

# **INSTRUCTION MANUAL**

\_\_\_\_\_Complete Manual attached.



## FCC Licensing Information

Your Motorola radio operates on FM radio communication frequencies and is subject to the Rules and Regulations of the Federal Communications Commission (FCC). The FCC requires that all operators using Private Land Mobile frequencies obtain a radio license before operating their equipment. Application for your FCC license is made on FCC Form 600 and schedules D, E, and G.

To have the forms faxed to you by the FCC, call the FCC Fax-On-Demand system at

1-202-418-0177 from your fax machine and request document 000600 for all forms and instructions.

To have the forms mailed to you, call the FCC forms hotline at : 1-800-418-FORM.

For questions concerning the license application, contact the FCC at : 1-888-Call-FCC (or 1-888-225-5322)

Before filling out your application, you must first determine your radio frequency. Radio frequency can be determined by first identifying the frequency number the radio is set to and then matching the number to the corresponding frequency in the Frequency Tables. See page ... and ... of this manual for additional information.

For questions on determining your radio frequency, please call: 1-800-448-6686

### **Copyright Information**

The Motorola products described in this manual may include copyrighted Motorola programs stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola, certain exclusive rights for copyrighted computer programs, including the exclusive right to copy or reproduce in any form, the copyrighted Motorola programs. Accordingly, any copyrighted Motorola computer programs contained in the Motorola products described in this manual may not be copied or reproduced in any manner without the express written permission of Motorola. Furthermore, the purchase of Motorola products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents or patent applications of Motorola, except for the normal non-exclusive royalty free license to use that arises by operation of law in the sale of a product.

### **Getting Started**

Thank you for purchasing a Motorola Spirit radio. Your radio is a product of Motorola's 50 years of experience as a world leader in the designing and manufacturing of communications equipment. With proper care and use, your Motorola radio should give you years of reliable communication.

### Contents of Package :

- Radio NiCd Battery Pack Optional: Charger Tray
- Belt Clip 10 Hour Charger Adapter



• Antenna • Operator Manual

FCC ID: AZ489FT4831



Batteries

## CAUTION

Do not remove the plastic wrap from the battery pack. This may permanently damage the battery.

The Ni-Cd battery ships uncharged, it must be fully charged for 16 hours before use (first charge only). It is recommended that only Motorola batteries and chargers are used with the radio.

The Ni-Cd rechargeable battery pack will provide approximately 8 hours of use on a 2 watt radio and 10 hours on a 1 watt radio with normal use i.e. 5% sending messages, 5% receiving messages and 90% in standby mode.

To Install/Remove battery :

Note : Radio must be in OFF position before installing/removing battery.

- 1. Push back battery cover latches until you see the orange tabs.
- 2. Slide battery cover down and lift to remove.
- 3. To replace/install battery, insert the battery pack with arrows facing you and towards top of radio..
- 4. Replace the battery cover and lock latches.
- 5. To remove battery: remove cover (steps 1 & 2), turn the radio over and tap the battery end of the radio against the palm of your hand. The battery will drop into your hand.

Charging the Ni-Cd battery Pack

Charging Adapter Instructions :

- 1. Turn the radio off.
- 2. Lift accessory cover and plug the Charger Adapter <u>firmly</u> into the small jack (lower hole).
- Plug the Charger into an electric outlet.
  The red light on the charger will glow continuously if charging properly.
- 4. Allow 10 hours for the battery to fully charge.

NOTE: For optimum battery life, the battery should not be left charging for prolonged periods after reaching full charge. Charging the battery over the weekend is acceptable.

NOTE: Transmitting while radio is charging in the Wall Charger can cause the radio transmitter or the charger to operate improperly. Do not transmit while radio is charging. If radio is on while charging, at least twice as much time is required to charge the battery. Turn the radio off when charging.

10 Hour Desktop Charger Instructions :

- 1. Connect Desktop Charger and Charger Adapter.
- 2. Charge the battery while inside the radio by placing the radio in the Charger Tray with radio facing towards you. You can also charge the battery by removing battery from radio and placing it in Charger Tray with silver contacts facing down and arrow facing toward the front.



- 3. The LED light on top of the charger will glow red continuously when radio / battery is inserted in charger. If light does not come on, check radio / battery is properly inserted and check battery/ charger contacts to be sure they are clean. The red LED will continue to glow until the radio / battery is removed from Charger Tray.
- 4. Allow 10 hours for the battery to fully charge.

Note: The Desktop Charger is optional and may not be included in your package. For more information, please contact your place of purchase or call 1-800-448-6686.

Low Battery Alert:

When the battery is low, the radio will beep 3 to 4 seconds after turning power on, every 10 minutes, and after release of the Push-To-Talk button. Recharge the battery pack immediately to avoid interrupted use.

Note: Remove battery pack before storing your radio for extended periods. Batteries corrode over time and may cause permanent damage to your radio.

### Antenna

To attach the antenna, rotate the antenna clockwise onto the top of the radio until hand tight.

Note: The antenna should always be installed when operating the radio. Operating the radio without an antenna greatly reduces the range of the radio and causes battery to get used more quickly.

### Belt Clip

Spirit radios come standard with a belt clip.

To Attach / Remove:

- 1. Align the belt clip to the mounting rails on the back of the radio
- 2. Push the belt clip down until it clicks into place.
- 3. To remove, pull tab on belt clip away from radio to release.
- 4. Slide belt clip up and off.

### Before You Can Talk

Please read this manual carefully to ensure you know how to properly operate the radio before use.

There are default settings programmed into your radio for Frequency per Channel, Interference Eliminator Code and Bandwidth. If it is necessary to change these default settings, the radio will audibly guide you through a series of programming steps.



Change Frequency, Code and Band:

### 1 channel models

1 While holding down Push-To-Talk button, turn radio on. The radio will announce the Frequency your radio is set to. See Frequency chart below for details

- 2. Press the Push-To-Talk button repeatedly or hold down to here Frequency choices.
- 3. Select and save your chosen frequency by pressing the monitor button.

You are now in the Code change mode. The radio will announce the Code the radio is set to.

- 4. Press Push-To-Talk repeatedly or hold down to hear Code choices. See Interference Eliminator Table below for details.
- 5. Select and save your chosen Code by pressing the monitor button.

You are now in Band change mode. The radio will announce Band 25 as the current setting.

- 6. Press monitor button to save this Band setting
- 7. Radio is now ready to use.

### 2 and 4 channel models

1 While holding Push-To-Talk button down, turn radio on. The radio will announce the Frequency of the channel your Channel Selector Knob is set to. See Frequency chart below for details.

2. Press the Push-To-Talk button repeatedly or hold down to hear Frequency choices.

- 3. Once you have reached your chosen Frequency, move your Channel Selector Knob to the next channel and the radio will announce the Frequency of this channel. Repeat step 2 until you reach your desired frequency. For 4 Channel radios, repeat steps 2 and 3 for the remaining channels.
- 4. When you have selected the frequency for each channel you wanted to change, press monitor button to save your selections.

You are now in the Code change mode. The radio will announce the Code the radio is set to.

- 5. Press Push-To-Talk repeatedly or hold down to hear Code choices. See Interference Eliminator Table below for details.
- 7. Select and save your chosen Code by pressing the monitor button.

You are now in Band change mode. The radio will announce Band 25 as the current setting.

- 6. Press monitor button to save this Band setting
- 7. Radio is now ready to use.



Things to Note :

- Interference Eliminator Code: Codes filter out static, noise and unwanted chatter on radio channels. You can only communicate with radios using the same channel and code. This will not make your conversations private as other users with uncoded radios will hear you. If the channel you are using is busy, change to another channel. For compatibility with radios that do not have the Interference Eliminator Code feature, the radio can be set to "Code Off" mode.
- **Bandwidth :** In the USA, the FCC is allocating new frequencies to the business radio service. All these future frequencies must operate on 12.5kHz Bandwidth. All frequencies currently available for Business Radio use operate on 25kHz Bandwidth. All M-Series radios will ship with Band 25 as default but will have the capability to upgrade to Band 12.5 to work with next generations of business radio. This gives users the flexibility to add to their radio fleet in the future without changing out their complete radio system.

FOR ALL M SERIES RADIOS, ENSURE YOU SET YOUR RADIO TO BAND 25kHz.

- To talk to others in your group, the radios must be set to the same channel and code (see Tables below for complete list).
- If you do not want to change frequencies on each channel, then push the monitor button after you have changed the positions you need and the radio will then go into code change mode.
- No programming is required for the "S" position on your Channel Selector Knob. Only select models have "S" position.
- Code numbers that have two digit (10-38) will be announced as "one zero"..."one one"... etc.
- You cannot transmit when you are in change Frequency, Code or Band mode.
- Code and Band settings apply to all channels.

**UHF Models (Model number begins with MU)** 

	Frequency Number	Frequency MHz	Color
*	1	464.5500	Yellow
*	2	467.7625	J
*	3	467.9250	Blue Star
*	4	467.8500	Silver Star
	5	464.5000	Brown
	6	467.8750	Gold Star
	7	467.9000	Red Star
	8	467.8125	K

# Frequency Tables



VHF Models (Model number begins with MV)

	Frequency Number	Frequency MHz	Color			
*	1	154.5700	Blue			
*	2	154.6000	Green			
*	3	151.6250	Red			
*	4	151.9550	Purple			

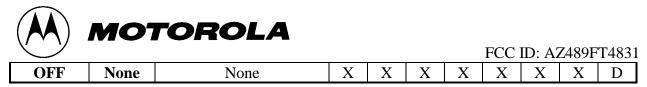
- Radios ship to users with default frequencies.
- For 1 channel models, radio ships with Frequency 1
- For 2 Channel models, radio ships with Frequencies 1 & 2
- For 4 Channel models, radio ships with Frequencies 1, 2, 3 & 4



Interference Eliminator Table :

# **M-Series Non M-Series Switch Position**

Code #	Code	Frequency (Hz)	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S7</b>	<b>S8</b>
1	XZ	67.0	D	D	D	D	D	D	U	U
2	XA	71.9	U	D	D	D	D	D	U	U
3	WA	74.4	D	D	D	D	D	U	U	U
4	XB	77.0	U	U	D	D	D	D	U	U
5	WB	79.7	D	D	D	D	U	D	U	U
6	YZ	82.5	U	D	D	D	D	U	U	U
7	YA	85.4	D	D	D	D	U	U	U	U
8	YB	88.5	U	U	D	D	D	U	U	U
9	ZZ	91.5	D	D	D	U	D	D	U	U
10	ZA	94.8	U	D	D	D	U	D	U	U
11	ZB	97.4	D	D	D	U	D	U	U	U
12	1 <b>Z</b>	100.0	U	U	D	D	U	D	U	U
13	1A	103.5	U	D	D	D	U	U	U	U
14	1B	107.2	U	U	D	D	U	U	U	U
15	2Z	110.9	U	D	D	U	D	D	U	U
16	2A	114.8	U	U	D	U	D	D	U	U
17	<b>2B</b>	118.8	U	D	D	U	D	U	U	U
18	3Z	123.0	U	U	D	U	D	U	U	U
19	<b>3</b> A	127.3	U	D	D	U	U	D	U	U
20	<b>3B</b>	131.8	U	U	D	U	U	D	U	U
21	4Z	136.5	U	D	D	U	U	U	U	U
22	<b>4</b> A	141.3	U	U	D	U	U	U	U	U
23	<b>4B</b>	146.2	U	D	U	D	D	D	U	U
24	5Z	151.4	U	U	U	D	D	D	U	U
25	5A	156.7	U	D	U	D	D	U	U	U
26	5B	162.2	U	U	U	D	D	U	U	U
27	6Z	167.9	U	D	U	D	U	D	U	U
28	6A	173.8	U	U	U	D	U	D	U	U
29	6B	179.9	U	D	U	D	U	U	U	U
30	7Z	186.2	U	U	U	D	U	U	U	U
31	<b>7</b> A	192.8	U	D	U	U	D	D	U	U
32	M1	203.5	U	U	U	U	D	D	U	U
33	M2	210.7	U	D	U	U	D	U	U	U
34	M3	218.1	U	U	U	U	D	U	U	U
35	M4	225.7	U	D	U	U	U	D	U	U
36	M5	233.6	U	U	U	U	U	D	U	U
37	M6	241.8	U	D	U	U	U	U	U	U
38	M7	250.3	U	U	U	U	U	U	U	U



# NOTE : All radios ship on Code # 29 (6B) as default

To Use Your Radio Turn The Radio On/Off :

Turn the volume/on/off knob clockwise. You will hear a beep and see the red LED flash momentarily to indicate the radio is on. To turn the radio off, turn the volume/on/off knob counterclockwise. You will hear a click to indicate the radio is turned off.

Adjust The Volume:

Hold Monitor button down to listen to audio level while rotating Volume knob. Rotate dial clockwise to increase and counter clockwise to decrease volume.

To Send and Receive messages:

Check channel activity by pressing Monitor button. You will hear static if the channel is clear to use. Do not transmit if someone is talking on channel.

- 1. To send a message, press the Push-To-Talk and speak into the radio. (To maximize clarity, hold radio 3 to 5 inches from mouth).
- 2. The red LED Indicator Light will glow continuously when sending messages.
- 3. To listen for messages, release the Push-To-Talk button.

### Time-out Timer:

The Time-out Timer feature helps extend battery life. The radio will emit a warning tone if the Push-To-Talk button is pressed for 2 continuous minutes and will stop transmitting.

Hands-Free Use (Optional Feature)

Built-in Voice Activated Transmission (VOX) allows you hands free operation of your radio. The sound of your voice activates transmission when the radio is used with a Headset With Swivel Boom Mic (HMN9038) or Earpiece with Microphone (HMN9039) (Both headset and earpiece are sold separately).

To Use VOX Feature:

- 1. Turn the radio off.
- 2. Open accessory connector cover and plug the accessory's connector into jack.
- 3. Turn radio on and lower volume before placing accessory on head or in ear. Press Monitor button while rotating Volume Knob to adjust volume to a comfortable listening level.
- 4. To transmit, speak into accessory microphone. To receive, stop talking.

Note: There will be a brief delay between when you start or stop talking and radio transmission.



Exit VOX mode:

Press Push-To-Talk button once.

To transmit, press Push-To-Talk button on radio. To receive, release the Push-To-Talk. To return to VOX mode, turn the radio off, then on again.

Note: The accessory jack cover is not detachable and should be closed when not in use.

## Scan (Optional Feature)

Some M Series models have scan. Scan allows the user to monitor two or more channels for activity, so you will not miss any messages.

To scan :

- 1. Move Channel Selector Knob to scan "S" position. The radio will scan the radio's programmed channels. If there are any transmissions on any of the channels, the radio will switch to that channel and you will receive the message.
- 2. You can transmit back to last channel that you received a message from by pressing the Push-To-Talk button within 5 seconds of message being received. If you do not want to reply to the message, the radio will go back to Scan mode after 5 seconds.

While in Scan mode, if you press the Push-To-Talk button before the radio picks up any activity on a channel, you will transmit on Channel 1.

### Care and Safety

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

If the radio gets wet, turn it off and remove batteries immediately. Dry battery compartment with a soft cloth to minimize potential water damage. If possible, leave cover off the battery compartment overnight or until completely dry.



Troubleshooting

#### Problem

### Solution

Radio is dead

Reposition or charge battery pack.

### Battery does not charge

If Charger Tray is used, make sure battery is positioned properly. See page xx.

If using Charger Adapter, make sure the red LED on the adapter glows indicating correct charging status. Radio should be turned off when using Charger Adapter. Charge time will be longer if radio is left on.

### Message not Transmitted

Make sure the Push-To-Talk button is completely pressed as you transmit.

Reposition or charge battery pack.

Message not Received

### Confirm radios have the same Channel

and Interference Eliminator Code settings.

Make sure Push-To-Talk is not inadvertently being pressed.

Obstructions, operating indoors or in vehicles may interfere with communication. Change your location.

Check to make sure volume is turned up.

Hearing Other Conversations

### Check that your Interference Eliminator

or noise on radio

Code is set (Active settings are 1 - 38)

Other users may be using channel - change channel to avoid congestion.

### Limited Talk Range

Steel/concrete structures, heavy foliage and use in buildings and in vehicles will decrease range, check for clear line of sight to improve transmission.

Wearing radio close to body such as in a pocket or on a belt will decrease range, change location of radio.



#### Heavy Static or interference

Radios too close. Radios must be at least 5 feet apart. Increase your distance apart.

Radios too far apart. Obstacles interfere with transmission. Talk range is up to two miles in clear unobstructed conditions.

If the radio still doesn't work properly contact your place of purchase or call Motorola product services at 1800-448-6686

Battery / Charger Safety Information :

### WARNING

Do not replace or recharge batteries in a hazardous atmosphere. Sparking may occur while installing or removing batteries from the radio and chargers which could trigger an explosion.

Charge batteries at about 77°F. Charging in cold temperatures (below 45°F) can result in electrolyte leakage and destroy the battery. Charging in hot temperatures (above 95°F) does not damage the battery, but reduced charge capacity will result.

### WARNING

Do not dispose of batteries in fire. This could create a fire or explosion hazard. Also, improper use of batteries may create a fire or explosion.

### CAUTION

- To reduce risk of damage to electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.
- Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not operate charger with damaged cord or plug, replace them immediately. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; contact place of purchase or call 1-800-448-6686.
- Do not expose chargers to rain or snow.



# CAUTION

An extension cord should not be used unless absolutely necessary. Use of an improper extension cord may result in a fire or electric shock. However, if an extension cord must be used, make sure:

- That pins and plug of extension cord are the same number, size and shape as those on the plug of the charger.
- That extension cord is properly wired and in good condition.
- That cord size is 18AWG for lengths of up to 100 feet, and 16AWG for lengths up to 150 feet.

# CAUTION

- Do not disassemble charger; contact place of purchase or call 1-800-448-6686 if charger is not functioning. Incorrect reassembly can result in electric shock or fire.
- To reduce risk of injury, charge only Motorola Ni-Cd rechargeable batteries. Other types of batteries may burst, causing personal injury and damage.
- Use of an attachment not sold or recommended by Motorola can result in a risk of fire, electric shock, or injury to personnel.
- To reduce risk of electric shock, unplug charger from outlet before cleaning. Turning off controls does NOT reduce this risk.



### INFORMATION FOR SAFE, EFFICIENT OPERATION

### EXPOSURE TO RADIO FREQUENCY ENERGY

In August 1996 the Federal Communications Commission (FCC) adopted updated RF energy exposure guidelines for wireless products regulated by the FCC. Those guidelines are consistent with the safety standards\* previously set by both U.S. and international standards bodies. The design of your Motorola two-way radio complies with the FCC guidelines and these standards.

- American National Standards Institute (C95.1 1992);
- National Council on Radiation Protection and Measurements (NCRP-1986);
- International Commission on Non-Ionizing Radiation Protection (ICNRP- 1986)

To assure optimal radio performance and to insure that exposure to RF energy is within the guidelines in the above standards, the following operating procedures should be observed:

### FOR PORTABLE TWO-WAY RADIOS

- <u>For hand held operation</u>, the radio should be held in a vertical position with the microphone one to two inches away from the mouth, and the antenna should be kept one to two inches from the head or body when transmitting.
- <u>For body worn operation</u>, the antenna should be kept at least one inch from the body when transmitting.

### ELECTROMAGNETIC INTERFERENCE/COMPATIBILITY

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

- Turn your radio OFF in any facilities where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.
- Turn your radio off when on board aircraft when instructed to do so. Any use of the radio must be in accordance with Federal Aviation Administration (FAA) and FCC regulations or crew instructions.

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### <u>CAUTION</u> (use appropriate ANSI symbol)

• Do not use the radio with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result.



• All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touches exposed terminals. The 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.

# WARNING (use appropriate ANSI symbol)

## POTENTIALLY EXPLOSIVE ATMOSPHERES

- Turn your radio OFF when in any area with a potentially explosive atmosphere, unless it is a type especially qualified for such use (for example, FMRC Approved)... Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.
- Do not replace or charge batteries in a hazardous atmosphere. Contact sparking may occur while installing or removing batteries and cause an explosion.

Areas with potentially explosive atmospheres are often, but not always, clearly marked. They include fueling areas such as below deck 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.

WARNING (use appropriate ANSI symbol)

### **BLASTING CAPS AND AREAS**

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

# WARNING (use appropriate ANSI symbol)

### FOR VEHICLES WITH AN AIR BAG

• An air bag inflates with great force. Do not place objects, including portable or mobile twoway radios, in the area over the air bag or in the air bag deployment area. If improperly installed or placed wireless equipment is in the air bag deployment area and the air bag inflates, serious injury could result.

Important

Do not depress Push-To-Talk button unless you are transmitting

Important

Do not allow children to play with any radio equipment containing a transmitter.



# WARRANTY

This warranty applies within the fifty (50) United States and the District of Columbia.

# LIMITED WARRANTY

# MOTOROLA COMMUNICATION PRODUCTS

# I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:

MOTOROLA INC. ("MOTOROLA") warrants the MOTOROLA products listed below in the product warranty schedule section of this warranty document ("Product") against defects in material and workmanship under normal use and service for a period of time from the date of purchase as scheduled below:

MOTOROLA, at its option, will, at no charge, either repair the Product (with new or reconditioned parts), replace it (with a new or reconditioned Product), or refund the purchase price of the Product during the warranty period provided it is returned in accordance with the terms of this warranty. Replaced parts or boards are warranted for the balance of the original applicable warranty period. All replaced parts of Product shall become the property of MOTOROLA.

This express limited warranty is extended by MOTOROLA to the original end user purchaser only and is not assignable or transferable to any other party. This is the complete warranty for the Product manufactured by MOTOROLA. MOTOROLA assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of MOTOROLA. Unless made in a separate agreement between MOTOROLA and the original end user purchaser, MOTOROLA does not warrant the installation, maintenance or service of the Product.

MOTOROLA cannot be responsible in any way for any ancillary equipment not furnished by MOTOROLA which is attached to or used in connection with the Product, or for operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. Because each system which may use the Product is unique, MOTOROLA disclaims liability for range, coverage, or operation of the system as a whole under this warranty.

### II. GENERAL PROVISIONS:

This warranty sets forth the full extent of MOTOROLA's responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at MOTOROLA'S option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.



#### III. STATE LAW RIGHTS:

FCC ID: AZ489FT4831

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY.

This warranty gives specific legal rights, and there may be other rights which may vary from state to state.

### IV. HOW TO GET WARRANTY SERVICE:

To receive warranty service, deliver or send the Product item, transportation and insurance prepaid, to the place of purchase along with your proof of purchase or lease and Product item serial number. Alternatively call 1-800-448-6686 for other locations.

#### V. WHAT THIS WARRANTY DOES NOT COVER:

a) Defects or damage resulting from use of the Product in other than its normal and customary manner.

b) Defects or damage from misuse, accident, liquid, or neglect.

c) Defects or damage from improper testing, operation, maintenance, installation, alteration, modification, or adjustment.

d) Breakage or damage to antennas unless caused directly by defects in material workmanship.

e) A Product subjected to unauthorized Product modifications, disassemblies or repairs (including, without limitation, the addition to the Product of non-Motorola supplied equipment) which adversely affect performance of the Product or interfere with Motorola's normal warranty inspection and testing of the Product to verify any warranty claim.

#### f) Product which has had the serial number removed or made illegible.

#### g) Rechargeable batteries if:

1) any of the seals on the battery enclosure of cells are broken or show evidence of tampering.

2) the damage or defect is caused by charging or using the battery in equipment or service other than the Product for which it is specified.

#### h) Freight costs to the repair depot.

i) A Product which, due to illegal or unauthorized alteration of the software/firmware in the Product, does not function in accordance with Motorola's published specifications or the FCC type acceptance labeling in effect for the Product at the time the Product was initially distributed from Motorola.

j) Scratches or other cosmetic damage to Product surfaces that does not effect the operation of the Product.

k) Normal and customary wear and tear.



### VI. PATENT AND SOFTWARE PROVISIONS:

MOTOROLA will defend, at its own expense, any suit brought against the end user purchaser to the extent that it is based on a claim that the Product or parts infringe a United States patent, and MOTOROLA will pay those costs and damages finally awarded against the end user purchaser in any such suit which are attributable to any such claim, but such defense and payments are conditioned on the following:

a) that MOTOROLA will be notified promptly in writing by such purchaser of any notice of such claim;

b) that MOTOROLA will have sole control of the defense of such suit and all negotiations for its settlement or compromise; and

c) should the Product or parts become, or in MOTOROLA's opinion be likely to become, the subject of a claim of infringement of a Unites States patent, that such purchaser will permit MOTOROLA, at its option and expense, either to procure for such purchaser the right to continue using the Product or parts or to replace or modify the same so that it becomes non-infringing or to grant such purchaser a credit for the Product or parts as depreciated and accept its return. The depreciation will be an equal amount per year over the lifetime of the Product or parts as established by MOTOROLA.

MOTOROLA will have no liability with respect to any claim of patent infringement which is based upon the combination of the Product or parts furnished hereunder with software, apparatus or devices not furnished by MOTOROLA, nor will MOTOROLA have any liability for the use of ancillary equipment or software not furnished by MOTOROLA which is attached to or used in connection with the Product. The foregoing states the entire liability of MOTOROLA with respect to infringement of patents by the Product or any parts thereof.

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### VII. PRODUCT WARRANTY SCHEDULE:

Spirit Radios:

One (1) year

Spirit Accessories:

One (1) year.

Rechargeable Batteries will be replaced during the applicable warranty period if:

- a) the battery capacity falls below 80% of rated battery capacity or,
- b) the battery develops leakage.