



U.V Dual Band Multifunctional Two-way Radio



Duplex Cross Band Repeater (V-U or U-V)

Same-Band/Cross-Band Simultaneous Reception Scrambler/Compander









USER'S MANUAL

CE Caution:

Hereby, **Swouxun** declares that this Two-way radio is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU.

A copy of the DOC may be obtained through the following address.

Address: #38 Yuantai 1st Road, Jiangnan High Technology Industry Park, Licheng District, Quanzhou 362000, Fujian, China

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Installing before use



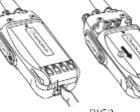
■ Install / remove batterypack

The batterypack is not fully charged before leaving factory. Please charge it before use.

NOTE <u>∧</u>

- >> Do not shortcircuit the terminals or put the batterypack into fire.
- >> Do not try to remove the case from the batterypack
- Please aim the batterypack at the back of the transceiver, and then push up and press down the batterypack to lock the release latch. (PIC1)
- If you want to remove the batterypack, push down the release latch, and the batterypack will be released from the transceiver. (PIC2)





1

PIC2

Getting Started

Description of Features

- Duplex Repeater (VHF to UHF or UHF to VHF)
- 2. Duplex Work Mode (TX on one area while RX on the other area simultaneously)
- 3. Dual Receiving (RX on the same/different bands of A&B areas simultaneously)
- Large Colorful Screen
- 5. Dual Display

Dual Band Display on Large Screen, Two Independent Operation System

- Frequency Offset and Direction Programmable in Repeater Mode UHF/VHF or VHF/UHF Cross-Band Repeater
- 999 Memory Channels
- QT/DQT Encoding/Decoding, QT/DQT Scan
- 9. VOX
- 10. Multi Definition for Sidekeys
- Incoming Message Display Caller ID display



- 12. DTMF Encoding&Decoding
- 13. All Calls, Group Calls And Selective Calls
- SOS Function
- 15. Priority Scan Function
- 16. Remote Alarm
- 17. Wide/Narrow Bandwidth Selection (25KHz/12.5KHz)
- 18. Voice Guide: Chinese/English
- 19. Chinese/English Screen Display
- 20. Bright Flashlight Illumination
- 21 Single-Tone Pulse Frequency: 2100Hz/1750Hz/1000Hz/1450Hz (signalling for activating repeater)
- 22. Reverse Frequency
- 23. Stopwatch
- 24. Scrambler
- 25. Setting for Backlight
- Compander

Getting Started

Specifications

| | Intergration | Receiving | Wide bandwidth | Narrow bandwidth | |
|-----------------------|---|------------------------------|-----------------------------|------------------|--|
| | | Adjacent Channel Selectivity | < 70dB | < 60dB | |
| Frequency | | Inter Modulation | < 65dB | ≤60d8 | |
| Range | Suitable for Different Countries or Areas | Spurious Response | < 70dB | < 70d8 | |
| 1.001.00 | | Audio Response | +1~3dB | +1~3dB(0.3 | |
| | | Audio response | (0.3~3KHz) | ~2.55KHz) | |
| | 5KHz / 6.25KHz / 10KHz / 12.5KHz | Signal to Noise Ratio | > 45dB | >40d8 | |
| Step | / 25KHz / 50KHz / 100KHz | Hz Audio Distortion | | 5% | |
| Channel Number | 999 | Audio Power | Transceive | er < 500mW | |
| Work Mode | F2D / F3E | | | | |
| Operating Temperature | -20°C or 40°C | | | | |
| Antenna Resistance | 50Ω | | | | |
| Voltage | 7.4VDC | Sensitivity | UHF/VHF: 0.25µV(12dB SINAD) | | |
| Weight | 490g | | | | |
| Size | 124.5x 61.49 x 33.88 (mm) | 1 | | | |
| | | | | | |

| Transmitter | Wide bandwidth | Narrow bandwidth | Transmitter | Wide bandwidth | Narrow bandwidth |
|------------------------|----------------------|-------------------------|-------------------------|----------------|------------------|
| Type of Modulation | 16K F3E | 11K F3E | Max Frequency Deviation | ± 5KHz | ± 2.5KHz |
| Adjacent Channel Power | > 70dB | > 60d8 | Frequency Stability | ± 2.5 | ppm |
| Spurious | > 60dB | > 60dB | Audio Distortion | <5% | , |
| Audio Response | +1~3dB (0.3~3KHz) | +1~3dB (0.3~2.55KHz) | | | |

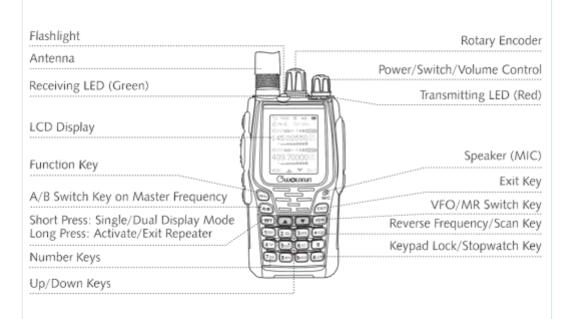


Description of Transceiver LCD Display

There are various indicators display on the screen when powering on. Please refer the below table to learn what the indicators stand for accordingly.



Getting Started





Description of Functions

Multi Work Modes

- a. Normal transceiver's communication mode
- b. Directional cross-band repeater mode or two way cross-band repeater mode

Note: Work modes can be switched via my key

- There are A and B areas on the LCD screen to display two bands' status. The master band is with a sign "MAIN" on the top right. This is an important sign, since all the below operation instruction are for the master band. The band without this sign is called "Sub-band".
- Specifications on A&B bands can be programmed separately. Please set the band that you want to program any specifications into as the master band firstly.
- Some functions are not allowed to be used under directional cross-band repeater or two way crossband repeater mode.

Basic operation

Quick Search

Short press or key to search the desired function/parameter during your setting, while long press to quick search.

DTMF encoding

This transceiver has DTMF encoding. By pressing the right number key on transmitting you can choose



the right DTMF tone which you want to TX. Number key and corresponding DTMF encoding are as belows:

| RPT | | \mathbf{v} | ALC AL | | Α | В | С | D |
|------|------|--------------|----------|---|---|---|---|---|
| 1 | 2.00 | 3 | C | _ | 1 | 2 | 3 | * |
| 4 | 5 | 6101 | 0 | _ | 4 | 5 | 6 | 0 |
| 7,00 | 8 | 9 | #ing | | 7 | 8 | 9 | # |

■ Setting Reverse Frequency Function

When the reverse frequency function is activiated, the transmitting and receiving frequencies can be exchanged. And the CTCSS/DCS encoding and decoding can also be exchanged.

How to operate reverse frequency function:

In standby mode, long press to turn on the reverse frequency function; long press again to turn off.

■ Working Mode Switch

Two work modes: VFO(Frequency) mode and MR(Channel) mode. Three different display manners for MR mode.

A. Channel NO. B. Frequency+Channel NO. C. Channel Name

It is available to switch between the frequency mode and the channel mode manually or via the programming software. If you want, you can set the password for the mode switch.

Description of Functions

VFO/MR(Frequency/Channel switch) switch is indicated as following:

VFO — MR(Channel NO.) — MR(Frequency+Channel NO.) — MR(Channel Name)

When you set password for switching work mode, press ,LCD screen display ______, please input the correct password and press . If inputting the wrong password, the work mode switch can not be workable. Password only can be programmed via @wouxun supplied programming software. When the password is made up of full "ZERO", the work mode switch does not require password.

Wire Clone Function

| Using wireclone | Installing the battery for source transceiver and target transceiver. Powering on target transceiver. Press PF3 of source transceiver, and power on at the same time. Red LED of the source radio flashes, the cloning activates | LED is flashing red during cloning. LED goes out in case of successful cloning. LED glows continuous red in case of cloning failure. |
|--------------------|--|--|
| | Target Transceiver | Green indicator is flashing during cloning. Indicator is off when completing cloning. |



How to use the intelligent charger

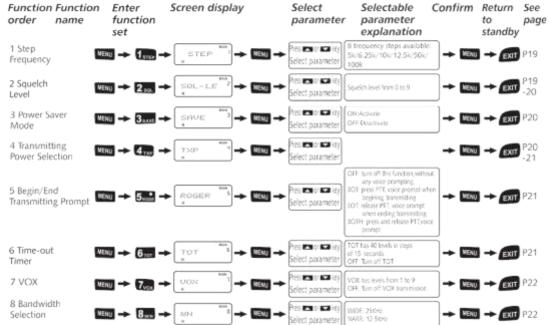
When the battery power is low, the transceiver will activate voice guide, and prompt "Di" in every 5 seconds.

- Insert the AC plug into outlet (AC:90-240V), the charger indicator flashes once. That means the charging is in standby.
- Insert the battery into the charger, the RED indicator continuously flashes. That means the charging is on the progress.

While the GREEN indicator continuously flashes. That means the charging is complete.

- When inserting the exhausted battery into the charger, it will pre-charge the battery in trickling mode, the RED light of charger flashes and lasts 10-20 minutes, then start normal charger with RED light keeping on, it will turn to GREEN when it is fully charged.
- » Trickling charge the exhausted battery is to protect the lithium-ion battery.

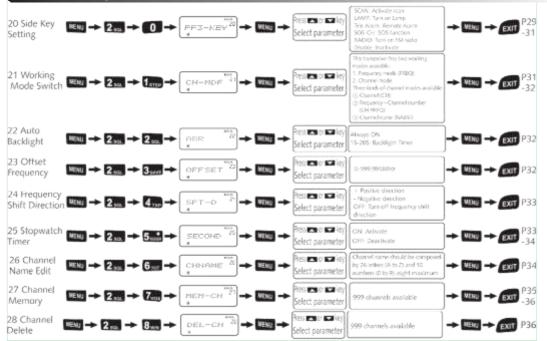
Shortcut Operation Sheet



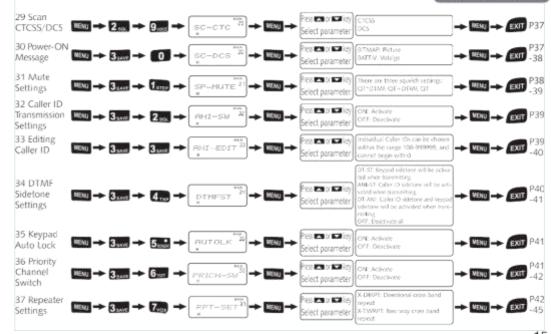


| 9 Voice Guide | MENU - | 9.00 → | MOICE | → MENI → | Press or ve key Select parameter | CHINESE: Chinese voice prompt ENGUSH: English voice prompt OFF: Turn off voice prompt | → MENU → EXII | P22 -23 |
|-----------------------------------|--------------------|--------------------|----------|-----------------|--|--|----------------|------------|
| 10 Transmitting Overtime Alarm | + (111) + | 0 → | 70A | → MENI → | Press or a key Select parameter | ON Activate OFF:Deactivate | - WENT - EXIT | P23 |
| 11 Beep Prompt | +1+ | 1,,,, | DEEP | → WENU → | Press or see key Select parameter | ON: Turn as beep prompt function OFF: Turn off beep prompt function | → MENU → EXIT | P23 -24 |
| 12 Display Language | → () → | 2, → | LANGUAGE | → (25) → | Press a or a key Select parameter | CHINESE ENGLISH | → MENU → EXIT | P24 |
| 13 Busy Channel Lockout | → (1) → | 3 → | BCL | → WEN → | Press or le key Select parameter | ON: Turn on BCL OFF: Turn off BCL | → MEMI] → EXIT | P24 |
| 14 Scan Mode | +1 | 4 ₁₀₀ → | SC-REU | → MENU → | hess or key Select parameter | 3 Kinds of Sour modes TO: Time scanning mode CO: Carrier mode scan SE: Sourch mode scan | → WENU → EXIT | P24 -25 |
| 15 Receiving CTCSS | → 1) → | 5 → | R-CYC | → NEW → | hess or salkey Select parameter | 50 groups CTCSS (67:0Hz-254.1Hz) OFF: Yam off CTCSS | → MENU → EXIT | P25 |
| 16 Transmitting CTCSS | + | 6,,,,, → | T-CTC | → MBD → | Press or law key Select parameter | 50 groups CTCSS (67,0Hz-254,1Hz) OFF: Turn off CTCSS | → NEW → EXIT | P26 |
| 17 Receiving DCS | → []]] → | 7 ₄₆₈ → | R-DCS | → W2NU → | Press or see key Select parameter | 195 groups DCS (D023N-D754) OFF. Turn off DCS | → MENZ → EXIT | P26 |
| 18 Transmitting | + (1111) + | 8 _{wn} → | T-DCS | → MEN → | Presses or saley Select parameter | 105 groups DCS (DE23N-D754E) OFF: Turn off DCS | → MEHI → EXIT | P26 |
| 19 Side Key Setting | → [mm] → | 9.00 → | PFI-KEY | → MENU → | Press or key Select parameter | CALL Selective Call VETX:Transmission on Sub- frequency | → WENG → EXIT | P28 |

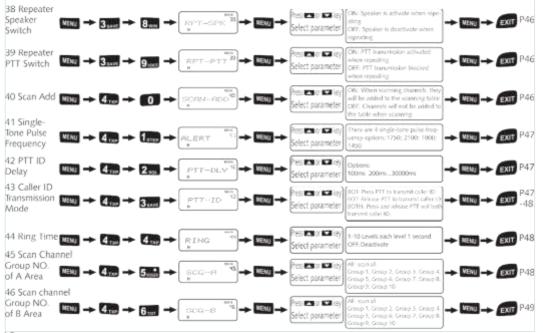
Shortcut Operation Sheet

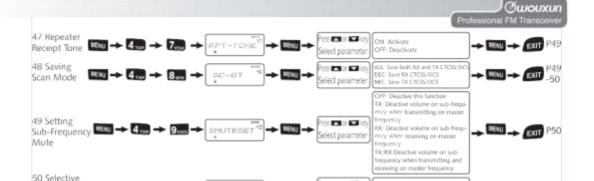


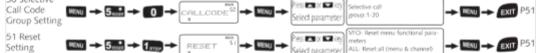




Shortcut Operation Sheet







ALL: Reset all (menu & channel)

Write Radio Station: 01-20 Groups

functional parameters



WENU → 5 → 3 → RRDIO-WR S → WENU →

→ MENT → EXIT P51

Step Frequency (STEP) ----- MENU 1

In standby, press | + to , the screen displays | STEP

Press to enter, press / To select the desired step, then press to confirm, finally press to return to standby

The frequency steps selectable for this transceiver are as follows:

5.00KHz, 6.25KHz, 10.00KHz, 12.50KHz, 25.00KHz, 50.00KHz and 100KHz.

Squelch Level (SQL-LE) ---- MENU 2

Squelch level is about when the signal is strong enough to turn on the squelch function, and when it is weak enough to turn off. You may hear the voice from the loudspeaker when turning ON the squelch and receiving the same signal from other transceivers. Higher level makes it harder to receive the weak signals, while lower level will be interfered by noises and/or unwanted signals.

In standby, press ** + 2 ** , the screen displays SOL-LE

Press to enter, press / To select the desired squelch level, then press to confirm, finally press to return to standby



NOTE <u>∧</u>

>> The squelch level for this transceiver has 0-9 levels selectable, and level 0 means turn off the squelch function.

The higher level of the squelch is set, the stronger receiving signal is needed.

Power Saver Mode (SAVE) --- MENU 3

When the power saver function is ON, the receiver circuit will be cut off for a moment, and then re-activate to detect the signals for a while, in order to reduce the battery capacity consumption. In standby, press + 3000, the screen displays SHUE

Press (New) to enter, it shows 'ON', press (A) / (A) to select turn ON/OFF the power saver funtion.

Press way to confirm, and then press on to return to standby.

Transmitting Power Selection (TXP) --- MENU 4

In frequency mode, press + 400 , the screen displays

Press to enter, it shows 'HIGH', press / To select HIGH/LOW power, then press to confirm, finally press to return to standby.

Transmssion Prompt settings (ROGER) --- Menu 5

When the transceiver is standby, press the 🔤 + 👪 keys and the screen will display:

Press the key to access the menu, and after pressing the 🔼 / 💽 keys to choose the required prompt

mode, press the key to to confirm, or the key to return to standby

The transceiver features 4 kinds of prompt: BOT (beginning of transmission), EOT (end of transmission), BOTH (beginning and end of transmission), and OFF (prompts deactivated).

Time-out Timer (TOT) --- MENU 6

This transceiver can be set in 60 levels with 15 seconds each, between 15 and 900 seconds.

In standby, press | + 6 | , the screen displays | TOT |

Press to enter, press / To select the desired timer level, then press to confirm, finally press to return to standby.

VOX (VOX) --- MENU 7

In standby, press 💌 + 🖚 , the screen displays 🔀

Press to enter, press / To select VOX level(1-9), then press to confirm, finally press for eturn to standby.



NOTE <u>∧</u>

- >> The higher level of VOX is set, the higher volume is needed.
- > In SCAN and FM radio modes, the VOX function is not available.

Bandwidth Selection (W/N) --- MENU 8

In standby, press van + 8m , the screen displays

Press 🔤 to enter, it shows 'WIDE', press 🔼 / 💟 to select WIDE/NARROW bandwidth, then press

to confirm, finally press 📾 to return to standby

There are two bandwidths for option:WIDE:25KHz and NARR:12.5KHz

Voice Guide (VOICE) --- MENU 9

in standby, press | + 0 | the screen displays | OCICE |

Press was to enter, press A / To select ON or OFF, and then press key to confirm, finally press on to return to standby.

NOTE <u>∧</u>

>> Turn off MENU 9 and MENU 11 at the same time to turn off all the voice prompt if required

Transmitting Overtime Alarm (TOA)--- MENU 10

In standby, press 💌 + 💶 💿 , the screen displays 🔀

Press the way key to access the menu, and after pressing the / v keys to select the required time, press the way key to confirm, and the way key to return to standby

TOA has a maximum length of 10seconds, each level corresponding to 1second. OFF: Deactivate TOA

Special Reminder \land

When the transmission exceeds the "Time-out timer" set time, a error tone will prompt, and transmission is stopped automatically.

Beep Prompt Function (BEEP) --- MENU 11

In standby, press (NEW) + 1000 1000 , the screen displays

Press to enter, press / vo turn ON/OFF the beep prompt function, then press to

confirm, finally press on to return to standby.

Display Language (LANGUAGE) --- MENU 12

In standby, press + 100 200 , the screen display LANGUAGE

Press to access the function, press / To select the desired language, and then press to confirm, press or to return to standby mode.

Two Options: CHINESE and ENGLISH

Busy Channel Lockout (BCL) --- MENU 13

In frequency mode, press 🚾 + 🕬 🕬 , the screen displays 🕵 💆

Press wo to enter, press / To select ON/OFF this function, then press to confirm, finally press to return to standby.

Note: This function is invalid in cross band repeater or repeater/transmitter modes.

Scan Mode Settings (SC-REV) --- Menu 14

When the transceiver is standby, press the was + to the screen will display

Press the walkey to access the menu, and after pressing the 🔼 / 🔽 keys to select the required set-

ting, press the was key to confirm, and the and key to return to standby

The transceiver has 3 scan modes:TO,CO,and SE:

TO: after finding a carrier wave signal, scanning will continue if no operations are carrier out within 5 seconds.

CO: scanning will stop when a carrier wave signal has been found, and scanning will continue if the carrier wave signal is lost for 3 seconds.

SE: scanning will stop when a carrier wave signal is found.

NOTE <u>∧</u>

>> Hold on point for 2 seconds to access the scan mode.

Receiving CTCSS settings (RX-CTC) --- Menu 15

When the transceiver in standby, press the way + tree sad keys and the screen will display Rector.

Press the way key to access the menu, and after pressing the A / key to select the CTCSS you

desire, press the a key to return to standby.

The CTCSS has a total of 50 groups, ranging from 67.0 to 254.1HZ. OFF: Deactivate.



Transmitting CTCSS settings (TX-CTC) --- Menu 16

When the transceiver is standby, press the way + time 619 keys and the screen will display ress the way key to access the menu, and after pressing the key to select the CTCSS you desire, press the key to confirm, and press the key to return to standby.

CTCSS has a total of 5 groups, ranging from 67.0-254.1Hz. OFF: Deactivate

Receiving DCS settings (RX-DCS) --- Menu 17

When the transceiver is standby, press the + keys and the screen will display R-DCS Press the key to access the menu, and after pressing the / key to select the DCS you desire, press the key to confirm, and press the key to return to standby.

DCS: 105 groups of positive code, 105 groups of negative code, ranging from D023N to D754L

OFF: Deactivate.

Transmission DCS settings (TX-DCS) --- Menu 18

When the transceiver is standby, press the way + to keys and the screen will display T-DCS and the screen will display Press the way key to access the menu, and after pressing the A key to select the DCS you desire, press the key to confirm, and press the key to return to standby.

DCS: 105 groups of positive code, 105 groups of negative codes, ranging from D023N to D754L.

OFF:Deactive.

| CTCSS | | | | | | | | | |
|-------|------|----|-------|----|-------|----|-------|----|-------|
| 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 |



| CS | (positiv | e cod | e) | | | | | | | | | | |
|----|----------|-------|-------|----|-------|----|-------|----|-------|----|-------|-----|-----|
| 1 | D023N | 16 | D074N | 31 | D165N | 46 | D261N | 61 | D356N | 76 | D462N | 91 | D62 |
| 2 | D025N | 17 | D1145 | 32 | D1725 | 47 | D2635 | 62 | D364N | 77 | D464N | 92 | D53 |
| 3 | D026% | 18 | D115N | 33 | D124N | 43 | D265N | 63 | D365N | 78 | D465N | 93 | D5 |
| 4 | D031N | 19 | D116N | 34 | D205N | 49 | D266N | 64 | D371N | 79 | D466N | 94 | D5 |
| 5 | D032N | 20 | D122N | 35 | D212N | 50 | D271N | 65 | D411N | 80 | D503N | 96 | D5 |
| 6 | D036N | 21 | D125N | 36 | D223N | 51 | D274N | 66 | D412N | 81 | D506N | 96 | D5 |
| 7 | D043N | 22 | D131N | 37 | D225N | 52 | D306N | 67 | D413N | 82 | D516N | 97 | DS |
| 8 | D047N | 23 | D132N | 33 | D226N | 53 | D311N | 68 | D423N | 83 | D523N | 98 | D7 |
| 9 | D0518 | 24 | D134N | 33 | D2435 | 54 | D315N | 69 | D431N | 84 | D526N | 99 | 0.7 |
| 10 | D053N | 25 | D143N | 40 | D244N | 55 | D325N | 70 | D432N | 85 | D532N | 100 | D7 |
| 11 | D0548 | 26 | D145N | 41 | D2458 | 56 | D331N | 71 | D4458 | 86 | D546N | 101 | D2 |
| 12 | D065N | 27 | D1528 | 42 | D246N | 57 | D332N | 72 | D446X | 87 | D565N | 102 | D2 |
| 13 | D0715 | 28 | D155N | 43 | D251N | 58 | D343N | 73 | D452N | 88 | D606N | 103 | D7 |
| 14 | D072N | 29 | D158N | 44 | D252N | 93 | D3465 | 74 | D4545 | 89 | D612N | 104 | D7 |
| 15 | 0.0238 | 30 | 01625 | 45 | D255N | 60 | D351N | 75 | 0455% | 90 | D624N | 105 | D7 |

CALL/VFTX on Side Key 1 (PF1-KEY) --- MENU 19

In standby, press | Hard + | Hard | Some kthe screen displays | PFI-KEY | B

Press to access the menu, press / to select the mode you desire. And then press to confirm, and press to return to standby

Two options: CALL(Selective Calls) and VFTX (Transmission on Sub-frequency)

Selective call codes are programmed via @wouxun supplied software.

SCAN/LAMP/SOS/TeleAlarm/RADIO/DISABLE on Side Key 3 (PF3-KEY) --- MENU 20

In standby, press 🖦 + 🕫 0 the screen displays 🔑 3-KEY

Press to access the menu, press / to select the function you desire. And then press to confirm, press or to return to standby.

Six options: SCAN, LAMP, SOS, TeleAlarm, RADIO and Disable.

Different operations according to different functions:

SCAN: Activate the scan function:

In standby, press PF3 to access scanning mode.(scan mode can be set via MENU 14-Scan Mode Setting), while press any key to stop scanning.

LAMP: Activate lamp function:

In standby, press PF3 to activate lamp function, while press PF3 again to deactivate.

SOS-CH function

In standby, press PF3, the speaker will prompt alarm after 2 seconds, and the radio will transmit alarm tone.





Seach alarm lasts 10seconds, and after 5 minutes, the alarm will re-activate. Press any key to exit the function.

TeleAlarm: Activate remote alarm function

In standby, press PF3, the speaker will prompt alarm and transmit ANI ID code +numbers "110".

Press PTT key to exit.

RADIO: Activate the FM radio function

A. Activate FM radio:

In standby, press PF3 to activate FM radio. The screen displays [76.001742], press to access FM radio function to automatically search FM radio. The search will automatically stop when receiving FM radio.

FM radio will be received on the searched frequency.

B. Inputting FM radio Frequency

C. Exit FM radio

Press PF3 again to exit FM radio function.

NOTE ∕∴

>> When FM radio is active, current frequency or channel is still in standby. After receiving the signals, the transceiver returns to transceiver communication mode. After the signal disappears for 5seconds, the transceiver returns to FM radio. After 5seconds when pressing PTT key to transmit, the transceiver returns to FM radio automatically.

Working Mode Switch (CH-MDF) --- MENU 21

In standby, press 4 + 2 to 100 , the screen display GH-MDF 31

Press to enter, press 🔼 / 🔽 , to select mode then press 🚾 confirm , press 🔊 it return to standby.

This transceiver has two options for the working mode:

- Frequency mode(FREQ)
- Channel mode

There are three channel display selections in channel mode as follows;

① Channel (CH) ② Frequency+ Channel number (CH FREQ) ③ Channel name (NAME)



NOTE ∕!\

- >> The password for the work mode switch is programmed only via the programming software.
- >> The password is consist of 6 characters, while "000000" means no password needed for the mode switch

Auto Backlight (ABR) --- MENU 22

In standby , press 🖦 + 200 200 , the screen display



Press to enter, press / To select backlight function, then press confirm, press it return to standby.

Always Activate

15-205: Set the lasting time of backlight

Offset Frequency (OFF-SET) --- MENU 23

In standby, press | + 2 | 3 | and the screen display | OFFSET |

Press to access the menu, press 🔊 / 🕶 to select the parameter you desire, and then presss

to confirm, press and to return to standby.

Offset frequency range:0-599.995MHz, The 7th and 8th frequency point depends on the programmed step frequency.

Frequency Shift Direction (SFT-D) --- MENU 24

In standby, press 🖭 + 2 4 , The screen display

Press to enter, press / v to select the desired frequency shift direction, then press confirm, press it return to standby.

There are three selections for the frequency shift direction setting:

- 1. Plus shift (+), which means that the transmitting frequency is higher than the receiving frequency.
- 2. Minus shift (-), which means that the transmitting frequency is lower than the receiving frequency.
- 3. Turn off this function

NOTE <u>∧</u>

When offset frequency is out of the allowed offset frequency range, the transceiver can not transmit. In this case, please make sure the offset frequency and receiving frequency is within the allowed range.

Stopwatch Timer (SECOND) --- MENU 25

In standby, press + 2 5 5 , The screen display

Press to enter, 🔼 / 🕶 to select ON/OFF, then press und confirm, press of to standby.

Using the stopwatch timer:

When this function is ON, press to start counting, while press any key to stop working. Press again to re-start counting.

NOTE <u>∧</u>

>> Press any key (except) when the stopwatch stops working to exit the stopwatch function

Editing a Channel Name (CH-NAME) --- MENU 26

Channel names can only be edited in channel mode, and only the name of the present channel can be edited this operation is ineffective in frequency mode.

In standby, press 🖼 + 2 🚳 6 🤠 keys and the screen will display

Press to access the menu, and the first digit will flash (which indicates that this digit is being edited)

Press to choose the required character, press to edit the next character, press to confirm, and then press to return to standby.

NOTE Λ

- >> 1.Channel names can be maximum of 8 characters long.
- >> 2.When all 8 characters are empty, the channel will be displayed on the screen as "NO-NAME!"

Memorize Channel (MEM-CH) --- MENU 27

In channel mode or standby, press | + 2 | 7 | , the screen displays | MEM-CH '

Press was to access the menu, press 🔼 / 🔽 to select the desired channel order, and then press was to memorize with a voice prompt. Press and to return to standby.

When the transceiver is in channel(MR) mode, the parameters(except channel name and scan adding) will be memorized into the channel.

When the transceiver is in frequency(VFO) mode, you can program all the parameters(frequency, offset, offset directions etc.) into the channel to memorize.

Example:

Memorize the parameters: "Receiving frequency 450.025MHz, receiving CTCSS is 67.0Hz, transmission frequency is 460.025MHz" into the Channel NO.10.

- 1.Inputting 450.025MHz to the transceiver in frequency(VFO)mode, press 📖 + 🚱 🔛 to access receiving CTCSS/DCS setting, press \(\subseteq \) to select 67.0Hz, press \(\subseteq \) to confirm.
- 2. Press (10) + 2 10 (20) (10) to select the offset frequency is 10.000MHz, press (10) + 2 10 (10) to set the frequency direction as "+".
- 3. Press 1888 + 288 700 to access channel memory, select CH-010 and press 1880 to memorize the channel



and return to standby.

In standby, press was + 2 to access channel memory, the screen displays CH-001 input the desired channel number orderly, and then press to confirm.

NOTE /!\

>> When the selected channel is empty (without any parameter), the characters of the channel number is blue, while the selected channel is with the memorized parameters, the characters of the channel number is dark red

Deleting a channel (DEL-CH) --- MENU 28

In standby, press 1 + 2 8 8 , the screen will display PEL-CH

Press to access the menu, press \(\subseteq \) for a select the channel you wish to delete or manually inputting the channel number, press was to confirm and the saw key to return to standby.

Special Reminder /\

- >> 1st channel can not be deleted
- >> When the selected channel is empty (without any parameter), the characters of the channel number is blue, while the selected channel is with the memorized parameters, the characters of the channel number is dark red.

CTCSS scanning (SCN-CTC) --- MENU 29

This function is scanning the programmed frequencies or channels with CTCSS/DCS or not. When the CTCSS/DCS are not compatible with the one you are going to communicate with, it stops the regular communication.

In standby, press 🖭 + 🖭 👊 , screen displays 🙎 – crc 🤼 then Press vev to confirm and start the scan-

Special Reminder 🛝

- » if there is no carrier received on the scanned frequencies or channels, the function is not activated
- >> pls use the \(\sum_{\textstyle \in \textstyle \text
- >> it stopes on the frequency or channel which is programmed with CTCSS/DCS, pls press to save by yourself if needed. Pls press 🗫 to continue to scan the next frequencies or channels if not needed.

Power-ON Message(PONMSG)-----MENU 30

In Standby, press 🖭 + 👀 💿 , the screen displays 🗫 – DCS 📆

Press was to enter the function, then press 🔼 / 🔽 to select the parameter and then was to confirm.

while press and to return back to the standby.

BITMAP: Picture

BATT-V: Voltage

Mute settings (SP-MUTE) --- MENU 31

In standby, press 100 + 340 top , the screen displays 50-MUTE 31



Press to access the menu, and after pressing \(\sigma \) for choose the required mute mode, press

to confirm, and press at to return to standby

Squelch settings: set the conditions which determine when the speaker shall be turned on, these settings are used during selective calls, group calls and all calls.

The transceiver's mute mode include:

QT: When the transceiver is set to this mode, all signals on the same QT frequency will activate the speaker.

QT+DTMF: only those signals which both satisfy the requirements of QT and whose DTMF carrier wave signal also match the transceiver will activate the speaker in this mode.

QT*DTMF: When this mode is active, only those signals which either meet QT requirements or DTMF requirements will activate the speaker.

to standby.

Caller ID Code Switch (ANI-SW) --- MENU 32

In frequency mode, press + See 2 , The screen display | FINIT-SLW | Press | VENT to enter, press | To select turn ON/OFF, and press | VENT to confirm, press | It return

Editing Caller ID Code (ANI-EDIT) --- MENU 33

The transceiver's Caller ID code is composed of the arabic numerals 0-9: the first digit cannot be 0, and

ID numbers can be as short as 3 digits and as long as 6.

In standby, press | + 3440 | 3440 | , the screen displays | FINI-EDIT 33

Press to access the menu, and after inputting the required numbers, press to confirm, and key to return to standby.

Example 1:editing a 6-digit ANI ID code(123456).

In standby, press + 3 , the screen displays

After pressing was key, the first digit will flash, then input the required value 123456.

Press moto confirm, and press moto return to standby.

Example 2:editing a 3-digit Caller ID code(123)

in standby, press 🕬 + 🕬 🐝 , the screen displays

After pressing wo, if a Caller ID code has been already input, it will be displayed, and the first digit will flash. If no Caller ID code has been input, 101 will be displayed, and the first digit will flash. Input 123 at the same time, press to confirm, press or to return to standby.

Special Reminder \land

>> Each transceiver can have only one ANI ID code, which is shared by Area A and B.

DTMF Sidetone (DTMF-ST) --- MEUN 34

In frequency mode, press 🕬 + 🕬 🐠 , The screen display

Press to enter, press / v to select the required sidetone mode, and press v to confirm, press it return to standby.

The transceiver has the following DTMF modes: 1. DT-ST: Keypad sidetone will be activated when transmitting; 2. ANI-ST: ANI ID code sidetone will be activated when transmitting; 3. DT+ANI: keypad and caller ID sidetone are both activated when transmitting. OFF: Deactivate sidetone function.

Keypad Autolock (AUTOLOCK) --- MENU 35

In standby, press NEW + 3 M 5 M , the screen displays AUTOLK SS

Press to access the menu, press 🔼 / 🔽 to select ON(Activate)/OFF(Deactivate), and then press

to confirm, press (XIII) to return to standby

After activating keypad autolock function, the keypad will be locked automatically without any operation in 15seconds. Hold on por 2seconds to unlock the keypad.

NOTE <u>∧</u>

Manually lock:In standby, hold on for 2seconds to lock the keypad, hold on for 2 seconds again to unlock the keypad.

Priority Channel Switch (PRI CH-SW) --- MENU 36

In standby, press Vin + Sum 6 m , the screen display PRICH-Su 25

Press to access, press 🔼 / 💌 to select ON/OFF. And then press 🚾 to confirm, and press 💷 to return to standby

If you want to monitor the other frequency and check the certain preferred frequency at the same time, you can set priority scan function.



E.g.: Scan six channels. Set CH1, CH2, CH3, and CH4 and CH5 as the common scanned channels and CH6 as the priority scanned channels. Then the scanning order is as followings:

$$CH1 \rightarrow CH6 \rightarrow CH2 \rightarrow CH6 \rightarrow CH3 \rightarrow CH6 \rightarrow CH4 \rightarrow CH6 \rightarrow CH5 \rightarrow CH6 \rightarrow CH6$$

When this transceiver detects signal on the priority channel during scanning, it will on its frequency. Please program the priority channel via KG-UV8E programming software.

Repeater Setting (RPT-SET) --- MENU 37

This transceiver has 2 repeater setting available:

- 1.X-DIRPT: Directional cross-band repeater mode
- 2.X-TWRPT:Two way cross-band repeater mode

Special Reminder 🗥

In cross-band repeater mode, if the channel or frequency set the reverse frequency, offset frequency, or offset direction, its transmitting frequency would out of the transceiver's frequency, then it will not transmit.

Master frequency and sub frequency for repeater should be on different bands. (For example, master frequency is programmed on VHF band, and the sub frequency should be programmed on UHF band, and vice versa.)

X-DIRPT (Directional cross-band repeater): The master VFO's receiving frequency is the cross-band receiver's receiving frequency, and the sub VFO's transmitting frequency is the cross-band transmitter's transmitting frequency.

X-TWRPT (Two way cross-band repeater): In standby, both the master and secondary VFO's are receivers, whichever VFO receives an effective carrier-wave signal, the other VFO will be the transmitter and start transmitting. The transmitter and receiver is unfixed under two way cross-band repeater mode. The first received VFO is receiver and relatively the other one is transmitter. After accessing cross-band repeater mode, the operation of

receiving /transmission frequencies, CTCSS/DCS encoding& decoding are the same as the transceiver is in transceiver



communication mode.

Example:

A. Before accessing cross-band repeater mode, A area is in channel mode. The receiving frequency and

CTCSS/DCS in cross-band repeater mode are the same with the channel in standby After B area receives the effective signal, A area starts transmission. The transmitting frequency and CTCSS/DCS in cross-band repeater mode are the same with the channel in A area.

If setting reverse frequency function, the transmission&receiving frequencies and CTCSS/DCS will be reverted.

B, Before accessing cross-band repeater mode, A area is in frequency mode. The receiving frequency and CTCSS/DCS in cross-band repeater mode are the same with the setting in standby.

After B area receives the effective signal, A area starts transmission. The receiving frequency and CT-CSS/DCS in cross-band repeater mode are the same with the channel in A area.

If setting reverse frequency function, the transmission&receiving frequencies and CTCSS/DCS will be reverted.

To select if you will open speaker for the receiver in cross-band repeater via MENU38 (RPT-SPK) ,and if you would like to hold on PTT key to transmit in repeater mode via MENU39 (RPT-PTT). But if you press PTT key to transmit, the transceiver exits the repeater mode temporarily.

In standby, press 🖼 + 🗫 🏧 the screen displays

Press www , press 🔼 / 🔽 to select the mode you desire, and then press www again.



- » In cross-band repeater mode, the screen will display
- Switching transceiver communication and repeater modes via in standby, hold on for 2 seconds to switch the modes
- In order to use the repeating well, there is the Repeating Receipt Tone which is set by MENU 47.
 The repeating receipt tone timely and effectively reports the working status and increases the efficiency of repeating.
- The Repeating Hold Timer is used for avoiding to press or release PTT too frequently in order to read out the message. When the receiver was released PTT, the hold time is able for the equip ment keeping transmitting for a while during waiting for response If there is no efficient QT/DQT detected within the hold time, then the transmitter will release PTT. The repeating hold timer is setting the hold time for the transmitter to keep transmitting after the QT/QDT receiving signal disappears. The function is programmable by Owouxun supplied software



Repeater Speaker (RPT-SPK) --- MENU 38

In standby, press + 3 8 8 , the screen display RPT-SPK 20

Press to access, press / to select ON/OFF. And then press to confirm, and press to return to standby.

Repeater PTT (RPT-PTT) --- MENU 39

Press to access, press / v to select ON/OFF. And then press to confirm, and press exito return to standby.

Scan Add (SCAN-ADD) --- MENU 40

This function means whether a channel in scanning when in the startup channel scanning, so the function can be set only in the channel mode under the current channel, is invalid in frequency mode.

In standby, press = + to the screen display scan-app

Press was to access, press 🔼 / 🔽 to select ON/OFF. And then press was to confirm, and press 🕬 to return to standby.

Note: The function is invalid in cross-band repeater or repeater/transmitter mode.

Single-Tone Pulse Frequency (ALERT) --- MENU 41

Some of the relay systems used for single-tone pulse transmission need a single-tone pulse signal to activate, if a repeater is already active, however, this signal is not needed. The following pulse signal frequencies can be selected: 1750Hz, 2100Hz, 1000Hz and 1450Hz.

In standby, press (), the screen displays (), the screen displays

Press to access, press / to select the parameter you desire and then press to confirm, press to return to standby

In transmission mode, press PF2 to transmit the selected single-tone pulse frequency

Caller ID Code Transmitting Delay (PTT- DLY) --- MENU 42

Is standby, press (+ 400 200 , the screen display | PTT-DLY |

Press to access, press / vo select the time you want. And then press to confirm, and press to return to standby.

This delay time can be set 100~3000ms, total 30 levels with 100ms each.

Caller ID Transmission Mode (PTT-ID) --- MENU 43

In standby, press + 49 3m , the screen display



Press to access, press / to select the mode you want. And then press to confirm, and press for to return to standby.

This can be set three methods, BOT (begin), EOT (end), BOTH (begin /end).

Ring Time --- MENU 44

In standby, press | In sta

Press to access, press / To select the parameter you want. And then press to confirm, and press to return to standby.

This ring time can be set 10 seconds, total 10 levels with 1 second. OFF: Deactivate the function.

Scan group A setting (SCG-A) --- MENU 45

The scan group settings are the way that a transceiver can divide the programming channels into different scan groups. It will scan all channels in Group A.

Scan group settings are: ALL channel, as well as 1-10 individual scanning groups.

In standby, press was + 4 5 5 , the screen displays Sca-A G

Press 🔼 / 🔽 to press 🔤 to confirm, press 🕮 to return.

Note: Scanning group A setting is active in A area.

Scan Group B Setting (SCG-A) --- MENU 46

The scan group settings are the way that a transceiver can divide the programming channels into different scan groups. It will scan all channels in Group B.

Scan group settings are: ALL channel, as well as 1-10 individual scanning groups.

In standby, press | + 400 | 610 | , the screen displays | SCG-8 | Press | 7 | To press | 100 | to confirm, press | 100 | to return.

Note: Scanning group B setting is active in B area.

Repeater Tone Setting (RPT-TONE) --- MENU 47

In standby, press + 410 700 , the screen display RET-TONET

Press 📼 to access, press 🔼 / 🔽 to select the parameter,. And then press 🚾 to confirm, and press

to return to standby

ON: Activate the function

OFF: Deactivate the function

Saving Scanned CTCSS/DCS (SC-QT) --- MENU 48

When the transceiver is in CTCSS/DCS scanning, there are 3 saving types to save the detected CTCSS/

DCS from the others to your transceiver:

- Save as your transceivers decoder and encoder(ALL).
- 2. Save as your transceiver encoder(ENCODER)
- 3. Save as your transceiver decoder(DECODER)

When the transceiver is in standby, press | + 40 | 180 | keys and the screen will display | SC-QT

Press / press , and then press

Mute Setting on Sub-frequency --- MENU 49

Mute function is very practical, especially when the transceiver is in dual receiving mode.

In standby, press 100 + 10 900 , the screen displays SMUTESET 12

Press to access and then press / To select the parameter you desire, and then press to confirm.

OFF: Deactivate the function

TX: Transmission on master frequency, the receiving volume of sub-frequency is off.

RX: Receiving on master frequency, the receiving volume of sub-frequency is off.

TX/RX: Both receiving and transmission on master frequency, the receiving volume of sub-frequency is off.

Selective Call Code Group Setting (CALLCODE) --- MENU 50

In standby, press was + 5 , the screen displays CALLCODE CO

Press visio to access the menu, press 🔊 / 🔽 to select the desired selective call group number. Press

to confirm, and the transceiver returns to standby.

Selective call code are with 1-20 groups for option. Selective call codes are programmed via @wow.un supplied software.

Reset setting (Reset) --- MENU 51

Functional Parameter Reset(VFO): resets all functional settings to factory default values, but channel parameters are not reset.

Total Parameter Reset(ALL): resets all of the transceiver's functional settings and channel parameters to factory values

In standby, press [100] + [100] the screen displays RESET 51

Press wo to access, press 🔼 / 🔽 to select the parameter you desire and then press 🚾 to confirm.

The screen will display | war ----

After the transceiver resets(VFO/ALL), it will restart and return to standby mode.



Setting Backlight(BK-LIGHT)----MENU52

In standby, press 🖦 + 🚮 🕬 , screen display 🛮 вескылонг 🕏

Press to enter the function, then press \(\sigma \) for select the parameter and then to confirm, while press to return back to the standby.

Level selectable for baklight setting: 01 to 10

Radio Storage(RADIO-WR)----MENU53

Read Radio Station: In FM Radio mode, enter the menu to select the function, there is 20 groups for selection.

Write Radio Station: In FM Radio mode, enter the menu to select the function, there is 20 groups for selection.

In standby, press | + 5 | 3 | , screen display | RADIO-WR 53

Press to enter the function, then press / v to select the parameter and then to confirm,

while press to return back to the standby.

Scrambler(SCRAM)----MENU54

This is a special voice process to keep the communication confidential from other non-users.

In standby, press 100 + 500 400 , screen display SCRAMBER SX

Press to enter the function, then press / To select the parameter and then to confirm, while press to return back to the standby.

There are 8 groups for selection, OFF is to turn off this function then

Compander(COMPANDER)----MENU55

This is for decreasing the voice squelch, and it is highly efficient for long-term communication.

In standby, press w + 6 6 7 , screen display

Press to enter the function, then press / to select the parameter and then to confirm, while press to return back to the standby.

There is ON and OFF selectable.

Detailed Instruction for Some Important Functions



All calls, Group calls and Selective calls

There are Caller ID code transmission, Caller ID code edit and DTMF decoding functions. Without the assistance of the other communication equipments, the all calls, group calls and selective calls are available between the groups.

Before using all calls, group calls and selective calls function, you need to set as followings:

1. Caller ID CODE edit

Each transceiver in the same group should be edited a unique ANI ID code.

Caller ID CODE: ID -- XXX(3 digits) ID -- XXXX(4 digits) ID--XXXXX(5 digits) ID-- XXXXXX(6digits)

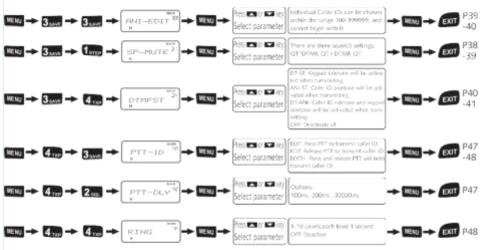
| ID T | X | XXXXX |
|----------------|---|---|
| Caller ID CODE | Group NO. mark | Unique Caller ID CODE |
| mark | From 1 to 9 group, Maximum: 9 groups | From 00000~99999, Maximum:1000000 digits |

This is how to set Caller ID CODE.

NOTE: Caller ID Codes should be different for the transceivers in the same group.

Detailed Instruction for Some Important Functions

Steps are as followings:



NOTE <u>∧</u>

» Any transceiver in the same group should be with the same frequency point and parameter.



a. How to use all calls function

Hold on PTT key to transmit. After transmitting Caller ID Code, input * + * keys directly.

b. How to use group calls function:

Hold on PTT key to transmit.After transmitting Caller ID Code, input "Group NO." [80] + [80]

c. How to use selective calls function.

Hold on PTT key to transmit. After transmitting Caller ID Code, input the Caller ID Code of the selective transceiver that you want to speak to.

Note: Selective call is available via selective call key. Selective call code is programmed via **Gwouxun** supplied software. Programming the same selective call code of the selective transceiver and Caller ID code of the selected transceiver.

For example, Caller ID Code for the selected transceiver is 123456, selective call code for the selective transceiver should be 123456 too.

Repeater Usage

1. Repeater PTT Switch (RPT-PTT)

When the transceiver is in standby, press + 3 keys and the screen displays FFT-FTT Press First access the settings, and after pressing the

Press 쨃 to access the settings, and after pressing the 🔼 / 🔽 keys to activate (ON) the PTT transm-

Detailed Instruction for Some Important Functions

ission, Press confirm, and press the combined key to return to standby.

2.Repeater speaker switch (RPT-SPK)

When the transceiver is in standby, press + see keys and the screen will display Press to access the settings, and after pressing to activate (ON) the speaker, press to confirm, and press key to return to standby.

3.Repeater Setting (RPT-SET)

Accessing cross-band repeater mode: when the transceiver is in standby, press + 1 and the screen will display | SPT-SET 31

Press to access, press / v to select two-way cross-band repeater mode (X-TWRPT) or directional cross-band repeater mode (X-DIRPT). Press to confirm. And then press to return to standby mode, hold on key for 2seconds, the transceiver is to access cross-band repeater.

Exit Cross-Band Repeater: In standby, hold for 2seconds, the transceiver exit the cross-band repeater mode and access transceiver communication mode.

(1) When "RPT-PTT" is ON, pressing PTT to stop receiving or transmission in cross-band repeater mode. The transmission frequency is the frequency of the master band, release PTT key to access Two-way



cross-band repeater mode.

- (2) When "RPT-SPK" is ON, any transceiver in cross-band repeater mode can receive the effective signals, and then the repeater receipt tone will be heard.
- (3) The difference between directional cross-band repeater and two-way cross-band repeater modes is the transmitter and receiver is unfixed under two way cross-band repeater mode. Directional cross-band repeater: The master frequency area A is the receiving frequency of the receiver in cross-band repeater mode, the sub-frequency area B is the transmitting frequency. Two-way cross-band repeater mode: In standby, both master and sub areas are receivers, whichever area receives an effective carrier wave signal, the other area will be the transmitter and start transmitting.

Troubleshooting

Before assuming your transceiver is broken, please check your transceiver according to the following table; if the problem persists, you can reset the transceiver, which sometimes.

| Fault | Solution |
|---|--|
| Reception prompt remains but speaker is silent | Check that the volume knob has been set to maximum Please reset CTCSS/DCS to check whether different channels from other group members have been set Check whether mute settings are correct |
| Keypad is unresponsive | >> Check whether keypad has been locked >> Check whether other keys have been pressed |
| Other voices (not from group members) appear in the channel. | >> Please change the CTCSS / DCS code. |
| In standby, automatic transmission without pressing PTT key | >> Please check if VOX function is active or VOX level is too low. |



| Fault | Solution |
|---|---|
| Can not enter scanning mode | >>> Please see if the scan group channel, Scan Add function is turned on. |
| Cannot set up the cross- band repeater | >> Please make sure A/B area is on the cross-band repeaters operating frequency. |
| Cannot transmit in repeat mode | » Please check to see if the receivers squelch and CTCSS / DCS settings are correct. |