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: 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.

- Before turning the unit on, set your volume control to a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly without distortion.
- Long-term exposure to loud sounds may cause hearing damage. It is best to avoid high volume levels when using headphones/earbuds, especially for extended periods.

For your future reference:

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

Name & address of dealer ____________________________
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Unpacking

The box should contain the CCRadio-EP PRO, an AC Power Adapter, and this manual. If anything is missing or damaged, please contact your dealer immediately. We recommend that you keep the box in the unlikely event that your radio needs servicing.

About the CCRadio-EP PRO

Thank you for purchasing a CCRadio-EP PRO.

It is a radio built specifically for “ease of use” that addresses the desires of some of our customers. Inside it 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 PRO 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:
   Please tune slowly to find your AM station so you can hear the audio. If you tune fast it may appear to skip over your station. Typically, you will find a weak station image right before the station you want. If you tune a little further, you will find the Main signal of the station comes in much clearer.

You can often enhance AM reception by tuning the small “AM Fine Tuning” knob on the right, by “ear”, for maximum clarity. The radio comes with this knob locked in position, so you must remove the sticker first.

Finally rotate the entire radio until station reception is best. Adjust the WIDE-NARROW Knob for your sound preference along with the Bass and Treble.
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. WIDE / NARROW Switch (AM Only)
   Adjust for optimal audio clarity when listening to music or voice.

8. TREBLE Knob
   Adjust high pitch tones to your preferred listening level.

9. BASS Knob
   Adjust low 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.

13. LED Tuning Eye (Tuning indicator).
Radio Controls and Functions

14 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.

15 LINE INPUT Jack
For connecting a portable music player or other device which would use the radio as the speaker.

16 POWER Jack
Use to connect AC Power Adapter for continuous power to radio.

17 ANTENNA SELECTION Switch
Normally keep it set to ‘INT’ (‘Internal’) except when an external antenna is used.

18 9K-10K AM TUNING STEP Switch
Set this switch to ‘10K’ for use in the United States. ‘9K’ steps are used in Europe and many other countries.

19 EXTERNAL AM ANTENNA CONNECTION and GROUND
To connect and ground an external AM antenna.

20 EXTERNAL FM ANTENNA CONNECTION
Connect an external FM antenna.

21 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 PRO will run on four “D” size alkaline batteries or on 120V AC house current using the included AC power adapter. 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 adapter 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.
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.

![Diagram of battery installation]

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
3.1 pounds without batteries

INPUT POWER
4 "D" size batteries
6V DC 800mA tip negative

AUDIO OUTPUT
2 Watt RMS

SPEAKER
5 Watts 8 Ohms

HEADPHONE JACK
3.5mm 32 Ohms

FREQUENCY COVERAGE
FM Band: 87.50 - 108 MHz
AM (MW) Band: 520 - 1710 kHz (10 kHz)
           522 - 1620 kHz (9 kHz)

SENSITIVITY
FM > 5uv
AM (MW) > 0.2 mV/m

BANDWIDTH
Wide > 6 kHz
Narrow > 2.5 kHz

Note: Specifications are subject to change without notice.
Troubleshooting Guide

The CCRadio-EP PRO 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 Power Adapter, make sure that it is plugged fully into the power jack.

The CCRadio-EP PRO 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 “INT/EXT ANTENNA” switch on the back of the radio for the proper setting.
4. Consider trying a more powerful external FM antenna.

The CCRadio-EP PRO has poor reception on AM, or is receiving multiple stations:
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 WIDE/NARROW switch to NARROW 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 the interference can be transmitted to the radio over the AC power lines.
6. Concrete, stucco, brick, and metal buildings can greatly reduce radio reception. Try the radio outdoors. If the reception is improved, try an external 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 PRO  
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 UNDESIRED 
   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.

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