



# MOTOROLA TALKABOUT®

## Two-Way Radio User's Guide



KCEM-PIC54190-75

MH Series

### For More Information

For further information, you may call Motorola at 1-800-638-5119 (U.S. and Canada), or e-mail us at [plantinfo@allcenter.com](mailto:plantinfo@allcenter.com) or visit us on the Internet at [www.motorola.com](http://www.motorola.com).

### Safety and General Information

#### Important Information on Safe and Efficient Operation Read This Information Before Using Your Radio.

The information provided in this document supplements the general safety information in user guides published prior to December 1, 2002. Your two-way radio contains a transmitter and a receiver. To ensure your exposure and ensure compliance with the general population/uncontrolled environment exposure limits, always adhere to the following procedure:

- Transmit no more than 50% of the time.
- To receive calls, release the PTT button.
- To transmit (talk), press the Push to Talk (PTT) button.

Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting (in terms of measuring standards compliance).

#### Exposure to Radio Frequency Energy

Your Motorola two-way radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations, 47CFR part 2 sub-part J.
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95.1-1992.
- Institute of Electrical and Electronics Engineers (IEEE) C95.1-1999 Edition.
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998.
- Ministry of Health (Canada) Safety Code 6, Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999.
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation—Human Exposure) Standard, 2002.
- ANSI/IEEE, ANNEX to Resolution No. 303 of July 2, 2002 "Regulation (limitation of exposure to electrical, magnetic and electromagnetic fields in the radio frequency range between 9 kHz and 300GHz"

To ensure optimal radio performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set forth in the above standards, always adhere to the following procedures:

#### Portable Radio Operation and EMF Exposure

##### Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.

Do NOT hold the antenna when the radio is "ON USE." Holding the antenna affects its effective range.

#### Body-Worn Operation

To maintain compliance with FCC/Health Canada RF exposure guidelines if you wear a radio on your body when transmitting, always place the radio in a Motorola-supplied or approved clip holder, holster, case or body harness for this product. Use of non-Motorola-approved accessories may exceed FCC/Health Canada RF exposure guidelines.

If you do not use one of the Motorola-supplied or approved body-worn accessories, and are not using the radio held in the hand, use position, ensure the radio and its antenna are at least 1 inch (2.5 cm) from your body when transmitting.

#### Data Operation

If applicable, when using any data feature of the radio with or without an accessory cable, position the radio and its antenna at least one inch (2.5 cm) from the body.

#### Approved Accessories

For a list of approved Motorola accessories, visit our Web site at [www.motorola.com](http://www.motorola.com).

#### Electromagnetic Interference/Compatibility

**Note:** Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility. 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.

#### IC Canada

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

#### Facilities

To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

#### Aircraft

When instructed to do so, turn off your radio when onboard an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

#### Medical Devices — Pacemakers

The Advanced Medical Technology Association recommends that a minimum separation of 6 inches (15 cm) be maintained between a handheld wireless radio and a pacemaker. These recommendations are consistent with the independent research by and recommendations of the U.S. Food and Drug Administration.

People with pacemakers should:

- ALWAYS keep the radio more than 6 inches (15 cm) from their pacemaker when the radio is turned ON.
  - Not carry the radio in the breast pocket.
  - Use the ear opposite the pacemaker to minimize the potential for interference.
- Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.

#### Medical Devices — Hearing Aids

Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

#### Medical Devices — Other

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

#### Safety and General Use While Driving

Check the laws and regulations regarding the use of radios in the area where you drive, and always obey them. If you do use your radio while driving, please:

- Give full attention to driving and to the road.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

The use of a two-way radio while engaged in activities requiring concentration may cause distraction or otherwise impair your ability to safely participate in such activities. Always use technology safely.

Do not place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

#### Potentially Explosive Atmospheres

Turn off your radio prior to entering any area with a potentially explosive atmosphere. Only radio types that are especially qualified should be used in such areas as "intrinsically safe." Do not remove, install or change batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

**Note:** The areas with potentially explosive atmospheres referred to above include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles such as grain, dust or metal powders and similar other areas where you would normally be advised to turn off a vehicle engine. Areas with potentially explosive atmospheres are often—but not always—posted.

#### Blasting Caps and Areas

To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area or in areas posted "Turn off two-way radios." Obey all signs and instructions.

#### Operational Cautions

##### Batteries

Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

##### Batteries

All batteries can cause property damage and/or bodily injury such as burns if a conductive material—like jewelry, keys or banded chain—touches exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care handling any charged battery, particularly when placing it inside a pocket, purse or other container with metal objects.

Exercise care when removing NiMH or AAA batteries. Do not use sharp or conductive tools to remove either of these batteries.

#### Battery Charger Safety Instructions:

##### Save these instructions:

1. Do not expose the charger to rain or snow.
2. Do not operate or disassemble the charger if it has received a sharp blow or has been dropped or damaged in any way.
3. Never after the AC cord or plug provided with the unit. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician. An improper condition can result in a risk of electric shock.
4. To reduce the risk of damage to the cord or plug, pull the plug rather than the cord when disconnecting the charger from the AC receptacle.
5. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.
6. Use of an attachment not recommended or sold by Motorola may result in a risk of fire, electric shock or personal injury. Make sure the cord is located so it will not be stepped on, tripped over or subjected to damage or stress.
7. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of a fire and/or electric shock. If an extension cord must be used, make sure that:
  - The pins on the plug of the extension cord are the same round size and shape as those on the plug of the charger
  - The extension cord is properly wired and in good electrical condition.
  - The extension cord size is 18 AWG for lengths up to 100 feet and 16 AWG for lengths up to 150 feet.
8. The supply cord of the AC adapter cannot be replaced. If the cord is damaged, call customer service at 1-800-638-5119 (U.S. and Canada) or e-mail us at [plantinfo@allcenter.com](mailto:plantinfo@allcenter.com).

### FCC Licensing Information

Your Motorola radio operates on General Mobile Radio Service (GMRS) frequencies and is subject to the Rules and Regulations of the Federal Communications Commission (FCC). The FCC requires that all operators use GMRS frequencies within their home country. To obtain the FCC forms, please visit the FCC's Web site at [wireless.fcc.gov/dsp/index.htm?sp=home](http://wireless.fcc.gov/dsp/index.htm?sp=home) to source form 905 and 958, which includes all of the instructions you will need.

If you wish to have the document faxed or mailed, or if you have questions, please use the following contact information:

For a fax: Contact the Fax-On-Demand system	For mail service: Call the FCC Forms Hotline	If you have questions about the FCC License: Call the FCC
1-800-438-0177	1-800-638-FORM (3676)	1-888-CALL-FCC (225-5222)

Changes or modifications not expressly approved by Motorola may void the user's authority granted by the FCC to operate this radio and should not be made. To comply with FCC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and business services as certified by an organization representative of the user of these services. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

# Motorola Mtr20service Manual

**PT Brinkman**



## **Motorola Mtr20service Manual:**

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### Table of Contents **Motorola Mtr20service Manual**

1. Understanding the eBook **Motorola Mtr20service Manual**
  - The Rise of Digital Reading **Motorola Mtr20service Manual**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Motorola Mtr20service Manual**
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an **Motorola Mtr20service Manual**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Motorola Mtr20service Manual**
  - Personalized Recommendations
  - **Motorola Mtr20service Manual** User Reviews and Ratings
  - **Motorola Mtr20service Manual** and Bestseller Lists

5. Accessing Motorola Mtr20service Manual Free and Paid eBooks
  - Motorola Mtr20service Manual Public Domain eBooks
  - Motorola Mtr20service Manual eBook Subscription Services
  - Motorola Mtr20service Manual Budget-Friendly Options
6. Navigating Motorola Mtr20service Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Motorola Mtr20service Manual Compatibility with Devices
  - Motorola Mtr20service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Motorola Mtr20service Manual
  - Highlighting and Note-Taking Motorola Mtr20service Manual
  - Interactive Elements Motorola Mtr20service Manual
8. Staying Engaged with Motorola Mtr20service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Motorola Mtr20service Manual
9. Balancing eBooks and Physical Books Motorola Mtr20service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Motorola Mtr20service Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Motorola Mtr20service Manual
  - Setting Reading Goals Motorola Mtr20service Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Motorola Mtr20service Manual
  - Fact-Checking eBook Content of Motorola Mtr20service Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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