Operating Instructions

Model : R5

Safety Information and Warnings

Read This Information Before Using Your Radio.

Radio Antenna

Do not use any radio that has a damaged antenna. If a damaged antenna comes in contact with the skin, a minor burn may result.

Unauthorized antennas, modifications, or attachments could damage the radio and violate compliance. Do NOT change or modify the antenna.

Do NOT hold the antenna when the radio is "IN USE." Holding the antenna reduces range and may cause bodily harm.

Safety and general use whilst in a vehicle

Check the State and Federal laws and regulations regarding the use of two way radios in the area where you drive, and always obey them.

For Vehicles fitted with Air Bags

Do not place your radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a 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 the occupants of the vehicle.

Batteries

All batteries can cause property damage and/or bodily injury such as burns if conductive material such as jewellery, 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.

Do not replace batteries in a potentially explosive atmosphere. Contact sparking may occur while installing or removing batteries and cause an explosion.

Potentially Explosive Atmospheres

Turn your radio OFF when in any area with a potentially explosive atmosphere. Sparks in such areas could cause an explosion or fire resulting in injury or even death. NOTE: 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.

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 the two way radio." Obey all signs and instructions.

Transmit and Receive Procedure

Your two-way radio contains a transmitter and a receiver. To control 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). Always hold the radio approximately 5cm in front of your mouth with the antenna pointing away from your head.

Radio Operation and EME Exposure

Unauthorized antennas, modifications, or attachments could damage the radio and violate compliance. Do NOT hold the antenna when the radio is "IN USE." Holding the antenna reduces the effective range. Do not use the radio if the antenna is damaged. If a damaged antenna makes contact with your skin, a minor burn can result. If you wear a radio on your body when transmitting, always fit the radio on the belt clip (supplied). Always ensure the radio and it's antenna are at least 5cm from your body when transmitting.

Electromagnetic Interference/Compatibility

Nearly every electronic device is susceptible to electromagnetic interference (EMI). To avoid the possibility of electromagnetic interference and/or compatibility conflicts, turn off your radio in any location where posted notices instruct you to do so such as health care facilities.

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 (15cm) 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 15cm from their pacemaker when the radio is turned ON. • Not carry the radio in the breast pocket.

• Use the ear opposite the pacemaker to minimise 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 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.

General warnings

Never use your radio outdoors during a thunderstorm. Keep the radio out of reach of babies and young children.

INSTALLATION

Removing the belt clip

Pull the belt clip latch away from the unit.

Belt clip

Installing the Batteries   -Non rechargeable battery

Slide down the battery compartment cover.

Insert 4 x AAA alkaline batteries (not supplied).

Position the batteries according to the

polarity marking on the battery compartment.

After placing batteries into correct positions,replace the battery cover.

Installing the Batteries   - rechargeable battery

Slide down the battery compartment cover.

Insert 4 x AAA Ni-mah rechargable batteries or Ni-mah rechargable batteries pack .

When it is charged by φ 2.5MM USB cable ,charge time is 12 hours.

When it is recharged by cradle only for Ni-mah rechargable batteries pack,full time is 10hours

Position the batteries according to the polarity marking on the battery compartment.

After placing batteries into correct positions,replace the battery cover.

Low Battery Alert

The LCD on your radio shows a battery meter in the down left corner ▬▬ icon indicates a fully powered unit.
The Low Battery Alert beep will sound when the battery level drops to Level 1
If you continue to use the radio at Level 1 the Low Battery Alert beep will sound
If the battery level falls to Level 0 (flashing empty) the LCD display will turn off
after 30sec. An error tone will sound if any key is pressed
Transmitting Range
The talk range will depend on your surroundings and environment it will be affected by
obstructions such as hills or buildings.
Don't try to use two radio units which are less than 1.5m (5 feet) apart. Otherwise, you may
experience interference. Talk range depends on the terrain. It will be affected by concrete
structures, heavy foliage and by operating radios indoors or in vehicles.

88 CTCSS Code. Changes from 1 to 38 as selected by the user.

⟨III⟩ Displays the Battery change level. When the bars are reduced, the battery needs to be replaced.

TX Displayed when transmitting a signal.

RX Displayed when receiving a signal.

DCM Displayed when the Dual Watch function is turned ON.

VOX Displayed when the VOX feature is enabled.

Operating the unit

Turning unit on/off:

1- Switching on

Press and hold the MENU/PWR until you hear a beep sound.

2- Switching off

Press and hold the MENU/PWR until you hear a beep sound.

⊙⟲ Lock & Unlock the device.

Press and hold CALL button for 3 seconds to lock the device.

Press and hold CALL button for 3 seconds to unlock the device.

Auto scan.

Press & hold the MONI button for 3 seconds to activate auto scan.

Press & MONI button again to deactivate auto scan.

Adjusting the Volume

You have 8 present volume levels .They are displayed on the LCD screen ,when the radio is standby

Press the ▲ button to increase the Speaker Volume.

Press the ▼ button to decrease the Speaker Volume.

Press PPT(Push to talk) button to confirm the channel setting or MONI button or wait up to 10 second to confirm

Monitor

This feature enables users to listen in for weak signals on the current channel at the press of a button.

To use monitor,

For continuous listening.Press MONI and the receiver circuit will stay open, letting in both the noise & weak signals.Display shows RXTo return to normal receive mode press MONI once again.

Sending a Call Alert Tone

To send a Call Alert Tone, Press the CALL Button quickly. The Call Alert Tone will be automatically transmitted for a factory-set fixed length of time. During transmission, the TX icon appears on the display.   The communicator returns to standby mode when the Call Tone sequence is complete. For optimum performance, make sure the ANTENNA is pointing upright.

Changing CHANNELS

You have a maximum of 20 channels at your disposal .To communicate with another device,you must both be on the same channel.

1. Press the MENU/PWR button 1 time, the current channel number flashes on the LCD Screen.

2. While the channel number is flashing:

Press the (▲) button to move to a higher channel.

Press the (▼) button to move to a lower channel.

3.Press PPT(Push to talk) button to confirm the channel setting or MONI button or wait up to 10 second to confirm

Changing SUB-CHANNELS

1. Press the MENU/PWR button 2 times, the current sub-channel number(1-38CTCSS-CTCSS is a feature that allows a group to talk to each other without hearing other users on the same channel) or 1-83DCS -DCS is a digital extension of CTCSS.It provides 83 extra, digitally coded,squelch codes that follow after the 38CTCSS codes) flashes on the LCD Screen.

2. While the sub-channel number is flashing:

Press the (▲) button to move to a higher sub- channel.

Press the (▼) button to move to a lower sub- channel.

3.Press PPT(Push to talk) button to confirm the channel setting or MONI button or wait up to 10 second to confirm Your unit is simplex "one way at a time". While you are speaking, you can not receive a transmission.

Your unit is an open-license band. Always identify yourself when transmitting on the same channel.

Transmitting (sending speech)

The unit is continuously in the Receive mode when the unit is turned ON and not transmitting.

When a signal is received on the current channel, "RX" icon will be displayed on the LCD screen.

a.Press and hold the PTT (Push to Talk) button to transmit your voice. The transmit signal icon "TX"

will display on the LCD screen.

b. Hold the unit in a vertical position with the Mic (Microphone) 5 cm away from the mouth.

While holding the PTT button, speak into the microphone in a normal tone of voice.

c. Release the PTT button when you have finished transmitting.

For others to receive your transmission, they must be on the same channel as you.

VOX

VOX is the automatic transmitting function by inputting voice into the VOX mic without pressing the PTT key.

Your Walkie Talkie is capable of voice activated (VOX) transmission.In VOX mode, the radio will transmit a signal only when it is activated by your voice or other sound around you. VOX operation is not recommended,if you plan to use your walkie talkie in a noisy or windy environment.

1. Press the MENU/PWR button 3 times, the VX "Off" icon will blink on the LCD Screen.

2. Press the (▲)/ (▼) button to select the VOX sensitivity.VOX sensitivity 1, 2, 3,off can be selected on this unit.

3. In the VOX mode, the VX icon will be displayed.

4.Press PPT(Push to talk) button to confirm the channel setting or MONI button or wait up to 10 second to confirm NOTE: On VOX mode, user can speak with their voice through the microphone to activate transmitting mode automatically.

Melody Call Tone Selection

This function will let user to select the desired Melody Call Tone.

1. Press the MENU/PWR button 4 times, to select Melody Call tone modes.

2. Press the ▲ or ▼ button to select the desired Melody Call tone.

3.Press PPT(Push to talk) button to confirm the channel setting or MONI button or wait up to 10 second to confirm
NOTE: Melody Call Tones is available up to 10 melody tones.

TOT

time out timer means the unit will automatically stop transmit after 30sec or 60 sec continuously transmit.
Press Menu button 5 times,screen will display 60 TO,press Up or Down button can choose 60 or 30 seconds or OF.Default setting is 60 seconds,press the PTT button to confirm changes.

Roger beep on/off

Press the MENU/PWR button 6 times,screen will display **OF,** character **OF** keep flashing, by press **UP** or **Down** button to choose ,**ON** or **OF,** press **PTT** button to confirm setting, this is a tone which is automatically transmitted whenever the PTT button is released.Roger Beep is a BEEP that is sent to notify the end of transmission (both PTT and VOX transmission.) Roger Beep can be heard through the speaker when Key Beep is on. Roger Beep is transmitted even if Key Beep is turned off.

However, Roger Beep will not be heard from the speaker.Press PPT(Push to talk) button to confirm the channel setting.or MONI button or wait up to 10 second to confirm.default setting is on when power on

Key Beep

Press the MENU/PWR button 7 times,screen will display **OF,** character **OF** keep flashing, by press **UP** or **Down** button to choose ,ON or **OF,** Press PPT(Push to talk) button to confirm the channel setting.or MONI button or wait up to 10 second to confirm,   default setting is on when power on

DCM

Press the MENU/PWR button 8 times,screen will display **OF,** character **OF** keep flashing, by press **UP** or **Down** button to choose ,**ON** or **OF,** press the MENU/PWR to set DCM,in this model the LCD will display DCM on the top and When DCM function is active, priority channel is watched every 1.5 seconds.,default setting is off   when power on.Press PPT(Push to talk) button to confirm the channel setting.or MONI button or wait up to 10 second to confirm

NOAA Weather radio

Press ▲ button 3 seconds to active NOAA Weather radio ,RX icon will display and weather icon will flash ,press

MENU/PWR button once ,the weather channel is flashing ,use ▲ or ▼ button to select the desired weather

channel .The weather channel,total have 10 channels for selecting ,press PTT button for confirm the setting .Press

▲ button 3 seconds again to deactivate NOAA Weather radio.

NOAA Weather ALERT

Press ▲ button 3 seconds to active NOAA Weather radio   ,press MENU/PWR button Twice,AL OF will appear on

the LCD screen, use ▲ or ▼ button to select AL OFF or ON ,when the AL is on ,when have emergency singal

come,it will alarm 20 seconds ,press any button to listen the messeage,

Troubleshooting	
SYMPTOM	**SOLUTION**
No power.	The battery may be weak. Check battery. Ensure that the battery are installed properly. Replace the old battery with new battery AAA*4PCS
Reception is weak.	Press the ▲ button to increase VOLUME. The receiving signal may be weak and/or out of range.

Range is limited.	Wearing the radio close to the body, such as in a pocket or on a belt, will decrease range; change the location of the radio. may limit the range significantly. Open fields provide the maximum range, while steel/concrete structures, heavy foliage, and use in buildings and in vehicles Replace with new if the BATTERY CHARGE LEVEL indicator is low. battery Battery may be weak. The maximum range will vary depending on terrain and environment.
Sound distortion problems.	Radios too far apart. Obstacles interfere with transmission. Talk range is up to 1-2KM in clear unobstructed conditions. Radios too close. Radios must be at least 5 feet apart; increase your distance. If you are transmitting, speak in a normal tone of voice, 2 to 3 inches away from the MICROPHONE. If you are receiving, lower the VOLUME to a comfortable level.

Ch.	Frequency	Ch.	Frequency	Ch.	Frequency	Ch.	Frequency
1	462.5625	7	462.7125	13	467.6875	19	462.6500
2	462.5875	8	467.5625	14	467.7125	20	462.6750
3	462.6125	9	467.5875	15	462.5500	21	462.7000
4	462.6375	10	467.6125	16	462.5750	22	462.7250
5	462.6625	11	467.6375	17	462.6000		
6	462.6875	12	467.6625	18	462.6250		

FCC Statement

This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

RF Exposure Warning

This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. The SAR limit adopted by US is 1.6 W/kg averaged over 1 grams of tissue. The highest SAR value for this device type when properly worn on the body is 0.30 W/kg.