User's Guide

MOTOROLA
TALKABOUT ®
TWO-WAY RADIO

Models T5319 and T5320

Table of Contents

Your New Radio

Motorola Talkabout T5320, T5410
and T5420 radios operate on
Family Radio Service (FRS)
designated frequencies. This
license-free, short range, two-
way radio service was
established specifically for family
and group recreational use. Use
of this radio outside the country
where it was intended to be
distributed is subject to
government regulations and may
be prohibited.

Power/Volume Knob
LED Indicator Light
Battery Meter
Push-To-Talk Button (PTT)
Lock Icon
Call Tone Button
Scroll Button
Menu/Lock Button
Removable Accessory Cover
...nize interference groups
...ALY Button for T5220

Interference Eliminator Code*
Accessory Jack
Scan Icon
"Roger" Beep Icon
VOX Icon (T5220 On...)
Scan/Monitor Button** (Scan in T5210 Only)
Scroll Button
Microphone
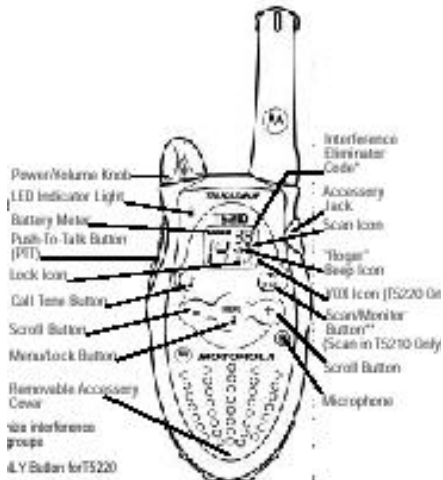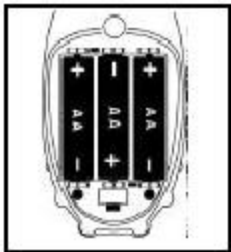
2

Battery Cover Latch

Figure 1

Figure 2

Batteries

T5320, T5410 and T5420 radios operate with 3 AA alkaline batteries providing approximately 30 hours of use. That is almost 3 hours of talk and over 27 hours of standby time.

To Install:

1. With back of radio facing you, flip Battery Cover Latch up to release. Lift cover off. Fig. 1.
2. Insert 3 AA batteries as shown. Fig. 2.
3. Reposition Battery Cover, flip Battery Cover Latch down to secure.

Note: Your radio will retain its settings for 10 minutes after the batteries are removed. After 10 minutes, your radio will go back to its factory settings.

Radio Etiquette:

Your radio has multiple channels shared on a "take turns" basis. This means other groups may be talking on the channels. For uninterrupted communications, do not talk over someone who is already using the channel – your message may not be completely heard. Try changing the channel to avoid channel congestion or use the Monitor button to check for channel activity. If you hear static while holding down the Monitor button the channel is clear for use.

Note: Since the channels are shared, your conversations will not be private and you may hear others talking.

Belt Clip

Motorola T5320, T5410 and T5420 radios come with a swivel belt clip.

To Attach:

1. Align belt clip post with hole in the radio back.
2. Gently push until it clicks into place. Fig. 3.

To Remove:

1. Push release tab on top of belt clip down to release catch.
2. Pull belt clip from the radio back.

Front Cover

The T5320, T5410 and T5420 radios have a removable front cover that allows you to customize your radio to your lifestyle. Do not operate the radio without the cover.

To Remove:

1. With a 1/8 inch flathead screwdriver, push down and towards you in between the top of the front cover and the radio. Fig. 4.
2. Pull the sides of the removable cover away from the radio.

To Attach:

1. Reinsert housing tabs.
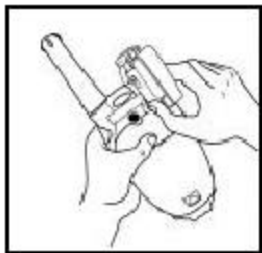2. Press down to snap cover into place.

Figure 3

Figure 4

To Communicate

Read this manual carefully and make sure you know how to properly operate radio before use. Motorola

Talkabout two-way radios have 14 channels. To communicate with others, all radios in your group must be set to the same channel and Interference Eliminator Code.

Turn The Radio On:

1. Rotate **Power/Volume** knob clockwise until you hear a click. Radio will beep and LED Indicator Light will flash to confirm. All icons on the display will light up briefly, then the current channel and code will show. LED will flash every three seconds.
2. To turn radio off, rotate **Power/Volume** knob counter clockwise until you hear a click and display disappears.

Monitor Button:

The **Scan/Monitor** button on T5410 **(Monitor** ONLY button on T5320 and T5420) lets you hear the radio's volume level when you are not receiving so you can adjust the volume. It is also used to check activity on current channel before transmitting. To use the Monitor feature, press and hold the **Scan/Monitor** button on T5410 **(Monitor** ONLY button on T5320 and T5420).

Channel Busy Indicator:

The radio also has a Channel Busy Indicator where the LED will also flash twice per second to indicate the channel frequency is in use.

Adjust The Volume:

Rotate **Power/Volume** knob while holding down the **Scan/Monitor** button on T5410 **(Monitor** ONLY button on T5320 and T5420) until you reach a comfortable listening level. Rotate knob clockwise to increase and counter clockwise to decrease volume.

Time-out Timer:

The Time-out Timer feature helps extend battery life by preventing accidental transmission. The radio will emit a continuous warning tone after the Push-To-Talk button is pressed for 60 continuous seconds and will stop transmitting.

Menu/Lock Button:

You can be sure your menu settings won't be changed accidentally. Just turn on the menu lock by pressing the Menu button for six seconds. Now you'll see a lock on the display. You can turn off the menu lock by pressing the Menu button for six seconds again. The lock icon disappears from your display when it's turned off.

Set The Channel:

1. With radio on, press Menu/Lock button. Current channel will begin to flash. Fig. 5.
2. Use Scroll buttons to change channel while flashing.
3. Press Menu/Lock or Push-To-Talk button to set new channel.

Set The Code:

1. With radio on, press Menu/Lock button twice. Fig. 5.
Current code will begin to flash.

2. Use Scroll buttons to change code while flashing.
3. Press Menu/Lock or Push-To-Talk button to set new code.
Note: Radio automatically saves channel and code after 5 seconds.

Figure 5

Call Tone:

The Call Tone gets others' attention before you start talking. Press **Call Tone** button and users on your channel will hear your Call Tone. T5320, T5410 and T5420 have 5 Call Tones.

Set The Call Tone:

1. With the radio on, press **Menu/Lock** button three times. Current Call Tone will begin to flash. Fig. 6.
2. Use **Scroll** buttons to change and hear Call Tone while flashing.
3. Press **Menu/Lock** or **Push-To-Talk** button to set new Call Tone.

Figure 6

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"Roger" Beep:

Whenever the "Roger" Beep Icon appears on your display your two-way radio transmits a unique tone when you finish transmitting.

Set "Roger" Beep:

1. Press and hold **Scroll +** button as you turn on your radio. The "Roger" Beep Icon appears on your display.
2. To disable "Roger" Beep, turn your radio off. Press and hold **Scroll +** button as you turn your radio back on.

Figure 7

Scan (T5410 Only)

By Scanning, you can monitor channels and codes for transmissions and lock in on the one that interests you. More importantly, you can find someone in your group who has accidentally changed channels and is talking during your scan.

To start scanning, briefly press and release the **Scan/Monitor** button. If you activate scan while your code is set to 0, then the radio will check for activity on each channel regardless of the code in use on that channel. If you activate scan while your code is set on 1 to 38, then the radio will check for activity on each channel, but only for the code last set for that channel. When radio detects channel activity, it stops on that channel and displays it.

While the radio is scanning, the Scan Icon will flash. When activity is detected on a channel, the radio will stop scanning and you will hear whatever transmissions are detected. The Scan Icon will stop flashing. If you want to respond to the transmission, just press the **Push-To-Talk** button within 5 seconds and you can respond. If you activated scan when your code was set to 0, scan detects activity on a channel, and you press the **Push-To-Talk** button to respond, then the other person may not be able to hear your call since you will be transmitting with a code of 0.

To stop scanning, briefly press and release the **Scan/Monitor** button.

Scan Advance

If scan stops on a channel that you don't want to listen to, press either the **Scroll -** or **+** buttons to resume scanning for the next active channel.

Hands-Free Use (VOX) (T5420 Only)

Hands-Free Use With Accessories

VOX allows you to transmit "hands-free" by talking while using VOX accessories connected to the radio.

To set VOX, plug in your accessory before you turn on your radio. When you turn on your radio, a flashing VOX Icon displays. Your radio will now detect your voice and transmit every time you talk. When you transmit using a VOX headset, you will hear yourself talking through the accessory speaker. This lets you know VOX is working.

Press **Push-To-Talk** to turn off VOX and return to the regular way of transmitting. The VOX Icon will disappear. To reset VOX use, turn your radio off and then back on with your accessory plugged in. You can also enable VOX by pressing the **Menu/Lock** button, until the VOX Icon and a value of 0 through 3 are displayed. If you select 1 through 3, you'll be enabling VOX at a particular sensitivity level. If you select 0, you'll disable VOX.

Note: When using accessories, ensure that they are plugged in before you turn on the radio. There is a short delay when you start talking before the transmitter turns on.

Note: After plugging accessories in, turn radio on and lower volume before placing accessory on head or ear. Press **Monitor** button while rotating volume knob to adjust to a comfortable listening level.

Setting Sensitivity Level

The sensitivity level allows you to compensate for background noise when using an accessory. By adjusting the sensitivity level up or down, you can minimize the chance of unintended noises triggering a transmission, or increase the microphone's ability to pick up quiet voices.

To set the sensitivity level, press **Menu/Lock** button as needed, until the VOX Icon and a value of 1 through 3 are displayed. Fig. 8.

Then select:

High (3) for quiet environments

Medium (2) for most environments

Low (1) for noisy environments

Figure 8

When you connect a VOX accessory, the radio will automatically be set to your last sensitivity level.

Sending Messages:

1. To maximize clarity, hold radio 2 to 3 inches from mouth.
2. Press and hold **Push-To-Talk** button and speak into microphone.
LED Indicator Light glows continuously when transmitting.
To receive messages, release **Push-To-Talk** button.

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Battery Meter:

The Battery Meter, located on the front display, is
divided into three bars.
As power is used, the bars will disappear. Fig. 9.
Note: To ensure proper functioning of the battery
meter use only alkaline
batteries. The meter will not work accurately with
rechargeable batteries.

Low Battery Alert:

When batteries are low, radio will beep:
• 3 to 4 seconds after turning power on
• Every 10 minutes in standby mode

Figure 9

• After releasing PTT or Call button
Note: Remove batteries before storing your radio
for extended periods. Batteries corrode over time
and may cause permanent damage to your radio.

Accessories

There are many accessories (sold separately) available for T5320, T5410 and T5420 radios. For more information
refer to the brochure we've included with your radio, contact place of purchase.

To Use Audio Accessories:

1. Make sure radio is off. Open accessory jack cover and plug accessory connector into jack.
2. Turn radio on and lower volume before placing accessory on head or in ear.
3. Press **Monitor** button while rotating **Volume** knob to adjust volume to a comfortable listening level.
4. To transmit, press **Push-To-Talk** on radio or accessory and speak into accessory microphone.

5. To receive, release **Push-To-Talk.**

Care of Your Radio

To clean the radio, wipe with a soft cloth dampened with water. Do not use cleaners or solvents on the radio; they can harm the radio body and leak inside, causing permanent damage. Battery contacts may be wiped with a dry, lint-free cloth.

If radio gets wet, turn it off and remove batteries immediately. Dry battery compartment with a soft cloth to minimize potential water damage. Leave the cover off battery compartment overnight or until completely dry. Do not use radio until completely dry.

SAFETY AND GENERAL INFORMATION

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION

READ THIS INFORMATION BEFORE USING YOUR RADIO

The information provided in this document supersedes the general safety information contained in user guides published prior to July 2000. For information regarding radio use in a hazardous atmosphere please refer to the Factory Mutual (FM) Approval Manual Supplement or Instruction Card, which is included with radio models that offer this capability.

RF Operational Characteristics

Your radio contains a transmitter and a receiver. When it is ON, it receives and transmits radio frequency (RF) energy. The radio operates in the frequency range of 462 MHz to 467 MHz.

Exposure To Radio Frequency Energy

Your Motorola radio is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

United States Federal Communications Commission, Code of Federal

Regulations; 47 CFR part 2 sub-part J
American National Standards Institute (ANSI) / Institute of Electrical and
Electronic Engineers (IEEE) C95. 1- 1992
Institute of Electrical and Electronic Engineers (IEEE) C95.1- 1999 Edition
National Council on Radiation Protection and Measurements (NCRP) of the
United States, Report 86, 1986
International Commission on Non- Ionizing Radiation Protection (ICNIRP) 1998
Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to
Radio frequency Electromagnetic Fields in the Frequency Range from 3kHz to
300 GHz, 1999
Australian Communications Authority Radio communications
(Electromagnetic Radiation - Human Exposure) Standard 1999 (applicable to
wireless phones only)

To assure 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 EME EXPOSURE
Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations. DO NOT hold the antenna when the radio is "IN USE." Holding the antenna affects call quality and may cause the radio to operate at a higher power level than needed.

Phone Operation

When placing or receiving a phone call, hold your radio as you would a wireless telephone. Speak directly into the microphone.

Two- way Radio Operation

When using your radio as a traditional two- way radio, hold the radio in a vertical position with the microphone **one to two inches (2. 5 to 5 cm) away from the lips**.

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 a body- worn accessory, and are not using the radio held in the normal use position at the ear, ensure the radio and its antenna are at least one inch (2. 5 cm) from your body when transmitting.

Data operation

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 call 1-800-353-2729 please advise or visit our website at www.motorola.com/talkabout

ELECTROMAGNETIC INTERFERENCE/ COMPATIBILITY

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

• 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 on board 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 centimeters) be maintained between a handheld

wireless radio and a pacemaker. These recommendations are consistent with the independent research by, and recommendations of, the United States Food and Drug Administration.

Persons with pacemakers should:

• ALWAYS keep the radio more than six inches (15 centimeters) 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 you have any reason to suspect that interference is taking place.

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.

Other Medical Devices

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 on the use of radios in the area where you drive.

Always obey them.
When using 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.

OPERATIONAL WARNINGS
• FOR VEHICLES WITH AN AIR BAG
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 air 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, unless it is a radio type especially qualified for use in such areas as "Intrinsically Safe." Do not remove, install, or charge 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 any other area where you would normally be advised to turn off your 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 radio." Obey all signs and instructions.

OPERATIONAL CAUTIONS

• ANTENNAS

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 such as jewelry, keys, or beaded chains touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal

objects.

Limited Warranty

Limited warranty for Motorola Personal Communications Products and Accessories Purchased in the United States and Canada

I. What This Warranty Covers

Defects in materials and workmanship in the following new "Products" manufactured, sold or certified by Motorola, with which this limited warranty is included in/ on the package: (a) wireless cellular telephones, pagers and two- way radios that operate via "Personal Radio Service" (such as Family Radio Service and General Mobile Radio Service), together with software imbedded in any of these products, and (b) subject to the following exceptions, accessories or software sold for use with these products.

• Battery Exception. This limited warranty extends only to batteries in which the fully- charged capacity falls below 80% of rated capacity and batteries that leak;

• Software Exceptions. This limited warranty extends only to physical defects in the media (such as CD- ROM) that tangibly embodies each copy of any software sold and/ or certified by Motorola for use with Products. Software that is not tangibly embodied in media and that is purchased separately from Products (such as software that is downloaded from the internet) comes "as is" and without warranty.

II. What the Period of Coverage Is

Subject to the following exceptions, one year from the date the Products are purchased by the first end- user:

• 90- Day Warranty Exception. The warranty is for 90 days for: (a) any software tangibly embodied in media or (b) any accessories for two- way radios that are covered by this warranty, as described in Section I, above.

• Limited Lifetime Warranty Exception. The warranty is a limited lifetime warranty for the lifetime of ownership by the first end- user of the following products, only: (a) decorative covers, including bezel, PhoneWrap™ or case (any model); and (b) ear buds and boom headsets that transmit mono sound through a wire connection (this does not include ear buds or boom headsets that either transmit stereo sound or that are wireless, or both).

• Repair / Replacement Exception. The warranty is for the balance of the original warranty or for 90 days from the date returned and delivered to the first end- user, whichever is longer.

III. Who is Covered

This warranty extends to you only if you are the first end- user purchaser.

IV. What We Will Do to Correct Warranty Problems

At no charge to you, we have the option to repair or replace the Products that do not conform to the warranty, or to refund the Products' purchase price. We may use functionally equivalent reconditioned/ refurbished/ pre- owned or new Products

or parts. No software updates are provided.

V. How to Get Warranty Service
PLEASE CALL US – DO NOT SHIP:

USA	Canada
Cellular 1- 800- 331- 6456	All Products 1- 800- 461- 4575
Paging 1- 800- 548- 9954	1- 888- 390- 6456 TTY (Text Telephone)

FRS Radios 1- 800- 353- 2729
1- 888- 390- 6456 TTY (Text Telephone)
Accessories and software -- call the number designated for the product with which they are used.

You will receive instructions on how to ship the Products to Motorola or our designated resource. If instructed to ship the Products, you must ship them with freight, duties and insurance prepaid. Regardless of where you are instructed to return the Products, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your service provider (if this Product requires subscription service); (d) the name and location of the installation facility (if applicable) and, most importantly; (e) your address and telephone number. If requested, you must also return all detachable parts such as antennas, batteries and chargers. RETAIN YOUR ORIGINAL PROOF OF PURCHASE.

For Products we ask you ship to us, we will ship repaired or replacement Products at our expense for the freight and insurance, but at your expense for any duties. If additional information is needed, please contact us at the telephone number listed above.

VI. What This Warranty Does Not Cover

• Products that are operated in combination with ancillary or peripheral equipment or software not furnished or otherwise certified by Motorola for use with the Products (" ancillary equipment"), or any damage to the Products or ancillary equipment as a result of such use. Among other things, "ancillary equipment" includes batteries, chargers, adaptors, and power supplies not manufactured or supplied by Motorola. Any of these voids the warranty.

• Someone other than Motorola (or its authorized service centers) tests, adjusts, installs, maintains, alters, modifies or services the Products in any way. Any of these voids the warranty.

• Rechargeable batteries that: (a) are charged by other than the Motorola-approved battery charger specified for charging such batteries; (b) have any broken seals or show evidence of tampering; (c) are used in equipment other than the Product for which they are specified; or (d) are charged and stored at temperatures greater than 60 degrees centigrade. Any of these voids the warranty.

• Products that have: (a) serial numbers or date tags that have been removed, altered or obliterated; (b) board serial numbers that do not match each other, or board serial numbers that do not match the housing; or (c) nonconforming or non-Motorola housings or parts. Any of these voids the warranty.

• Defects or damage that result from: (a) use of the Products in a manner that is not normal or customary; (b) improper operation or misuse; (c) accident or neglect such as dropping the Products onto hard surfaces; (d) contact with water, rain, extreme humidity or heavy perspiration; (e) contact with sand, dirt or the like; or (f) contact with extreme heat, or spills of food or liquid.

• Physical damage to the surface of the Products, including scratches, cracks or other damage to a display screen, lens or other externally exposed parts.

• Failure of Products that is due primarily to any communication service or signal you may subscribe to or use with the Products.

• Coil cords that are stretched or that have any broken modular tabs.

• Leased Products.

Flat- rate repair rates may apply to Products not covered by this warranty. To obtain information about Products needing repairs that are not covered by this warranty, please call the telephone number previously listed. We will provide information on repair availability, rates, methods of payment, where to send the Products, etc.

VII. Some Other Limitations

This is Motorola's complete warranty for the Products, and states your exclusive remedies. This warranty is given in lieu of all other express warranties. Implied warranties, including without limitation, the implied warranties of merchantability and fitness for a particular purpose, are given only if specifically required by applicable law. Otherwise, they are specifically excluded.

No warranty is made as to coverage, availability, or grade of service provided by the Products, whether through a service provider or otherwise.
No warranty is made that the software will meet your requirements or will work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected.
In no event shall Motorola be liable, whether in contract or tort (including negligence) for damages in excess of the purchase price of the Product, or for any indirect, incidental, special or consequential damages of any kind, or loss of revenue or profits, loss of business, loss of information or data, or other financial loss arising out of or in connection with the ability or inability to use the Products, to the full extent these damages may be disclaimed by law.

VIII. Patent and Software Provisions

At Motorola's expense, we will defend you, and pay costs and damages that may be finally awarded against you, to the extent that a lawsuit is based on a claim that the Products directly infringe a United States patent. Our obligation is conditioned on:

(a) you notifying us promptly in writing when you receive notice of the claim; (b) you giving us sole control of the defense of the suit and all negotiations for its settlement or compromise; and (c) should the Products become, or in Motorola's opinion be likely to become, the subject of a claim of infringement of a United States patent, you permit us, at our option and expense, either to: procure for you the right to continue using the Products; replace or modify them so that they become non- infringing; or grant you a credit for such Products, as depreciated, and accept their return. The depreciation will be an equal amount per year over the lifetime of the Products, as established by Motorola.

Motorola will have no liability to you with respect to any claim of patent infringement that is based upon the combination of the Products or parts furnished under this limited warranty with ancillary equipment, as defined in VI., above. This is Motorola's entire liability with respect to infringement of patents by the Products.

IX. State Law and Other Jurisdiction Rights

Some states and other jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from jurisdiction to jurisdiction.

To obtain information on Motorola Personal Communications Products, including warranty service, accessories and optional Extended Warranties on selected Products, please call:

USA	Canada
Cellular 1- 800- 331- 6456	All Products 1- 800- 461- 4575
Paging 1- 800- 548- 9954	TTY (Text Telephone)
FRS Radios 1- 800- 353- 2729	1- 888- 390- 6456
TTY (Text Telephone)	
1- 888- 390- 6456	

Accessories and software -- call the telephone number designated above for the product with which they are used.

DO NOT SHIP PRODUCTS TO THESE ADDRESSES – INSTEAD PLEASE CALL.

To correspond with Motorola about the Products, please write us at

http://www.motorola.com or at:

In the USA:	In Canada:
Motorola, Inc.	Motorola Canada Limited
600 North U. S. Highway 45	5875 Whittle Road
Libertyville, IL 60048	Mississauga, ON L4Z 2H4

FCC License Not Required

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 fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

Software Copyright Notice

The Motorola products described in this manual may include copyrighted Motorola and third party software stored in semiconductor memories or other media. Laws

Patent Information

This product is manufactured under one or more of the following United States patents:

5896277	D387758	D395882	6071640
5894292	D389158	D383745	D413022
5864752	5894592	D389827	D416252
5699006	5893027	D389139	D416893
5742484	5789098	5929825	
D408396	5734975	5926514	
D399821	5861850	5953640	

EXPORT LAW ASSURANCES:

This product is controlled under the export regulations of the United States of America and Canada. The Governments of the United States of America and Canada may restrict the exportation or re- exportation of this product to certain destinations. For further information contact the U. S. Department of Commerce or the Canadian Department of Foreign Affairs and International Trade.

Handsfree use disclaimer

The use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

Motorola Consumer Products Division
1705 Belle Meade Court
Lawrenceville, GA 30043

www.motorola.com/talkabout