WOUXUN®

U.V Dual Band Multifunctional Two-way Radio

U.V
Dual Band
DTMF

Duplex Cross Band Repeater (V-U or U-V)
Same-Band/Cross-Band Simultaneous Reception
Scrambler/Compander

USER'S MANUAL

WOUXUN®

CQC **ISO9001:2015**
Certificate No.:00118Q39964R4M/5100

CQC **ISO14001:2015**
Certificate No.:00118E33425R3M/5100

16.2x11cm

Thanks for buying the **ⓦwouxun** *transceiver.*

This transceiver offers latest design, enhanced features, solid performances and easy accessibility. We believe you will be pleased with the high quality and reliable features for all your communication needs.

READ THIS IMPORTANT INFORMATION ON THE SAFE AND EFFICIENT OPERATION BEFORE USING **ⓦwouxun** PORTABLE TRANSCEIVER.

User Safety, Training, and General Information

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR WOUXUN PORTABLE TWO-WAY RADIO.

Compliance with RF Energy Exposure Standards

Your WOUXUN two-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environment at duty cycles of up to 50% talk-50% listen and should be used for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

NOTE ⚠️

≫ The approved batteries supplied with this radio are rated for a 5-5-90 duty cycle (5% talk-5% listen-90% standby), even though this radio complies with the FCC occupational RF exposure limits at duty cycles of up to 50% talk.

Your WOUXUN two-way radio Complies with the following of RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the occupational/controlled environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

Transmit and Receive

To transmit (talk), push the Push-To-Talk (PTT) button; to receive, release the PTT button.

Hand-held radio operation

Hold the radio in a vertical position with the microphone 5 cm away from the lips and keep the antenna

far away from your head.

Body-worn operation

Always place the radio in an ⊘wouxun approved clip, holder, holster, case, or body harness for this product. Use of non- ⊘wouxun -approved accessories may exceed FCC RF exposure guidelines.

Antennas & Batteries

• Use only ⊘wouxun approved, supplied antenna or ⊘wouxun approved replacement antenna.

• Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.

• Use only ⊘wouxun approved, supplied batteries or ⊘wouxun approved replacement batteries.

• Use of non- ⊘wouxun -approved batteries may exceed FCC RF exposure guidelines.

Approved Accessories

For a list of ⊘wouxun approved accessories,see the accessories page of this user manual or visit the following website which lists approved accessories:http://www.wouxun.com

Notices to the User

• Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.

• Illegal operation is punishable by fine or imprisonment or both.

• Refer service to qualified technicians only.

Warning ⚠

» It is important that the operator is aware of and understand hazards common to the operation of any transceiver. Explosive environment (such as gases, dust, fumes, etc). Turn off your transceiver while talking on fuel, or parking in gasoline servive stations.

» If you require this machine to be developed or get some changes, pleased contact with ⊘wouxun or your ⊘wouxun dealer.

FCC Caution:

This equipment has been testen and found to comply with the part 90 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipent generates, uses and can radiate radio frequency energy and, If the equipment is not installed and used in accordance with the instructions, it may cause harmful interference to radio communicationgs. However, there is no guarantee that interference will not occur in a particlar installation. If this equipment

does carse harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following.

Measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

FCC Licensing Requirements

Your radio must be properly licensed Federal Communications Commission prior to use. Your

ⓌWOUXUN Wireless dealer can assist you in meeting these requirements. Your dealer will program each radio with your authorized frequencies, signaling codes, etc., and will be there to meet your communications needs as your system expands.

Precautions

Only qualified technicians are allowed to maintain this product.

Do not use the radio or charge a battery in explosive areas such as coal gas, dust, steam, etc.

Switch OFF the radio while refueling or parking at a gas station.

Do not modify or adjust this radio without permission.

Do not expose the radio to direct sunlight over a long time, nor place it close to heat source.

Do not place the radio in excessively dusty, humid areas, nor place close to heating appliances.

Safety: It is important that the operator is aware of and understands hazards common to the operation of any radio.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Warning ⚠

≫ MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

CE Caution:

Hereby, **WOUXUN** 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

Ⓦ WOUXUN
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. 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)

2. If you want to remove the batterypack, push down the release latch, and the batterypack will be released from the transceiver. (PIC2)
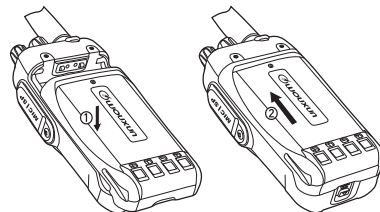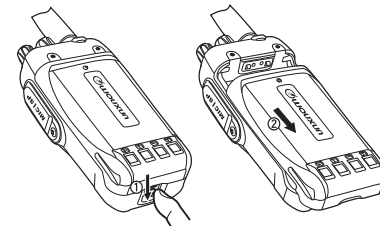
PIC1   PIC2

Description of Features

1. 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)
4. Large Colorful Screen
5. Dual Display
   Dual Band Display on Large Screen, Two Independent Operation System
6. Frequency Offset and Direction Programmable in Repeater Mode
   UHF/VHF or VHF/UHF Cross-Band Repeater
7. 999 Memory Channels
8. QT/DQT Encoding/Decoding, QT/DQT Scan
9. VOX
10. Multi Definition for Sidekeys
11. Incoming Message Display
    Caller ID display
12. DTMF Encoding&Decoding
13. All Calls, Group Calls And Selective Calls
14. 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
26. Compander

Specifications

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

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	≥60dB	Frequency Stability	±2.5ppm	
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.
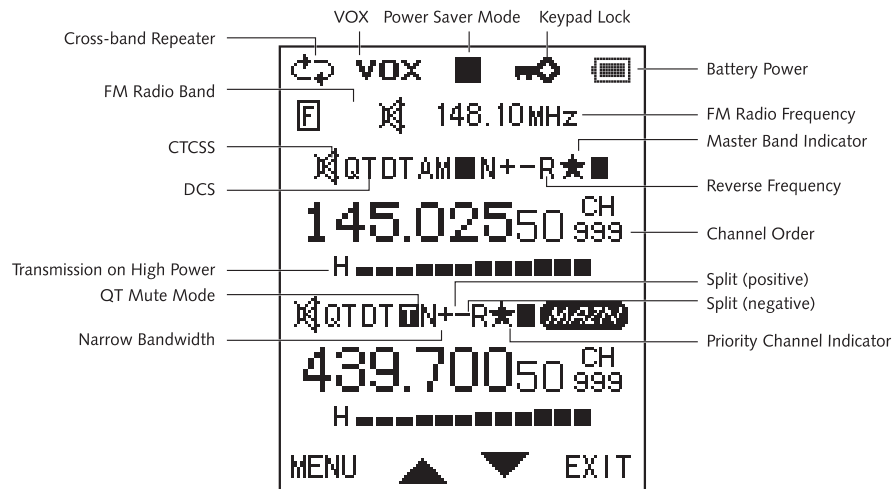
Flashlight

Antenna

Receiving LED (Green)

LCD Display

Function Key

A/B Switch Key on Master Frequency

Short Press: Single/Dual Display Mode
Long Press: Activate/Exit Repeater

Number Keys

Up/Down Keys
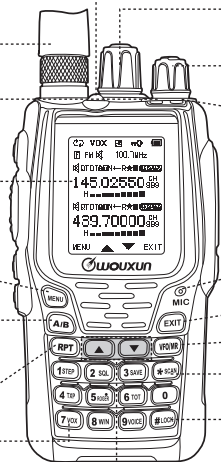
Rotary Encoder

Power/Switch/Volume Control

Transmitting LED (Red)

Speaker (MIC)

Exit Key

VFO/MR Switch Key

Reverse Frequency/Scan Key

Keypad Lock/Stopwatch Key

Sidekey PF1: Selective Call/Sub-
frequency Transmissin Key

PTT (Push-to Talk) Key

Sidekey PF2: Monitor (Long Press)
Flashlight (Short Press)

Sidekey PF3: Scan/Keypad Backlight
/Remote Alarm/SOS/FM Radio
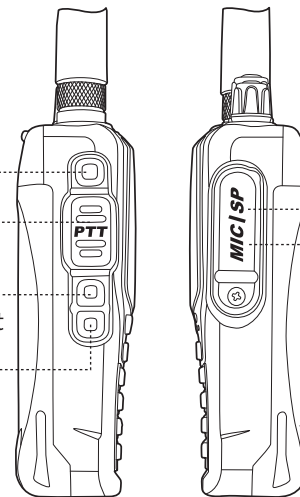
Speaker/Microphone Jacks

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 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".

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 **＊SCAN** to turn on the reverse frequency function; long press **＊SCAN** 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.

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

VFO ➤ MR(Channel NO.) ➤ MR(Frequency+Channel NO.) ➤ MR(Channel Name)
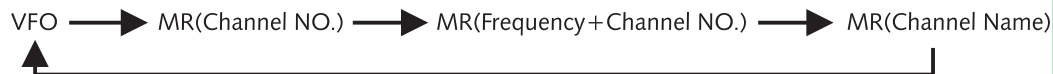
When you set password for switching work mode, press[MENU],LCD screen display [——————], please input the correct password and press[MENU]. If inputting the wrong password, the work mode switch can not be workable. Password only can be programmed via WOUXUN supplied programming software. When the password 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.
2.Powering on target transceiver.
3.Press PF3 of source transceiver, and power on at the same time.
4.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.

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.

Function order	Function name	Enter function set	Screen display	Select parameter	Selectable parameter explanation	Confirm	Return to standby	See page
1 Step Frequency		MENU → 1STEP	STEP (MAIN)	Press ▲ or ▼ key Select parameter	8 frequency steps available: 5k/6.25k/10k/12.5k/50k/100k	MENU	EXIT	P19
2 Squelch Level		MENU → 2SQL	SQL-LE (MAIN 2)	Press ▲ or ▼ key Select parameter	Squelch level from 0 to 9	MENU	EXIT	P19 -20
3 Power Saver Mode		MENU → 3SAVE	SAVE (MAIN 3)	Press ▲ or ▼ key Select parameter	ON:Activate OFF:Deactivate	MENU	EXIT	P20
4 Transmitting Power Selection		MENU → 4TXP	TXP (MAIN 4)	Press ▲ or ▼ key Select parameter		MENU	EXIT	P20 -21
5 Begin/End Transmitting Prompt		MENU → 5ROGER	ROGER (MAIN 5)	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 → 6TOT	TOT (MAIN 6)	Press ▲ or ▼ key Select parameter	TOT has 40 levels in steps of 15 seconds. OFF: Turn off TOT	MENU	EXIT	P21
7 VOX		MENU → 7VOX	VOX (MAIN 7)	Press ▲ or ▼ key Select parameter	VOX has levels from 1 to 9 OFF: Turn off VOX transmission	MENU	EXIT	P22
8 Bandwidth Selection		MENU → 8W/N	WN (MAIN 8)	Press ▲ or ▼ key Select parameter	WIDE: 25KHz NARR: 12.5KHz	MENU	EXIT	P22

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9 Voice Guide	MENU → 9VOICE	VOICE (MAIN 9)	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 → 1STEP → 0	TOA (MAIN 10)	MENU	Press ▲ or ▼ key Select parameter	ON:Activate OFF:Deactivate		MENU → EXIT	P23
11 Beep Prompt	MENU → 1STEP → 1STEP	BEEP (MAIN 11)	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 → 1STEP → 2SQL	LANGUAGE (MAIN 12)	MENU	Press ▲ or ▼ key Select parameter	CHINESE ENGLISH		MENU → EXIT	P24
13 Busy Channel Lockout	MENU → 1STEP → 3SAVE	BCL (MAIN 13)	MENU	Press ▲ or ▼ key Select parameter	ON: Turn on BCL OFF: Turn off BCL		MENU → EXIT	P24
14 Scan Mode	MENU → 1STEP → 4TXP	SC-REV (MAIN 14)	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 → 1STEP → 5ROGER	R-CTC (MAIN 15)	MENU	Press ▲ or ▼ key Select parameter	50 groups CTCSS (67.0Hz-254.1Hz) OFF: Turn off CTCSS		MENU → EXIT	P25
16 Transmitting CTCSS	MENU → 1STEP → 6TOT	T-CTC (MAIN 16)	MENU	Press ▲ or ▼ key Select parameter	50 groups CTCSS (67.0Hz-254.1Hz) OFF: Turn off CTCSS		MENU → EXIT	P26
17 Receiving DCS	MENU → 1STEP → 7VOX	R-DCS (MAIN 17)	MENU	Press ▲ or ▼ key Select parameter	105 groups DCS (D023N-D754I) OFF: Turn off DCS		MENU → EXIT	P26
18 Transmitting DCS	MENU → 1STEP → 8W/N	T-DCS (MAIN 18)	MENU	Press ▲ or ▼ key Select parameter	105 groups DCS (D023N-D754I) OFF: Turn off DCS		EXIT	P26 -28
19 Side Key Setting	MENU → 1STEP → 9VOICE	PF1-KEY (MAIN 19)	MENU	Press ▲ or ▼ key Select parameter	CALL:Selective Call VFTX:Transmission on Sub-frequency		MENU → EXIT	P28

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ωουχυν — Professional FM Transceiver

Step	Flow	Parameter	Page
20 Side Key Setting	MENU → 2 SQL → 0 → PF3-KEY 20 → MENU → Press ▲ or ▼ key / Select parameter	SCAN: Activate scan / LAMP: Turn on Lamp / Tele Alarm: Remote Alarm / SOS-CH: SOS function / RADIO: Turn on FM radio / Disable: Inactive → MENU → EXIT	P29-31
21 Working Mode Switch	MENU → 2 SQL → 1 STEP → CH-MDF 21 → MENU → Press ▲ or ▼ key / Select parameter	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 SQL → 2 SQL → ABR 22 → MENU → Press ▲ or ▼ key / Select parameter	Always ON / 1S-20S: Backlight Timer → MENU → EXIT	P32
23 Offset Frequency	MENU → 2 SQL → 3 SAVE → OFFSET 23 → MENU → Press ▲ or ▼ key / Select parameter	0-599.995MHz → MENU → EXIT	P32
24 Frequency Shift Direction	MENU → 2 SQL → 4 TXP → SFT-D 24 → MENU → Press ▲ or ▼ key / Select parameter	+ Positive direction / - Negative direction / OFF: Turn off frequency shift direction → MENU → EXIT	P33
25 Stopwatch Timer	MENU → 2 SQL → 5 ROGER → SECOND 25 → MENU → Press ▲ or ▼ key / Select parameter	ON: Activate / OFF: Deactivate → MENU → EXIT	P33-34
26 Channel Name Edit	MENU → 2 SQL → 6 TOT → CHNAME 26 → MENU → Press ▲ or ▼ key / Select parameter	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 SQL → 7 VOX → MEM-CH 27 → MENU → Press ▲ or ▼ key / Select parameter	999 channels available → MENU → EXIT	P35-36
28 Channel Delete	MENU → 2 SQL → 8 W/N → DEL-CH 28 → MENU → Press ▲ or ▼ key / Select parameter	999 channels available → MENU → EXIT	P36

Step	Flow	Parameter	Page
29 Scan CTCSS/DCS	MENU → 2 SQL → 9 VOICE → SC-CTC 29 → MENU → Press ▲ or ▼ key / Select parameter	CTCSS / DCS → MENU → EXIT	P37
30 Power-ON Message	MENU → 3 SAVE → 0 → SC-DCS 30 → MENU → Press ▲ or ▼ key / Select parameter	BITMAP: Picture / BATT-V: Votalge → MENU → EXIT	P37-38
31 Mute Settings	MENU → 3 SAVE → 1 STEP → SP-MUTE 31 → MENU → Press ▲ or ▼ key / Select parameter	There are three squelch settings: QT*DTMF, QT+DTMF, QT → MENU → EXIT	P38-39
32 Caller ID Transmission Settings	MENU → 3 SAVE → 2 SQL → ANI-SW 32 → MENU → Press ▲ or ▼ key / Select parameter	ON: Activate / OFF: Deactivate → MENU → EXIT	P39
33 Editing Caller ID	MENU → 3 SAVE → 3 SAVE → ANI-EDIT 33 → 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
34 DTMF Sidetone Settings	MENU → 3 SAVE → 4 TXP → DTMFST 34 → 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
35 Keypad Auto Lock	MENU → 3 SAVE → 5 ROGER → AUTOLK 35 → MENU → Press ▲ or ▼ key / Select parameter	ON: Activate / OFF: Deactivate → MENU → EXIT	P41
36 Priority Channel Switch	MENU → 3 SAVE → 6 TOT → PRICH-SW 36 → MENU → Press ▲ or ▼ key / Select parameter	ON: Activate / OFF: Deactivate → MENU → EXIT	P41-42
37 Repeater Settings	MENU → 3 SAVE → 7 VOX → RPT-SET 37 → MENU → Press ▲ or ▼ key / Select parameter	X-DIRPT: Directional cross band repeat / X-TWRPT: Two-way cross band repeat → MENU → EXIT	P42-45

Function	Key Sequence	Display	Parameters	Page
38 Repeater Speaker Switch	MENU → 3SAVE → 8W/N → (RPT-SPK 38) → MENU → Press ▲ or ▼ key, Select parameter	RPT-SPK 38	ON: Speaker is activate when repeating / OFF: Speaker is deactivate when repeating → MENU → EXIT	P46
39 Repeater PTT Switch	MENU → 3SAVE → 9VOICE → (RPT-PTT 39) → MENU → Press ▲ or ▼ key, Select parameter	RPT-PTT 39	ON: PTT transmission activated when repeating / OFF: PTT transmission blocked when repeating → MENU → EXIT	P46
40 Scan Add	MENU → 4TXP → 0 → (SCAN-ADD 40) → MENU → Press ▲ or ▼ key, Select parameter	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 → MENU → EXIT	P46
41 Single-Tone Pulse Frequency	MENU → 4TXP → 1STEP → (ALERT 41) → MENU → Press ▲ or ▼ key, Select parameter	ALERT 41	There are 4 single-tone pulse frequency options:1750; 2100; 1000; 1450 → MENU → EXIT	P47
42 PTT ID Delay	MENU → 4TXP → 2SQL → (PTT-DLY 42) → MENU → Press ▲ or ▼ key, Select parameter	PTT-DLY 42	Options: 100ms 200ms...30000ms → MENU → EXIT	P47
43 Caller ID Transmission Mode	MENU → 4TXP → 3SAVE → (PTT-ID 43) → MENU → Press ▲ or ▼ key, Select parameter	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. → MENU → EXIT	P47-48
44 Ring Time	MENU → 4TXP → 4TXP → (RING 44) → MENU → Press ▲ or ▼ key, Select parameter	RING 44	1-10 Levels:each level 1 second / OFF:Deactivate → MENU → EXIT	P48
45 Scan Channel Group NO. of A Area	MENU → 4TXP → 5ROGER → (SCG-A 45) → MENU → Press ▲ or ▼ key, Select parameter	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 → MENU → EXIT	P48
46 Scan channel Group NO. of B Area	MENU → 4TXP → 6TOT → (SCG-B 46) → MENU → Press ▲ or ▼ key, Select parameter	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 → MENU → EXIT	P49
47 Repeater Receipt Tone	MENU → 4TXP → 7VOX → (RPT-TONE 47) → MENU → Press ▲ or ▼ key, Select parameter	RPT-TONE 47	ON: Activate / OFF: Deactivate → MENU → EXIT	P49
48 Saving Scan Mode	MENU → 4TXP → 8W/N → (SC-QT 48) → MENU → Press ▲ or ▼ key, Select parameter	SC-QT 48	ALL: Save both RX and TX CTCSS/DCS / DEC: Save RX CTCSS/DCS / NEC: Save TX CTCSS/DCS → MENU → EXIT	P49-50
49 Setting Sub-Frequency Mute	MENU → 4TXP → 9VOICE → (SMUTESET 49) → MENU → Press ▲ or ▼ key, Select parameter	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 → MENU → EXIT	P50
50 Selective Call Code Group Setting	MENU → 5ROGER → 0 → (CALLCODE 50) → MENU → Press ▲ or ▼ key, Select parameter	CALLCODE 50	Selective call group:1-20 → MENU → EXIT	P51
51 Reset Setting	MENU → 5ROGER → 1STEP → (RESET 51) → MENU → Press ▲ or ▼ key, Select parameter	RESET 51	VFO: Reset menu functional parameters / ALL: Reset all (menu & channel) functional paramenters → MENU → EXIT	P51
52 Setting for Backlight	MENU → 5ROGER → 2SQL → (BACKLIGHT 52) → MENU → Press ▲ or ▼ key, Select parameter	BACKLIGHT 52	Backlight: 01 to 10 groups → MENU → EXIT	P51
53 Radio-WR	MENU → 5ROGER → 3SAVE → (RADIO-WR 53) → MENU → Press ▲ or ▼ key, Select parameter	RADIO-WR 53	Read Radio Station: 01-20 Groups / Write Radio Station: 01-20 Groups → MENU → EXIT	P51
54 Scramber	MENU → 5ROGER → 4TXP → (SCRAMBER 54) → MENU → Press ▲ or ▼ key, Select parameter	SCRAMBER 54	Scrambler: 1-8 groups / OFF: Turn off → MENU → EXIT	P51
55 Compander	MENU → 5ROGER → 5ROGER → (COMPANDE 55) → MENU → Press ▲ or ▼ B key, Select parameter	COMPANDE 55	ON: Turn on / OFF: Turn off → MENU → EXIT	P51

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

In standby, press MENU + 1STEP , the screen displays [STEP MAIN]

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 + 2SQL , the screen displays [SQL-LE MAIN]

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 + 3SAVE , the screen displays [SAVE MAIN]

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 + 4TXP , the screen displays [TXP MAIN]

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.

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Transmssion Prompt settings (ROGER) --- Menu 5

When the transceiver is standby,press the [MENU] + [5 ROGER] keys and the screen will display: [ROGER]
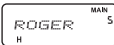
Press the key to access the menu, and after pressing the [▲] / [▼] keys to choose the required prompt mode, press the [MENU] key to to confirm, or the [EXIT] key to retum to standby.

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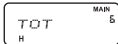
Press [MENU] to enter, press [▲] / [▼] to select the desired timer level, then press [MENU] to confirm, finally press [EXIT] to return to standby.

VOX (VOX) --- MENU 7

In standby, press [MENU] + [7 VOX] , the screen displays [VOX]
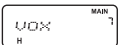
Press [MENU] to enter, press [▲] / [▼] to select VOX level(1-9), then press [MENU] to confirm, finally press [EXIT] to return to standby.

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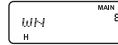
Press [MENU] to enter, it shows 'WIDE', press [▲] / [▼] to select WIDE/NARROW bandwidth, then press [MENU] to confirm, finally press [EXIT] to return to standby.

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

Voice Guide (VOICE) --- MENU 9

In standby, press [MENU] + [9 VOICE] , 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 + 1STEP 0 , the screen displays TOA MAIN 10 H

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 + 1STEP 1STEP , the screen displays BEEP MAIN 11 H

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 + 1STEP 2SQL , the screen display LANGUAGE MAIN 12 H

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 + 1STEP 3SAVE , the screen displays BCL MAIN 13 H

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 + 1STEP 4TXP , keys and the screen will display SC-REV MAIN 14 H

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 retum 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 [✱SCAN] for 2 seconds to access the scan mode.

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

When the transceiver in standby. press the [MENU] + [1STEP] [5ROGER] keys and the screen will display

Press the [MENU] key to access the menu,and after pressing the [▲] / [▼] key to select the CTCSS you desire, press the [EXIT] key to retum 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 [MENU]+ [1STEP] [6TOT] keys and the screen will display

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 retum 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]+ [1STEP] [7VOX] keys and the screen will display

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 retum 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]+ [1STEP] [8W/N] keys and the screen will display

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 retum 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 + 1STEP 9VOICE kthe screen displays PF1-KEY

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 SQL 0 the screen displays PF3-KEY 20 MAIN 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.

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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 76.0MHZ MAIN H , press ✳ SCAN 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 MAIN H , hold on RPT for 2 seconds, the screen displays ----MHZ MAIN H .It is OK to input the FM radio frequency.

C. Exit FM radio
Press PF3 again to exit FM radio function.

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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 SQL 1 STEP , the screen display `CH-MDF MAIN 21`

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 SQL 2 SQL , 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 SQL 3 SAVE 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 SQL] [4 TXP] , The screen display [SFT-D MAIN 24 H]

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 SQL] [5 ROGER] , The screen display [SECOND MAIN 25 H]

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 [#LOCK] to start counting, while press any key to stop working . Press [#LOCK] again to re-start counting.

> **NOTE** ⚠️
>
> ≫ Press any key (except [#LOCK]) 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 [MENU] + [2 SQL] [6 TOT] keys and the screen will display [CHNAME MAIN 26 H]

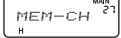Press [MENU] to access the menu, and the first digit will flash (which indicates that this digit is being edited).

Press [▲] to choose the required character, press [▼] to edit the next character, press [MENU] to confirm, and then press [EXIT] 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 `MENU` + `2 SQL` `7 VOX` , the screen displays `MEM-CH MAIN 27 H`

Press `MENU` to access the menu, press `▲` / `▼` to select the desired channel order, and then press `MENU` to memorize with a voice prompt. Press `EXIT` 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 `MENU` + `1 STEP` `5 ROGER` to access receiving CTCSS/DCS setting, press `▲` / `▼` to select 67.0Hz, press `MENU` to confirm.

2. Press `MENU` + `2 SQL` `3 SAVE` to select the offset frequency is 10.000MHz, press `MENU` + `2 SQL` `4 TXP` to set the frequency direction as "+".

3. Press `MENU` + `2 SQL` `7 VOX` to access channel memory, select CH-010 and press `MENU` to memorize the channel

and return to standby.

In standby, press `MENU` + `2 SQL` `7 VOX` to access channel memory, the screen displays `CH-001 MAIN H` , 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 SQL` `8 WIN` , the screen will display `DEL-CH MAIN 28 H`

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 SQL 9 VOICE , screen displays `SC-CTC MAIN 29 H` 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 ＊SCAN to continue to scan the next frequencies or channels if not needed.

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

In Standby, press MENU + 3 SAVE 0 , the screen displays `SC-DCS MAIN 30 H`

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 SAVE 1 STEP , the screen displays `SP-MUTE MAIN 31 H`

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 SAVE 2 SQL , The screen display $ANI-SW$ ᴹᴬⁱᴺ 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 SAVE 3 SAVE , the screen displays $ANI-EDIT$ ᴹᴬⁱᴺ 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 SAVE 3 SAVE , the screen displays $ANI-EDIT$ ᴹᴬⁱᴺ 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)

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In standby, press MENU + 3 SAVE 3 SAVE , 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 SAVE 4 TXP , 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.

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Keypad Autolock (AUTOLOCK) --- MENU 35

In standby, press `MENU` + `3 SAVE` `5 ROGER` , the screen displays `AUTOLK MAIN 35 H`

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 `# LOCK` for 2seconds to unlock the keypad.

NOTE ⚠

> » Manually lock:In standby, hold on `# LOCK` for 2seconds to lock the keypad, hold on `# LOCK` for 2 seconds again to unlock the keypad.
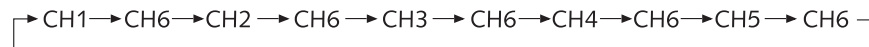
Priority Channel Switch (PRI CH-SW) --- MENU 36

In standby, press `MENU` + `3 SAVE` `6 TOT` , the screen display `PRICH-SW MAIN 36 H`

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:

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

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 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 + 3SAVE 7VOX the screen displays RPT-SET 31 MAIN H

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 + 3SAVE 8W/N , the screen display RPT-SPK 38 MAIN H

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 + 3SAVE 9VOICE , the screen display RPT-PTT 39 MAIN H

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 + 4TXP 0 , the screen display SCAN-ADD 40 MAIN H

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 TXP 1 STEP , 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 TXP 2 SQL , 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 TXP 3 SAVE , 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 TXP 4 TXP , the screen display ⌊RING ⁴⁴⌋

Press MENU to access, press ▲ / ▼ to select the parameter you want. And then press 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 TXP 5 ROGER , the screen displays ⌊SCG-A 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 TXP] [6 TOT] , the screen displays [SCG-B MAIN 46 H] .

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 TXP] [7 VOX] , the screen display [RPT-TONE MAIN 47 H]

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 TXP] [8 WN] keys and the screen will display [SC-QT MAIN 48 H]

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 TXP] [9 VOICE] , the screen displays [SMUTESET MAIN 49 H]

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 + 5ROGER 0 , the screen displays `CALLCODE⁵⁰ H`

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 + 5ROGER 1STEP , the screen displays `RESET ⁵¹ H`

Press MENU to access, press ▲ / ▼ to select the parameter you desire and then press MENU to confirm. The screen will display `WAIT···· ⁴⁷ H`

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

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

In standby, press MENU + 5ROGER 2SQL , screen display `BACKLIGHT ⁵² H`

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 + 5ROGER 3SAVE , screen display `RADIO-WR ⁵³ H`

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 ROGER 4 TXP , screen display SCRAMBER MAIN 54 H

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 ROGER 5 ROGER , screen display COMPANDE MAIN 55 H

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.

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.

Steps are as followings:

MENU → 3 SAVE → 3 SAVE → `ANI-EDIT MAIN 33 H` → 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 SAVE → 1 STEP → `SP-MUTE MAIN 31 H` → MENU → Press ▲ or ▼ key Select parameter → There are three squelch settings: QT*DTMF, QT+DTMF, QT → MENU → EXIT → P38 -39

MENU → 3 SAVE → 4 TXP → `DTMFST MAIN 34 H` → 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 TXP → 3 SAVE → `PTT-ID MAIN 43 H` → 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 TXP → 2 SQL → `PTT-DLY MAIN 42 H` → MENU → Press ▲ or ▼ key Select parameter → Options: 100ms 200ms...30000ms → MENU → EXIT → P47

MENU → 4 TXP → 4 TXP → `RING MAIN 44 H` → MENU → Press ▲ or ▼ key Select parameter → 1-10 Levels,each level 1 second OFF:Deactive → MENU → EXIT → P48

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 ✱SCAN + #LOCK keys directly.

b. How to use group calls function:

Hold on PTT key to transmit.After transmitting Caller ID Code, input "Group NO." ✱SCAN + #LOCK

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 SAVE 9 VOICE keys and the screen displays `RPT-PTT MAIN 39 H`

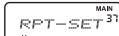Press MENU to access the settings, and after pressing the ▲ / ▼ keys to activate (ON) the PTT transm-

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 SAVE 8 WIN keys and the screen will display `RPT-SPK 38`

Press MENU to access the settings, and after pressing ▲ / ▼ to activate (ON) the speaker, press 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 SAVE 7 VOX and the screen will display `RPT-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.

(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.

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. » 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.

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.

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