

USER MANUAL

Congratulations

You have just purchased a qualified 2 Way Radio. Please read this operation instruction carefully before use. If you follow up the operation instructions and cautions of this instruction manual, it will surely bring you the happy radio communication experience. Please keep this operation instruction with care for future reference.

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Safety Precautions

Please read the following precautions before using the interphone:

General rules:

- ◊ Please keep the distance between the antenna and head to be about 2.5 centimeters when transmitter.
- ◊ Please use the special accessories for this unit or the optional accessories produced by the company, otherwise it may possibly cause trouble or damage to the interphone. For the optional accessories produced by the company, you can inquiry with our distributor.
- ◊ Please note that this product is using the common communication channel, if has other users to set it in the same channel, it has the opportunity to receive the communication signal transmitted by this product, you can also receive the signal from the other users.
- ◊ Do not expose this unit to rain or any type of moisture.
- ◊ This interphone is not a toy, please be careful not to be used by the children. Should ensure this interphone to be used within the valid communication range.
- ◊ Please don't try to change this interphone.

Environmental conditions

- ◊ Avoid using under the improper environment, such as: dirt, moisture and extreme high/low temp. environment. Operation under the environment of below humidity 85% can reach better efficiency.
- ◊ Close this interphone in the places sticking the notice that the interphone or mobile phone is prohibited for using.
- ◊ Avoid extruding LCD with heavy force, if so, the LCD will be damaged.
- ◊ Please don't use this interphone in the places with high humidity and much dirt.

Battery

- ◊ Avoid any conductor such as: jewelry, key or metal necklace to touch the end part of the battery, if so, the conductor can cause short circuit and result in the battery is too hot or exploding.
- ◊ If your product uses rechargeable battery(ies), charge the battery(ies) only in accordance with the instructions and limitation specified in the User Manual.

Electromagnetic interference / Compatibility

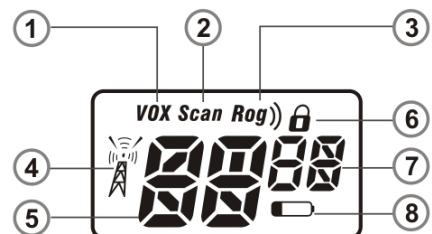
- ◊ Can not change the transmitting frequency, expand the transmitting power freely(including to fix transmitting frequency power amplifier additionally), and can not connect the antenna outside or change to use the other transmitting antenna freely.
- ◊ Can not create harmful interference to all kinds of legal radio business when using. Once the harmful interference is found, it must be stopped for using immediately, and it can not be used continuously until the interference is eliminated by adopting measures.
- ◊ When using the public interphone, its communication quality will not be protected by the radio management body, and should bear the interference created by the other normal working radio business possibly.
- ◊ Prohibit to connect with the public telephone network, public mobile communication network and other communication network.
- ◊ All the functions of AC-800 Pro, WT-558 have been preset before launched, except for changing batteries, can not open the housing to change the electric circuit and components.
- ◊ Almost each kind of electronic device will be affected by the Electromagnetic interference easily. In order to avoid interference, don't approach the electronic device when using AC-800 Pro, WT-558.

Buttons and Controls



Main Screen

1. VOX
2. Scan
3. roger beep
4. Transmitting status (TX) or receiving status(RX)
5. Channel
6. Key Lock
7. Subcode
8. Battery Level Indicator



- Low Battery:  Blinks, need battery change or recharging.
- Charging:  battery icon will be displayed but not blinks.

Remarks:

When you turn on the unit, LCD display will show all icons. After 1 second, the unit will go to standby mode.

Other Features of Various Symbols Shown on the LCD.

Symbol	Major feature
	Channel Selection
	Subcode Selection
	Auto-scan of Channel
	Monitor Function
	Call Tone Selection
	Key Beep
	Roger Beep
	Power Selection
	VOX Function

Battery Installation

1. Switch off the radio, rotate belt clip clockwise /anticlockwise by 90 degree.
2. Open the battery compartment door.
3. Insert batteries according to the anode-cathode signs shown inside battery compartment
4. Close the battery compartment door.

Note:

1. Don't mix new and old, different styles, alkaline or rechargeable or different capacity battery.
2. There is a danger of explosion if battery is incorrectly replaced. Replaced only with the

same or equivalent type.

3. Attention should be drawn to the environmental aspects of battery disposal.
4. To avoid battery leakage, remove batteries if it is not used for a long time.
5. When the batteries are damaged, please disregard and dispose them with care. Do not dispose of the batteries to heat source to avoid explosion.

Recharging Function

Low Battery Alert

When the battery level becomes low, the battery icon blinks twice in every second. When the battery is too low, the unit will power off automatically. Please change the batteries. If you use NiMH rechargeable batteries, please use supplied charging adaptor for charging. Please do not charge it over 8 hours or the unit may not function properly.

Use charging adaptor for charging:

Connect the adaptor into socket and connect the charging jack hole (earphone jack) on the top of the unit, you can charge two units at the same time. Battery icon appears on the LCD when the unit is in charging. Battery icon disappears when the unit is fully charged after 8 hours.



Charging when unit is turned off



Charging when unit is turned on

Note:

- ★ Please fully charge the rechargeable batteries before first time usage.
- ★ This is a danger of explosion or product damage if Alkaline batteries is placed inside battery compartment for charging.
- ★ Please use only the supplied **rechargeable batteries**, AC/DC adaptors for charging, otherwise may damage the unit or may cause explosion.
- ★ When the unit is power on and charging, PTT and CALL key is not activate.

Quick Start

A . Power On / Off

1. Power On: Rotate the power knob clockwise to turn on the radio, a click sound can be

heard when power on. Turn the power knob to desired volume level.

- Power Off: Rotate the power knob anti-clockwise to power off the radio.

Remarks: When the walkie talkie is connected with the power supply or battery installed, it will power on automatically.

B. Key Lock / Unlock Keypad

- Press and hold MENU key for 2 seconds to lock the key, then LCD screen will display key lock icon(Fig 1).
- Only MENU key is activate when Key lock.
- Repeat the above operation to unlock, the key lock icon on the LCD screen will disappear.



Fig 1

C. Select the same channel

- Press MENU key once to select channel selection CH menu(Fig 2).
- Press ▲ or ▼KEY , select your needed channel.
- Press POWER key to confirm the channel and return to main screen



Fig 2

D. Subcode Selection

- Press MENU key to enter SC setting(Fig 3).
- Press ▲ or ▼KEY to select SUB CODE (00-38) .
- Press POWER key to confirm the sub-code and return to main screen.



Fig 3

Remarks: If SUB CODE is 00, LCD display will not shown 00.

E. Make a Call

Press CALL key once to make a calling tone to your friend.

F. Transmitting Message

Press and hold PTT key to talk to other user, "A" shows on the LCD screen to indicate transmission status.



G. To Receive a Call

Release PTT or CALL key and wait for signal. "A" shows on the LCD screen to indicate radio is in receiving mode.



H. Talk Over Earphone

Simply plug the earphone into the Earphone Jack, press PTT key of the earphone and speak.

Function Setting

A. Volume Level Adjustment

Rotate the power knob to desired volume level when power on the phone.

B. Activate / Inactivate the (VOX)

User can talk and communicate with each other without pressing and holding the PTT button. There are 3 levels of selection (01-03).

1. Press MENU key to enter menu Vo setting.
2. Press ▲ or ▼KEY to set sensitivity level (Fig 6-8) or OFF(Fig 5).
 - The higher sensitivity level, higher VOX/ MIC sensitivity.
 - The Lower sensitivity level, Lower VOX/MIC sensitivity.
3. Press POWER key to confirm the setting and return to main screen.



Fig 5



Fig 6



Fig 7

Remarks:

- The default setting of VOX function is OFF.
- When setting VOX ON, "VOX" shown on the LCD.

B. Activate / inactivate the Auto-scan of Channel

1. Press MENU key to enter menu Scan setting(Fig 9).
2. Press POWER key to start scanning, LCD will display "Scan"icon and channel number of changed scanning(Fig 10).
3. Channel scanning stops once the signal is detected.

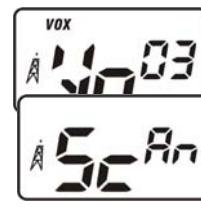


Fig 9

C. Activate / inactivate the Monitoring Function

User can activate the monitoring function under the weak signal so as to receive all the signals in this channel.

2. Press MENU key to enter menu M setting(Fig 11).
3. Press POWER key to activate the monitoring function and return to the main screen automatically.
 - Activate the monitoring function: Low anti-interference capability, longer distance can be achieved.
 - Close the Monitoring Function: High anti-interference capability, shorter distance can be achieved.



Fig 10



Fig 11

Remarks:

- Under the monitoring status, press the MENU key, it will close the monitoring function automatically.
- Under the monitoring status, Press PTT key, call key, ▲ or ▼KEY, the monitoring status is unchanged.

D. Selecting the Call Tone

1. Press MENU key to enter menu CL setting(Fig 12).
2. Press ▲ or ▼KEY to select Call Tone(01-05), Call tone demonstration will be heard in each selection.
3. Press **POWER** key to confirm the setting and return to main screen.

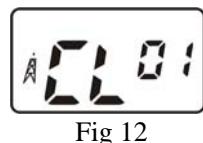


Fig 12

Remarks: The default setting of Call Tone is 01.

E. Selecting the Key Beep

Activate / Inactive the key beep according to your own preference.

1. Press MENU key to enter menu KB setting.
2. Press ▲ or ▼KEY to set key beep to be On(Fig 13)or OF(Fig 14).
3. Press **POWER** key to confirm the key beep setting and return to the main screen.



Fig 13

Remarks: The default setting of key beep is ON.

F. Selecting the Roger Beep

When the another party has activated the Roger Beep Function, the user can hear an ending tone (roger beep) when ending the talk.

1. Press MENU key to enter menu R setting.
2. Press ▲ or ▼KEY to set the Roger Beep to be On(Fig 15)or OF(Fig 16).
3. Press **POWER** key to confirm and return to the main screen.



Fig 14



Fig 15



Fig 16

Remarks: The default setting of roger beep is ON.

G. High Low Output Power selection

1. Press MENU key to enter power selection menu HP setting.
2. Press ▲ or ▼KEY to set power to be On(Fig 17)or OF(Fig 18).
 - OF: Higher transmission power, longer distance, but high battery consumption.
 - On: Low transmission power, shorter distance, but low battery consumption.
3. Press **POWER** key to confirm and return to the standby mode.



Fig 17



Fig 18

Remarks: The default setting is OFF.

Other Functions setting

LCD Backlight

LCD Backlight would be on for 5 seconds once any key is pressed.

Return to the main screen automatically

When the menu is pressed, if there is no operation in 10 seconds, it will return to the main screen automatically.

Setting Memory

All setting set before the radio is off are memorized and will automatically resume to it when turning on the radio again. The unit will return to the previous setting when it is activated again.

Fast Changing of Channels

Use ▲ or ▼KEY to select the menu or adjust channels, sub-code, volume, etc., it will change the number sequentially if you press the UP or DOWN key for more than 1 second.

TECHNICAL SPECIFICATIONS

Description	Specifications
Operating Frequency	462.5500 ~ 462.7250MHz 467.5625 ~ 467.7125MHz
Channels	22
Sub-code	38
Modulation	FM
Communication Range	Un-obstructed conditions: Up to 8 km
Power Source	AAA *4
Battery Life	6 hours (This time is divided into 90% Standby, 5% Transmission, 5% Reception)
Fully Charging Time	< 12 hours

Transmit-Receive Frequencies

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

CTCSS SUBCODE (HZ)

Code	Frequency(Hz)	Code	Frequency(Hz)	Code	Frequency(Hz)
1	67.0	14	107.2	27	167.9
2	71.9	15	110.9	28	173.8
3	74.4	16	114.8	29	179.9
4	77.0	17	118.8	30	186.2
5	79.7	18	123.0	31	192.8
6	82.5	19	127.3	32	203.5
7	85.4	20	131.8	33	210.7
8	88.5	21	136.5	34	218.1
9	91.5	22	141.3	35	225.7
10	94.8	23	146.2	36	233.6
11	97.4	24	151.4	37	241.8
12	100	25	156.7	38	250.3
13	103.5	26	162.2		

Communication Environment

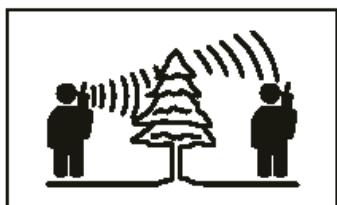
1. General communication environment(the following figure 1)
 - a. Within the communication range, there is no equipment produces the interference signal which power is more than or equal to output power of WT-558, for example high voltage power cable, radio station & etc.
 - b. Within the communication range and under open area, there is no large-scale buildings with metal act as the block.

2. Perfect communication environment(the following figure 2)

Based on above 2 general communication environments and under open areas, communication range can be over 10 km when 2 communicators are positioned at horizontal straight sight.

3. Poor communication environment(the following figure 3)

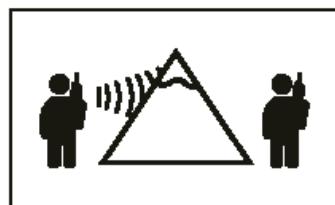
There is solid block between 2 communicators, it is suggested not to communicate under this environment.



1.General Communication Environment



2.Perfect Communication Environment



3.Poor Communication Environment

Caution and safety notice

In order to prevent the hazard from user and other people, it will possibly cause the serious results of serious harm and dead etc by misusing.

If the following abnormal conditions appear when using or recharging, please take out the batteries and un-plug the power source immediately and stop using or it may cause short circuit, fire, burning or electric shock of poor insulation etc if continue use it If any problem on the unit, please consult with your distributor, absolutely not to repair it by yourself.

- ☆ If there is smoke, abnormal heat, abnormal smell (burning smell), please don't use it, and take out the batteries.
- ☆ If there is other material inside the product, please don't use it. Take out the batteries and stop using it.
- ☆ If the housing is broken or damaged, please don't use it. Take out the batteries and stop using it..
- ☆ If the battery surface is broken or damaged, peeled off etc, or the power cord is exposed etc, please don't use it. Take out the batteries and stop using it.



Caution!

- ☆ Please don't remove the adaptor from the socket or operate the switch by wet hand, or it will cause electric shock easily.
- ☆ Please don't disassemble and change the product. User must not disassemble and repair it you are not in charge of repairing, or it may cause short circuit, fire. or electric shock etc.
- ☆ If the specification of the socket and wiring apparatus excesses the load, please don't

use it or it may cause fire, burning or electric shock etc.

- ★ Please don't use the broken or damaged power cord or plug as well as power source plug with dirt etc. or it may cause short circuit, heating, burning or electric shock of poor insulation etc.
- ★ Please ensure not to use the power source plug until it is plugged into the socket. or it may cause short circuit, heating, burning or electric shock of poor insulation etc.
- ★ Please don't let this unit approach the container with water, such as: tub, shower or bathroom. If this unit filled with water, please don't use it, and please contact the distributor.
- ★ Please don't put it in the unstable places of wobble or leaning etc. Because it will be affected by earthquake or outer force, easily make the product spilled, so cause the dangerous of injury, and make the product failed or damaged.



Caution:

- ★ Please don't extrude or bend the power cord excessively.
- ★ Do not place heavy and lighted objects such as candles, cigarettes on the unit.
- ★ They are provided for ventilation and protection against overheating, please don't block it.
Please don't put it on the objects of table covered with table cloth, carpet, quilt etc.
- ★ Please make sure to plug off the power cord and connecting wire when moving this unit,
Please don't let this unit bumped when using it.
- ★ Please don't spray the insecticide or volatility substance onto the housing surface of this unit, otherwise it will easily make the product housing damaged and result in fault, or cause the accidents of electric shock and burning etc.
- ★ Use a soft and damp cloth for cleaning. Do not use the solution contained corrosion chemical product for cleaning.

Trouble Shooting

Problem	Solution
No Power	Reposition or replace batteries.
Message Not Transmitted	<ol style="list-style-type: none"> 1. Make sure the PTT button is completely pressed as you transmit. 2. Make sure the microphone hole has not been block. 3. Reposition or replace batteries.
Message Not Received	<ol style="list-style-type: none"> 1. Confirm radios have the same channel and sub-code setting. 2. Make sure PTT is not inadvertently being pressed. 3. Reposition or replace batteries. 4. Obstructions operating indoors or in vehicles may interfere with communication. Change your location. Check to make sure volume is loud enough to be heard.
Hearing Other Conversation / Noise from the other walkie talkie or channel	<ol style="list-style-type: none"> 1. Confirm this channel or sub-code is being used. 2. Try another channel and sub-code.
Limited Talk Range	<ol style="list-style-type: none"> 1. Steel/concrete structures between each other, heavy foliage will decrease communication range, check for clear line of sight to improve transmission. 2. 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	<ol style="list-style-type: none"> 1. Radio are too close to each other. Radio must be at least 2 meters apart, increase your distance. 2. Radio are too far apart. Obstacles interfere with transmission. 3. Talk range is up to 10 km in clear and unobstructed conditions.
keypad cannot work	<ol style="list-style-type: none"> 1. The keys are locked, please unlock the key lock firstly. 2. The key will be frozen temporarily when the radio is transmitting. If you press the PTT suddenly, please release it. 3. Under the VOX condition, it will also make a transmission even if you do not press the PTT, you can close the radio to activate it again.



THIS PRODUCT COMPLIES WITH EU DIRECTIVE 2012/19/EC.

The crossed bin symbol on the appliance indicates that the product, at the end of its life, must be disposed of separately from domestic waste, either by taking it to a separate waste disposal site for electric and electronic appliances or by returning it to your dealer when you buy another similar appliance. The user is responsible for taking the appliance to a special waste disposal site at the end of its life. If the end-of-life product is collected correctly as separate waste, it can be recycled, processed and disposed of ecologically; this avoids a negative impact on both the environment and human health, and contributes towards the recycling of the product's materials. For further information regarding the waste disposal services available, contact your local waste disposal agency or the shop where you bought the appliance.

Declaration of compliance

Hereby, declares that the radio equipment type is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

Symbols key



Complies with relevant EC directives as amended



Warning!

SAR tests are conducted using standard operating positions accepted by the FCC with the walkie talkie transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the walkie talkie while operating can be well below the maximum value. Before a new model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC, tests for each product are performed in positions and locations as required by the FCC.

For body worn operation, this device has been tested and meets the FCC RF exposure when used with an accessory designated for this product or when used with an accessory that contains no metal.

To maintain compliance with the FCC RF exposure guideline, hold the transmitter and antenna at least 2.5 centimeters from your face and speak in a normal voice, with the antenna pointed up and away from the face.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

In order to comply with the FCC RF exposure requirements, the antenna installation must comply with following:

Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure limits.

Your wireless hand-held portable transceiver contains a low power transmitter. This product sends out RF signals when the PTT button is pressed

The device is authorized to operate at a duty factor not to exceed 50%.