16.2x11cm

Thanks for buying the ⊘wouxun transceiver.

This transceiver offers latest design, multi-functionality, stable performance and easy operation. We believe you will be pleased with the high quality and powerful functions.

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR ⊘wouxun PORTABLE TWO-WAY RADIO. This manual is suitable ONLY: KG-V98.

**WOUXUN**
Professional FM Transceiver

This transceiver is with excellent design and advanced technology.

Please follow the below suggestions and warning to assist you to carry out the responsibilities on warranty terms, and learn the safety before using the transceiver.

1. Please keep the transceiver and accessories out of the reach of children.

2. Do not disassemble the transceiver to avoid the possibility of damaging by a non-professional.

3. Please ONLY use **WOUXUN** supplied batterypack and charger to avoid the possibility of damaging the transceiver.

4. Please ONLY use **WOUXUN** supplied antenna to avoid the possibility of damaging the transceiver.

5. Neither expose the transceiver directly to the sunlight nor in the overheated places for a long time.

6. Keep the transceiver away from the dusty or humid places.

7. Clean the transceiver with a mild brush/cloth or detergents instead of the aggressive chemical material.

8. Do not transmit before well installing the antenna.

9. If any abnormal odor or smoke is detected from the transceiver, please power it off immediately, then remove the batterypack from the transceiver. And contact your **WOUXUN** dealer.

## NOTE ⚠

» All the above mentioned suggestions and warnings are compatible for all **WOUXUN** series transceivers and accessories. Please contact your **WOUXUN** dealer about any upset operation.

» **WOUXUN** manufacturer is not responsible for any safety or operation problems, which are caused by using the incompatible accessories or parts.

# Contents

# Contents

# Contents

# Unpacking and Checking the Equipment

Professional FM Transceiver

Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any item is missed or has been damaged during shipment, please notify your wouxun dealer.

## Supplied Accessories

| Transceiver | High gain antenna | Li-ion batterypack | Intelligent charger |
| Beltclip | Handstrap | User's manual | Warranty card |

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Professional FM Transceiver

## ■ Install / remove batterypack

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

### NOTE ⚠

≫ Do not shortcircuit the terminals or put the batterypack into fire.

≫ Do not try to remove the case from the batterypack.

1. Make the catching groove at the bottom of the batterypack aligned to the slot at the bottom of the radio, press up the latches on the top of the batterypack and here is crack then the battery is fixed onto the radio.

2. Please turn off the radio before taking the batterypack off from the radio. Press down the two latches to make it off from the radio, then take down the batterypack.
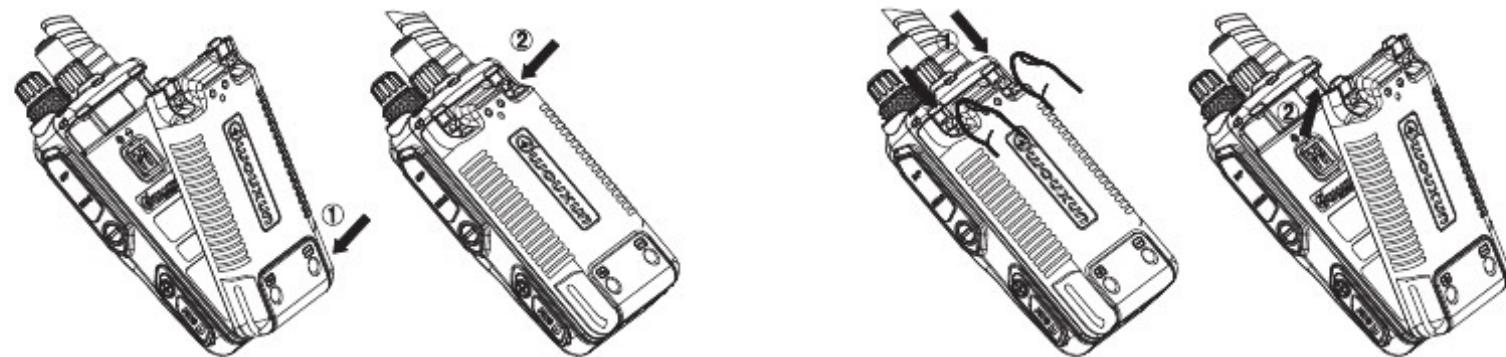
## ■ Install/take down USIM card

### NOTE ⚠

≫ Please turn off the radio before install or take down the USIM Card.

≫ Please mind the direction to insert the USIM Card.

1. Please insert the USIM card to the port according to the instruction from the picture. There is crack if installation is ready.

2. Please press down the USIM card from radio. There is also crack then USIM card is out.

## A. Features List

1. Cross-Mode Repeat( Network to Analogue, Analogue to Network, Analogue to Analogue)
2. Cross-Band Repeat( Duplex work at A, B, C area. One area TX, another area RX)
3. Dual Receive( Simultaneous Reception among A, B, C areas. Same Band or Cross Band available)
4. Large Colorful Screen
5. Frequency Range (suitable for different countries or areas):
   136-174&400-470MHz (RX/TX)   144-146&430-440MHz(RX/TX)
   136-174&400-480MHz (RX/TX)   (RX)FM:76MHz-108MHz(Space:100K)
   136-174&420-520MHz (RX/TX)
   Network: LTE 4G
   (RX) FM: 76MHz-108MHz( frequency step 100K)
6. Tri display
   Tri Bands display on the large screen independently
7. Frequency Offset and Direction Programmable in Repeater Mode
   UHF/VHF or VHF/UHF Cross-Band Repeater
8. 999 Memory Channels
9. Strong and Stable Output Power (VHF: 5W/UHF: 4W)
10. QT/DQT Encoding/Decoding, QT/DQT Scan
11. VOX
12. Multi Definition for Sidekeys
13. Incoming Message Display
    Caller ID display
14. DTMF Encoding&Decoding
15. All Calls, Group Calls And Selective Calls
16. SOS Function
17. Priority Scan Function
18. Remote Alarm
19. Wide/Narrow Bandwidth Selection (25KHz/12.5KHz)
20. Voice Guide:Chinese/English
21. Chinese/English Screen Display
22. Bright Flashlight Illumination
23. Single-Tone Pulse Frequency: 2100Hz/1750Hz/1000Hz/1450Hz (signalling for activating repeater)
24. Reverse Frequency
25. Stopwatch
26. GPS Configured
27. Setting for Backlight
28. Compander

## B.Technical Specification

| Analogue Part | | Whole Part | | Public Network Part | |
|---|---|---|---|---|---|
| Work Bands | Customized according to different | Voltage | 3.7V DC | Work Band | LTE 4G |
| Step | 5K/6.25K/12.5K/25K/50K/100K | Weight | 300g | Max TX Power | 23-25dbm @All up bits. |
| Memory Channels | 999 | Size | 135.5x59.0x34.0 (mm) | RX Sensitivity | -106dbm |
| Mode | F2D/F3E | Audio Power | <500mW | | |
| Antenna Impendance | 50Ω | Temperature | -20°C to 40°C | | |
| Analogue RX Part | Wide Band | Narrow Band | Analogue TX Part | Wide Band | Narrow Band |
| Modulation | 16K F3E | 11K F3E | Adjacent Channel Selection | ≤70dB | ≤60dB |
| Effective Radiation Power | ≥70dB | ≥60dB | Inter-Modulation | ≤65dB | ≤60dB |
| Spurious Radiation | ≥60dB | ≥60dB | Spurious Radiation | ≤70dB | ≤70dB |
| Audio Response | + I~3dB(0.3-3KHZ) | + I~3dB(0.3-2.55KHZ) | Audio Response | + I~3dB(0.3-3KHZ) | +I~3dB(0.3-3KHZ) |
| Max Offset | ±5KHZ | ±2.5KHZ | Squelch Sensitivity | ≥45dB | ≥40dB |
| Frequency Stability | ±2.5ppm | | Audio Distortion | ≤5% | |
| Audio Distortion | ≤5% | | Sensitivity | UHF: 0.25uV(12dB SINAD) | |
| Output Power | VHF: 5W , UHF: 4W | | | VHF: 0.25uV(12dB SINAD) | |

Specifications are subject to change without notice.

## 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.

Lamp

Network Antenna

ON/OFF Button

Analogue Antenna

RX Indicator(Green)

TX Indicator(Red)

Screen

VFO/MR SHortcut

MIC

Band Switch(A,B,C)

Short press:Display switch for Analogue A or B are
Long press:Turn ON/OFF repeat

Menu Key

Exit/Cancel Key

Numeric Key

Talkaround/Scan Key

Up/Down Key

Lock Key/Second Key

PF1:Selective Call,Sub Band TX,
Network TX

PTT

Earphine Jack

PF2:Monitor(Long Press)
Lamp(Short Press)

PF3:Scan,Keypad Backlight,SOS,
Emergency,FM Radio(Short Press),
Exit from Personal Call at main band
in C area

USIM Port

## 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 [RPT] key.

1.There are A,B and C areas on the LCD scream to display the status for working bands. The master band is with a sign 【 ▶ 】 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".

2. 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.

3. Some functions are not allowed to be used under directional cross-band repeater or two way cross-band 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:



| A | B | C | D |
|---|---|---|---|
| 1 | 2 | 3 | * |
| 4 | 5 | 6 | 0 |
| 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)
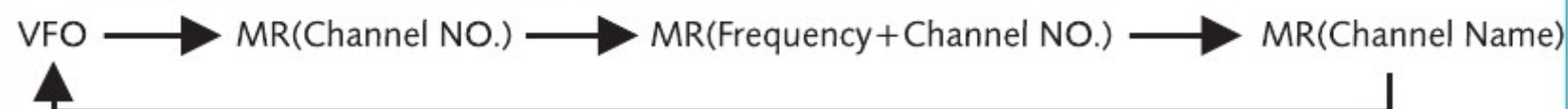
When you set password for switching work mode, press [MENU], LCD screen display [ —————— ], please input the correct password and press [MENU]. If inputting the wrong password, the work mode switch can not be workable. Password only can be programmed via ⓦwouxun supplied programming software. When the password is made up of full "ZERO", the work mode switch does not require password.

## Wire Clone Function

| Using wireclone | 1. Installing the battery for source transceiver and target transceiver.<br>2. Powering on target transceiver.<br>3. Press PF3 of source transceiver, and power on at the same time.<br>4. Red LED of the source radio flashes, the cloning activates | LED is flashing red during cloning.<br>LED goes out in case of successful cloning.<br>LED glows continuous red in case of cloning failure. |
|---|---|---|
| | Target Transceiver | Green indicator is flashing during cloning.<br>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.

1. Insert the AC plug into outlet (AC:90-240V), the charger indicator flashes once. That means the charging is in standby.
2. 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.

## NOTE ⚠

» 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.

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| Function order | Function name | Enter function set | Screen display | Select parameter | Selectable parameter explanation | Confirm | Return to standby | See page |
|---|---|---|---|---|---|---|---|---|
| 1 | Step Frequency | MENU → 1 STEP | STEP | Press ▲ or ▼ key Select parameter | 8 frequency steps available: 5k/6.25k/10k/12.5k/50k/100k | MENU | EXIT | P19 |
| 2 | Squelch Level | MENU → 2 SQL | SQL-LE | Press ▲ or ▼ key Select parameter | Squelch level from 0 to 9 | MENU | EXIT | P19-20 |
| 3 | Power Saver Mode | MENU → 3 SAVE | SAVE | Press ▲ or ▼ key Select parameter | ON:Activate OFF:Deactivate | MENU | EXIT | P20 |
| 4 | Transmitting Power Selection | MENU → 4 TXP | TXP | Press ▲ or ▼ key Select parameter | H: High power (VHF 5W/UHF 4W) L: Low power (1W) | MENU | EXIT | P20-21 |
| 5 | Begin/End Transmitting Prompt | MENU → 5 ROGER | ROGER | Press ▲ or ▼ key Select parameter | OFF: turn off this function,without any voice prompting. BOT: press PTT, voice prompt when begining transmitting EOT: release PTT, voice prompt when ending transmitting BOTH: press and release PTT,voice prompt | MENU | EXIT | P21 |
| 6 | Time-out Timer | MENU → 6 TOT | TOT | Press ▲ or ▼ key Select parameter | TOT has 40 levels in steps of 15 seconds. OFF: Turn off TOT | MENU | EXIT | P21 |
| 7 | VOX | MENU → 7 VOX | VOX | Press ▲ or ▼ key Select parameter | VOX has levels from 1 to 9 OFF: Turn off VOX transmission | MENU | EXIT | P22 |
| 8 | Bandwidth Selection | MENU → 8 WN | WN | Press ▲ or ▼ key Select parameter | WIDE: 25KHz NARR: 12.5KHz | MENU | EXIT | P22 |

14

| Function | Enter function set | Screen display | Select parameter | Selectable parameter explanation | Confirm/Return | See page |
|---|---|---|---|---|---|---|
| 9 Voice Guide | MENU → 9 VOICE | VOICE | MENU → Press ▲ or ▼ key Select parameter | CHINESE: Chinese voice prompt ENGLISH: English voice prompt OFF: Turn off voice prompt | MENU → EXIT | P22-23 |
| 10 Transmitting Overtime Alarm | MENU → 0 | TOA | MENU → Press ▲ or ▼ key Select parameter | ON:Activate OFF:Deactivate | MENU → EXIT | P23 |
| 11 Beep Prompt | MENU → 1 STEP → 1 STEP | BEEP | MENU → Press ▲ or ▼ key Select parameter | ON: Turn on beep prompt function OFF: Turn off beep prompt function | MENU → EXIT | P23-24 |
| 12 Display Language | MENU → 1 STEP → 2 SQL | LANGUAGE | MENU → Press ▲ or ▼ key Select parameter | CHINESE ENGLISH | MENU → EXIT | P24 |
| 13 Busy Channel Lockout | MENU → 1 STEP → 3 SAVE | BCL | MENU → Press ▲ or ▼ key Select parameter | ON: Turn on BCL OFF: Turn off BCL | MENU → EXIT | P24 |
| 14 Scan Mode | MENU → 1 STEP → 4 TXP | SC-REV | MENU → Press ▲ or ▼ key Select parameter | 3 Kinds of Scan modes TO: Time scanning mode CO: Carrier mode scan SE: Search mode scan | MENU → EXIT | P24-25 |
| 15 Receiving CTCSS | MENU → 1 STEP → 5 ROGER | R-CTC | MENU → Press ▲ or ▼ key Select parameter | 50 groups CTCSS (67.0Hz-254.1Hz) OFF: Turn off CTCSS | MENU → EXIT | P25 |
| 16 Transmitting CTCSS | MENU → 1 STEP → 6 TOT | T-CTC | MENU → Press ▲ or ▼ key Select parameter | 50 groups CTCSS (67.0Hz-254.1Hz) OFF: Turn off CTCSS | MENU → EXIT | P26 |
| 17 Receiving DCS | MENU → 1 STEP → 7 VOX | R-DCS | MENU → Press ▲ or ▼ key Select parameter | 105 groups DCS (D023N-D754I) OFF: Turn off DCS | MENU → EXIT | P26 |
| 18 Transmitting DCS | MENU → 1 STEP → 8 WN | T-DCS | MENU → Press ▲ or ▼ key Select parameter | 105 groups DCS (D023N-D754I) OFF: Turn off DCS | MENU → EXIT | P26-28 |
| 19 Side Key Setting | MENU → 1 STEP → 9 VOICE | PF1-KEY | MENU → Press ▲ or ▼ key Select parameter | CALL:Selective Call VFTX:Transmission on Sub-frequency | MENU → EXIT | P28 |

15
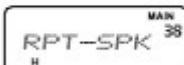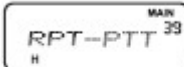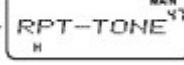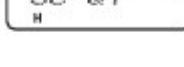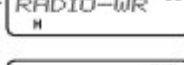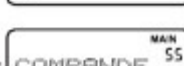
# Shortcut Operation Sheet

Wouxun Professional FM Transceiver

| Function | Sequence | Display | Parameters | Page |
|---|---|---|---|---|
| 20 Side Key Setting | MENU → 2 → □ → PF3-KEY(20) → MENU → Press ▲ or ▼ key / Select parameter | PF3-KEY | SCAN: Activate scan / LAMP: Turn on Lamp / Tele Alarm: Remote Alarm / SOS-CH: SOS function / RADIO: Turn on FM radio / Disable: Inactivate → MENU → EXIT | P29-31 |
| 21 Working Mode Switch | MENU → 2 → 1 → CH-MDF(21) → MENU → Press ▲ or ▼ key / Select parameter | CH-MDF | This transceiver has two working modes available: 1. Frequency mode (FREQ) 2. Channel mode. Three kinds of channel modes available: ① Channel (CH) ② Frequency+Channel number (CH FREQ) ③ Channel name (NAME) → MENU → EXIT | P31-32 |
| 22 Auto Backlight | MENU → 2 → 2 → ABR(22) → MENU → Press ▲ or ▼ key / Select parameter | ABR | Always ON / 1S-20S: Backlight Timer → MENU → EXIT | P32 |
| 23 Offset Frequency | MENU → 2 → 3 → OFFSET(23) → MENU → Press ▲ or ▼ key / Select parameter | OFFSET | 0-599.995MHz → MENU → EXIT | P32 |
| 24 Frequency Shift Direction | MENU → 2 → 4 → SFT-D(24) → MENU → Press ▲ or ▼ key / Select parameter | SFT-D | + Positive direction / - Negative direction / OFF: Turn off frequency shift direction → MENU → EXIT | P33 |
| 25 Stopwatch Timer | MENU → 2 → 5 → SECOND(25) → MENU → Press ▲ or ▼ key / Select parameter | SECOND | ON: Activate / OFF: Deactivate → MENU → EXIT | P33-34 |
| 26 Channel Name Edit | MENU → 2 → 6 → CHNAME(26) → MENU → Press ▲ or ▼ key / Select parameter | CHNAME | Channel name should be composed by 26 letters (A to Z) and 10 numbers (0 to 9), eight maximum → MENU → EXIT | P34 |
| 27 Channel Memory | MENU → 2 → 7 → MEM-CH(27) → MENU → Press ▲ or ▼ key / Select parameter | MEM-CH | 999 channels available → MENU → EXIT | P35-36 |
| 28 Channel Delete | MENU → 2 → 8 → DEL-CH(28) → MENU → Press ▲ or ▼ key / Select parameter | DEL-CH | 999 channels available → MENU → EXIT | P36 |
| 29 Scan CTCSS/DCS | MENU → 2 → 9 → SC-CTC(29) → MENU → Press ▲ or ▼ key / Select parameter | SC-CTC | CTCSS / DCS → MENU → EXIT | P37 |
| 30 Power-ON Message | MENU → 3 → □ → SC-DCS(30) → MENU → Press ▲ or ▼ key / Select parameter | SC-DCS | BITMAP: Picture / BATT-V: Votalge → MENU → EXIT | P37-38 |
| 31 Mute Settings | MENU → 3 → 1 → SP-MUTE(31) → MENU → Press ▲ or ▼ key / Select parameter | SP-MUTE | There are three squelch settings: QT*DTMF, QT+DTMF, QT → MENU → EXIT | P38-39 |
| 32 Caller ID Transmission Settings | MENU → 3 → 2 → ANI-SW(32) → MENU → Press ▲ or ▼ key / Select parameter | ANI-SW | ON: Activate / OFF: Deactivate → MENU → EXIT | P39 |
| 33 Editing Caller ID | MENU → 3 → 3 → ANI-EDIT(33) → MENU → Press ▲ or ▼ key / Select parameter | ANI-EDIT | Individual Caller IDs can be chosen within the range 100-999999, and cannot begin with 0 → MENU → EXIT | P39-40 |
| 34 DTMF Sidetone Settings | MENU → 3 → 4 → DTMFST(34) → MENU → Press ▲ or ▼ key / Select parameter | DTMFST | DT-ST: Keypad sidetone will be activated when transmitting / ANI-ST: Caller ID sidetone will be activated when transmitting / DT-ANI: Caller ID sidetone and keypad sidetone will be activated when transmitting / OFF: Deactivate all → MENU → EXIT | P40-41 |
| 35 Keypad Auto Lock | MENU → 3 → 5 → AUTOLK(35) → MENU → Press ▲ or ▼ key / Select parameter | AUTOLK | ON: Activate / OFF: Deactivate → MENU → EXIT | P41 |
| 36 Priority Channel Switch | MENU → 3 → 6 → PRICH-SW(36) → MENU → Press ▲ or ▼ key / Select parameter | PRICH-SW | ON: Activate / OFF: Deactivate → MENU → EXIT | P41-42 |
| 37 Repeater Settings | MENU → 3 → 7 → RPT-SET(37) → MENU → Press ▲ or ▼ key / Select parameter | RPT-SET | X-DIRPT: Directional cross band repeat / X-TWRPT: Two-way cross band repeat → MENU → EXIT | P42-45 |

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| # | Function | Menu Sequence | Display | Parameter | Page |
|---|----------|---------------|---------|-----------|------|
| 38 | Repeater Speaker Switch | MENU → 3 → 8 → RPT-SPK → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | RPT-SPK 38 | ON: Speaker is activate when repeating / OFF: Speaker is deactivate when repeating | P46 |
| 39 | Repeater PTT Switch | MENU → 3 → 9 → RPT-PTT → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | RPT-PTT 39 | ON: PTT transmission activated when repeating / OFF: PTT transmission blocked when repeating | P46 |
| 40 | Scan Add | MENU → 4 → 0 → SCAN-ADD → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | SCAN-ADD 40 | ON: When scanning channels, they will be added to the scanning table / OFF: Channels will not be added to the table when scanning | P46 |
| 41 | Single-Tone Pulse Frequency | MENU → 4 → 1 → ALERT → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | ALERT 41 | There are 4 single-tone pulse frequency options:1750; 2100; 1000; 1450 | P47 |
| 42 | PTT ID Delay | MENU → 4 → 2 → PTT-DLY → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | PTT-DLY 42 | Options: 100ms  200ms...30000ms | P47 |
| 43 | Caller ID Transmission Mode | MENU → 4 → 3 → PTT-ID → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | PTT-ID 43 | BOT: Press PTT to transmit caller ID. / EOT: Release PTT to transmit caller ID. / BOTH: Press and release PTT will both transmit caller ID. | P47-48 |
| 44 | Ring Time | MENU → 4 → 4 → RING → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | RING 44 | 1-10 Levels:each level 1 second / OFF:Deactivate | P48 |
| 45 | Scan Channel Group NO. of A Area | MENU → 4 → 5 → SCG-A → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | SCG-A 45 | All: scan all / Group 1, Group 2, Group 3, Group 4, Group 5, Group 6, Group 7, Group 8, Group 9, Group 10 | P48 |
| 46 | Scan channel Group NO. of B Area | MENU → 4 → 6 → SCG-B → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | SCG-B 46 | All: scan all / Group 1, Group 2, Group 3, Group 4, Group 5, Group 6, Group 7, Group 8, Group 9, Group 10 | P49 |
| 47 | Repeater Receipt Tone | MENU → 4 → 7 → RPT-TONE → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | RPT-TONE 47 | ON: Activate / OFF: Deactivate | P49 |
| 48 | Saving Scan Mode | MENU → 4 → 8 → SC-QT → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | SC-QT 48 | ALL: Save both RX and TX CTCSS/DCS / DEC: Save RX CTCSS/DCS / NEC: Save TX CTCSS/DCS | P49-50 |
| 49 | Setting Sub-Frequency Mute | MENU → 4 → 9 → SMUTESET → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | SMUTESET 49 | OFF: Deactive this function / TX: Deactive volume on sub-frequency when transmitting on master frequency / RX: Deactive volume on sub-frequency when receiving on master frequency / TX/RX:Deactive volume on sub-frequency when transmitting and receiving on master frequency | P50 |
| 50 | Selective Call Code Group Setting | MENU → 5 → 0 → CALLCODE → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | CALLCODE 50 | Selective call group:1-20 | P51 |
| 51 | Reset Setting | MENU → 5 → 1 → RESET → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | RESET 51 | VFO: Reset menu functional parameters / ALL: Reset all (menu & channel) functional parameters | P51 |
| 52 | Setting for Backlight | MENU → 5 → 2 → BACKLIGHT → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | BACKLIGHT 52 | Backlight: 01 to 10 groups | P51 |
| 53 | Radio-WR | MENU → 5 → 3 → RADIO-WR → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | RADIO-WR 53 | Read Radio Station: 01-20 Groups / Write Radio Station: 01-20 Groups | P51 |
| 54 | Scramber | MENU → 5 → 4 → SCRAMBER → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | SCRAMBER 54 | Scrambler: 1-8 groups / OFF: Turn off | P51 |
| 55 | Compander | MENU → 5 → 5 → COMPANDE → MENU → Press ▲ or ▼ key / Select parameter → MENU → EXIT | COMPANDE 55 | ON: Turn on / OFF: Turn off | P51 |

56. Repeat Area Setting(RPT-AREA) — MENU → 5 6 → RPT-AREA⁵⁶ → MENU → Press ▲ or ▼ key / Select parameter → AB Repeat: Analogue A area and B area Cross Repeat / AC Repeat: Analogue A area and Network C area Cross Repeat / BC Repeat: Analogue B area and Network C area Cross Repeat → MENU → EXIT P49

57. Public Network Mute(PN Mute) — MENU → 5 7 → PN MUTE⁵⁷ → MENU → Press ▲ or ▼ key / Select parameter → OFF / ON → MENU → EXIT P49

58. Battery Voltage (VOLTAGE) — MENU → 5 8 → VOLTAGE⁵⁸ → MENU → 4.2V → MENU → EXIT P50

59. Network Swtich-off(OFF) — MENU → 5 9 → OFF⁵⁹ → MENU → Press ▲ or ▼ key / Select parameter → NO / YES → MENU → EXIT P50

60. Zone A Mute (ZA MUTE) — MENU → 6 0 → ZA MUTE⁶⁰ → MENU → Press ▲ or ▼ key / Select parameter → NO / YES → MENU → EXIT P50

61. Mute(ZB Zone B MUTE) — MENU → 6 1 → ZB MUTE⁶¹ → MENU → Press ▲ or ▼ key / Select parameter → NO / YES → MENU → EXIT P51

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

In standby, press MENU + 1, the screen displays STEP

Press MENU to enter, press ▲ / ▼ to select the desired step, then press MENU to confirm, finally press EXIT 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 MENU + 2, the screen displays SQL-LE

Press MENU to enter, press ▲ / ▼ to select the desired squelch level, then press MENU to confirm, finally press EXIT to return to standby.

**NOTE** ⚠️

» 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 [MENU] + [3], the screen displays `SAVE`

Press [MENU] to enter, it shows 'ON', press [▲] / [▼] to select turn ON/OFF the power saver funtion.
Press [MENU] to confirm, and then press [EXIT] to return to standby.

### Transmitting Power Selection (TXP) --- MENU 4

In frequency mode, press [MENU] + [4], the screen displays `TXP`

Press [MENU] to enter, it shows 'HIGH', press [▲] / [▼] to select HIGH/LOW power, then press [MENU] to confirm, finally press [EXIT] to return to standby.

---

**NOTE** ⚠️

» This transceiver has HIGH and LOW transmitting power selectable:
   VHF: HIGH: 5W LOW:1W
   UHF: HIGH: 4W LOW:1W

### Transmssion Prompt settings (ROGER) --- Menu 5

When the transceiver is standby,press the [MENU] + [5] keys and the screen will display: `ROGER`

Press the key to access the menu, and after pressing the [▲] / [▼] keys to choose the required prompt mode, press the [MENU] key to to confirm, or the [EXIT] key to retum 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 [MENU] + [6], the screen displays `TOT`

Press [MENU] to enter, press [▲] / [▼] to select the desired timer level, then press [MENU] to confirm, finally press [EXIT] to return to standby.

## VOX (VOX) --- MENU 7

In standby , press [MENU] + [7] , the screen displays [VOX]

Press [MENU] to enter , press [▲] / [▼] to select VOX level(1-9), then press [MENU] to confirm , finally press [EXIT] to return to standby.

### NOTE ⚠

≫ 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 [MENU] + [8] , the screen displays [WN]

Press [MENU] to enter, it shows 'WIDE', press [▲] / [▼] to select WIDE/NARROW bandwidth, then press [MENU] to confirm , finally press [EXIT] to return to standby.

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

## Voice Guide (VOICE) --- MENU 9

In standby , press [MENU] + [9] , the screen displays [VOICE]

Press [MENU] to enter, press [▲] / [▼] to select ON or OFF , and then press [MENU] key to confirm, finally press [EXIT] to return to standby.

### NOTE ⚠

≫ 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 [MENU] + [1][0] , the screen displays [TOA]

Press the [MENU] key to access the menu, and after pressing the [▲] / [▼] keys to select the required time, press the [MENU] key to confirm, and the [EXIT] key to return to standby.

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

### Special Reminder ⚠

≫ 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 [MENU] + [1][1] , the screen displays [BEEP]

Press **MENU** to enter, press ▲ / ▼ to turn ON/OFF the beep prompt function, then press **MENU** to confirm, finally press **EXIT** to return to standby.

## Display Language (LANGUAGE) --- MENU 12

In standby , press **MENU** + **1** **2** , the screen display LANGUAGE

Press **MENU** to access the function , press ▲ / ▼ to select the desired language, and then press **MENU** to confirm, press **EXIT** to return to standby mode.

Two Options:CHINESE and ENGLISH

## Busy Channel Lockout (BCL) --- MENU 13

In frequency mode, press **MENU** + **1** **3** , the screen displays BCL

Press **MENU** to enter, press ▲ / ▼ to select ON/OFF this function, then press **MENU** to confirm, finally press **EXIT** 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 **MENU** + **1** **4** , keys and the screen will display SC-REV

Press the **MENU** key to access the menu, and after pressing the ▲ / ▼ keys to select the required set-

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ting, press the **MENU** key to confirm, and the **EXIT** 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 ⚠

» Hold on **\*** for 2 seconds to access the scan mode.

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

When the transceiver in standby. press the **MENU** + **1** **5** keys and the screen will display R-CTC

Press the **MENU** key to access the menu,and after pressing the ▲ / ▼ key to select the CTCSS you desire, press the **EXIT** key to return to standby.

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

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

When the transceiver is standby, press the [MENU] + [1] [6] keys and the screen will display [ T-CTC   MAIN 16 ]
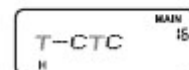
Press the [MENU] key to access the menu, and after pressing the [▲] / [▼] key to select the CTCSS you desire, press the [MENU] key to confirm, and press the [EXIT] key to return to standby.

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 [MENU] + [1] [7] keys and the screen will display [ R-DCS   MAIN 17 ]

Press the [MENU] key to access the menu, and after pressing the [▲] / [▼] key to select the DCS you desire, press the [MENU] key to confirm, and press the [EXIT] key to return to standby.

DCS: 105 groups of positive code, 105 groups of negative code, ranging from D023N to D754I.

OFF: Deactivate.

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

When the transceiver is standby, press the [MENU] + [1] [8] keys and the screen will display [ T-DCS   MAIN 18 ]
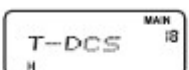
Press the [MENU] key to access the menu, and after pressing the [▲] / [▼] key to select the DCS you desire, press the [MENU] key to confirm, and press the [EXIT] key to return to standby.

---

DCS: 105 groups of positive code, 105 groups of negative codes, ranging from D023N to D754I.

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 |

## DCS (positive code)

| 1 | D023N | 16 | D074N | 31 | D165N | 46 | D261N | 61 | D356N | 76 | D462N | 91 | D627N |
|---|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 2 | D025N | 17 | D114N | 32 | D172N | 47 | D263N | 62 | D364N | 77 | D464N | 92 | D631N |
| 3 | D026N | 18 | D115N | 33 | D174N | 48 | D265N | 63 | D365N | 78 | D465N | 93 | D632N |
| 4 | D031N | 19 | D116N | 34 | D205N | 49 | D266N | 64 | D371N | 79 | D466N | 94 | D645N |
| 5 | D032N | 20 | D122N | 35 | D212N | 50 | D271N | 65 | D411N | 80 | D503N | 95 | D654N |
| 6 | D036N | 21 | D125N | 36 | D223N | 51 | D274N | 66 | D412N | 81 | D506N | 96 | D662N |
| 7 | D043N | 22 | D131N | 37 | D225N | 52 | D306N | 67 | D413N | 82 | D516N | 97 | D664N |
| 8 | D047N | 23 | D132N | 38 | D226N | 53 | D311N | 68 | D423N | 83 | D523N | 98 | D703N |
| 9 | D051N | 24 | D134N | 39 | D243N | 54 | D315N | 69 | D431N | 84 | D526N | 99 | D712N |
| 10 | D053N | 25 | D143N | 40 | D244N | 55 | D325N | 70 | D432N | 85 | D532N | 100 | D723N |
| 11 | D054N | 26 | D145N | 41 | D245N | 56 | D331N | 71 | D445N | 86 | D546N | 101 | D731N |
| 12 | D065N | 27 | D152N | 42 | D246N | 57 | D332N | 72 | D446N | 87 | D565N | 102 | D732N |
| 13 | D071N | 28 | D155N | 43 | D251N | 58 | D343N | 73 | D452N | 88 | D606N | 103 | D734N |
| 14 | D072N | 29 | D156N | 44 | D252N | 59 | D346N | 74 | D454N | 89 | D612N | 104 | D743N |
| 15 | D073N | 30 | D162N | 45 | D255N | 60 | D351N | 75 | D455N | 90 | D624N | 105 | D754N |

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

In standby, press MENU + 1 STEP 9 VOICE kthe screen displays PF1-KEY MAIN 19 H

Press MENU to access the menu, press ▲ / ▼ to select the mode you desire. And then press MENU to confirm, and press EXIT 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 MENU + 2 TBL 0 the screen displays PF3-KEY MAIN 2G H

Press MENU to access the menu, press ▲ / ▼ to select the function you desire. And then press MENU to confirm, press EXIT 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.

## How to operate

**NOTE** ⚠

>> Each alarm lasts 10seconds, and after 5 minutes, the alarm will re-activate. Press any key to exit the function.
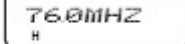
TeleAlarm: Activate remote alarm function

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

Press PTT key to exit.
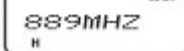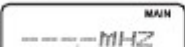
RADIO: Activate the FM radio function

A. Activate FM radio:

In standby, press PF3 to activate FM radio. The screen displays `760MHZ`, 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

In FM radio mode, press PF3, the screen display `889MHZ`, hold on RPT for 2 seconds, the screen displays `----MHZ`. It is OK to input the 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 MENU + 2 1 , the screen display `CH-MDF`

Press MENU to enter, press ▲ / ▼ , to select mode then press MENU confirm , press EXIT it return to standby.

This transceiver has two options for the working mode:

1. Frequency mode(FREQ)

2. 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 [MENU] + [2][2] , the screen display [ABR  MAIN 22]

Press [MENU] to enter, press [▲] / [▼] to select backlight function , then press [MENU] confirm , press [EXIT] it return to standby.

Always Activate

1S-20S: Set the lasting time of backlight

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

In standby, press [MENU] + [2][3] and the screen display [OFFSET  MAIN 23]

Press [MENU] to access the menu,press [▲] / [▼] to select the parameter you desire, and then presss [MENU] to confirm, press [EXIT] 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 [MENU] + [2][4] , The screen display [SFT-D  MAIN 24]

Press [MENU] to enter, press [▲] / [▼] to select the desired frequency shift direction, then press [MENU] confirm, press [EXIT] 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 ⚠

≫ 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 [MENU] + [2][5] , The screen display [SECOND  MAIN 25]

Press [MENU] to enter, [▲] / [▼] to select ON/OFF , then press [MENU] confirm, press [EXIT] 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 ⚠

» 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 🆖 + 🔢🔢 keys and the screen will display │CHNAME 26│

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 ⚠

» 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 🆖 + 🔢🔢 , the screen displays │MEM-CH 27│

Press 🆖 to access the menu, press 🔼 / 🔽 to select the desired channel order, and then press 🆖 to memorize with a voice prompt. Press 🆅 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.
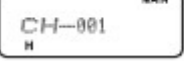
1.Inputting 450.025MHz to the transceiver in frequency(VFO)mode, press 🆖 + 🔢🔢 to access receiving CTCSS/DCS setting, press 🔼 / 🔽 to select 67.0Hz, press 🆖 to confirm.

2.Press 🆖 + 🔢🔢 to select the offset frequency is 10.000MHz, press 🆖 + 🔢🔢 to set the frequency direction as "+".

3.Press 🆖 + 🔢🔢 to access channel memory, select CH-010 and press 🆖 to memorize the channel
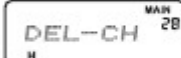
and return to standby.

In standby, press MENU + 2 7 to access channel memory, the screen displays `CH—001 MAIN`, input the desired channel number orderly, and then press MENU 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 MENU + 2 8 , the screen will display `DEL—CH MAIN 28`

Press MENU to access the menu, press ▲ / ▼ to select the channel you wish to delete or manually inputting the channel number, press MENU to confirm and the EXIT 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 MENU + 2 9 , screen displays `SC—CTC MAIN 29` Select CTCSS or DCS, then Press MENU 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 ▲ / ▼ to change the direction for scanning.
> it stopes on the frequency or channel which is programmed with CTCSS/DCS, pls press MENU 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 MENU + 3 0 , the screen displays `SC—DCS MAIN 30`

Press MENU to enter the function, then press ▲ / ▼ to select the parameter and then MENU to confirm,

while press [EXIT] to return back to the standby.

BITMAP: Picture

BATT-V: Voltage

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

In standby, press [MENU] + [3][1] , the screen displays [SP-MUTE 31]

Press [MENU] to access the menu, and after pressing [▲] / [▼] to choose the required mute mode, press [MENU] to confirm, and press [EXIT] 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.

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

In frequency mode, press [MENU] + [3][2] , The screen display [ANI-SW 32]

Press [MENU] to enter, press [▲] / [▼] to select turn ON/OFF, and press [MENU] to confirm, press [EXIT] it return to standby.

## 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 [MENU] + [3][3] , the screen displays [ANI-EDIT 33]

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

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

In standby, press [MENU] + [3][3] , the screen displays [ANI-EDIT 33]

After pressing [MENU] key, the first digit will flash, then input the required value 123456.

Press [MENU] to confirm, and press [EXIT] to return to standby.

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

In standby, press **MENU** + **3** **3** , the screen displays [ANI-EDIT ᴹᴬᴵᴺ 33]

After pressing **MENU** , 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 **MENU** to confirm, press **EXIT** to return to standby.

### Special Reminder ⚠

>> 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 **MENU** + **3** **4** , The screen display [DTMFST ᴹᴬᴵᴺ 34]

Press **MENU** to enter, press **▲** / **▼** to select the required sidetone mode, and press **MENU** to confirm, press **EXIT** 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 **MENU** + **3** **5** , the screen displays [AUTOLK ᴹᴬᴵᴺ 35]

Press **MENU** to access the menu, press **▲** / **▼** to select ON(Activate)/OFF(Deactivate), and then press **MENU** to confirm, press **EXIT** to return to standby.

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

### NOTE ⚠

>> 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 **MENU** + **3** **6** , the screen display [PRICH-SW ᴹᴬᴵᴺ 36]

Press **MENU** to access, press **▲** / **▼** to select ON/OFF. And then press **MENU** to confirm, and press **EXIT** 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 → CH6 → CH2 → CH6 → CH3 → CH6 → CH4 → CH6 → CH5 → CH6
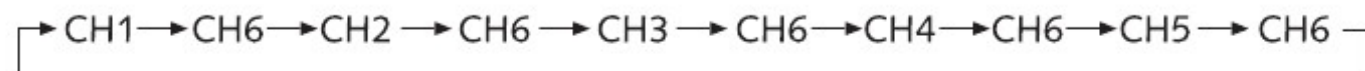
When this transceiver detects signal on the priority channel during scanning, it will on its frequency.

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 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.

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 【MENU】 + 【3】【7】 the screen displays ⎡RPT–SET³⁷⎤

Press 【MENU】, press 【▲】 / 【▼】 to select the mode you desire, and then press 【MENU】 again.

## Special Reminder ⚠

» In cross-band repeater mode, the screen will display ⟳.

» Switching transceiver communication and repeater modes via 【RPT】. In standby, hold on 【RPT】 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 equipment 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 ⊘wouxun supplied software.

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

In standby, press MENU + 3 8 , the screen display RPT-SPK 38

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

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

In standby, press MENU + 3 9 , the screen display RPT-PTT 39

Press MENU to access, press ▲ / ▼ to select ON/OFF. And then press MENU to confirm, and press EXIT to 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 MENU + 4 0 , the screen display SCAN-ADD

Press MENU to access, press ▲ / ▼ to select ON/OFF. And then press MENU to confirm, and press EXIT 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 MENU + 4 1 , the screen displays ALERT 41

Press MENU to access, press ▲ / ▼ to select the parameter you desire and then press MENU to confirm, press EXIT 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 MENU + 4 2 , the screen display PTT-DLY 42

Press MENU to access, press ▲ / ▼ to select the time you want. And then press MENU to confirm, and press EXIT 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 MENU + 4 3 , the screen display PTT-ID 43

Press [MENU] to access, press [▲] / [▼] to select the mode you want. And then press [MENU] to confirm, and press [EXIT] to return to standby.

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

### Ring Time --- MENU 44

In standby, press [MENU] + [4] [4] , the screen display | RING  MAIN 44 |

Press [MENU] to access, press [▲] / [▼] to select the parameter you want. And then press [MENU] to confirm, and press [EXIT] 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 [MENU] + [4] [5] , the screen displays | SCG-A  MAIN 45 |

Press [▲] / [▼] to press [MENU] to confirm, press [EXIT] 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 [MENU] + [4] [6] , the screen displays | SCG-B  MAIN 46 |

Press [▲] / [▼] to press [MENU] to confirm, press [EXIT] to return.

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

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

In standby, press [MENU] + [4] [7] , the screen display | RPT-TONE  MAIN 47 |

Press [MENU] to access, press [▲] / [▼] to select the parameter,. And then press [MENU] to confirm, and press [EXIT] 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:

1.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 [MENU] + [4] [8] keys and the screen will display `SC-QT` MAIN
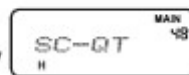
Press [▲] / [▼] press [MENU] , and then press [EXIT] .

## Mute Setting on Sub-frequency --- MENU 49

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

In standby, press [MENU] + [4] [9] , the screen displays `SMUTESET` MAIN

Press [MENU] to access and then press [▲] / [▼] to select the parameter you desire, and then press [MENU] 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 [MENU] + [5] [0] , the screen displays `CALLCODE` MAIN SO

Press [MENU] to access the menu, press [▲] / [▼] to select the desired selective call group number. Press [MENU] to confirm, and the transceiver returns to standby.

Selective call code are with 1-20 groups for option. Selective call codes are programmed via **wouxun** 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 [MENU] + [5] [1] , the screen displays `RESET` MAIN S1

Press [MENU] to access, press [▲] / [▼] to select the parameter you desire and then press [MENU] to confirm.

The screen will display `WAIT·····` MAIN

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

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

In standby, press [MENU] + [5] [2], screen display [BACKLIGHT]

Press [MENU] to enter the function, then press [▲] / [▼] to select the parameter and then [MENU] to confirm, while press [MENU] 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 [MENU] + [5] [3], screen display [RADIO-WR]

Press [MENU] to enter the function, then press [▲] / [▼] to select the parameter and then [MENU] 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 [MENU] + [5] [4], screen display [SCRAMBER]

---

Press [MENU] to enter the function, then press [▲] / [▼] to select the parameter and then [MENU] to confirm, while press [MENU] 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 [MENU] + [5] [5], screen display [COMPANDE]

Press [MENU] to enter the function, then press [▲] / [▼] to select the parameter and then [MENU] to confirm, while press to return back to the standby.

There is ON and OFF selectable.

## Repeater Area Setting (RPT-AREA)---MENU 56

Repeater setting can add 2 areas for repeater, A area& B area repeater (analogue A area and B area for repeater); A area& C area repeater (Analogue A area and Network B area for repeater) and B area& C area repeater(Analogue B area and Network B area for repeater).

Repeater Area Options: AB Repeater; AC Repeater and BC Repeater.

### Public Network Mute(PNMUTE)---MENU 57

Network mute is for setting mute on C area.

Network Mute: OFF(Turn Off Public Network Mute) /ON(Turn On Public Network Mute)

### Battery Voltage (VOLTAGE)---MENU 58

This function is checking for the battery voltage.

### Network OFF(PNOFF)---MENU 59

This function is for stopping using the public network(area C). If the public network is no necessary for using, please turn off to save the power consume.

Network OFF: off (Turn off public network)

ON (Turn on public network)

Remind: Please turn off public network to save battery power if the public network is useless for a long period.

### A Area Mute(ZA MUTE)---MENU 60

A area mute is for selecting if A area is mute when receiving.

A area mute: OFF (Turn off Mute)

ON(Turn on Mute)

Remind: Under repeater, mute function is controlled by Menu 38 repeater speaker.

### B Area Mute(ZA MUTE)---MENU 61

B area mute is for selecting if A area is mute when receiving.

B area mute: OFF (Turn off Mute)

ON(Turn on Mute)

Remind: Under repeater, mute function is controlled by Menu 38 repeater speaker.

Network(C Area)

Please turn off the radio before using network, and install USIM card into slot(pay attention to the USIM card direction). Then power on the radio, the screen displays "Loading...".After successfully loading network, the screen display the group name.

### Group Selection(Group Call)

In standby switch the master band to network(C area). Press ⬚ to enter network menu, press 🔼 / 🔽 to select "Group SELECT". Press ⬚ enter, then the screen displays all groups that this ID join. Press 🔼 / 🔽 to select which group you want to join.

Press PTT to transmit meantime, then the group call function is activated.

Incoming Display

Display the caller ID when receiving group call.

## How to Operate

### Member Selection(Group Member Call)

In standby, switch the master band to network(Area C ). Press **MENU** enter network, press **▲** / **▼** to select "MEMBER SELECT". Press **MENU** to display all members of the current group.

Press **▲** / **▼** to select the member.

Press PTT to transmit meantime, then the single call function is activated.

When the master band is on network, hold on PF3 to exit the single call mode.

Remind: a. Single call member selection is only for the online members (Blue characters means online, red characters means offline.)  b. Member selection is only for current group members.

### Friend Selection(Friend Single Call)

In standby, the master band is switched to network(Area C). Press **MENU** to enter network menu, press **▲** / **▼** to select "Friend Select", press **MENU** to confirm, then the screen displays all friends that are added.

Press PTT to transmit meantime, the friend single call is activated.

When the master band is on network, hold on PF3 to exit the friend single call mode.

Remind: Single call member selection is only for the online members (Blue characters means online, red characters means offline.)

## Detailed Instruction for Some Important Functions

**wouxun** Professional FM Transceiver

### 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)

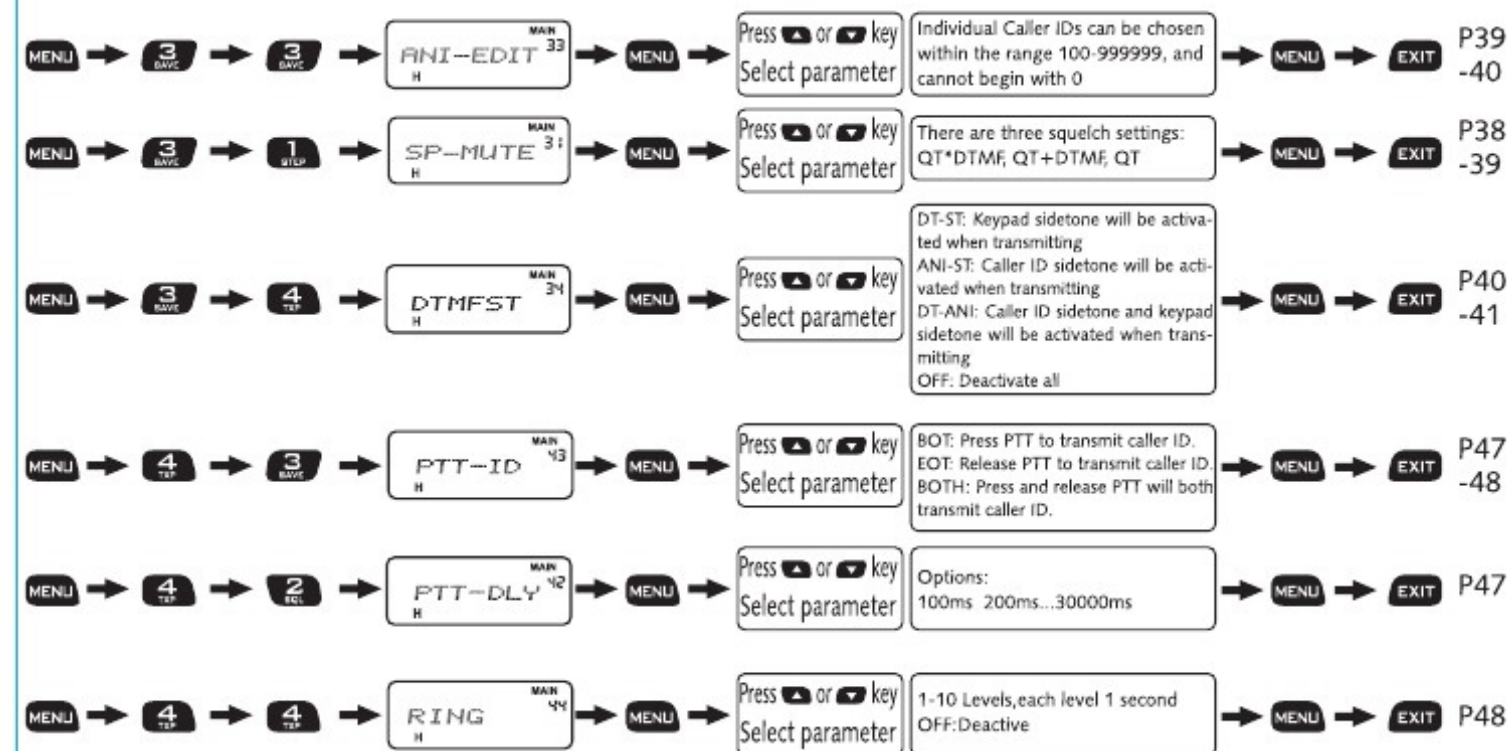| ID | X | XXXXX |
|---|---|---|
| Caller ID CODE mark | Group NO. mark | Unique Caller ID CODE |
| | From 1 to 9 group, Maximum: 9 groups | From 00000~99999, Maximum:1000000 digits |

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:**

MENU ➡ 3 ➡ 3 ➡ ANI-EDIT ➡ MENU ➡ Press ▲ or ▼ key / Select parameter ➡ Individual Caller IDs can be chosen within the range 100-999999, and cannot begin with 0 ➡ MENU ➡ EXIT ➡ P39 -40

MENU ➡ 3 ➡ 1 ➡ SP-MUTE ➡ MENU ➡ Press ▲ or ▼ key / Select parameter ➡ There are three squelch settings: QT*DTMF, QT+DTMF, QT ➡ MENU ➡ EXIT ➡ P38 -39

MENU ➡ 3 ➡ 4 ➡ DTMFST ➡ MENU ➡ Press ▲ or ▼ key / Select parameter ➡ DT-ST: Keypad sidetone will be activated when transmitting / ANI-ST: Caller ID sidetone will be activated when transmitting / DT-ANI: Caller ID sidetone and keypad sidetone will be activated when transmitting / OFF: Deactivate all ➡ MENU ➡ EXIT ➡ P40 -41

MENU ➡ 4 ➡ 3 ➡ PTT-ID ➡ MENU ➡ Press ▲ or ▼ key / Select parameter ➡ BOT: Press PTT to transmit caller ID. / EOT: Release PTT to transmit caller ID. / BOTH: Press and release PTT will both transmit caller ID. ➡ MENU ➡ EXIT ➡ P47 -48

MENU ➡ 4 ➡ 2 ➡ PTT-DLY ➡ MENU ➡ Press ▲ or ▼ key / Select parameter ➡ Options: 100ms 200ms...30000ms ➡ MENU ➡ EXIT ➡ P47

MENU ➡ 4 ➡ 4 ➡ RING ➡ MENU ➡ Press ▲ or ▼ key / Select parameter ➡ 1-10 Levels,each level 1 second / OFF:Deactive ➡ MENU ➡ EXIT ➡ P48

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**NOTE** ⚠

» 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." ✱ + #

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 Ⓦwouxun 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)

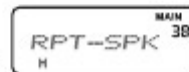When the transceiver is in standby, press MENU + 3 9 keys and the screen displays RPT-PTT
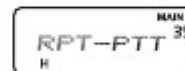
Press MENU to access the settings, and after pressing the ▲ / ▼ keys to activate (ON) the PTT transm-

# Detailed Instruction for Some Important Functions

ission, Press **MENU** to confirm, and press the **EXIT** key to return to standby.

**2.Repeater speaker switch (RPT-SPK)**

When the transceiver is in standby, press **MENU** + **3** **8** keys and the screen will display $\boxed{RPT\text{-}SPK}^{38}$
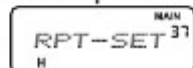
Press **MENU** to access the settings, and after pressing **▲** / **▼** to activate (ON) the speaker, press **MENU** to confirm, and press **EXIT** key to return to standby.

**3.Repeater Setting (RPT-SET)**

Accessing cross-band repeater mode: when the transceiver is in standby, press **MENU** + **3** **7** and the screen will display $\boxed{RPT\text{-}SET}^{37}$

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

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

**4. Repeat Area Setting(RPT-AREA)**

In standby, press **MENU** + **5** **6** , $\boxed{RPT\text{-}AREA}^{56}$

Press **MENU** to confirm, and  to select the repeat area.

AB Repeat: Analogue A area and B area Cross Repeat

AC Repeat: Analogue A area and Network C area Cross Repeat

BC Repeat: Analogue B area and Network C area Cross Repeat

In Standby, please long press key for 2 seconds, transceiver start the cross-band repeat 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.
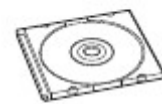
Two-way cross-band repeater mode:In standby, both master and sub areas are receivers, whichever area receives an effective carrier wave signal, the other area will be the transmitter and start transmitting.

## Optional Accessories
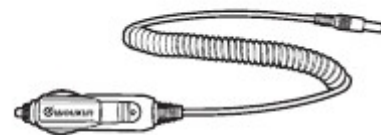


Car Charger

Programming Software
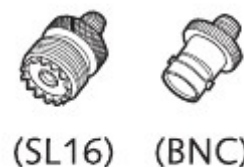
Eliminator

Wireclone Cable

Headset

MIC/Speaker

(SL16)  (BNC)

Antenna Adaptor

## Troubleshooting

Before assuming your transceiver is broken, please check your transceiver according to the following table; if the problem 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.<br>» Please reset CTCSS/DCS to check whether different channels from other group members have been set.<br>» Check whether mute settings are correct. |
| Keypad is unresponsive | » Check whether keypad has been locked.<br>» 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. |
| Signal is weak in Public Network mode. | » location like basement or high building is too weak signal to transmit radio waves or in the network traffic. Should move to the wide places with nice network signal, or avoid to use it in the network peak. |
| RX echo or noise in the network mode. | » The relay link from some mobile network operators is bad. Should resume the radio and might switch to the nice relay link. |

| Fault | Solution |
|---|---|
| Standby time is shorten. | » It might be casused by the system settings from the mobile network operators. The same radio is different standby time using the different systems from different mobile network operators. » Battery is used up, and used in the high or low temperature, battery life might be shorten. » Network connection is failed, so radio is keeping transmitting to search the repeater signals. It is also consuming the battery to shorten the standby time. Should use the radio in the nice network signal area. Should charge the battery in time. Should turn off the radio if the network signal is weak. |
| Network connection is failed. | » USIM card is disable, bad signal or not in the service area. Should use the valid USIM card. Should use the radio in the wide or strong signal areas for communication. |

## *Announcement*

*Ⓦwouxun* endeavors to achieve the accuracy and completeness of this manual, but it is still not perfect for any possible omissions or printing errors. All the above is subject to be updated without prior notice.

KG-V98-0819-V1