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> CRT 2000H CB Radio User Manual

CRT ONE

CRT 2000H CB Radio User Manual

Model: ONE

INTRODUCTION

This user manual provides comprehensive instructions for the operation, setup, and maintenance of your CRT 2000H CB Radio. The CRT 2000H is a programmable 4W AM/FM CB radio featuring a color display, ASQ, scan function, and various noise reduction technologies, designed for reliable communication within the 26.965 - 27.405 MHz frequency range.

SAFETY INFORMATION

Always operate the radio in a safe manner. Do not operate the radio while driving if it distracts you from safe driving. Ensure proper ventilation around the unit to prevent overheating. Do not expose the unit to extreme temperatures, moisture, or direct sunlight. Use only the specified power supply and accessories.

PACKAGE CONTENTS



This image displays all items included in the CRT 2000H CB Radio package: the radio unit, microphone, mounting bracket, screws for mounting, microphone holder, and power cord.

- CB Radio Station Unit
- Microphone (RJ45 type)
- Support and screws for holding the radio station
- Microphone support and screws
- Power cord
- User manual (this document)

PRODUCT OVERVIEW

Front Panel



This image shows the front panel of the CRT 2000H CB Radio, highlighting the large color TFT display, power button, function buttons (FP1-FP6), microphone port, and rotary knob for various adjustments.

The front panel features a generous color TFT display that shows channel, frequency, signal strength, and various operational indicators. Key controls include:

- **Power Button:** Turns the unit on/off.
- **FP1-FP6 Buttons:** Programmable function buttons for quick access to features.
- **FUNC Button:** Activates secondary functions of other buttons.
- **Rotary Knob:** Used for channel selection, volume, squelch, and menu navigation.
- **Microphone Port (RJ45):** Connects the supplied microphone.

Rear Panel Connections



This image displays the rear panel of the CRT 2000H CB Radio, showing the antenna connector (ANT), external speaker jack (EXT SP), and the power input cable.

- **ANT (Antenna Connector):** Connects to your external CB antenna.
- **EXT SP (External Speaker Jack):** 3.5mm jack for connecting an optional external speaker.
- **Power Cord:** For connecting to a 12V DC power source.

SETUP

1. **Mounting:** Securely mount the radio using the provided bracket and screws in a location that allows for proper ventilation and easy access to controls. Ensure the mounting surface is stable.
2. **Antenna Connection:** Connect a suitable CB antenna to the "ANT" connector on the rear panel. Ensure the antenna is properly tuned for the CB band (26.965 - 27.405 MHz) to prevent damage to the radio.
3. **Power Connection:** Connect the radio's power cord to a 12V DC power source. The red wire is positive (+), and the black wire is negative (-). Ensure correct polarity to avoid damage.
4. **Microphone Connection:** Plug the RJ45 connector of the microphone into the microphone port on the front panel.
5. **External Speaker (Optional):** If desired, connect an external speaker to the "EXT SP" 3.5mm jack on the rear panel.

OPERATING INSTRUCTIONS

Basic Operation

- **Power On/Off:** Press the (Power) button on the front panel to turn the radio on or off.
- **Volume Adjustment:** Rotate the main knob to adjust the audio volume.
- **Channel Selection:** In normal operating mode, rotate the main knob to change channels.
- **AM/FM Band Selection:** Use the appropriate function button (refer to your radio's specific programming) to switch between AM and FM modulation.

Advanced Features

- **Squelch (ASQ / Manual):**
 - *Automatic Digital Squelch (ASQ):* Activates automatically to suppress background noise. This feature is particularly useful in crowded areas, filtering low-quality signals and keeping only the strongest and clearest ones.
 - *Manual Squelch:* Adjust the squelch level manually using the main knob (when in squelch adjustment mode) to eliminate static noise when no signal is present.
- **Dual Watch:** Allows monitoring of two different channels simultaneously. The radio will automatically switch to the active channel.
- **Channel Scan:** Initiates a scan through active channels to find ongoing conversations.
- **RF Gain:** Adjusts the receiver's sensitivity to optimize signal reception, especially useful in areas with strong or weak signals.
- **Noise Filters (NB / ANL):**
 - *NB (Noise Blanker):* Significantly reduces impulse noise, such as ignition interference, by more than 90%.
 - *ANL (Automatic Noise Limiter):* Further reduces continuous background noise.

- **Memory Channels:** The radio supports storing up to 8 channels for quick recall. Refer to the programming section for instructions on saving and recalling memory channels.
- **CTCSS / DCS (Coder/Decoder):** Enables selective calling and reception, allowing you to communicate only with users sharing the same tone/code.
- **DTMF (Coder):** Used for sending DTMF tones, typically for remote control or selective calling systems.
- **TOT (Time Out Timer):** Limits the maximum transmission time to prevent accidental continuous transmission and overheating.

MAINTENANCE

To ensure optimal performance and longevity of your CRT 2000H CB Radio, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the radio. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure the ventilation slots on the radio are not blocked to allow for proper heat dissipation.
- **Connections:** Periodically check all cable connections (antenna, power, microphone) to ensure they are secure and free from corrosion.
- **Storage:** When not in use for extended periods, store the radio in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Incorrect power connection; Blown fuse; Vehicle battery low.	Check power cable polarity and connection; Inspect and replace fuse if necessary; Charge or replace vehicle battery.
No reception or poor reception	Antenna not connected or damaged; Squelch set too high; Incorrect channel/mode.	Check antenna connection and SWR; Adjust squelch level; Verify channel and AM/FM mode.
No transmission	Microphone not connected; PTT button faulty; TOT activated.	Ensure microphone is securely connected; Test microphone; Wait for TOT to reset or reduce transmission time.
Excessive noise/static	Squelch set too low; Interference from vehicle electronics; NB/ANL filters off.	Increase squelch level; Check vehicle's electrical system for noise sources; Activate NB and ANL filters.

SPECIFICATIONS

Feature	Description
Brand	CRT
Model	ONE (CRT 2000H)
Broadcast Band Type	AM / FM
Channels	40

Feature	Description
Frequency Range	26.965 - 27.405 MHz
Microphone Type	RJ45
Speaker Audio Power	3 W
Emission Power	4 W
Power Supply	12 V DC
Dimensions (W x H x D)	120 x 150 x 36 mm (approx. 12D x 15W x 3.6H cm)
Weight	962 g
Display Type	LCD / Color TFT
Special Features	Dual Watch, Channel Scan, RF Gain, ASQ, NB Noise Filter, ANL, 8 Memory Channels, Programmable, CTCSS / DCS, DTMF, TOT, Key Lighting
Operating Temperature	-20 °C ~ +60 °C
Compatible Devices	External audio devices, External antennas, CRT radios on 26.965 MHz - 27.405 MHz, AM/FM
Water Resistance Level	Water Resistant

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact CRT customer service. Keep your proof of purchase for warranty claims.

Note: Specific warranty terms and support contact details may vary by region and retailer.

