AnyTone®

5888UV III

TRI-BAND FM TRANSCEIVER

USER'S MANUAL

Nice Housing, Stoutness & Stability, Advanced and Reliable functions, Perfect & Valuable. CE RoHS COMPLIANT Approval. TRI Band mobile radio especially designs for drivers and it pursues company philosophy of innovation and practicality.

Precautions

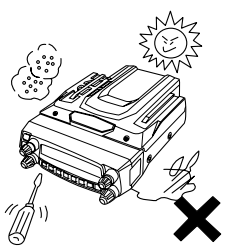
Please observe the following precautions to prevent fire, personal injury, or transceiver damage:

⚠ Do not attempt to configure your transceiver while driving, it is dangerous.

⚠ This transceiver is designed for a 13.8V DC power supply. Don't use a 24V battery to power on the transceiver.

⚠ Do not place the transceiver in excessively dusty, humid or wet areas, nor unstable surfaces.

⚠ Please keep it away from interferential devices (such as TV, generator etc.)



⚠ Do not expose the transceiver to long periods of direct sunlight nor place it close to heating appliances.

⚠ If an abnormal odor or smoke is detected coming from the transceiver, turn OFF the power immediately. Contact an Anytone service station or your dealer.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference o radio or television reception, which can be determined by turning the equipment off and on, the user encouraged to try to correct the interference by one or more of the following measure:

• 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the 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.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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FREQUENCY RANGE

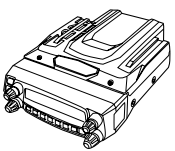
RX: 136~174MHz
220~260MHz
400~512MHz

TX: 144~148MHz
222~225MHz
420~450MHz

SUPPLIED ACCESSORIES

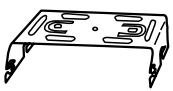
After carefully unpacking the transceiver, identify the items listed in the table below. We suggest you keep the box and packaging.

- Transceiver



- Microphone (QHM-05) (with DTMF keyboard)

- Mobile Mounting Bracket (QMB-01)



- DC Power Cable with Fuse Holder(QPL-01)

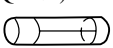
- Hardware Kit for Bracket

Black screws (M4X8mm) 4PS(QSS-01A)

Tapping screws (M5X8mm) 4PS(QSS-01B)

S-Washer (QSS-01D)

- Spare Fuses (QF–01)

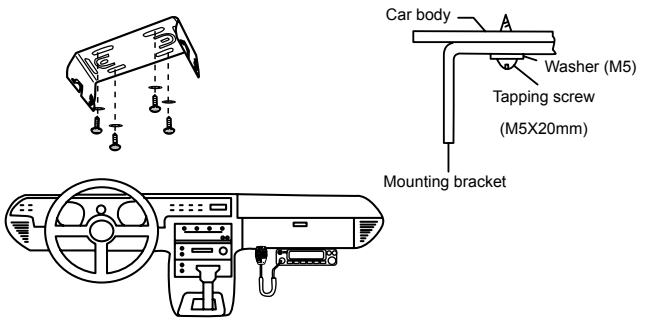


- User Manual

MOBILE INSTALLATION

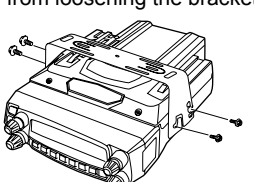
To install the transceiver, select a safe, convenient location inside your vehicle that minimizes danger to your passengers and yourself while the vehicle is in motion. Consider installing the unit at an appropriate position so that knees or legs will not strike it during sudden braking of your vehicle. Try to pick a well ventilated location that is shielded from direct sunlight.

1. Install the mounting bracket in the vehicle using the supplied self-tapping screws (4pcs) and flat washers (4pcs).

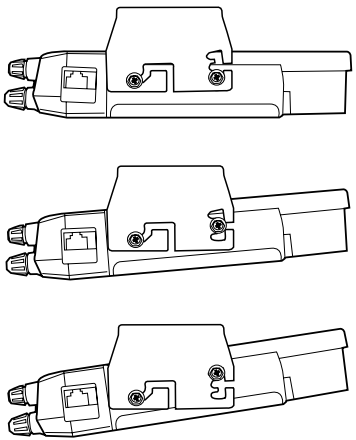


2. Position the transceiver, then insert and tighten the supplied hexagon SEMS screws.

▼ Double check that all screws are tightened to prevent vehiclevibration from loosening the bracket or transceiver.



▼ Determine the appropriate angle of the transceiver, using the 3 screw hole positions on the side of the mounting bracket.



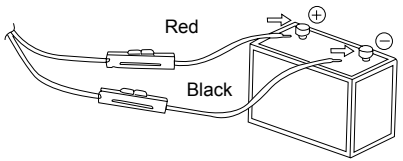
DC POWER CABLE CONNECTION

NOTE Locate the power input connector as close to the transceiver as possible.

MOBILE OPERATION

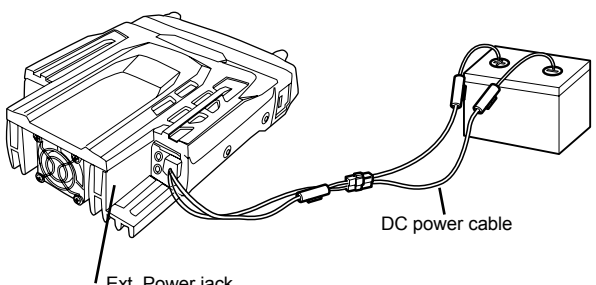
The vehicle battery must have a nominal rating of 12V. Never connect the transceiver to a 24V battery. Be sure to use a 12V vehicle battery that has sufficient current capacity. If the current to the transceiver is insufficient, the display may darken.

1. Route the DC power cable supplied with the transceiver directly to the vehicle's battery terminals using the shortest path from the transceiver.
   - ▼ We recommend you do not use the cigarette lighter socket as some cigarette lighter sockets introduce an unacceptable voltage drop.
   - ▼ The entire length of the cable must be dressed so it is isolated from heat, moisture, and the engine secondary (high voltage) ignition system/ cables.
2. After installing cable, in order to avoid the risk of damp, please use heat-resistant tap to tie together with fuse box. Don't forget to reinforce whole cable.
3. In order to avoid the risk of short circuit, please cut down connection with negative (-) of battery, then connect with radio.
4. Confirm the correct polarity of the connections, then attach the power cable to the battery terminals; red connects to the positive (+) terminal and black connects to the negative (-) terminal.
   - ▼ Use the full length of the cable without cutting off excess even if the cable is longer than required. In particular, never remove the fuse holders from the cable.
5. Reconnect any wiring removed from the negative terminal.



6. Connect the DC power cable to the transceiver's power supplyconnector.
   - ▼ Press the connectors firmly together until the locking tab clicks.

If the ignition-key on/off feature is desired (optional feature), use the



optional QCC-01(For Cigar-Plug connection) cable. Connect one of the cables between the ACC terminal or a Cigar-Plug that operates with the vehicle ignition or ACC switch on the vehicle and EXT POWER jack on the rear side of the unit.

NOTE In many cars, the cigar-lighter plug is always powered. If this is the case, you cannot use it for the ignition key on/off function.

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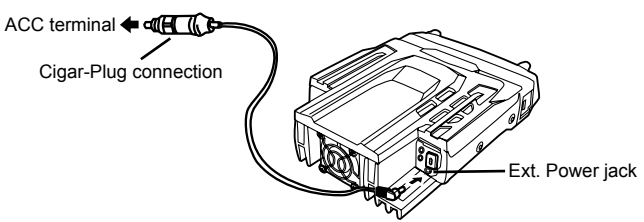
7. When the ignition key is turned to ACC or ON(Start) position with the radio turned off, the power switch illuminates. The illumination will be turned off when the ignition key is turned to the off position. To turn on the unit, press the power switch manually while it is illuminated. (While ignition key is at ACC or ON position).
8. When the ignition key is turned to ACC or ON position with the radio's power switch on, the unit turns on automatically and the power switch will be lit. Turn the ignition key to OFF position or manually turn the power switch off to shut down the radio.
9. Using extra cable, power consumption: 5MAH.
10. Without this function, user can turn on/off radio by Power knob.

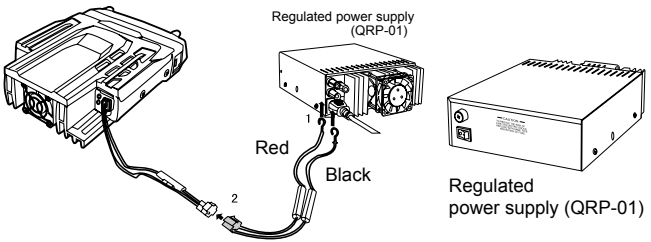


FIXED STATION OPERATION

In order to use this transceiver for fixed station operation, you will need a separate 13.8V DC power supply (not included), power supply (QRP-01) as optional accessories. Please contact local dealer to require.

The recommended current capacity of your power supply is 12A.

1. Connect the DC power cable to the regulated DC power supply and ensure that the polarities are correct. (Red: positive, Black:negative).
   - ▼ Do not directly connect the transceiver to an AC outlet.
   - ▼ Use the supplied DC power cable to connect the transceiver to a regulated power supply.
   - ▼ Do not substitute a cable with smaller gauge wires.



DC power cable with fuse holder (QPL-01)

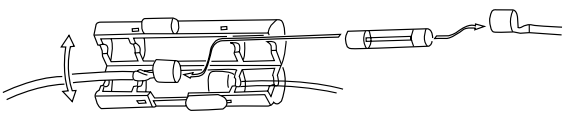
2. Connect the transceiver's DC power connector to the connector on the DC power cable.

Press the connectors firmly together until the locking tab clicks.

NOTE
- ▼ Before connecting the DC power to the transceiver, be sure to switch the transceiver and the DC power supply OFF.
- ▼ Do not plug the DC power supply into an AC outlet until you make all connections.

REPLACING FUSES

If the fuse blows, determine the cause, then correct the problem. After the problem is resolved, replace the fuse. If newly installed fuses continue to blow, disconnect the power cable and contact your authorized dealer or an authorized servicecenter for assistance.



Fuse Location	Fuse Current Rating
Transceiver	15A
Supplied Accessory DC power cable	20A

Only use fuses of the specified type and rating, otherwise the transceiver could be damaged.

NOTE If you use the transceiver for a long period when the vehicle battery is not fully charged, or when the engine is OFF, the battery may become discharged, and will not have sufficient reserves to start the vehicle. Avoid using the transceiver in these conditions.

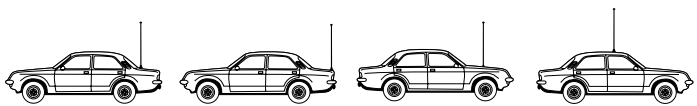
ANTENNA CONNECTION

Before operating, install an efficient, well-tuned antenna. The success of your installation will depend largely on the type of antenna and its correct installation. The transceiver can give excellent results if the antenna system and its installation are given careful attention.

Use a 50Ω impedance antenna and low-loss coaxial feed-line that has a characteristic impedance of 50 Ω, to match the transceiver input impedance. Coupling the antenna to the transceiver via feed-lines having an impedance other than 50Ω reduces the efficiency of the antenna system and can cause interference to nearby broadcast television receivers, radio receivers, and other electronic equipment.

NOTE ▼ All fixed stations should be equipped with a lightning arrester to reduce the risk of fire, electric shock, and transceiver damage.

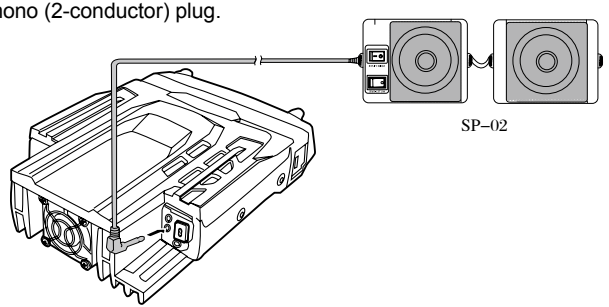
The possible locations of antenna on a car are shown as following:



ACCESSORIES CONNECTIONS

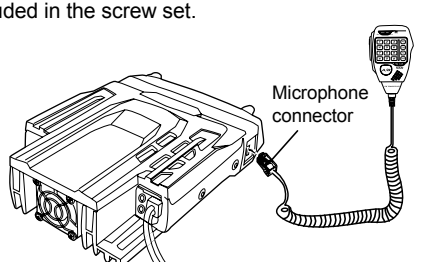
EXTERNAL SPEAKER

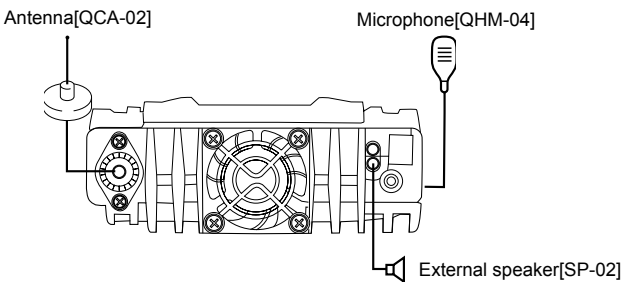
If you plan to use an external speaker, choose a speaker with an impedance of 8Ω. The external speaker jack accepts a 3.5mm (1/8") mono (2-conductor) plug.

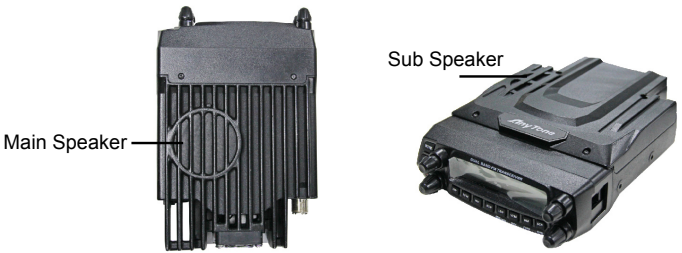


MICROPHONE

For voice communications, connect a microphone equipped with an 8-pin modular plug into the modular socket on the front of the main unit. Press firmly on the plug until the locking tab clicks. Attach the supplied microphone hanger in an appropriate location using the screws included in the screw set.

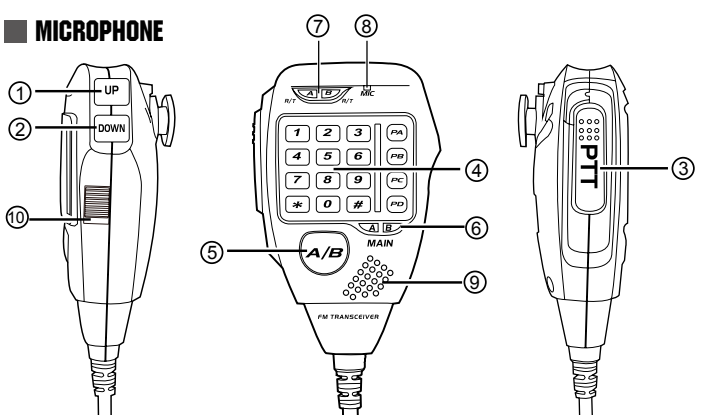




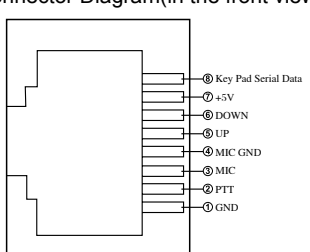


NO.	KEY	FUNCTION
1	UP	Increase frequency, channel number or setting value.
2	DOWN	Decrease frequency, channel number or setting value.
4	Number Key	Input VFO frequency or DTMF dial out etc.
5	A/B band	Choose left band or right band as Main band
6	Band indicator	The indicator light on for Main band.
7	RX indicator	Light green while receiving.
8	MIC	Speak here during transmission.
9	Speaker	When shut the speaker in the base, you can hear the calling by this speaker.
10	Lock UP/down	When this key is in up position, It is unlock UP/DOWN key, when this key is in down poisition, UP/DOWN key will be locked.

MICROPHONE



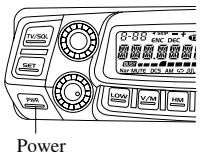
MIC Connector Diagram(in the front view of connector)



SWITCHING THE POWER ON/OFF

POWER ON

Press [PWR] key to switch the transceiver ON, the LCD displays "**WELCOME ANYTONE**", then display current frequency or channel.

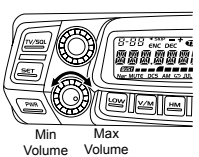


POWER OFF

Press [PWR] key for over 0.5 Second to switch the transceiver OFF.

ADJUSTING THE VOLUME

Rotate the [VOLUME] knob of selected band clockwise to increase the volume, counterclockwise to decrease the volume.

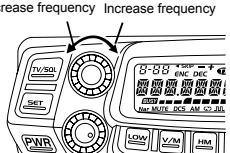


NOTE Hold [TV/SQL],keep pressing it to Monitor the background noise after the transceiver emits a DU beep, meanwhile adjust the [VOLUME] knob. During communication, volume can be adjusted more accurate.

ADJUSTING FREQUENCY

ADJUSTING FREQUENCY THROUGH SELECTOR KNOB

In frequency (VFO) mode, turn the selector knob clockwise to increase frequency; counterclock-wise to decrease frequency. Every gear will increase or decrease frequency by one step. To adjust the Main band frequency, press corresponding selector knob, the left side of decimal point will flash. In this status, turn the selector knob will increase or decrease frequency quickly by 1MHz step.



NOTE The microphone [UP/DOWN] key also able to adjust frequency. Press [UP/DOWN] key will increase(decrease) the frequency by one step size. Hold [UP/DOWN] key will adjust the frequency continuously.

INPUT FREQUENCY THROUGH MICROPHONE NUMBER KEY

In VFO mode, you can input the frequency by the microphone numeric key. It is invalid to input frequency out of the frequency band.
For example:
to input 150.125Mhz, press 1, 5, 0, 1, 2, 5 continuously.
to input 152 MHz, press1, 5, 2, [#] continuously.

NOTE When the Band lockout function is on, the input or adjusting of frequency bandwill limit within the current VFO band.

ADJUSTING CHANNEL

ADJUSTING CHANNEL THROUGH SELECTOR KNOB

In channel mode, you can adjust the channel directly by the channel knob. Turn clockwise to increase one channel; turn counterclockwise to decrease one channel. To adjust the Main band channel, press correspondent selector knob, the channel number flashes in this situation, the channel number will increase 10 channels by each gear of selector knob. Press microphone [UP/DOWN] key also able to adjust the channel.

NOTE If there is any empty channel, the adjustment will ignore it and jump to next channel.

INPUT CHANNEL THROUGH MICROPHONE NUMBER KEY

In channel mode, you can switch to desired channel by press 3 of the microphone numeric keys (001-750). For example input 001 get channel 1; input 030 is channel 30; input 512 is channel 512. If the input channel is no frequency, the transceiver will emit a warning beep and return to last channel.

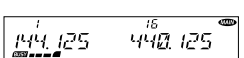
SELECTING THE FREQUENCY BAND

1. Choose for Left band: press the left side [V/M] key to switch it to VFO mode, press the left selector knob over 1 second then repeat above operation will switch the left band.
2. Choose for right band: press the right side [V/M] key to switch it to VFO mode, press the right selector knob over 1 second then repeat above operation will switch the right band.

NOTE This transceiver can be set working on 2 UHF band or 2 VHF band.

RECEIVING

In standby, both left band and right band are able To receive. When they receive any signal, the **"BUSY"** icon and signal strength icon will appear in the corresponding area of the LCD. And you can hear the calling.



NOTE If the transceiver has set at higher squelch level, it may fail to hear the calling. If the **"BUSY"** and signal strength icon display in left band or right band, but can not hear the calling, means the signal is with matching carrier but dis-matching signaling.

SQUELCH OFF/SQUELCH OFF MOMENTARY

Long press of [TV/SQL] key can be set up as Squelch Off or Squelch Off Momentary to monitor the weak signal.

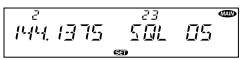
1. Squelch Off: Hold [TV/SQL] key until hear "Du" beep, the squelch is off, repeat the above operation to resume squelch.
2. Squelch Off Momentary: Keep hold [TV/SQL] key to disable squelch, release the key to resume squelch.

NOTE In standby, press the microphone [*] to cancel squelch, press it again to turn on the squelch.

SQUELCH LEVEL SETUP

This function is used to setup the strength of receiving signal, when the strength reach a certain level, the calling can be heard, otherwise, the transceiver will keep mute.

In standby, press and hold TV/SQL key, meanwhile switch the selector knob to adjust the squelch level of Main band.



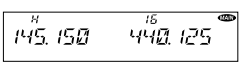
1-20: Total 20 squelch levels available.

OFF: turn off squelch. The background noise always on.

NOTE The squelch level shall setup separately for right band and left band.

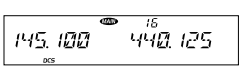
HOME CHANNEL

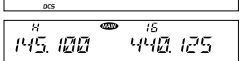
In standby, press HM key to switch to HOME channel, and communicate on HOME channel. repeat pressing it to return to last channel.



EDITING HOME CHANNEL

In VFO mode, after setting desired freq and Channel, press V/M then hold HM until radio announces"DUDU", LCD displays H icon, Home channel editing finished.





HYPER MEMORY CHANNEL

In standby, press the left or right volume knob will switch the radio work on hyper channel 1 or hyper channel 2.

DUAL WATCH

In standby, hold HM key for over 0.5 second to enter Dual Watch mode. The radio will scan the channel in every 5 seconds. When the radio receives matching signal, it pause scanning until the signaling disappear. Repeat above operation to exit Dual watch.

EMERGENCY ALARM

To start emergency alarm, hold the right volume knob until the trans -ceiver displays **ALARM** and emit alarm. Re-power on the transceiver to exit alarm. This transceiver has 4 kind of alarm.

CHANNEL/FREQUENCY SCAN

FREQUENCY SCAN

In VFO mode, this function is designed to monitor signal of every communicative frequency point of "step size" you have set.

1. In VFO mode, press the Main Band SCN key to enter channel scan.
2. During the scanning adjust the Main band selector knob or press microphone [UP/DOWN] key will change the scan direction.
3. Press SCN key to exit scan.

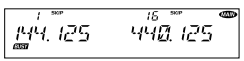
CHANNEL SCAN

1. In channel mode, press the Main Band SCN key to enter channel scan.

2. During the scanning, adjust the Main band selector knob or press microphone [UP/DOWN] key will change the scan direction.
3. Press [SCN] key to exit scan.

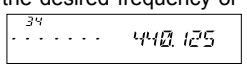
CHANNEL SCAN SKIP

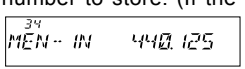
In channel mode, switch selector knob to choose the channel, then hold [SCN] for over 0.5 second, the radio prompts "DU DU", and LCD displays "**SKIP**", and now the current channel is Scan Skip.



CHANNEL EDIT

1. In VFO mode, turn selector knob to select the desired frequency or input frequency by MIC's numeric keys.
2. Hold [SET] key until the transceiver prompt DU and the display of channel number flashes.
3. Turn selector knob to select the channel number to store. (If the storage has data, the LCD will display the frequency, otherwise will display"----------")
4. Hold [SET] key, the LCD display **MEN- IN**, the channel edit completed.

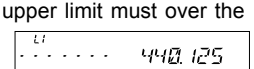


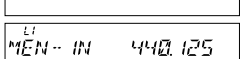


SCAN RANGE LIMIT

You can set the VFO scan frequency range by this function:

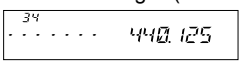
1. Choose upper limit and lower limit frequency, there are L1/U1- L5/ U5, five couple of limit frequency for selection. L stands for lower limit and U stands for the upper limit. the upper limit must over the lower limit frequency. Please refer to the Channel Edit to setup the limit frequency.
2. In VFO mode, set the VFO frequency in the range between upper and lower limit.
3. Press [SCN] key to start scan in lmited range.

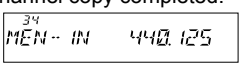




CHANNEL COPY

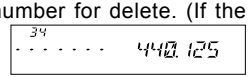
1. In channel mode, turn the selector knob to choose the channel.
2. Hold [SET] key until the transceiver prompt a Du and channel number display flashes.
3. Turn selector knob to choose channel number for storage. (If the storage has data, the LCD will display the frequency, otherwise will display "**----------**")
4. Hold [SET] key, the LCD displays **MEN-IN**, channel copy completed.

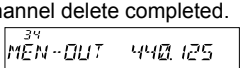




CHANNEL DELETE

1. In standby, hold [SET] key until the transceiver prompt DU, and channel number flashes.
2. Turn selector knob to choose channel number for delete. (If the storage has data, the LCD will display the frequency, otherwise will display "----------")
3. Hold Left band volume knob, until the transceiver emit DU DU prompt and LCD displays **MEN-OUT**, the channel delete completed.





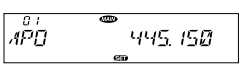
Basic operation steps for Function menu

1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose wanted function.
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
5. Press the Main band selector knob to store value and back to function menu. Press [TV/SQL] key or hold selector knob for over 0.5 second to store setup and exit.

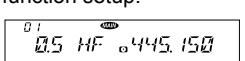
APO (AUTOMATIC POWER OFF)

Once APO is activated, the transceiver will be automatically switched off when the pre-set timer running out.

1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No. 01 menu. The LCD displays "**APO**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value. Available values: 0.5-12Hours, OFF

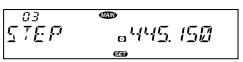


5. Press the Main band selector knob or [SET] key to store value and back to function menu.
   Press [TV/SQL] key or hold selector knob for over 0.5 second to store setup and exit.

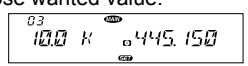
FREQUENCY CHANNEL STEP SETUP

Only in frequency (VFO) mode, this function is valid. Turn selector knob to select frequency or frequency scanning which is restricted by frequency step size.

1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No. 03 menu. the LCD displays "**STEP**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   Available Values:2.5K,5K,6.25K, 8.33K,10K,12.5K,15K,20K, 25K.



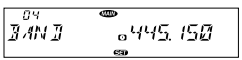
5. Press the Main band selector knob or [SET] key to store value and back to function menu.
   Press [TV/SQL] key or hold selector knob for over 0.5 second to store setup and exit.

NOTE This function is auto-hidden in channel mode

VFO BAND LOCKOUT

In VFO mode, when this function is on, the scanning or input of frequency will restricted within the current VFO frequency band.

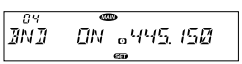
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 04 menu. the LCD displays "**BAND**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   ON: Turn on VFO band lockout function

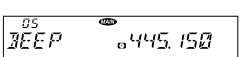
   OFF: Turn off VFO band lockout function



5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

BEEP FUNCTION

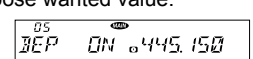
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 05 menu. the LCD displays "**BEEP**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   ON: Turn on Beep function.

   OFF: Turn off Beep function

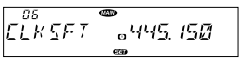


5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

CPU CLOCK FREQUENCY CHANGE

When any harmonic or image frequency in the CPU clock disturbs the working frequency, turn on this function will cut the disturbing

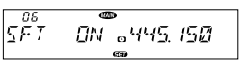
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 06 menu. the LCD displays "**CLK.SFT**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   ON: Turn on CPU Clock frequency Change.

   OFF: Turn off CPU Clock frequency Change.



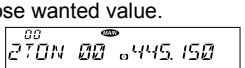
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

2TONE ENCODE SELECT

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 07 menu. the LCD displays "**2TN ENC**".

3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   Available Values: **0-23**, total 24 groups.

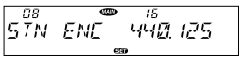


NOTE If the 2TONE encode are set up with name, the LCD will display corresponding name.

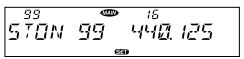
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

5TONE ENCODE SELECT

1. Press (SET) key to enter function menu.
2. Turn the Main band selector knob to choose No. 08 menu. the LCD displays "**5TN ENC**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   Available Values: **0-99**, total 100 groups.



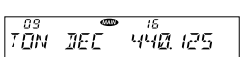
NOTE if the 5TONE encode are set up with name, the LCD will display corresponding name.

5. Press the Main band selector knob or (SET) key to store value and back to function menu. Press (TV/SQL) key or hold selector knob for over 0.5 second to store setup and exit.

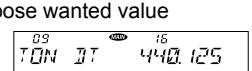
ADD OPTIONAL SIGNALING

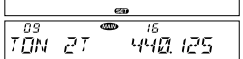
This transceiver has 3 optional signaling: DTMF/5Tone/2Tone,those signaling function similar to CTCSS/DCS signaling. DTMF and 5Tone signaling can be applied for other advanced features such as ANI, group call, select call, remotely stun, remotely kill waken etc..

1. Press (SET) key to enter function menu.
2. Turn the Main band selector knob to choose No. 09 menu. The LCD displays "**TON DEC**".
3. Press the Main band selector knob to enter function setup.

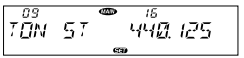


4. Switch the Main band selector knob to choose wanted value
   DT: means DTMF signaling is added.
   2T: means DTMF signaling is added.
   5T: means DTMF signaling is added.





   OFF: Turn off optional signaling

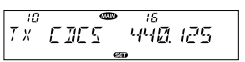


5. Press the Main band selector knob or (SET) key to store value and back to function menu. Press (TV/SQL) key or hold selector knob for over 0.5 second to store setup and exit.

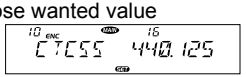
NOTE The working of optional signaling shall be work associated with the squelch mode setup. (Refer to Squelch Mode setup in page 20)

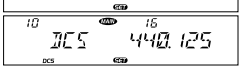
CTCSS/DCS DECODE SETUP

1. Press (SET) key to enter function menu.
2. Switch the Main band selector knob to choose No.11 menu, the LCD displays "**RX CDCS**".

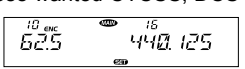


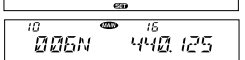
3. Press the Main band selector knob to enter function setup
4. Switch the Main band selector knob to choose wanted value
   OFF: Turn off CTCSS/DCS decode.
   CTCSS: Choose CTCSS decode.
   DCS: Choose DCS decode.





5. Press the Main band selector knob to enter the menu.
6. Switch the Main band selector knob to choose wanted CTCSS, DCS code.
   CTCSS: 62.5-254.1HZ, and one self-defined group, total 52 groups
   DCS: 000N-777I, total 1024 groups



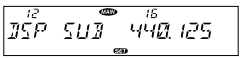


7. Press the Main band selector knob or (SET) key to store value and back to function menu. Press (TV/SQL) key or hold selector knob for over 0.5 second to store setup and exit.

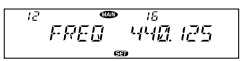
NOTE The working of CTCSS/DCS decode shall be work associated with the squelch mode setup. (Refer to Squelch Mode setup in page 20)

SUB BAND DISPLAY SETUP

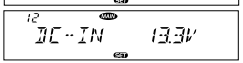
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 12 menu. the LCD displays "**DSP SUB**"



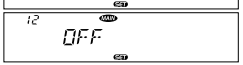
3. Press the Main band selector knob to enter function setup
4. Switch the Main band selector knob to choose wanted value.



FREQ: display sub band frequency,



DC-IN: display sub band voltage.

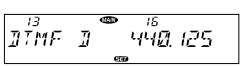


OFF: turn off display for sub Band

5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

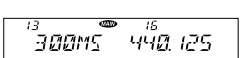
DTMF ENCODE PRE-LOADING TIME

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 13 menu. the LCD displays "**DTMF D**".



3. Press the Main band selector knob to enter function setup
4. Switch the Main band selector knob to choose wanted value.

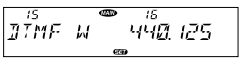
100MS: The Pre-Loading time is 100MS
300MS: The Pre-Loading time is 300MS
500MS: The Pre-Loading time is 500MS
800MS: The Pre-Loading time is 800MS
1000MS: The Pre-Loading time is 1000MS



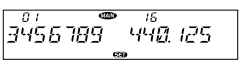
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

DTMF ENCODE SETUP

1. Press SET to enter function menu
2. Switch the Main band selector knob to choose No.15 menu, the LCD displays "**DTMF W".**

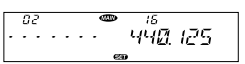


3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose DTMF group. Then press SET key back to DTMF menu.

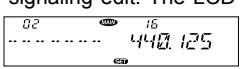


01-16: total 16 group of DTMF code.

5. When the selected group is empty, the LCD displays '------".



6. Press the selector knob to enter the DTMF signaling edit. The LCD display "-- -- -- -- -- --", the last character flashes.

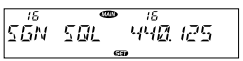


7. Switch the selector knob to choose wanted character. Press the selector knob to confirm selected value and start edit for next character.
8. Press SET key to store value and exit code editing. Press SET key again to store setup and exit. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

SQUELCH MODE SETUP

This transceiver has 5 squelch modes available. Squelch function is used for increase the level of filtering unwanted signal, and free from disturb.

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.16 menu. The LCD displays "**SGN SQL**"

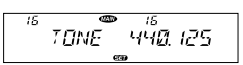


3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   SQ: You can hear the calling once receives matching carrier.

   CTSS/DCS: You can hear the calling when receives matching carrier and CTCSS/DCS code.

   TONE: You can hear the calling when receives matching carrier + optional signaling.



   CT*TO: You can hear the calling when receives matching carrier + CTCSS/DCS + optional signaling.

   CT/TO: You can hear the calling when receives any matching carrier or CTCSS/DCS or optional signaling.

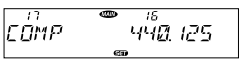
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

NOTE Only when the transceiver is set with CTCSS/DCS or optional DTMF/5TONE/TONE signaling, the values will be available.VHF2 no optional DTMF/5TONE/2TONE signaling decode setup.

COMPANDER

Compander function will decrease the background noise and enhance audio clarity, especially in long range communication.

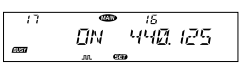
1. Press SET key to enter function menu
2. Turn the Main band selector knob to choose No 17 menu. The LCD displays "**COMP**"



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   ON: Compander function is turn on

   OFF: Compander function is turn off



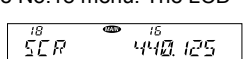
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

NOTE When using compander, to avoid distortion during communications, both radios need turn on this function.

SCRAMBLER SETUP

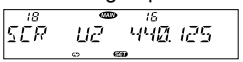
This special audio process can offer a more confidential communication; other radio with same frequency will receive only disordered noises.

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.18 menu. The LCD displays "**SCR**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted group

   1-9 (9 fix groups) **U1, U2** (2 self defined scrambler groups), OFF.



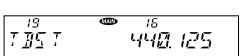
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

NOTE To enable communication with scrambler, 2 transceivers shall set with same group.

TONE BURST (PILOT FREQUENCY)

This function uses to start repeater. It needs certain intensity Pilot Frequency to start a dormant repeater. As usual, no need to send pilot frequency again once repeater started.

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.19 menu. The LCD displays "**TBST**".



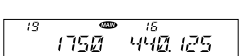
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted frequency.

   1000: Pilot Frequency is 1000Hz.

   1450: Pilot Frequency is 1450Hz.

   1750: Pilot Frequency is 1750Hz.

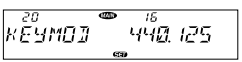
   2100: Pilot Frequency is 2100Hz.



5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

KEYPAD MODE SETUP

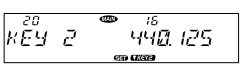
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.20 menu. The LCD displays "**KEYMOD**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted mode.

   KEY1: key1 mode, Normal mode, the left 4 keys have same functions as the right 4 keys.

   KYE2: the left 4 keypads will shared by both band. And the right 4 key pads will be re-defined.



5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

Notice: Definition of Keypad in KEY2 mode:

1. Left LOW **long press:** In standby, long press this key to add/ delete optional signaling, repeat the long press it will set optional signaling DTMF, 5TONE or 2TONE. When the LCD displays DT means DTMF, displays 5T means 5TONE, displays 2T means 2TONE.
2. Right LOW **Short press:** In VFO mode, short press this key,

the frequency step size changes to 1Mhz, in channel mode, adjust selector knob will jump 10 channels.

3. Right [LOW] **long press**: Talk Around. When this function is activated, transceiver can not communicate with repeater. Repeat the operation to turn off Talk Around.
4. Right [V/M] **short press:** Frequency reverse function, when current channel is setup with offset direction and offset frequency, press this key will turn on frequency reverse function.The signaling will also be reversed if CTCSS/DCS signaling existed in this channel. Repeat the short press it will turn off Frequency reverse function.
5. Right [V/M] **long press:** In stand by, hold this key until the LCD displays ⎍⎍, means the compander function is on, repeater above operation to turn off compander function.
6. Right [HM] **short press:** In standby, press this key to set the CTCSS/DCS code for current channel.

   When the LCD displays ENC, the current channel is with CTCSS encode function.

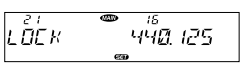
   When the LCD displays ENC and DEC, the current channel is with CTCSS /DCS code function.

   When the LCD displays DCS and DCS icon, the current channel is with CTCSS code function.

   When the LCD displays OFF, the current channel is without CTCSS /DCS function.
7. Right [HM] **long press:** In standby, long press this key to enter CTCSS/DCS scan, when find matching CTCSS/DCS signal, the scan will pause in the way following Scan Dwell time.The scan direction can be changed by corresponding channel selector knob. Note:To enable this function, the channel shall be set up with CTCSS/DCS decode.
8. Right [SCN] short press, shot press this key, the sub band will display "MAIN" and flashes.In this case, you can setup for sub band without switch between Main band and Sub band.
9. Right [SCN] long press, choose scrambler group for Main band. In standby, hold this key, the LCD displays SCR X and ⛓ icon. X stands for the group number, repeater above operation to choose wanted group.

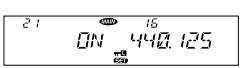
KEYPAD LOCKOUT

1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No.21 menu. The LCD displays "**LOCK**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted mode.

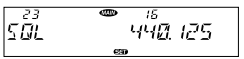
   ON: The keypad lockout function is turn on, all keys beside [SET] and band switch knobare invalid.



   OFF: The keypad lockout function is turn off.
5. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [TV/SQ] key or hold selector knob for over 0.5 second to store setup and exit.

SQUELCH LEVEL SETUP

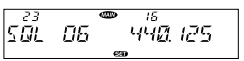
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.23 menu. The LCD displays "**SQL**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value

   1-20: total 20 squelch levels

   OFF: Turn off squelch function, the background noise keep on.

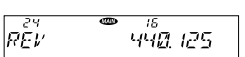


5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

FREQUENCY REVERSE

With this function on, the transceiver will be able to communicate with a transceiver in same network without through a repeater.

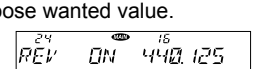
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No 24 menu. The LCD displays "**REV**"



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   ON: Frequency Reverse is turn on.

   OFF: Turn off Frequency Reverse.

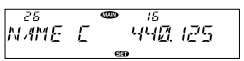


5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

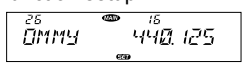
EDITING CHANNEL NAME

After edit a name for a channel, if the display mode is channel name, the will display the name edited in this menu. Otherwise it will display the frequency.

1. Press SET key to enter function menu.
2. Switch the selector knob to choose NO.26 function menu, the LCD displays "**NAME C**".



3. Press the Main band selector knob to enter function setup.
4. Switch the selector knob to choose wanted character.

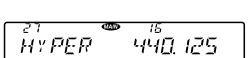


5. Press the selector knob to confirm current character and start edit next character, after editing all 7 characters, press the selector knob to confirm and back to function menu.
6. If the editing not reach 7 characters, press SET key back to function menu, then press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

CHANNEL FUNCTION AUTO STORAGE SETUP

This function is used to store lastest setup for each single channel.
when this function is on, all the latest temporary operation for present channel will be stored no matter change channel or power off radio.
when this function is off, the temporary setup will not be stored, the channel informaiton will resume to the last stored value after change channel or power off radio.

1. Press SET to enter function menu
2. Turn the Main band selector knob to choose NO.27 menu, the LCD displays "**HYPER**".

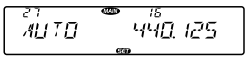


3. Press the Main band selector knob to enter function setup.

4. Switch the Mian band selector knob to choose wanted value.

   MANUAL: Auto storage is turn off.

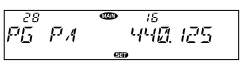
   AUTO: Auto storeage is turn on.



5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to sore setup and exit.

MICROPHONE PA,PB, PC,PD KEY SETUP

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.28-31 menu. The LCD displays "**PG PA**", "**PG PB**", "**PG PC**", "**PG PD**".



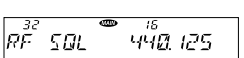
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
5. Press the Main band selector knob or SET key to store value and TV/SQL back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

NOTE For Menu details, please refer to Page 30-31, Microphone Operation.

RF SQUELCH LEVEL SETUP

When squelch level function is on, you can cancel squelch only when the signal strength reach the level setup by users.

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.32 menu. The LCD displays "**RF SQL**".



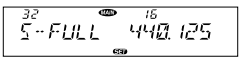
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   S-2: Able to hear the calling when the power meter reach 1 bar.

   S-5: Able to hear the calling when the power meter reach 4 bar.

   S-9: Able to hear the calling when the power meter reach 8 bar.

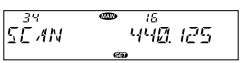
   S-FULL: Able to hear the calling when the power meter reach full bar.



5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

SCAN DWELL TIME SETUP

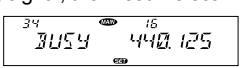
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.34 menu. The LCD displays "**SCAN**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   TIME: it pauses 5s once scanning a matching signal, then resume scan.

   BUSY: it pauses once scanning a matching signal, then resume scan after the signal disappeared for 2 seconds.

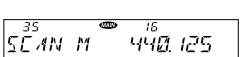


   SECEDE: It Stops once scanning a matching signal, and exit scan.

5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

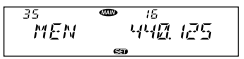
PRIORITY CHANNEL SCAN

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.35 menu. The LCD displays "**SCAN M**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   MEN: Channel Scan, the transceiver will scan all the channels after enter channel scan.

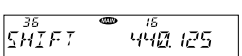
   

   MSN: Priority Channel Scan, the transceiver will only scan the priority channel after enter channel scan.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

NOTE Before using Priority channel scan function.the edited channel shall be set up as "P SCAN" or refer to the PRI instrunction in page 29 to add or delete priority channel.

OFFSET FREQUENCY SETUP

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.36 menu. The LCD displays "**SHIFT**".

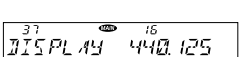
   

3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   Available Offset frequency for this transceiver is **0-100MHz.**
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

DISPLAY MODE SETUP

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.37 menu. The LCD displays "**DISPLAY**".

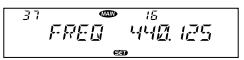
   

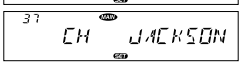
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

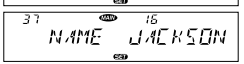
   FREQ: The radio displays channel number + frequency in channel mode, if press V/M key,it will change to VFO mode.

   CH: Displays only channel number.

   NAME: In channel mode, It displays the channel number and channel name if the current channel is set up with a name. Otherwise, it display the channel number and frequency.If press V/M key, it will change to VFO mode.

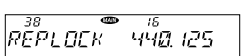
   

5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

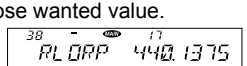
BUSY CHANNEL LOCKOUT

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.38 menu. The LCD displays "**REPLOCK**".

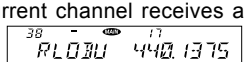
   

3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

   RLORP: Signaling busy lockout, when current channel receives a matching carrier but dis-matching CTCSS/DCS.

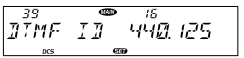
   RLOBU: Channel busy lockout, when current channel receives a matching carrier;

   OFF: Busy channel lockout is disabled.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

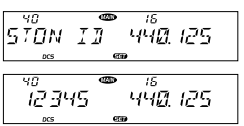
RADIO'S DTMF SELF ID ENQUIRY

1. Press SET key to enter function menu.
2. Switch the selector knob to choose No. 39 function. The LCD displays "**DTMF ID**".
3. Press the Main band selector knob to enter function setup. The LCD will show the DTMF self ID.
4. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.



5TONE SELF ID ENQUIRY

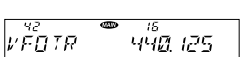
1. Press SET key to enter function menu.
2. Switch the selector knob to choose No.40 function. The LCD displays "**5TONE ID**".
3. Press the Main band selector knob to enter function setup. The LCD will show the **5TONE** self ID.
4. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

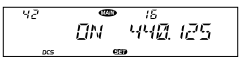


VFO FREQUENCY LINKAGE

Enable this function, the adjustment for any band of VFO frequency, will bring same frequency change to both bands. Adjust one gear, the frequency for both bands will increase or decrease one step size value.

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.42 menu. The LCD displays "**VFOTR**".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   Available Values: **ON**, **OFF**.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

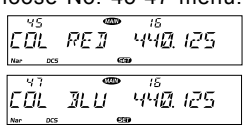


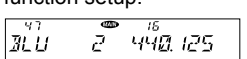


NOTE This function is only valid when both bands work on VFO mode.

LCD BACKLIGHT

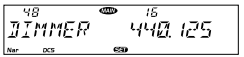
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 45-47 menu. The LCD displays "**COL RED**","**COL GRN**","**COL BLU**".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.Each color (Red, blue, Green) with 32 brightness levels.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

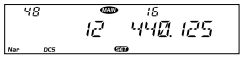




KEYPAD BACKLIGHT BRIGHTNESS

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 48 menu. The LCD displays "**DIMMER**".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   Available value: 32 brightness levels.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

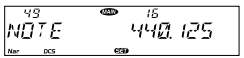


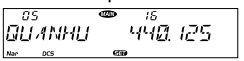


CALLING RECORD

The transceiver offers enquiry of calling record.

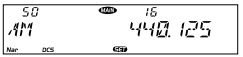
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 49 menu. The LCD displays "**NOTE**".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   This transceiver is able to record 16 calling at most.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

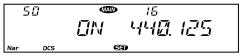




AM FUNCTION

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 50 menu. The LCD displays "**AM**".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   ON: turn on AM function.
   OFF: turn off AM function.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.



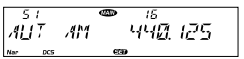


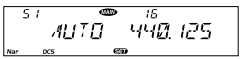
NOTE This function is only valid when the Main band frequency is VHF 108-180MHz, the function is invalid when the right band is set as Main band.

AUTOMATIC AM FUNCTION

The radio will automatically boot AM function when the VHF frequency is under 136Mhz.

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 51 menu. The LCD displays "**AUT AM**".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   ON: turn on auto AM function.
   OFF: turn off auto AM function.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.



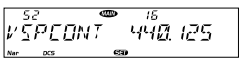


NOTE To enable Automatic AM function, the AM function shall be turned on first.

VHF EXTERNAL SPEAKER PORT

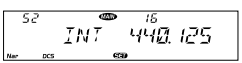
When the function setup as external (EXT), in order to hear the calling on VHF, user can use sub speaker or connect an external dual track speaker (SP-02). The calling from VHF and UHF are separated in 2 tracks.

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 52 menu. The LCD displays "**VSPCONT**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

INT: Use main internal speaker, the sub internal speaker will be shut off. VHF and UHF band share main speaker

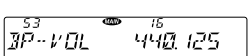


EXT: Use sub internal speaker or external speaker, the VHF calling can be heard from the sub speaker or external speaker.

5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

BEEP VOLUME CONTROL

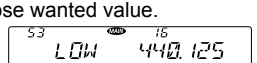
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 53 menu. The LCD displays **"BP-VOL".**



3. Press the Main band selector knob to enter function setup
4. Switch the Main band selector knob to choose wanted value.

LOW: BEEP volume is low.

HIGH: BEEP volume is high.

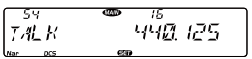


5. Press the Main band selector knob or SET key to store value and back to function menu.

TALK AROUND

With this function on, the transceiver will not able to communicate with another transceiver through a repeater.

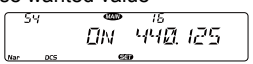
1. Press SET key to enter function menu.
2. Turn the Main band selector knob No.54 menu. The LCD displays "**TALK**".



3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value

ON: Turn on Talk Around

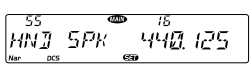
OFF: Turn off Talk Around



5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

MICROPHONE SPEAKER

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.55 menu. The LCD displays "**HND SPK**".

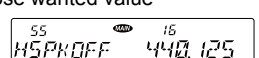


3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value

HSPKOFF: Turn off microphone speaker.

HSPK ON: Turn on microphone speaker.

MSPKOFF: Turn off Main speaker.

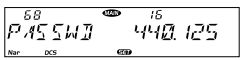


5. Press the Main band selector knob or SET key to store value and back to function menu.Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

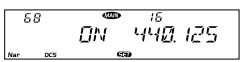
NOTE When turn on microphone speaker, please set up Menu 52 VSPCONT to be INT, otherwise the VHF signal can not be monitored.

PASSWORD FUNCTION

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No.68 menu. The LCD displays "**PASSWD**".



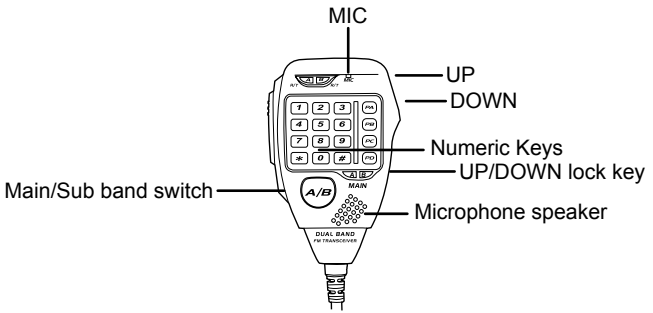
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   ON: Turn on password function.
   OFF: Turn off password function.



5. Press the Main band selector knob or SET key to store value and back to function menu. Press TV/SQL key or hold selector knob for over 0.5 second to store setup and exit.

NOTE When password function is on, correct password shall be input after power on. The password shall be set up before using this function.

8 Microphone Operation



You can operate the transceiver by keypad or input desired frequency and channel through the QHM-05 microphone.

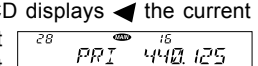
FUNCTION OPERATION THROUGH PA-PD KEYS

The PA, PB, PC, PD, keys can be set up with the following functions.

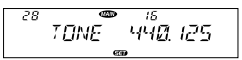
RPTR: OFFSET direction setup, in standby, press the key RPTR function will change the offset direction. When LCD displays"+", means plus offset, when the LCD displays"-", means minus offset.

NOTE This function is valid only when current channel set with offset frequency.

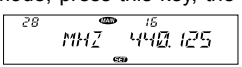
PRI：Add or delete priority channel: In channel mode, press the key PRI function to set priority channel, when the LCD displays ◀ the current channel is set as priority channel. Repeat above operation, the ◀ disappear, the curent channel is not set as priority channel.



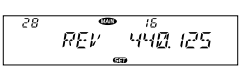
TONE: CTCSS/DCS code setup. In standby, press the key TONE function will be able to setup CTCSS/DCS code. When the LCD displays "**ENC**" and CTCSS frequency, press the [**UP/DOWN**] key to choose CTCSS encode. When the LCD displays "**ENC**", "**DEC**" and CTCSS frequency, press the microphone [**UP/DOWN**] key to choose CTCSS decode. When the LCD displays "DCS" and DCS code, press the microphone [**UP/DOWN**] key to choose DCS code.



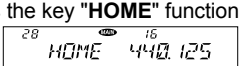
MHZ: In VFO mode, press the key MHZ function, the megabit digital in the LCD flashes, now turn the channel knob or microphone [**UP/DOWN**] key to adjust frequency by 1Mhz step. In channel mode, press this key, the channel number flashes, now adjust selector knob or microphone [**UP/DOWN**] key to adjust channel.



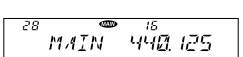
REV: In standby, press the key "**REV**" function to turn-on or turn off Frequency Revrse function.



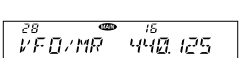
HOME: HOME channel switch, in standby press the key "**HOME**" function to switch between HOME channel and current channel.



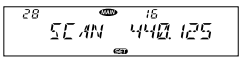
MAIN: Main band switch, in standby press the key "MAIN" function to choose left band or right band as Main band.



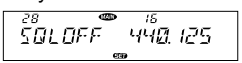
VFO/MR: Working mode switch, in standby, press the key "**VFO/MR**" function to switch between channel mode and frequency mode.



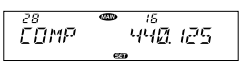
SCAN: scan function, in standby, press the key "**SCAN**" function to start channel scan or frequency scan.



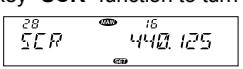
SQL OFF: Turn off Squelch, in standby, press the key "**SQL OFF**" function to turn off squelch, you can hear very weak signal, repeat the above function to turn on squelch.



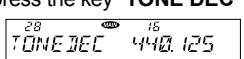
COMP: Compander function in standby, press the key "**COMP**" to turn on or turn off Compander function.



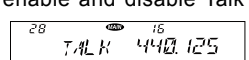
SCR: Scrambler function, in standby, press the key "**SCR**" function to turn on or turn off Scrambler function. And choose optional scrambler groups (from 9 fixed groups and 2 self defined groups).



TONE DEC: Add Optional Signaling, in standby press the key "**TONE DEC**" function to choose DTMF(DT), 2TONE(2T), 5TONE(5T) or OFF.



TALK: In standby status, press Talk key to enable and disable Talk around function.



OFF: No function.

9 Memory Banks

10 memory banks are available for memory channel assignments to ease in operation of the 5888UV III tri-band radio. You can enable one bank or multible banks through the radio itself.

ASSIGNING A CHANNEL TO A MEMORY BANK

1. Select memory channel to assign to a memory bank.
2. Press SET key to enter function menu.
3. Turn the main band selector knob to choose No. 56 menu. The LCD displays **"BAK"**
4. Press the main band selector knob to enter function setup.
5. Switch the main band selector knob to choose desired value.
   OFF: No bank assignment
   A, B, C, D, E, F, G, H, I, J to assign the selected bank.
6. Press the main band selector knob or SET key to store.

CHOOSING ACTIVE BANK

1. Select either left or right band in memory mode.
2. Press TV/SQL key to enter bank mode.
3. Bank numbers show in the position of channel number. If a channel number is not assigned, a bank "--" will show; otherwise the assigned bank of that channel will show.
4. Rotate the selector knob to choose desired bank to view.
5. Press TV/SQL key to confirm. Radio will swich to chosen bank. You can now view or scan channels in choosen bank.
6. Press TV/SQL key two times to cancel bank view and return to memory view.

BANK LINKING

Memory banks can be linked together for expanded scanning or viewing.

1. Press SET key to enter function menu.
2. Turn the main band selector knob to choose No. 57 menu. The LCD displays **"BALK"**.
3. Press the main band selector knob to enter function setup.
4. Switch the main band selector knob to choose which banks to link.

The following menus allow you to link banks A-J.

ON/OFF: Select ON to turn on Bank Linking, OFF to turn off Bank Linking

Menu 58	Bank A Link	ON /OFF
Menu 59	Bank B Link	ON /OFF
Menu 60	Bank C Link	ON /OFF
Menu 61	Bank D Link	ON /OFF
Menu 62	Bank E Link	ON /OFF
Menu 63	Bank F Link	ON /OFF
Menu 64	Bank G Link	ON /OFF
Menu 65	Bank H Link	ON /OFF
Menu 66	Bank I Link	ON /OFF
Menu 67	Bank J Link	ON /OFF

5. Press the main band selector knob or SET key to store.

DEFAULT VALUE FOR FACTORY RESUME

	5888UV III	
	Left band	Right band
VFO frequency	145.15MHz	435.15MHz
Memory channel 1-750	CH1: 144.000MHz CH2: 222.000MHz CH3: 420.000MHz	CH1: 144.000MHz CH3: 420.000MHz
Offset direction	--	--
Offset frequency	600KHz	5MHz
Step size	12.5KHz	
CTCSS code	--	
CTCSS frequency	88.5Hz	
DCS code	--	
DCS group	017N	
Output power	HI	
Key Lockout	OFF	
TOT	3	
APO	OFF	
Squelch level	4	

TROUBLE SHOOTING

Problem	Possible Causes and Potential Solutions
(a) Power is on, nothing appears on Display.	+ and - polarities of power connection are reversed. Connect red lead to plus terminal and black lead to minus terminal of DC power supply.
(b) Fuse is blown.	Check and solve problem resulting in blown fuse and replace fuse with new fuse.
(c) Display is too dim.	Adjust the Dimmer to higher level.
(d) No sound comes from speaker.	• Squelch is muted. Decrease squelch level. • Tone or CTCSS/DCS squelch is active. Turn CTCSS or DCS squelch off.
(e) Key and Dial do not function.	Key-lock function is activated. Cancel Key-lock function.
(f) Rotating Dial will not change memory channel.	Transceiver is in CALL mode or VFO mode.
(g) PTT key is pressed but transmission does not occur.	• Microphone connection is poor. Connect microphone properly. • Antenna connection is poor. Connect antenna properly.

13 Specifications

General	
Frequency Range	RX: 136~174MHz 220~260MHz 400~512MHz TX: 144~148MHz 222~225MHz 420~450MHz
Number of Channels	750 channels
Channel Spacing	12.5KHz
Phase-locked Step	2.5KHz，5KHz，6.25KHz，8.33KHz，10KHz，12.5KHz，15KHz，20KHz，25KHz．
Operating Voltage	13.8V DC ±15%
Squelch	Carrier/CTCSS/DCS/5Tone/2Tone/DTMF
Frequency Stability	±2.5ppm
Operating Temperature	-20~+60℃
Dimensions(WxHxD)	140(W)x50(H)x210(D)mm
Weight	about 1.38kg

Receiver	
Sensitivity (12dB SINAD)	≤0.35μV
Adjacent Channel Selectivity	≥60dB
Audio Response	+1~-3dB(0.3~2.55KHz)
Hum & Noise	≥40dB
Audio distortion	≤5%
Audio power output	＞2W@10%

Transmitter	
Power Output	50W/25W/10W/5W(VHF1) 25W/15W/10W/5W(VHF2) 40W/25W/10W/5W(UHF)
Modulation	11KΦF3E
Adjacent Channel Power	≥60dB
Hum & Noise	≥36dB
Spurious Emission	≥70dB
Audio Response	+1~-3dB(0.3~2.55KHz)
Audio Distortion	≤5%

51 GROUPS CTCSS TONE FREQUENCY(HZ)

62.5	77.0	91.5	107.2	127.3	151.4	167.9	183.5	199.5	225.7	254.1
67.0	79.7	94.8	110.9	131.8	156.7	171.3	186.2	203.5	229.1	Self Define
69.3	82.5	97.4	114.8	136.5	159.8	173.8	189.9	206.5	233.6	
71.9	85.4	100.0	118.8	141.3	162.2	177.3	192.8	210.7	241.8	
74.4	88.5	103.5	123.0	146.2	165.5	179.9	196.6	218.1	250.3	

1024 GROUPS DCS CODE

000	001	002	003	004	005	006	007
010	011	012	013	014	015	016	017
020	021	022	023	024	025	026	027
030	031	032	033	034	035	036	037
040	041	042	043	044	045	046	047
050	051	052	053	054	055	056	057
060	061	062	063	064	065	066	067
070	071	072	073	074	075	076	077
100	101	102	103	104	105	106	107
110	111	112	113	114	115	116	117
120	121	122	123	124	125	126	127
130	131	132	133	134	135	136	137
140	141	142	143	144	145	146	147
150	151	152	153	154	155	156	157
160	161	162	163	164	165	166	167
170	171	172	173	174	175	176	177
200	201	202	203	204	205	206	207
210	211	212	213	214	215	216	217
220	221	222	223	224	225	226	227
230	231	232	233	234	235	236	237
240	241	242	243	244	245	246	247
250	251	252	253	254	255	256	257
260	261	262	263	264	265	266	267
270	271	272	273	274	275	276	277
300	301	302	303	304	305	306	307
310	311	312	313	314	315	316	317
320	321	322	323	324	325	326	327
330	331	332	333	334	335	336	337

340	341	342	343	344	345	346	347
350	351	352	353	354	355	356	357
360	361	362	363	364	365	366	367
370	371	372	373	374	375	376	377
400	401	402	403	404	405	406	407
410	411	412	413	414	415	416	417
420	421	422	423	424	425	426	427
430	431	432	433	434	435	436	437
440	441	442	443	444	445	446	447
450	451	452	453	454	455	456	457
460	461	462	463	464	465	466	467
470	471	472	473	474	475	476	477
500	501	502	503	504	505	506	507
510	511	512	513	514	515	516	517
520	521	522	523	524	525	526	527
530	531	532	533	534	535	536	537
540	541	542	543	544	545	546	547
550	551	552	553	554	555	556	557
560	561	562	563	564	565	566	567
570	571	572	573	574	575	576	577
600	601	602	603	604	605	606	607
610	611	612	613	614	615	616	617
620	621	622	623	624	625	626	627
630	631	632	633	634	635	636	637
640	641	642	643	644	645	646	347
650	651	652	653	654	655	656	657
660	661	662	663	664	665	666	667
670	671	672	673	674	675	676	677
700	701	702	703	704	705	706	707
710	711	712	713	714	715	716	717

720	721	722	723	724	725	726	727
730	731	732	733	734	735	736	737
740	741	742	743	744	745	746	747
750	751	752	753	754	755	756	757
760	761	762	763	764	765	766	767
770	771	772	773	774	775	776	777

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