

C.CRANE

CCRadio-EP



INSTRUCTION MANUAL

**PLEASE READ ALL THE INSTRUCTIONS COMPLETELY BEFORE USE
AND SAVE THIS MANUAL FOR FUTURE REFERENCE**



Before Use



Please read IMPORTANT SAFETY INSTRUCTIONS on page 11 before use. It is important to read and understand all instructions.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



THE LIGHTNING FLASH AND ARROW-HEAD WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF "DANGEROUS VOLTAGE" INSIDE THE RADIO.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE RADIO BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THE EXCLAMATION POINT WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF IMPORTANT INSTRUCTIONS ACCOMPANYING THIS RADIO.

For your future reference:

Serial No. _____ Date of purchase _____
(found inside battery compartment)

Name & address of dealer _____

Table of Contents

Unpacking	3
About the CCRadio-EP	4
Quick Start Guide	4
Radio Controls and Functions	5-6
Getting Started	
Powering Your Radio	7
AC Operation	7
Installing The Batteries	8
Specifications	9
Troubleshooting Guide	10
Safety Instructions	11

Unpacking

The box should contain the CCRadio-EP, the power cord and this manual. If anything is missing or damaged, please contact your dealer immediately. We recommend you keep the box in the unlikely event your radio will need servicing.

About the CCRadio-EP

Thank you for purchasing a CCRadio-EP.

It is a radio built specifically for “ease of use” that addresses the desires of some of our customers. Inside it still has the technology we have developed over the years to help tune in a station clearer and provide excellent audio. Built-in is the patented Twin Coil Ferrite® AM Antenna. There is also a large, high quality speaker along with bass and treble controls so that the audio is accurate and rich. We hope the CCRadio-EP will give you many years of learning, news and entertainment. If you have any questions about your radio, please give us a call or email customerservice@ccrane.com.

Quick Start Guide

1. Insert AC Power Adapter or 4 “D” batteries (see “Powering Your Radio” on page 7).
2. Turn the radio on by pressing the red POWER Button on the top of the radio (see “Radio Controls and Functions” on page 5 for location).
3. Adjust the VOLUME Knob to your preferred listening level.
4. Adjust the BAND Switch to either AM, FM, or FM Stereo.
5. For best FM reception, lift, extend and rotate the FM WHIP ANTENNA.
6. Adjust the TUNING Knob until your desired radio station frequency is indicated on the dial or until your station has best reception.
7. For best AM reception, rotate the entire radio until station reception is best. Adjust the MUSIC-VOICE Knob for your sound preference.

Note: The TWIN COIL FERRITE® AM FINE TUNING Knob comes locked into position for most listening. Some stations are difficult to tune and rotating this knob may help for more improvement. To use the knob, first remove the sticker that secures the knob. When tuning to another station, remember to return the knob to the “Normal” position for best results.

Radio Controls and Functions

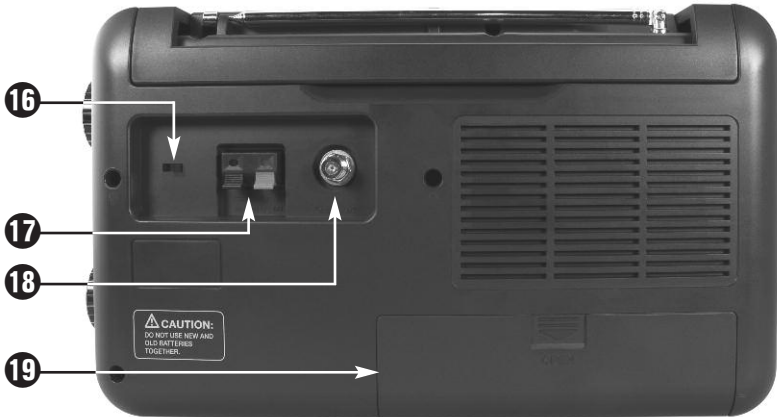


- 1 DISPLAY LIGHT Button**
Use to turn the dial backlight ON or OFF.
- 2 POWER Button**
Turn the power ON or OFF.
- 3 AM/FM TUNING DIAL**
Sliding pointer indicates the station frequency being received on AM or FM.
- 4 AM/FM TUNING Knob**
Rotate to tune in a radio station on AM or FM.
- 5 AM FINE TUNING Knob**
Rotate for fine tuning once your station has been selected.
- 6 VOLUME Knob**
Rotate to raise or lower the volume level.
- 7 MUSIC-VOICE Switch (AM Only)**
Adjust for optimal audio clarity when listening to music or voice.
- 8 BASS Knob**
Adjust low pitch tones to your preferred listening level.
- 9 TREBLE Knob**
Adjust high pitch tones to your preferred listening level.
- 10 BAND SELECTION Switch**
Select between AM, FM, and FM Stereo.
- 11 FLIP UP HANDLE**
For easy portable transportation.
- 12 FM WHIP ANTENNA**
Lift and fully extend; rotate for best FM radio reception.

Radio Controls and Functions



- 13 HEADPHONE Jack**
Use for private listening with optional headphones or earbuds. Can also be used as an audio output for an optional recording device or to connect amplified speakers.
- 14 LINE INPUT Jack**
For connecting a portable music player or other device which would use radio as speaker.
- 15 POWER Jack**
Use to connect AC Adapter for continuous power to radio.



- 16 ANTENNA SELECTION Switch**
Normally keep it set to “Internal” except when an external antenna is used.
- 17 EXTERNAL AM ANTENNA CONNECTION AND GROUND**
Connect and ground an external AM antenna.
- 18 EXTERNAL FM ANTENNA CONNECTION**
Connect an external FM antenna.
- 19 BATTERY COMPARTMENT**
For portable use of the radio, insert four “D” cell batteries.

Getting Started

POWERING YOUR RADIO

Before powering your radio be sure to read the Safety Instructions on page 11.



The CCRadio-EP will run on four “D” size NiMH or alkaline batteries or on 120V AC house current using the included power cord. Batteries are optional.

AC OPERATION

Before you plug the AC power adapter into the radio, be sure the AC voltage is 120Volts/60Hz.

Note: If you have batteries in the radio and you use the AC power cord, the batteries will automatically be disconnected.

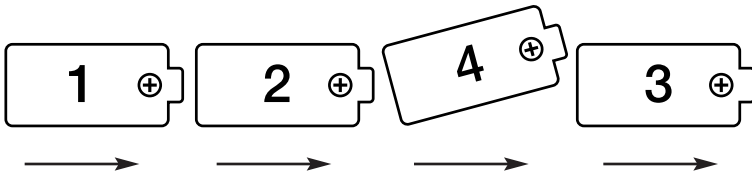


Plug the supplied AC power adapter into the “DC IN 6V” power jack on the left side of the radio.

Getting Started

INSTALLING THE BATTERIES

- 1) Position the radio on a soft surface face down, with the bottom of the radio facing you.
- 2) On the battery compartment arrow marked "OPEN", use two fingers to press down and towards you until the cover slides off.
- 3) Insert four "D" batteries as shown in the diagram inside the battery compartment. Notice that the fourth battery is inserted between the second and third batteries for easiest insertion. Be sure that the "+" polarity mark on the batteries point to the right.



- 4) Replace the battery compartment door by sliding it towards the top of the radio.

Note: When the batteries are very low you may notice a decrease in volume or radio operation has become irregular. Test the radio by using the AC power adapter to confirm that low batteries are the problem.

Important: Since batteries have been known to sometimes leak, we recommend removing the batteries when not in use for more than 30 days or if the radio is primarily used with the AC power adapter.

Specifications

DIMENSIONS

11.4" W x 7.3" H x 2.75" D

WEIGHT

3 pounds without batteries

INPUT POWER

4 "D" size batteries
6V DC 500mA tip negative

AUDIO OUTPUT

1 Watt RMS

SPEAKER

5 Watts 8 Ohms

HEADPHONE JACK

3.5mm 32 Ohms

FREQUENCY COVERAGE

FM Band: 87.00 - 108 MHz
AM (MW) Band: 520 - 1710 kHz

SENSITIVITY

FM > 5uv
MW > 0.2 mV/m

SELECTIVITY

Wide > 40 dB (100x)
Narrow > 60 dB (1000x)

Note: Specifications are subject to change without notice.

Troubleshooting Guide

The CCRadio-EP will not turn on:

1. Be sure that the batteries are installed correctly.
2. Make sure all batteries are good.
3. If using the AC Adapter, make sure that it is plugged fully into the power jack.

The CCRadio-EP has poor reception on FM:

1. Fully extend and rotate the FM whip antenna.
2. Adjust the band switch to “FM” instead of “FM ST” which requires a better signal.
3. Check the “EXT/IN ANTENNA” switch on the back of the radio for the proper setting.
4. Consider trying a more powerful external FM antenna like C. Crane’s FM Reflect Antenna.

The CCRadio-EP has poor reception on AM:

1. Rotate the radio for the best reception.
2. Try positioning the TWIN COIL FERRITE® AM FINE TUNING Knob in the “Normal” position. If the reception still needs improvement, adjust the knob for best station tuning accuracy.
3. Adjust the MUSIC-VOICE switch to VOICE for best AM audio clarity.
4. Move the radio away from electronic devices like computers and TV sets.
5. Use the radio on batteries. Sometimes interference can be transmitted to the radio over the AC power lines.
6. Concrete, brick, and metal buildings can greatly reduce radio reception. Try the radio outside. If the reception is improved, add an external AM antenna like C. Crane’s Twin Coil Ferrite® AM Antenna.

Safety Instructions



READ BEFORE OPERATING EQUIPMENT SAVE THESE INSTRUCTIONS



To prevent damage to your radio or possible injury to you or others, read these safety precautions and instructions entirely before applying power to your radio. Keep these precautions and instructions where all who use this radio will read them.

1) **COMMON CARE** ⚠

Check the radio, AC adapter, batteries and any accessories regularly. Do not use the radio if there is any sign of damage. Only operate in accordance with the instructions in this manual.

2) **PROPER BATTERY HANDLING** ⚠

Never mix different type of batteries or use old batteries with new. This may cause the batteries to leak or explode. Dead batteries are prone to leakage. Remove the batteries when no charge remains. Orientate the batteries correctly in the unit according to the diagram. Do not store batteries with metal objects like paper clips. We recommend you remove batteries from the radio if you are not going to use the radio for one month or more.

3) **DISCONNECT THE RADIO IN CASE OF MALFUNCTION** ⚠

If you smell or notice smoke, disconnect the AC adapter and remove the batteries immediately taking care to avoid burns. Contact C. Crane Company Inc. or their representative for inspection and service before any future operation. Only use the AC adapter supplied with the unit and replace it if wires become frayed or exposed.

4) **KEEP OUT OF REACH OF CHILDREN** ⚠

The radio is heavy, especially when batteries are installed. Use only on a stable, level surface. Dropping the radio can cause damage or injury. Keep the AC Adapter cord in a position so someone cannot trip and cause the radio to fall.

5) **KEEP AWAY FROM WATER AND MOISTURE** ⚠

Keep the radio dry. Liquids and moisture can damage the radio. If a liquid leaks into the radio do not operate and seek a qualified service shop. To clean radio, remove the power adapter and use a damp cloth on the exterior only.

6) **KEEP AWAY FROM EXTREME TEMPERATURES** ⚠

Extreme temperatures can damage the radio. Do not leave or use the radio where it can be subjected to high or very cold temperatures.

7) **DO NOT ATTEMPT TO SERVICE RADIO** ⚠

Refer all service work to a qualified service shop when the radio does not appear to operate normally, exhibits a change in performance or the radio has received damage. Never open the radio as this may expose you to dangerous voltages and this will void all warranties.

8) **OUTSIDE ANTENNAS OR CABLES** ⚠

Outside antennas or cables should not be used with this radio unless installed by qualified personnel.



Model: CCRadio-EP

ANSI C63.4: 2003

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 UNDESIRE
OPERATION.

Notice: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Copyright © 2010 by C. Crane Company, Inc., Fortuna, CA 95540

Phone: 1-800-522-8863 Web: ccrane.com

All rights reserved. No part of this booklet may be reproduced, in any form or means whatsoever, without permission in writing from C. Crane Company, Inc.