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› [SOCOTRAN](#) /

› SOCOTRAN SC-R40 FRS Two-Way Radio User Manual

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Model: SC-R40

1. INTRODUCTION

Thank you for choosing the SOCOTRAN SC-R40 FRS Two-Way Radio. This manual provides essential information for the safe and efficient operation of your device. The SC-R40 is a compact, rechargeable, and license-free radio designed for reliable communication over short to medium distances, ideal for outdoor activities, family trips, and professional use.



Figure 1: SOCOTRAN SC-R40 Two-Way Radios with included accessories.

2. What's in the Box

Your SOCOTRAN SC-R40 package includes:

- 2 × SOCOTRAN SC-R40 Two-Way Radios
- 2 × 1500mAh Li-ion Batteries
- 1 × USB Charging Cable
- 2 × Belt Clips
- 1 × User's Manual (this document)
- 2 × Lanyards

3. PARTS OF THE RADIO

Familiarize yourself with the different components of your SC-R40 radio:



Figure 2: Front and side view of the SC-R40 with key components labeled.

Antenna: For transmitting and receiving signals.

MIC/DC: Microphone and charging port.

LED: Indicator light.

PTT (Push-to-Talk) Button: Press and hold to transmit, release to listen.

DOWN Button: Navigates menu options downwards or decreases values.

SCAN/LOCK Button: Initiates channel scan or locks/unlocks the keypad.

Microphone: For voice input during transmission.

MENU/POWER Button: Accesses menu settings or turns the radio on/off.

UP Button: Navigates menu options upwards or increases values.

LAMP/MONI Button: Activates the flashlight or monitors the current channel.

LCD Display: Shows channel, volume, battery status, and other indicators.

4. SETUP

4.1 Battery Installation

The SC-R40 uses a rechargeable 1500mAh Li-ion battery. To install:

1. Locate the battery compartment cover on the back of the radio.
2. Slide the cover downwards to open.
3. Insert the Li-ion battery into the compartment, ensuring the contacts align correctly.
4. Replace the battery compartment cover and slide it upwards until it clicks into place.



Figure 3: Battery installation process.

4.2 Charging the Battery

Before first use, fully charge the battery. The SC-R40 can be charged via USB, offering versatile charging options:

1. Connect the USB charging cable to the MIC/DC port on top of the radio.
2. Connect the other end of the USB cable to a compatible power source (e.g., PC, power bank, car charger adapter).
3. The LED indicator will show charging status (refer to specifications for color indications).

4. A full charge typically takes approximately 12 hours for the first charge, and less for subsequent charges.



Figure 4: Various charging methods for the SC-R40.

4.3 Attaching Belt Clip and Lanyard

For convenient carrying, attach the included belt clip and lanyard:

- **Belt Clip:** Align the belt clip with the grooves on the back of the radio and slide it upwards until it locks into place.
- **Lanyard:** Thread the lanyard through the small loop located near the top of the radio.



Figure 5: SC-R40 with attached lanyard for easy carrying.

5. OPERATION

5.1 Power On/Off

- **To Power On:** Press and hold the **MENU/POWER** button until the LCD screen illuminates and you hear a confirmation tone.
- **To Power Off:** Press and hold the **MENU/POWER** button until the LCD screen turns off.

5.2 Channel Selection

The SC-R40 features 22 FRS channels. To change channels:

1. Press the **MENU/POWER** button once to enter channel selection mode. The channel number on the LCD will flash.

2. Use the **UP** or **DOWN** buttons to select your desired channel (1-22).
3. Press the **MENU/POWER** button again to confirm your selection, or wait a few seconds for it to automatically confirm.

5.3 Volume Adjustment

Adjust the listening volume using the UP and DOWN buttons when not in menu mode. The volume level (1-8) will be displayed on the LCD.

5.4 VOX Function (Hands-Free Operation)

VOX (Voice Operated Exchange) allows you to transmit without pressing the PTT button. The radio will automatically transmit when it detects your voice.

1. Press the **MENU/POWER** button multiple times until "VOX" appears on the LCD.
2. Use the **UP** or **DOWN** buttons to select the VOX sensitivity level (1-3, with 3 being most sensitive) or "OFF" to disable.
3. Press **MENU/POWER** to confirm.

5.5 Keypad Lock

To prevent accidental changes to settings:

- **To Lock:** Press and hold the **SCAN/LOCK** button until a key icon appears on the LCD.
- **To Unlock:** Press and hold the **SCAN/LOCK** button again until the key icon disappears.

5.6 Flashlight

The SC-R40 includes a built-in flashlight for convenience in low-light conditions.

- **To Turn On:** Press the **LAMP/MONI** button once.
- **To Turn Off:** Press the **LAMP/MONI** button again.

RUGGED DESIGN

Passed Drop Test Safe for Kids Using



Figure 6: SC-R40 with activated flashlight.

5.7 Push-to-Talk (PTT)

To communicate, press and hold the **PTT** button while speaking clearly into the microphone. Release the button to listen for a response.

5.8 Scanning for Active Channels

The scan feature allows you to find active channels automatically.

- Press the **SCAN/LOCK** button once to start scanning. The radio will cycle through channels until an active one is found.
- To stop scanning, press the **SCAN/LOCK** button again.

5.9 Privacy Codes (CTCSS/DCS)

The SC-R40 supports 38 CTCSS (Continuous Tone-Coded Squelch System) codes and 99 DCS (Digitally Coded Squelch) codes. These codes help filter out unwanted conversations on the same channel.

1. After selecting a channel, press the **MENU/POWER** button twice to enter CTCSS/DCS selection mode.
2. Use the **UP** or **DOWN** buttons to select a code. "Hi" indicates CTCSS, "Lo" indicates DCS.

3. Press **MENU/POWER** to confirm. Both radios must be on the same channel and privacy code to communicate.

6. SPECIFICATIONS

Feature	Detail
Model Number	SC-R40
Brand	SOCOTRAN
Channels	22 FRS Channels
Output Power	0.5W
Frequency Range	UHF (around 300 MHz to 3 GHz)
Talking Range (Max)	5 Miles (Line of Sight)
Battery Type	1500mAh Li-ion (included)
Standby Time	Up to 36 hours
Continuous Usage Time	Up to 18 hours
Charging	USB Charger (PC, power bank, car)
Dimensions	4.9 x 1.9 x 0.9 inches
Item Weight	1.6 ounces
Water Resistance	Waterproof
Special Features	VOX, Flashlight, Keypad Lock, Low Power Warning, Key-Tone, Screen Backlight

7. MAINTENANCE

- **Battery Care:** To maximize battery life, avoid overcharging and fully discharge the battery periodically before recharging. Store the radio in a cool, dry place when not in use for extended periods.
- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or abrasive cleaners. Ensure the charging port cover is securely closed to prevent dust and moisture ingress.
- **Storage:** If storing the radio for a long time, remove the battery.

8. TROUBLESHOOTING

Problem	Possible Solution
No Power	Ensure battery is correctly installed and charged. Press and hold the MENU/POWER button.
Cannot Transmit/Receive	Verify both radios are on the same channel and privacy code. Check battery level. Ensure PTT button is fully pressed when transmitting. Check for obstructions or distance limitations.
Poor Audio Quality	Adjust volume. Check for interference. Ensure microphone and speaker are not obstructed.
Keypad Locked	Press and hold the SCAN/LOCK button to unlock the keypad.
Low Battery Warning	Recharge the battery immediately.

9. WARRANTY AND SUPPORT

SOCOTRAN offers a **2-Year Warranty** on this product. If you encounter any issues or require support, please contact SOCOTRAN customer service. They will replace any faulty radios within 2 years of purchase. For further assistance, please refer to the contact information provided with your purchase or visit the official SOCOTRAN website.

10. PRODUCT DEMONSTRATION VIDEO

Watch this official video from the seller for a visual demonstration of the walkie talkies in use:

Your browser does not support the video tag.

Video: Walkie Talkies for Kids Boys Girls Long Range Walkie Talkie Outdoor Toys gift for 3-12 Year Old kids. This video demonstrates the walkie talkies in an outdoor play setting, showcasing their ease of use and communication capabilities.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question