

THANK YOU!

We are grateful that you chose our radio for your land mobile radio applications.

We believe this easy-to-use digital dual band radio will provide dependable and reliable communication to personal operating at peak efficiency. The radio incorporates the latest in advanced technology. As a result, we feel strongly that you will be pleased with the quality and features of this product!

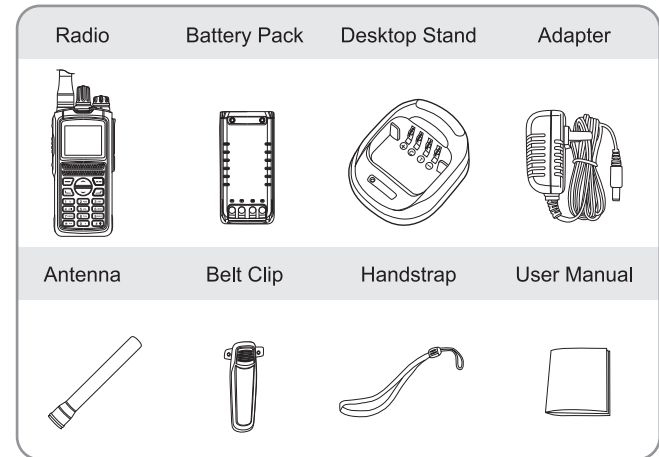
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UNPACKING AND CHECKING EQUIPMENT

Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

Packing Lists



Charging the Battery Pack

1. Using the Battery Pack.

The battery pack is not charged at the factory, please charge it before use. To extend the battery pack lifetime, please power off the transceiver and remove the battery pack when not in use.

2. Battery Pack Characteristics.

The battery will slowly wear out even not in use. After charging and recharging, it's normal that the talk and standby times are noticeably shorter than normal times. If leaving the battery in very hot or cold place, it will reduce the capacity and lifetime of the battery. Overcharging may also shorten its lifetime.

3. Charging the Battery Pack.

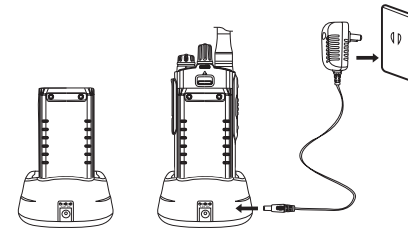
Please charge your battery only with approved charger.

Initially charging the battery pack after purchase or extended storage (greater than 2 months) will not bring the battery pack to its normal operating capacity. After repeating the charge/discharge cycle two or three times, the operating capacity will increase to normal level.

Please charge the battery pack as follows:

1. Slide the battery pack or transceiver with a battery pack into the desktop charger.

2. Make sure the battery pack contacts are in contact with the charging terminals.
3. The charging LED lights red and charging begins.
4. After charging about 4 hours, when the light turns to green, it means the battery pack is fully charged.
5. Then you can take off the battery pack or transceiver with the battery pack and use it.



LED Indicator

LED Indicator	Status
The LED glows red.	Charging the battery pack.
The LED flashes between red and green.	Already charge the battery is charged up to 90%.
The LED flashes red.	The battery pack is short circuit or low voltage status.
The LED glows green.	Charging completed.

Attaching/Removing the Antenna

1. Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure (Figure 1).
2. Turn the antenna counter clockwise until you can remove it (Figure 2).



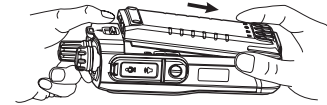
(Figure 1)



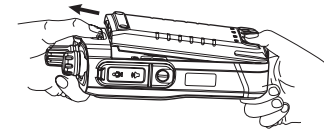
(Figure 2)

Installing/Removing the Battery Pack

To install the battery pack, fit the extensions at the bottom of the battery into the slots at the bottom of the transceiver's body. Press the top part of the battery towards the transceiver until a "click" sound is heard.

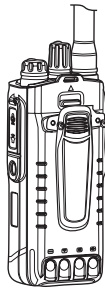


To remove the battery pack, lift up the battery latches in the middle of the battery. Pull the top part of the battery away from the transceiver's body, and lift the battery from the transceiver's body.



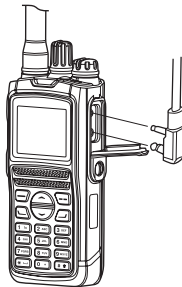
Installing the Belt Clip

If necessary, screw the belt clip at the back of the battery.

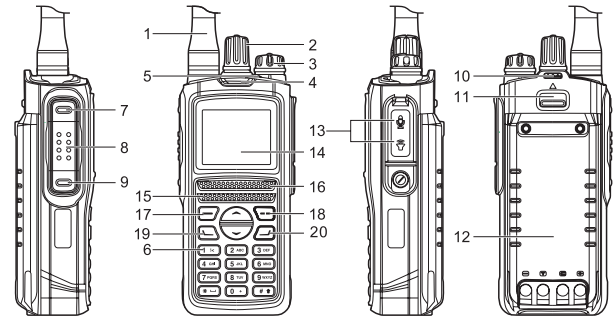


Installing the Earphone

Insert the earphone plug into the speaker/microphone jacks.



Orientation



No.	Part Name	No.	Part Name
1	Antenna	11	Battery Lock Button
2	Tuning Control	12	Battery Pack
3	Power/Volume Switch	13	Earphone/Data Cable Jack
4	LED Indicator	14	LCD Display
5	Top Key (TK)	15	Speaker
6	Keypad	16	Internal Microphone
7	Programming SK1	17	Function Key 1 (F1)
8	PTT Switch	18	Function Key 2 (F2)
9	Programming SK2	19	Enter Contact
10	Hand Strap Hook	20	VFO/MR/CH

Programmable Auxiliary Functions

Your dealer may program the [TK], [SK1] or [SK2] (long press or short press) with one of the following auxiliary functions respectively.

Shortcut key	Function
None	No function.
Emergency On	Allows the user to set up an emergency call.
Emergency Off	Allows the user to terminate an outgoing emergency call.
Squelch On Momentary	To always unmute the speaker no matter whether carrier is present or not.
Zone Up	To increase the Zone number.
Zone Down	To decrease the Zone number.
Scan	Allows the user to toggle the scan feature between on or off.
Noise Ch Del	Allows the user to temporarily remove an unwanted channel from the scan list, except the selected channel. The nuisance deleted channel will be restored into the scan list, for instance, when radio is powered off and back on again.
Adjust Power Level	Quickly switch between high power and low power.
Adjust Squelch Level	Allows the user to access Squelch Level setting list.
Home Channel	When the activity in other channels or interface, press to quickly switch to the set waiting channel.

Shortcut key	Function
Squelch On	To always unmute the speaker no matter whether carrier is present or not.
Monitor	Enable monitor function.
Talk Around	To directly communicate with other radios.
Quick CII 1	To make corresponding service.
Quick CII 2	To make corresponding service.
Quick CII 3	To make corresponding service.
Quick CII 4	To make corresponding service.
Quick CII 5	To make corresponding service.
Lone Work	Working alone to open the key. Press this button to turn on or off individual job functions.
VOX	Hands-free transmission.
FM Radio	To activate the FM radio.

Note:

- ◆ You can set the time of pressing long key from 1.5~5.0 seconds (default: 2.0 seconds) with programming software, when you press any of [TK], [SK1] or [SK2] key, the time of pressing is over your setting time, then it's a long time key, otherwise, it's a short key.
- ◆ Squelch Off feature only to be enabled for analogue channels.

LCD Icons

Indicator	Icon	Radio Status
RSSI		More bars indicate better signal strength.
Battery Strength Icons		More bars indicate more battery power.
Scan Icons		Scanning is in progress.
		Scanning pauses on a non-priority channel.
		Scanning pauses on Priority Channel 1.
Talk Around Icon	DM	Direct mode.
	RM	Talk around feature is activated.
Emergency Icon		The Emergency mode (other than secret emergency) is activated.
TX Power Icons	L	Low Tx power for the current channel.
	H	High Tx power for the current channel.
Receiving Icons		Receiving is in progress.
Message Icons		New message/unread message.
Channel Type	A	Analog channel.
	D	Digital channel.
	M	Mixed channel.
FM Radio	FM	Turn on the FM radio.
VFO Channel	VFO	In the VFO mode.

LED Indicator

The top LED indicator will help you easily identify the current radio status.

LED Indication	Radio status
LED glows red	Transmitting
LED flashes red	Low battery
LED glows green	Receiving
LED flashes orange	Scanning
LED glows orange	Within the call holding time

Switch Power On/Off

1. Power ON: rotate the **[Power On-Off/Volume Control]** knob clockwise until a click is heard.
2. Power OFF: rotate the **[Power On-Off/Volume Control]** knob counter-clockwise until a click is heard.

Adjusting the Volume

After turning the radio on, rotate the **[Power On-Off/Volume Control]** knob clockwise to increase the output sound volume, or counter-clockwise to decrease it.

Select Working Band

In standby mode, you can press [F2] key to select working band, the highlighten area on LCD display means the current working band you are selecting, the grey area on LCD display means you don't select. The PTT operation, programmable keys, keypad, tuning control ect. only work under working band.

Select Channel Mode

In standby mode, you can press [VFO/MR/CH] key to select one of VFO/MR/CH mode cyclically.

- VFO mode: You can change frequency through keypad or tuning control.
- MR mode: To display current channel information.
- CH mode: To display alias of current channel, this alias can be edited by user.

Selecting a Zone

A zone is a group of channels exhibiting the same property, and is programmed by your dealer. The radio supports 100 zones, each with a maximum of 200 channels. You may select a zone through any of the following method:

- 1) Go to the menu "Zone", and use the Up/Down key to select your desired zone.
- 2) You can select through the zone programmable key.

Selecting a Channel

You can rotate [Tuning Control] to select the desired channel.

Battery Save

The battery save function decreases the amount of power used when signal is not being received and no operations are being performed (no keys are being pressed and no switches are being turned); While the channel is not busy and no operation is performed, battery save function activates. When a signal is received or an operation is performed, battery save is disabled.

Low Battery Alert

For extra convenience, if the battery level runs low, when press PTT to transmit, the transceiver will sounds "Please charge the battery" at setting time (every 1~255 seconds, default: OFF), to alert the user to recharge the battery.

Press the Menu Key to access menu items. Menu options are variety according to the channel which is in use. You may request your dealer to program whether some menu options will be listed.

Public Menu

Scan

Press the Menu key in the home screen and then select "Scan". The Scan feature allows you to listen to communication activities on other channels so that you can keep a close track of your team members. This option is used to enable or disable the function.

Settings

To access this menu, press the Menu key in the home screen and then select "Setting" to "Radio Set".

- 1) The volume level: There are 3 levels (High, Mid, Low) for selection, you can select proper level based on your condition and habit.
- 2) Alert Tone: This option allows you to configure whether to emit an alert tone when making keypad operation/power on or power off tone.
- 3) Brightness: Allow the user to adjust the brightness level of the radio display.
- 4) Backlight: This option is used to enable or disable the backlight feature. There offers 6 options: Off/Infinite/5s/15s/30s/60s.

- 5) Zone: The radio supports up to 100 zones. You can use this menu to select your desired zone and you may request your dealer to program zone number or alias.
- 6) Power Level: This option allows you to set transmit power level. Alternatively, you can change the power level by pressing the shortcut key for Adjust Power Level in the home screen.
 - **H** icon displays on LCD screen is high power;
 - **L** icon is low power. High power level enables you to communicate with farther team members.
- 7) Language: This option allows you to configure radio language. There offers 2 options: Chinese/English.
- 8) Keypad Lock: To set the lock modes and turn on/off keypad lock feature.
- 9) Hands-Free VOX: To set the voice input gain level, VOX delay time or turn on/off VOX feature.
- 10) Micphone Gain: There are 3 levels (High, Mid, Low) for selection, you can select proper level based on your condition and habit.
- 11) Channel Step: In VFO mode, to select the channel step from one of them (5.00K/6.25K/10.00K/12.50K/25.00K /50.00K/100.00K).
- 12) Time-Out Timer (TOT): To set the overtime time and alert time of TOT.
- 13) Battery Saving: To turn on/off battery saving feature.

- 14) Working Modes: To set the radio working mode at dual band (Band A & Band B), only Band A or only Band B.
- 15) Edit the Channel: You can edit the current channel in the list or create a new channel and edit it. New channel will automatically be added in the current channel list.
- 16) Programming Key: There are 3 programmable side key ([TK]-[SK1]- [SK2]) to set your desired feature.

Noted: Menu No.15 & Menu No.16 may require input password before setting, you can program the password through software, also set no password.

Radio Information

To access this item, press the Menu key in the home screen and then select "Radio Information".

With this option, you can view basic information of your radio, including model name, radio ID, serial number, firmware version, frequency range.

Digital Menu

Contact

To access this item, press the Menu key in the home screen and then select "Contact".

- 1) Contact List:

- a) View: You can view details of each contact, such as contact alias, number.
- b) Send Message: You can edit and send a message to a Call contact in the list.
- 2) New: You can add a Call contact to the contact list. Contact number up to 8 numbers can be input.

Check DMR ID: There are up to maximum 160000 DMR ID in the list, you can check the list and the relative details, or search your desired ID to call. If someone who already in your contact list transmit a call to you, then his/her DMR ID (Call ID, Name, Address ect.) will appear on your display.

Message

To access this item, press the Menu key in the home screen and then select "Message".

- 1) New: You can create a new message and send it out or save it to draft. You can send it to a single user or to a group.
- 2) Quick Text: Users can access quick text messages stored in the host predefined. User can edit or send these text messages.
- 3) Inbox: The Inbox can save up to 16 received messages. When the Inbox is full, the earliest message will be overwritten by the latest one automatically. For each message, you can choose to perform any of these operations: Resend, Forward, Save as New, Delete.

To delete all messages in the Inbox, select "Message -> Inbox -> Delete All".

4) Outbox: The Outbox can save up to 16 sent messages. When the Outbox is full, the earliest message will be overwritten by the latest one automatically. For each message, you can choose to perform any of these operations: Resend, Forward, Detail Save as New, Delete.

To delete all messages in the Outbox, select "Message -> Outbox -> Delete All".

5) Draft: The Drafts can save up to 16 draft messages. When the Drafts are full, the earliest message will be overwritten by the latest one automatically. For each message, you can choose to perform any of these operations: Send, Save as, Delete.

To delete all messages in the Drafts, select "Message -> Drafts -> Delete All".

Call Logs

To access this item, press the Menu key in the home screen and then select "Call Logs".

The radio can save up to 16 Private Call entries in the Outgoing/Incoming/Missed list respectively. When the Outgoing/Incoming/Missed list is full, the earliest entry will be overwritten by latest one automatically.

After accessing a list and selecting an entry, you can perform any of these operations: hold down the PTT to initiate a call; add it to Contact List; or delete it.

To delete all entries in the Outgoing/Incoming/Missed list at a time, select "Call Logs -> Outgoing/Incoming/Missed -> Delete All".

Analog Menu

Squelch Level

To access this item, press the Menu key in the home screen and then select "Settings". This option allows you select an appropriate squelch level.

Call

This radio supports two calls: analog and digital call. Analog channel can only speak to analog channel, Digital channel can only speak to digital channel.

- In the analog channels, hold down the PTT key to transmit a call and speak to against the MIC.
- In the digital channels, hold down the PTT key to transmit a call to the call contact preset for the current channel.

It was transferred to the receiving state after release [PTT] key.

Receive

- In the analog channels, radios can be programmed CTCSS / DCS function. If you choose to these features in the current channel, you can only receive calls the same set of radio transmitted. If you choose a channel is not set above, you will receive a call that the other using the same frequency emitted.
- In the digital channel, when you must receive a matching color code or the radio receives a call ID, you can hear the call from transmitter.

Call System**Private Call**

You may initiate a Private Call through any of the following methods.

- Initiating a call to the preset contact: In the home screen, hold down the PTT key to initiate a Private Call to the Private Call contact preset for the current digital channel.

- Initiating a call through Contact List or Call Logs

1. Go to "Contact -> Contact List", or go to "Call Logs" access the Outgoing/Incoming/Missed list.
2. Use the Up/Down key to select the Private Call contact you want to call.
3. Hold down the PTT key to initiate the Private Call.

- Initiating a call through Manual Dial: Input a Private Call number you want to call, Hold down the PTT key to initiate the Private Call.

Group Call

You may initiate a Group Call through any of the following methods.

- Initiating a call to the preset contact: In the home screen, hold down the PTT key to initiate a Group to the Group Call contact preset for the current digital channel.
- Initiate a call through Contact List: Go to "Contact->Contact List", Use the Up/Down key to select the Group Call contact you want to call, Hold down the PTT key to initiate the Group Call.
- Initiating a call through Manual Dial: Input a Group Call number you want to call, Hold down the PTT key to initiate the Group Call.

All Call

You may initiate an All Call through any of the following methods.

- Initiating a call to the preset contact: In the home screen, hold down the PTT key to initiate a Group to the Group Call contact preset for the current digital channel.

- Initiate a call through Contact List: Go to "Contact->Contact List", Use the Up/Down key to select the All Call contact you want to call, Hold down the PTT key to initiate the All Call.
- Initiating a call through Manual Dial: Input a All Call number you want to call, Hold down the PTT key to initiate the All Call.

Call Hang

This is unique features of digital channels.

Press [PTT], you can continue to call back after the call to end and within the call holding time. The specific time provided by the dealer.

Adjust Power Level

Power level indicates the power of the transmit power; radios can be set power level according to the actual demand. After the power level is adjusted by programming key, power is switched between high and low power.

Channel Spacing

Analog channel: 12.5K and 25K.

Digital channel: 12.5K.

TX Admit

If enabled via the programming software, this feature can prevent radio interfering with other transmitting radios on the same channel.

If you hold down the PTT key while the channel is in use, your radio

will keep beeping alerting you to transmission prohibition. To stop beeping, please release the PTT key. When the channel is free, you can hold down the PTT key to transmit.

RX Only

Current channel only do receive, and prohibit any transmit on the channel.

TOT

The purpose of TOT is to prevent any user from occupying a channel for an extended period. If the preset time expires, radio will automatically terminate transmission and keep beeping. To stop beeping, please release the PTT key. You must wait for a certain time period (preset by your dealer) to initiate another transmission.

Talk around

You can continue to communicate in DM mode by pressing the programmed Talk Around key, when your repeater malfunction or when your radio is out of the repeater's range but within talking range of other radios.

Private Call Confirmed

This feature sets Private Individual calls on the current digital channel as confirmed. By default, Private Individual calls are unconfirmed.

Squelch Tail Elimination (STE)

When finish communication, there is a tail squelch, you can use this feature to eliminate.

The default setting is OFF.

NOTE: Only analog channel have this function.

VOX

The VOX feature allows radio to transmit just need the voice rather than press the PTT.

Adjust Squelch Level

When there is no signal present, squelch outputs muffler from background noise (squelch circuit closed).

You can choose to squelch level.

Squelch On

Press programmed to squelch on button, radios will sound background noise, again press the button to exit.

Squelch On Momentary

With the same to squelch on function, only difference is you need to hold down to work, when you release the squelch is closed.

Scan

Scan feature can help you listen to the other channels of communication activities. The scanning process is as follows:

1. When scanned, LED flashes orange.
2. When you scan a channel that has an active, the radio will remain in the current channel.
3. In the scanning process can be transmit, transmitting mode configured by the dealer.
4. Press the Scan button to exit.

Note: When scanning, the VOX function does not work.

Digital Emergency

In case of an emergency, you can seek through this function to a partner or a control center to help. Start the alarm function can be activated by the emergency alarm button.

This radio supports 3 kinds of emergency mode, you can choose one of the following:

1. Emergency: The radio sends an emergency alarm and exits the emergency mode. This alarm is non-voice signal that triggers an alert indication on another radio.
2. Emergency Call: An emergency alarm is sent, after which an emergency call can be transmitted by pressing the PTT button.
3. Urgent Call: This option enables the Hot Mic feature, allowing for the programming of the Hot Mic related feature, i.e. Hot Mic Duration. An emergency alarm is sent and the microphone is activated for an urgent call. Voice is transmitted without the need to press the PTT button.

Lone Worker

If radio has no valid physical operations (buttons) within a range of time, during which time the pre-alarm tone will sound, the time it reaches the set value, is recognized as an emergency, entered an emergency alarm mode.

Quick Call

Quick call access feature allows you to operate according to the preset key setting function, this function can be set through the radio side key function.

Digital: To initiate a call to send Short Message/Call Alert/Radio Check/Remote Monitoring to the specified contact.

Encrypt

This is unique features of digital channels. Encrypt feature can encrypt your audio signals to prevent eavesdropping, thus privacy of your communication is guaranteed.

Radio Disable

Sometime you would like the radio is prohibited to transmit and receive, then you can use remote disable function.

Radio Enable

It wakes the radio in the Disable state.

Remote Monitor

Remote monitoring function is allowing users to remotely activate the microphone of the target radio, the target radio secretly send background voice to users, so as to achieve the effect to voice messages be monitored.

Radio Check

Radio Check allows you to configure whether the target radio can send an acknowledgement back to the digital channel. Radio Check enables the originating radio to recognize that a call using the digital channel has been received by the target transceiver. NOTE: Only private call has this function.

Keypad Lockout

Press [Menu] key and [*] key in 2 seconds after pressing [Menu] key to lock the keypad.

When keypad lockout, press [Menu] key and press [*] key in 2 seconds after pressing [Menu] key to unlock the keypad.

There are 2 modes of keypad lockout:

Keypad: Only lockout of keypad.

ALL: Lockout of all keypad, button and switch except [PTT] button.

Digital Monitor

You can turn on/off this feature through "Setting" - "Digital Monitor"

menu in menu system. When turn on this feature, your radio will monitor current channel and show out the relative infos (DMR ID, color code) on "Channel Infos" menu. You can set only to monitor the channel of the same ID or anyone of ID, the same color code or anyone of color code in your list, when select anyone of ID or color code, it means to monitor all digital channel call.

Transmit Interrupt

This feature allows you to stop an ongoing transmission of a remote interruptible call to free the channel.

Voice Interrupt: When your radio is receiving an interruptible call, you can stop the call at any time, just press and hold your [PTT] button to transmit the order of interruption, when end the interruption of the call, you can transmit your call. This feature is only operated for digital channel and should select "transmit interrupt" of channel setting in advance.

Digital & Analog Converter

When the current channel is in mix mode, your radio can receive the signals of both of digital call or analogue call. In this mode, the setting of analogue receiving should be set with CTCSS.

FM Radio

You can turn on/off FM radio through programmable key or menu of "setting" - "FM Radio".

There are 20 memory channels and 1 VFO channel, you can toggle the VFO and MR mode through [VFO/MR/CH] key. Memory channels only to be programmed through software in advance.

1. In MR mode, no any frequency to be showed on LCD display means idle channel, you can input the frequency to automatically save to current channel, then press [▲]/[▼] key or tuning control to select MR channel.
2. In VFO mode, you can input frequency directly, or when turn on FM radio, use [▲]/[▼] key to scan the frequency. When scanning to a valid frequency, it will stay on the current channel.

Standard CTCSS Tones Table

1 - 67.0	11 - 94.8	21 - 131.8	31 - 171.3	41 - 203.5
2 - 69.3	12 - 97.4	22 - 136.5	32 - 173.8	42 - 206.5
3 - 71.9	13 - 100.0	23 - 141.3	33 - 177.3	43 - 210.7
4 - 74.4	14 - 103.5	24 - 146.2	34 - 179.9	44 - 218.1
5 - 77.0	15 - 107.2	25 - 151.4	35 - 183.5	45 - 225.7
6 - 79.7	16 - 110.9	26 - 156.7	36 - 186.2	46 - 229.1
7 - 82.5	17 - 114.8	27 - 159.8	37 - 189.9	47 - 233.6
8 - 85.4	18 - 118.8	28 - 162.2	38 - 192.8	48 - 241.8
9 - 88.5	19 - 123.0	29 - 165.5	39 - 196.6	49 - 250.3
10 - 91.5	20 - 127.3	30 - 167.9	40 - 199.5	50 - 254.1

Standard DCS Codes Table

023	071	143	225	266	356	452	532	664
025	072	145	226	271	364	454	546	703
026	073	152	243	274	365	455	565	712
031	074	155	244	306	371	462	606	723
032	114	156	245	311	411	464	612	731
036	115	162	246	315	412	465	624	732
043	116	165	251	325	413	466	627	734
047	122	172	252	331	423	503	631	743
051	125	174	255	332	431	506	632	754
053	131	205	261	343	432	516	645	
054	132	212	263	346	445	523	654	
065	134	223	265	351	446	526	662	

Phenomena	Analysis	Solution
Power-on Failure.	<input type="checkbox"/> The battery may be improperly installed.	Remove the battery and reassemble it.
	<input type="checkbox"/> The battery may be dead.	Recharge or replace the battery.
	<input type="checkbox"/> The battery is poorly connected due to dirtied or damaged battery contacts.	Clean the battery contacts. If the problem cannot be solved, contact your dealer or authorized service center for inspection and repair.
During receiving, the voice is weak, discontinuous or totally inactive.	<input type="checkbox"/> Low battery voltage.	Recharge or replace the battery.
	<input type="checkbox"/> Low volume level.	Increase the volume by rotating the Volume Control knob.
	<input type="checkbox"/> The antenna may be loosened or improperly installed.	Reassemble the antenna after turning off the radio.
	<input type="checkbox"/> The speaker may be blocked or damaged.	Clean the surface of the speaker. If the problem cannot be solved, contact your dealer or authorized service center for inspection and repair.

Phenomena	Analysis	Solution
Unable to communicate with other members.	<input type="checkbox"/> The frequency or signaling may be inconsistent with that of other members.	Set your TX/RX frequency and signaling to the same as that of other members.
	<input type="checkbox"/> The channel type (digital/analogue) may be set inconsistently.	Make sure all members are on the same digital/analogue channel.
	<input type="checkbox"/> You may be too far away from the group members.	Move towards other members.
Irrelevant communication or noise is heard on the channel.	<input type="checkbox"/> You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.
	<input type="checkbox"/> The radio may be set with no signaling.	Set signaling for all member radios to avoid interference at the same frequency. And change the signaling settings for all portable radios at the same time.

Phenomena	Analysis	Solution
The noise is too loud.	<input type="checkbox"/> You may be too far away from other members.	Move towards other members.
	<input type="checkbox"/> You may locate in an unfavorable position. For example, your communication may be blocked by high buildings or frustrated in the underground areas.	Move to an open and flat area, and restart the radio to try again.
	<input type="checkbox"/> You may suffer from external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.