone number, website) is typically provided on the product packaging or a separate warranty card.