

wouxun ET003 Two Way Radio User Manual

TWO-WAY RADIO(Amateur Radio)
USER'S MANUAL

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ET003 Two Way Radio

http://www.wouxun.com

Warranty Register	Security-cord	Review Transter
https://www.wouxun.com/Service/WarrantyCard.aspx	https://www.wouxun.com/security-code.aspx	https://www.wouxun.com/bundle/point.aspx

Installing before use

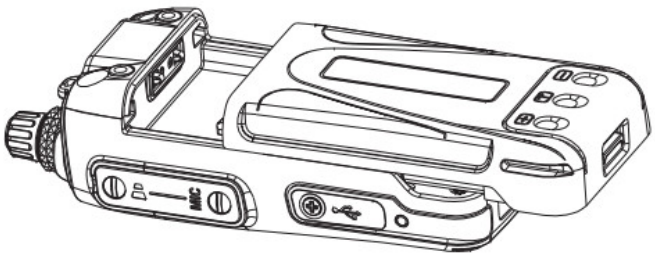
• Install / remove batterypack

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

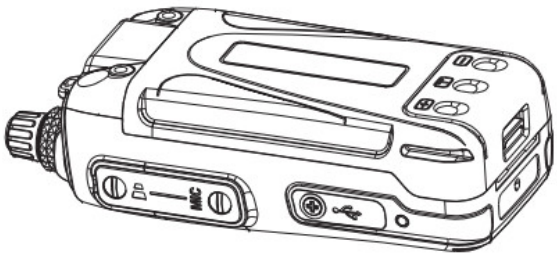
NOTE

- 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



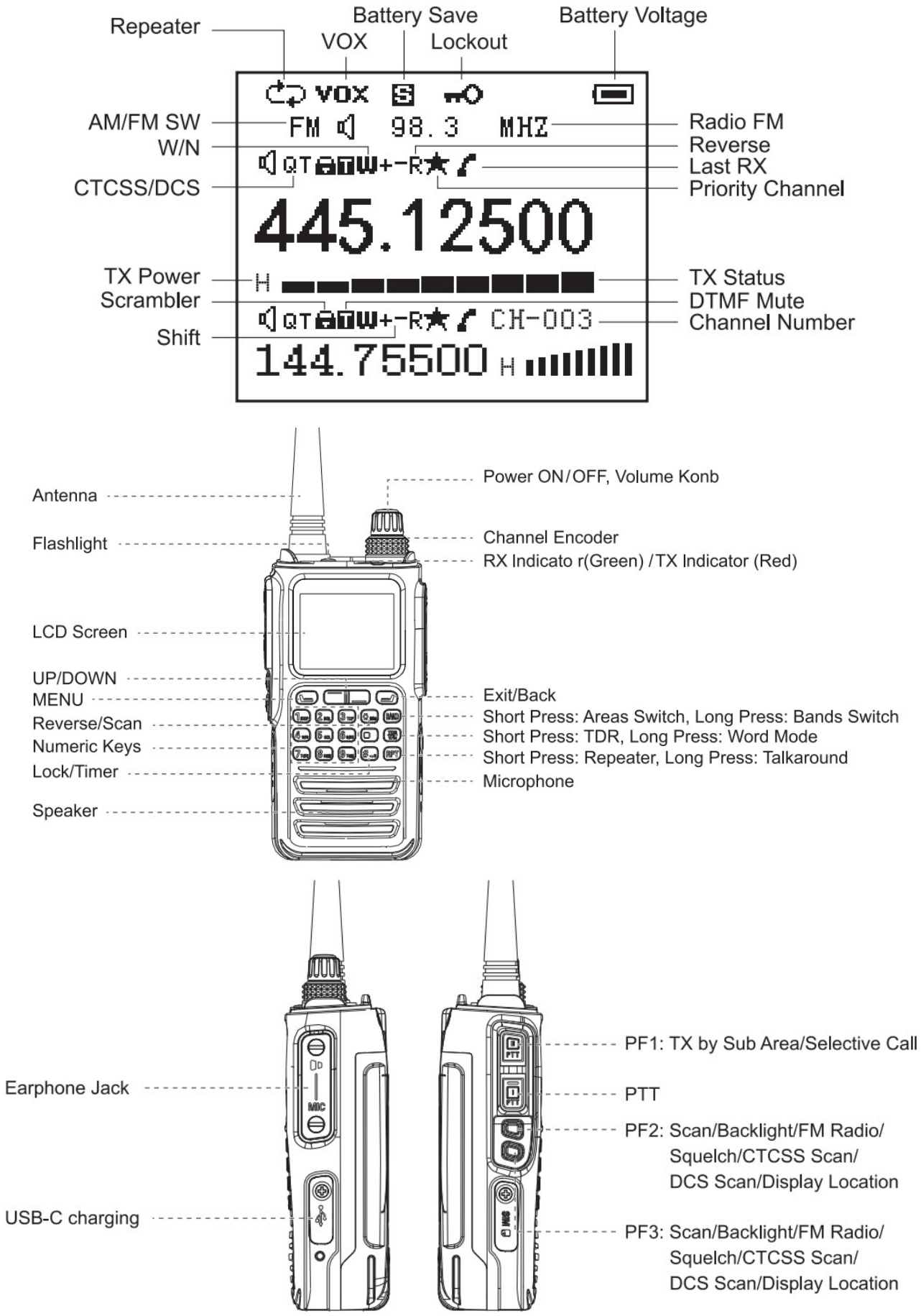
PIC2

Getting Started

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.



Description for main functions

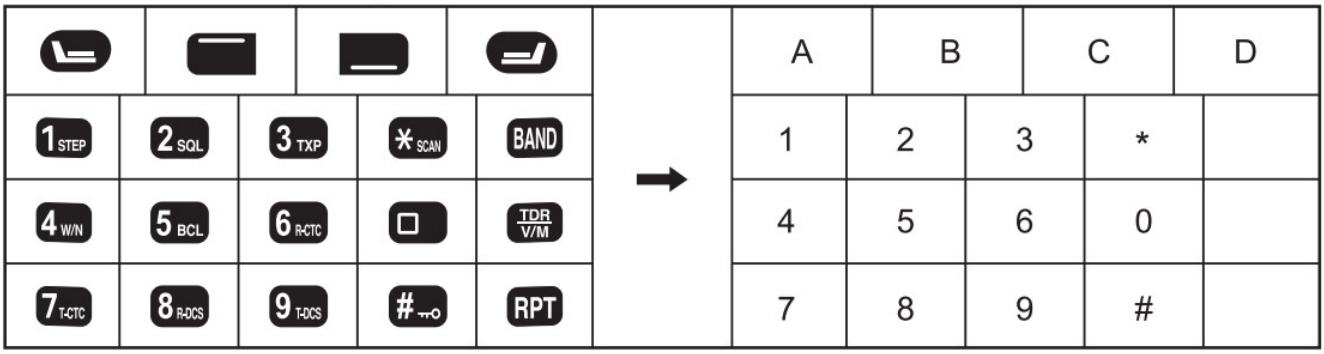
Operaitng Frequency:
VHF Receiving: 50-54MHz, 108-174.9975MHz, 222-225MHz
UHF Receiving: 320-479.9975MHz, 714-824MHz, 849-869MHz, 894-999.9975MHz

Scanning: 50-824MHz, 849-869MHz, 894-960MHz
FM:76-108MHz
VHF Transmit:50-54MHz, 144-148MHz, 222-225MHz
UHF Transmit:430-450MHz
Multi Modes

1. Two-Way Mode
2. Cross-Band Directional Repeater Mode or Cross-Band Two-Way Repeater Mode
   Remark: Please make the above settings by RPT button.
   1) This device is dual display for two areas which are separate display for both work modes. The message on the main area will be amplified display, while the message on the sub area will be reduced display instead.
   2) Please make the separate settings for both work modes. Please switch it to main area before settings.
   3) Some functions are disable when Cross-Band Directional Repeater Mode or Cross- Band Two-Way Repeater Mode.

Basic Operations

1. Quick Search
   Short press [▲] or [▼] every time is possible to search one of the settings or options, while long press [▲] or [▼] is possible to quickly search the settings or options.
2. MENU Short press MENU is possible to enter into the sub menu (for main area or sub area) for settings, while long press MENU is possible to enter into the main menu (for whole transceiver) for settings.
3. BAND Short press BAND is possible to switch the main area and sub area, while long press BAND is possible to switch the bands for this transceiver.
4. TDR V/M Short press TDR V/M is possible to switch the single display and dual display, while long press TDR V/M is possible to switch the work modes like Frequency, CH-Name, CH-Number, CH-Frequency.
5. RPT Short press RPT is possible to switch the Two-Way Radio Mode and Repeater Mode, while long press RPT is possible to select talkearound and repeater functions.
6. * SCAN Short press * SCAN is possible to activate the reverse function, while long press * SCAN is possible to activate scan function.
7. # Short press # is possible to activate the timer function, while long press # is possible to activate keypad locking function.
8. DTMF Press the numeric keys or functional buttons when the device is transmitting, then it sends out the DTMF tones. Please check the layout below,



9. Intelligent Charger
   It voice prompts" low voltage"when the batterypack is in the low status, and there is" DI"sound every 5 seconds.

1) Please connect the intelligent charger to the power (AC :90-240V) , the red LED flashes once and it gets ready for charging.

2) Please insert the batteries into the intelligent charger, the red LED keeps flickering and it is being charged. It is full charged when green LED is ON.

⚠ NOTE

>> It starts the trickle-charge at the first beginning of charger if the battery was running out. The red LED turns on during being charged. And it changes to green when full charged.

>> The trickle-charge is helping to protect the battery life.

10. USB-C charging

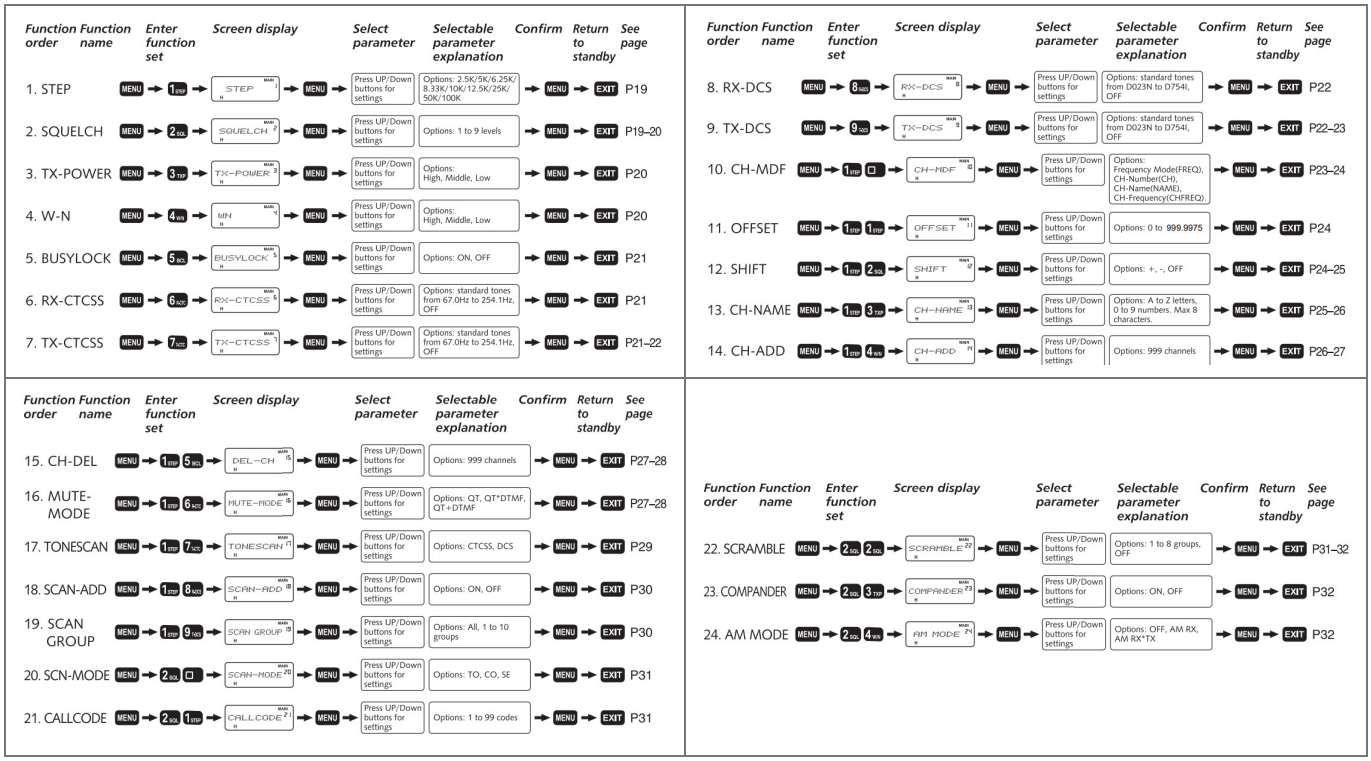
The radio also supports the USB-C charging. When charging by USB-C, the red LED on the USB port at the right side of the radio is ON. (It displays the charging status if the radio is powered on during being charged.)

⚠ NOTE

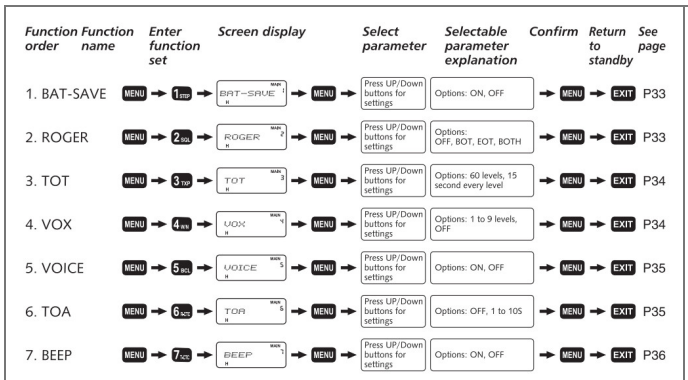
>> Voltage for USB-C charging is 5V 2A.

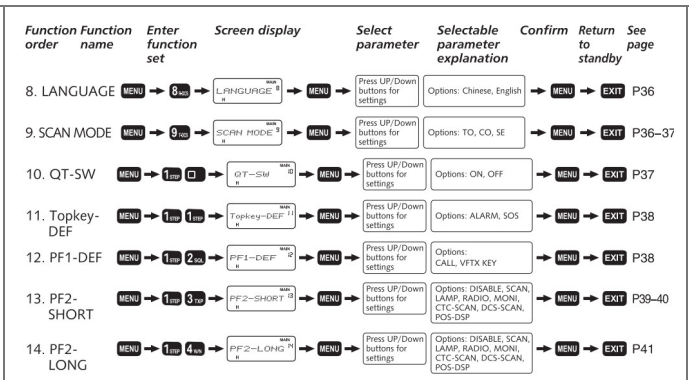
Description for menu Options

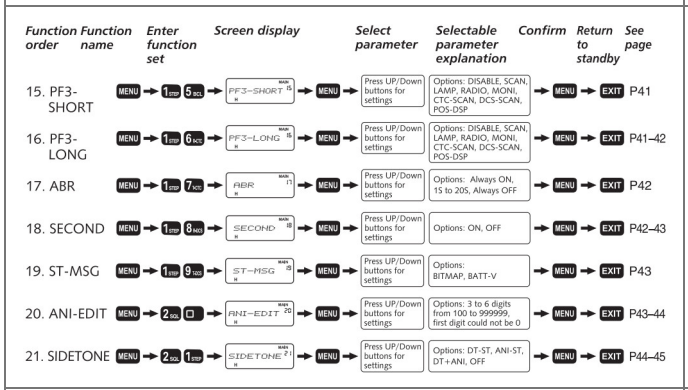
Sub Menu Options (short press MENU)

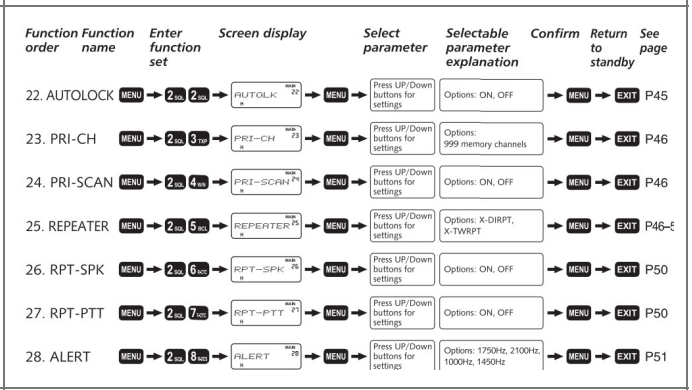


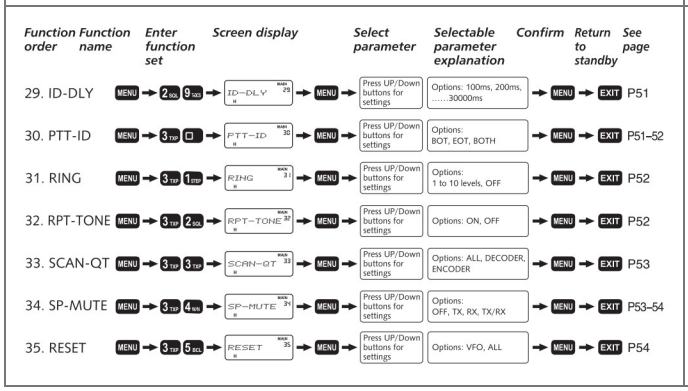
Sub Menu Options (long press MENU)

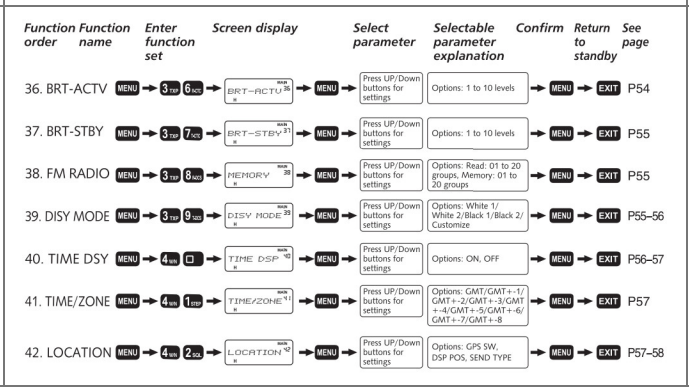












Instructions for functions list

Functions list under Sub Menu (Short Press (MENU button)

Frequency Step (STEP) —- MENU 1

In standby, press MENU + 1STEP, 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: 12.50KHz 25.00KHz ‘

Squelch Setting- (SQUELCH) —- 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 SQUELCH

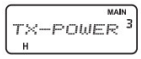
Press MENU to enter, press ▲ / ▼ to select the desired squelch level, then press MENU to confirm, finally

press EXIT to return to standby.

NOTE

- The squelch level for this transceiver has 0-9 levels selectable, and level O means turn off the squelch function. The higher level of the squelch is set, the stronger receiving signal is needed.

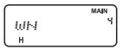
Transmitting Power Selection (TX-POWER) —- MENU 3

In standby, press MENU → 3 TXP →, display 

Press MENU to confirm, and press ▲ / ▼ to select the power level then press MENU to confirm, and press EXIT to back to standby.

Options: High, Middle, Low

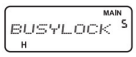
Bandwidth (W-N) —- MENU 4

In standby, press MENU + 4 W/N, the screen displays 

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

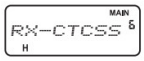
Busy Channel Lockout (BUSYLOCK) —- MENU 5

In frequency mode, press MENU + 5 BCL, the screen displays 

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.

Receiving CTCSS (RX-CTCSS) —- MENU 6

When the transceiver is standby, press the MENU + 6 TOT 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

Non-Standard CTCSS is ranging from 65.0 to 260.0Hz

Transmitting CTCSS (TX-CTCSS) —- MENU 7

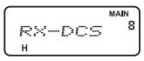
When the transceiver is standby, press the MENU + 7 T-CTC keys and the screen will display 

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

Non-Standard CTCSS is ranging from 65.0 to 260.0Hz

Receiving DCS (RX-DCS) —- MENU 8

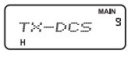
When the transceiver is standby, press the MENU + 8 W/N keys and the screen will display 

Press the key to access the menu, and after pressing the (3B / @&# key to select the DCS you desire, press the MQ key to confirm, and press the key to retum to standby.

DCS: 105 groups of positive code, 105 groups of negative code, ranging from DO23N to D754I.

OFF: Deactivate.

Transmitting DCS (TX-DCS) —- MENU 9 .

When the transceiver is standby, press the MENU + 9 T-DCS 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.

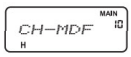
Non-standard DCS is configured by three numbers from 001 to 777 excluded 8 or 9. For example, 680.719 is illegal non-standard DCS tone.

Please press # to select the positive or negative codes, and press * SCAN to turn off the DCS tone.

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	72.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.8	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													
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
X15	D073N	30	D162N	45	D255N	60	D351N	75	D455N	90	D624N	105	D754N

Work Modes (CH-MDF) —- MENU 10

In standby, press MENU + 1 STEP, screen displays 

Press MENU to confirm, and press ▲ / ▼ to select the work mode then press MENU to confirm, and press EXIT to back to standby.

Options: FREQ, CH, CHFREQ, NAME

⚠ **NOTE**

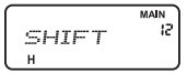
- It supports to program password to switch the work mode.
- The password is invalid if the password is configured by six O (it means there is no password needed) , otherwise, the password is working.

Offset Frequency (OFFSET) —- MENU 11

In standby, press (MENU + 1 STEP 1 STEP and the screen display 

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 frequenc y range: 0-999.9975 MHz, The 7th and 8th frequency point depends on the programmed step frequency.

Shift Direction (SHIFT) —- MENU 12

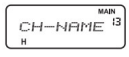
In standby, press MENU + 1 STEP 2 SQL, The screen display 

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**

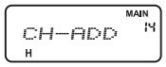
- When offset frequency is out of the allowed offset frequency range, the transceiver can not transmit. In this case, please make sure the offset frequency and receiving frequency is within the allowed range.

Channel Name Edit (CH-NAME) —- MENU 13
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 + 1 STEP 3 TXP keys and the screen will display 

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-NAMEI!”

Channel Adding (CH-ADD) —- MENU 14

In channel mode or standby, press MENU + 1 STEP 4 W/N . the screen displays 

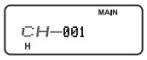
Press MENU to access the menu, press ▲ / ▼ to select the desired channel order, and then press MENU to memorize with a voice prompt. Press EXIT to return to standby.
When the transceiver is in channel(MR) mode, the parameters(except channel name and scan adding) will be memorized into the channel.

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 + 6 R-CTC to access receiving CTCSS/DCS setting, press ▲ / ▼ to select 67.0Hz, press MENU to confirm.
2. Press MENU + 1 STEP 1 STEP to select the offset frequency is 10.000MHz, press MENU + 1 STEP 2 SQL to set the frequency direction as “+”.
3. Press MENU + 1 STEP 4 W/N to access channel memory, select CH-010 and press MENU to memorize the channel and return to standby.

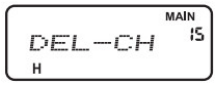
In standby, press MENU + 1 STEP 4 W/N to access channel memory, the screen displays 

, 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.

Channel Delete (DEL-CH) —- MENU 15

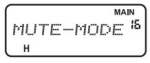
In standby, press MENU + 1 STEP 5 BCL the screen will display 

Press MENU to access the menu, press ▲ / ▼ to select the channel you wish to delete or manually in putting the channel number, press EXIT to confirm and the key to return to standby.

Special Reminder

- 1st channel can not be deleted.
- When the selected channel is empty (without any parameter), the color of the channel number is white, while the selected channel is with the memorized parameters, the color of the channel number is purple.

Mute Mode (MUTE-MODE) —- MENU 16

In standby, press MENU + 1 STEP 6 R-CTC the screen displays 

Press MENU to access the menu, and after pressing ▲ / ▼ Mto 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.

Scanning Tone (TONESCAN) —- MENU 17

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 + 1 STEP 7 T-CTC , screen displays 

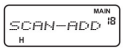
Select CTCSS or DCS, then Press MENU to confirm and start the scan.

⚠ **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.

Scan Adding (SCAN-ADD) —- MENU 18

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 + 1 STEP 8 R-DCS the screen display 

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.

Scan Group (SCAN GROUP) —- MENU 19

The scan group settings are the way that a transceiver can divide the programming channels into different scan groups.

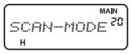
Scan group settings are: ALL channel, as well as 1-10 individual scanning groups.

In standby, press MENU + 1 STEP 9 T-DCS , the screen displays 

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

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

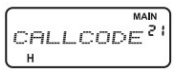
Scan Mode (SCAN-MODE) —- MENU 20

When the transceiver is standby, press the MENU + 2 SQL □ , keys and the screen will display 

Press the MENU key to access the menu, and after pressing the ▲ / ▼ keys to select the required setting, press the MENU key to confirm, and the EXIT key to retum to standby

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

Call Code (CALLCODE) —- MENU 21

In standby, press MENU + 2 SQL 1 STEP , the screen displays 

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 0-99 groups for option. Selective call codes are programmed via supplied software.

Scrambler (SCRAMBLE) —- MENU 22

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

In standby, press MENU + 2 SQL 2 SQL . screen display 

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) —- MENU 23

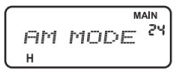
This is for decreasing the voice squelch, and it is highly efficient for long-term communication.

In standby, press MENU + 2 SQL 4 W/N, screen display 

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.

AM Mode SW (AM MODE) —- MENU 24

In standby, press MENU + 2 SQL 4 W/N, screen displays 

Press MENU to confirm, and press ▲ / ▼ to select the work mode then press MENU to confirm, and press EXIT to back to standby.

NOTE

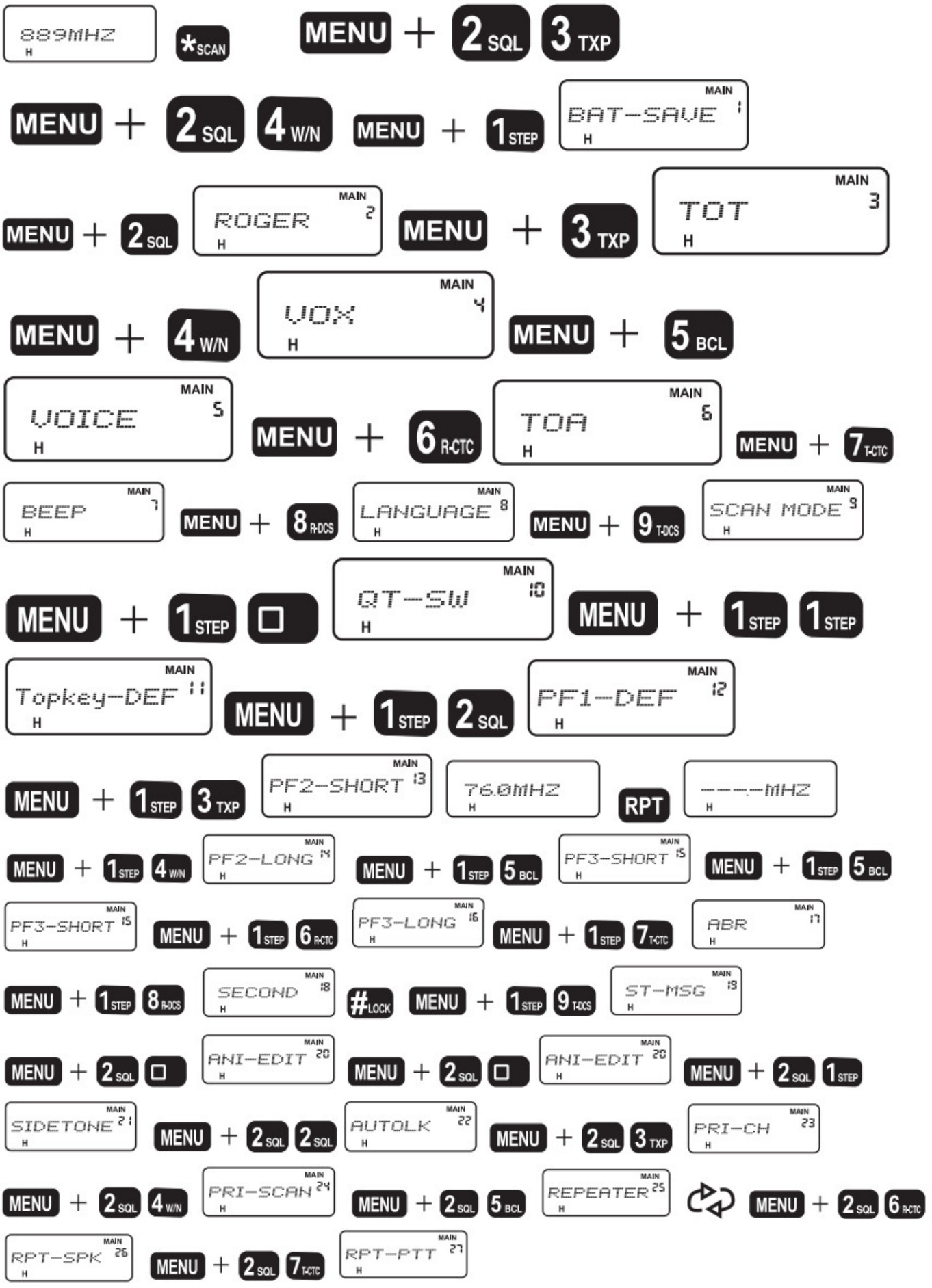
» AM mode is only working in A area.

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32 ok

⚠ ▼▲ MENU BAND TDR V/M RPT * SCAN # ▲ / ▼ EXIT

WOUXUN 1 STEP 2 SQL ▲ ▼


889MHZ
H
*SCAN
MENU + 2 SQL 3 TXP
MENU + 2 SQL 4 W/N
MENU + 1 STEP
MAIN 1
BAT-SAVE
H
MENU + 2 SQL
MAIN 2
ROGER
H
MENU + 3 TXP
MAIN 3
TOT
H
MENU + 4 W/N
MAIN 4
VOX
H
MENU + 5 BCL
MAIN 5
VOICE
H
MENU + 6 R-CTC
MAIN 6
TOA
H
MENU + 7 T-CTC
MAIN 7
BEEP
H
MENU + 8 R-DCS
MAIN 8
LANGUAGE
H
MENU + 9 T-DCS
MAIN 9
SCAN MODE
H
MENU + 1 STEP
MAIN 10
QT-SW
H
MENU + 1 STEP 1 STEP
MAIN 11
Topkey-DEF
H
MENU + 1 STEP 2 SQL
MAIN 12
PF1-DEF
H
MENU + 1 STEP 3 TXP
MAIN 13
PF2-SHORT
H
76.0MHZ
H
RPT
---.-MHZ
H
MENU + 1 STEP 4 W/N
MAIN 14
PF2-LONG
H
MENU + 1 STEP 5 BCL
MAIN 15
PF3-SHORT
H
MENU + 1 STEP 5 BCL
MAIN 15
PF3-SHORT
H
MENU + 1 STEP 6 R-CTC
MAIN 16
PF3-LONG
H
MENU + 1 STEP 7 T-CTC
MAIN 17
ABR
H
MENU + 1 STEP 8 R-DCS
MAIN 18
SECOND
H
#LOCK
MENU + 1 STEP 9 T-DCS
MAIN 19
ST-MSG
H
MENU + 2 SQL
MAIN 20
ANI-EDIT
H
MENU + 2 SQL
MAIN 20
ANI-EDIT
H
MENU + 2 SQL 1 STEP
MAIN 21
SIDETONE
H
MENU + 2 SQL 2 SQL
MAIN 22
AUTOLK
H
MENU + 2 SQL 3 TXP
MAIN 23
PRI-CH
H
MENU + 2 SQL 4 W/N
MAIN 24
PRI-SCAN
H
MENU + 2 SQL 5 BCL
MAIN 25
REPEATER
H
MENU + 2 SQL 6 R-CTC
MAIN 26
RPT-SPK
H
MENU + 2 SQL 7 T-CTC
MAIN 27
RPT-PTT
H

Documents / Resources

	wouxun ET003 Two Way Radio [pdf] User Manual ET003 Two Way Radio, ET003, Two Way Radio, Way Radio, Radio

References

- User Manual

Manuals+,