



## THANK YOU!

We are grateful you chose **ADI**  for your land mobile radio applications. We believe this easy-to-use transceiver will provide dependable and reliable communication to personnel operating at peak efficiency.

**ADI**  transceivers incorporate the latest in advanced technology. As a result, we feel strongly that you will be pleased with the quality and features of this product!

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Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user manual for further information.



**SWITCH ON SAFELY**

Do not switch the device on when transceiver use is prohibited or when it may cause interference or danger.



**ROAD SAFETY COMES FIRST**

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.



**INTERFERENCE**

All wireless devices may be susceptible to interference, which could affect performance.



**SWITCH OFF IN HOSPITALS**

Follow any restrictions. Switch the device off near medical equipment.



**SWITCH OFF IN AIRCRAFT**

Follow any restrictions. Wireless devices can cause interference in aircraft.



**SWITCH OFF WHEN REFUELING**

Do not use the device at a refueling point. Do not use near fuel or chemicals.



### SWITCH OFF NEAR BLASTING

Follow any restrictions. Do not use the device where blasting is in progress.



### USE SENSIBLY

Use only in the normal position as explained in the product documentation. Do not touch the antenna unnecessarily.



### QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



### ENHANCEMENTS AND BATTERIES

Use only approved enhancements and batteries. Do not connect incompatible products.



### WATER-RESISTANCE

Your device is not fully water-resistant. Keep it dry.



### BACK-UP COPIES

Remember to make back-up copies or keep a written record of all important information.



### CONNECTING TO OTHER DEVICES

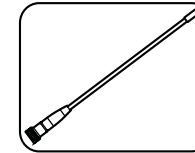
When connecting to any other device, read its user manual for detailed safety instructions. Do not connect incompatible products.

Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

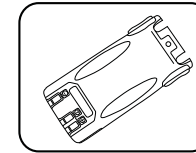
### Packing Lists



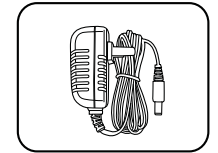
Radio



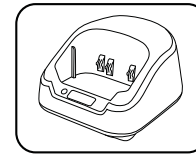
Antenna



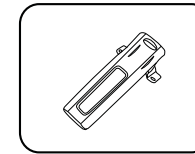
Battery Pack



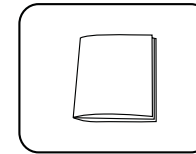
Adapter



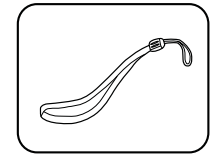
Desktop Stand



Belt Clip



User Manual



Handstrap

**Charging the Battery Pack****1. Using the Battery Pack.**

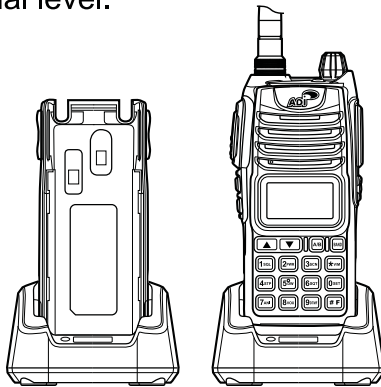
The battery pack is not charged at the factory, please charge it before use. To extend the battery pack lifetime, please power off the transceiver and remove the battery pack when not in use.

**2. Battery Pack Characteristics.**

The battery will slowly wear out even not in use. After charging and recharging, it's normal that the talk and standby times are noticeably shorter than normal times. If leaving the battery in very hot or cold place, it will reduce the capacity and lifetime of the battery. Overcharging may also shorten its lifetime.

**3. Charging the Battery Pack.**

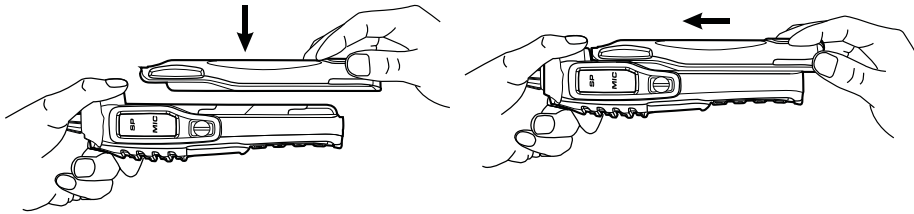
Please charge your battery only with approved **ADI** charger. Initially charging the battery pack after purchase or extended storage (greater than 2 months) will not bring the battery pack to its normal operating capacity. After repeating the charge/discharge cycle two or three times, the operating capacity will increase to normal level.

**Please charge the battery pack as follows:**

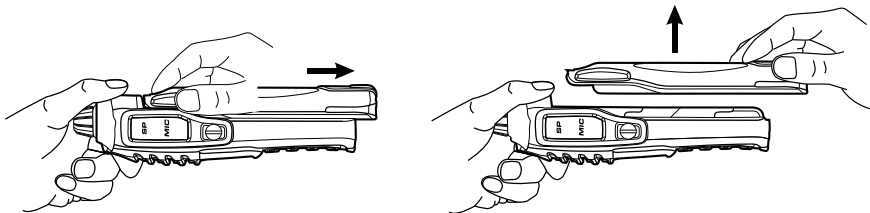
1. Slide the battery pack or transceiver with a battery pack into the desktop charger.
2. Make sure the battery pack contacts are in contact with the charging terminals.
3. The charging LED lights red and charging begins.
4. After charging about 4 hours, when the light turns to green, it means the battery pack is fully charged.
5. Then you can take off the battery pack or transceiver with the battery pack and use it.

**Installing/Removing the Battery Pack**

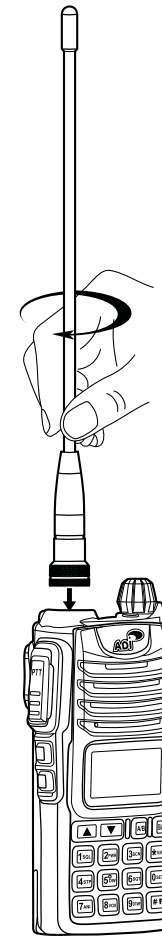
To install the battery pack, align the battery with guide rails on the transceiver unit, slide the battery upwards until you hear a "click" and the battery latch on the top locks the battery.



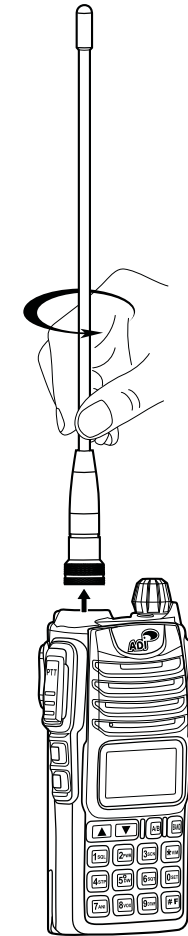
To remove the battery pack, press the battery latches on both top sides of the battery, slide downward. Pull the top part of battery away from the transceiver's body, and lift the battery from the transceiver's body.

**Attaching/Removing the Antenna**

1. Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure (Figure 1).
2. Turn the antenna counter clockwise until you can remove it (Figure 2).



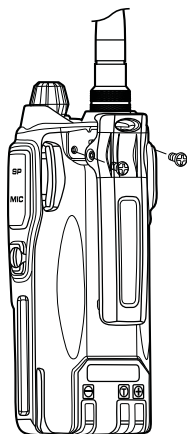
(Figure 1)



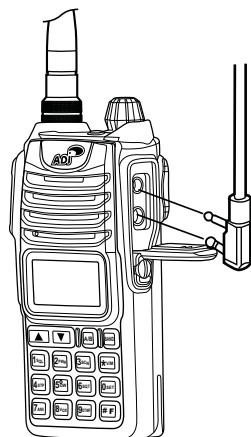
(Figure 2)

**Installing the Belt Clip**

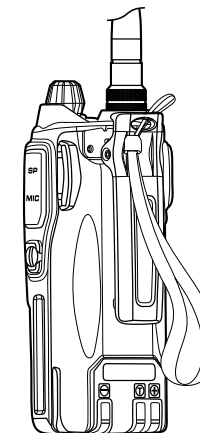
If necessary, screw the belt clip at the back of aluminum plate.

**Installing the Earphone**

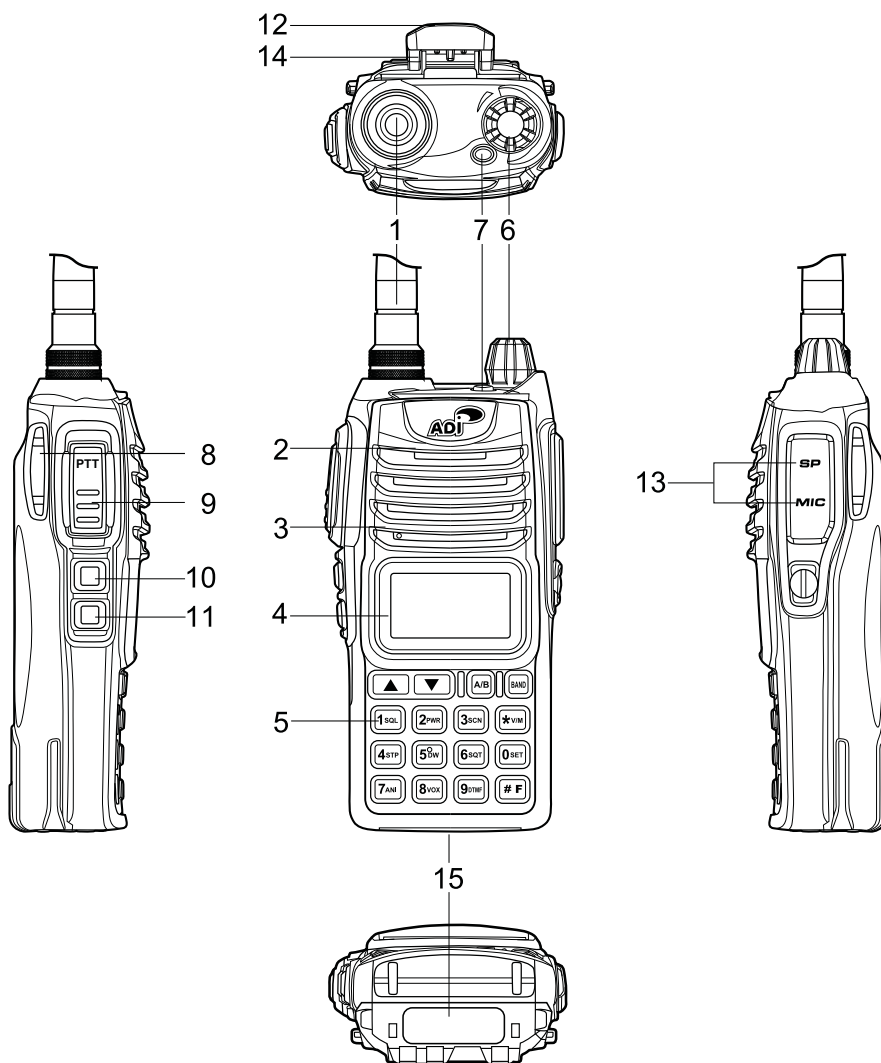
Insert the earphone plug into the speaker/microphone jacks.

**Installing Hand Strap**

If necessary, you can install the hand strap in the back of transceiver's belt clip in order to easy carry.



## Orientation



## 1. Antenna

Rubber antenna using for receiving or transmitting a signal.

## 2. Speaker

Output the audio.

## 3. Internal Microphone

Input the audio signal while you talk.

## 4. LCD Display

On the display you will see various indicators which show what function you have selected.

## 5. Keypad

Input frequency, memory channel or function selection etc.

## 6. Power Switch/Volume Control

Rotate clockwise to switch power On or to increase the audio output level; Rotate counter-clockwise to switch power Off or to reduce the audio output level.

## 7. TX/RX Indicator

Lights red while transmitting; Light green while receiving a signal.

## 8. Battery Lock Button

Use to lock/unlock the battery pack

## 9. PTT Switch

Push and hold to transmit, release to receive.

## 10. Programming Key (P1)

The default setting of short key is Monitor function. Push and hold to open the squelch temporarily and monitor the operating frequency.

The default setting of long key is None function.



**11. Programming Key (P2)**

The default setting of short key is Lamp function. Push to light the LCD backlight, re-push to turn OFF the backlight.

The default setting of long key is None function.

**12. Hand Strap Hook**

The loop on the top of belt clip, it is facilitated to carrying the transceiver.

**13. Earphone/ Data Cable Jack**

Connects an earphone; or connects a data cable for PC software programming.

**14. Belt Clip**

If necessary, attach the belt clip at the back of aluminum plate.

**15. Li-ion Battery Pack**

Supply the power to the transceiver.

**Programmable Auxiliary Functions**

Your dealer may program the [P1]/[P2] (long press) as long keys and the [P1]/[P2] (short press) as short keys with one of the following auxiliary functions respectively.

No.	Feature	Description
1	ALARM	Press the programmed Emergency feature key to emit emergency alarm.
2	1750Hz	Press and hold the programmed 1750Hz feature key to transmit a 1750Hz signal; release to stop transmitting.
3	SCN SW	Press the programmed Scan Skip key to lock out memory channels that you prefer not to monitor during Memory Channel Scan.
4	LAMP	Press the programmed Lamp feature key to turn ON/OFF the background lamp of keypad or LCD display.
5	NONE	No function.
6	SQ OFF	Press the programmed Squelch Off key to open noise squelches. Press it again to close.
7	SQ MOM	Press the programmed Squelch Off Momentary key to open noise squelch. Release it to close.
8	MONI	Press the programmed Monitor key to open signaling squelch. Press it again to close.
9	MONI M	Press the programmed Monitor Momentary key to open signaling squelch. Release it to close.
10	CALL	When already switch DTMF feature ON, press and hold the programmed Call feature key, then press one number from 0~9 via keypad to transmit the stored DTMF code signaling.




































**Note:**

You can set the time of pressing long key from 0.3-2.5 seconds(default: 1 second) with programming software, when you press anyone of [P1]/[P2] keys, the time of pressing is over your setting time, then it's a long time key, otherwise, it's a short key.

The default programmed feature:

Key	Short Press	Long Press
P1	MONI	NONE
P2	LAMP	NONE

**Keypad Description**

Key	Band	What You Operate
	B1/B2/ B3/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key to adjust the squelch level.
	B2/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key to switch between the high/low power output level.
	B1/B2/ B3/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key to activate scanning of frequencies and memory channels.
	B1/B2/ B3/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key to select the channel step size as follows: , 6.25, 10, 12.5, 25, 50, 100KHz and 1MHz.
	B1/B2/ B3/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] to switch dual watch function.
	B2/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key to switch CTCSS/DCS function ON/OFF.
	B2/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key to show/no show ANI code.
	B2/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key to switch VOX function ON/OFF.
	B2/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key, and input DTMF codes via keypad to transmit DTMF code quickly.
	B1/B2/ B3/B4	In VFO/MR/CH/NM mode, press [  ]+[  ] key to access menu mode.
	B1/B2/ B3/B4	1) In VFO/MR/CH/NM mode, press [  ] key to change the transceiver working mode between VFO and MR/CH/NM modes. 2) In VFO mode, press [  ]+[  ] key to save memory channel. 3) When access menu system to edit open message or channel name, press [  ] key to clear all the content which already input and return back re-input mode.

Key	Band	What You Operate
#F	B1/B2/ B3/B4	1) In VFO/MR/CH/NM mode, press and hold [ #F ] key for 3 seconds to lock/unlock the keypad. 2) In VFO/MR/CH/NM mode, press [ #F ] key to activate the second function with other keys in 10 seconds. 3) When access menu system, press [ #F ] key to access menu or confirm your setting. 4) Press [ #F ]+Power On to initialize settings or delete memory channel.
▲	B1/B2/ B3/B4	Press [ ▲ ] key to select an operating channel, menu value or others.
▼	B1/B2/ B3/B4	Press [ ▼ ] key to select an operating channel, menu value or others.
A/B	B1/B2/ B3/B4	1) In VFO/MR/CH/NM mode, press [ A/B ] key to change current working main band. 2) When access menu system to edit open message or channel name, press [ A/B ] key to clear all the content which already input and return back last menu.
BAND	B1/B2/ B3/B4	1) In VFO/MR/CH/NM mode, press [ BAND ] key to select current working band. 2) In VFO mode, when input frequency but before entering the 6th digit via keypad, you can press [ BAND ] key to erase the previous number you input. Press once to erase one number, till erase all frequency numbers and exit input model. 3) When access menu system to edit open message or channel name, press [ BAND ] key to save your current input content, after finishing all input contents, press [ #F ] key to current setting mode and return back to last menu.

### Working Band

There are two main working band and four working band for selection, choose the correct working band is essential in order to operate smoothly.

#### ■ Change Main Working Band

Press [ A/B ] key once to change Band A and Band B.

- A or B will appear on LCD display and show you the current main working band.

#### ■ Change Working Band

After confirmation of main band, you can select the current working band. In VFO mode, press [ BAND ] key once to change between B1, B2, B3 and B4 orderly to select your desired working band.

- The current main working band and working band will appear on LCD display.
- You can change the working band only in VFO mode, in MR/CH/NM mode, you can't change working band.

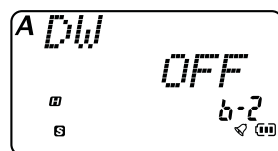
Band (Abbr.)	Indicator	TX (MHz)	RX (MHz)
The First Band (B1)	b-1	No	87.500~108.000
The Second Band (B2)	b-2	136.000~174.000	134.000~176.000
The Third Band (B3)	b-3	No	200.000~260.000
The Fourth Band (B4)	b-4	400.000~470.00	400.000~470.000

## ■ Dual Frequency/Dual Display/Dual Standby (DW)

In order to monitor dual frequency or dual channels, you can use DW function.

1. After confirmation of main working band, press [**#F**]+[**5DW**] key.

- *The menu appears.*



2. Use [**▲**]/[**▼**] key to switch DW function ON/OFF.

3. Press [**#F**] key to finish and exit setting mode.

- *When "DW" appears on LCD display, it means the DW function is already switched ON, otherwise, the DW function is switched OFF.*

### **Note:**

*When switch DW function ON, your transceiver will automatically scan the current two working band, when detecting a signal, remains for approximately 3 seconds, and then continues to scan.*

## Basic Transceiver Modes

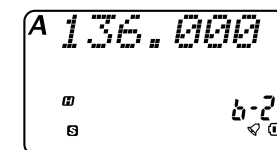
This section introduces you to the basic modes you can select on this transceiver.

### ■ VFO Mode (VFO)

VFO is an abbreviation of Variable Frequency Oscillator.

Frequencies for both transmitting and receiving are generated and controlled by the VFO.

Switch the power ON, in this mode you can change the desired operating frequency by using [**▲**]/[**▼**] key or via numeric keypad direct input.

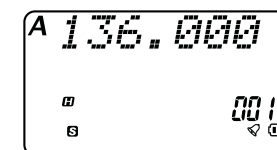


### ■ Memory Recall Mode (MR)

Memory recall mode is used for operation on memory channels which store programmed frequencies.

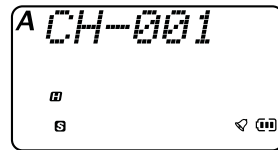
Press [**\*VM**] key to select, in this mode you can change memory channels, using [**▲**]/[**▼**] key or numeric keypad, where you stored frequencies or related data.

**Note:** *You can't access this mode unless you program one memory channel at least.*



## ■ Channel Display Mode (CH)

In MR mode, press [ # F ]+[ 0SET ] key to access menu system, then use [ ▲ ]/[ ▼ ] key to select Menu No.2 for Band A or Menu No.3 for Band B, then press [ # F ] key to confirm selection, use [ ▲ ]/[ ▼ ] key again to select "CHANNEL" and press [ # F ] key to confirm your selection, at last press [PTT] switch to quit menu system and press [ \*VM ] key to select CH mode.



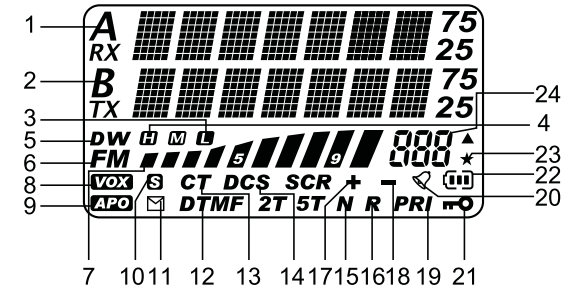
**Note:** You can't access this mode unless you program one memory channel at least.

## ■ Channel Name Mode (NM)

In MR mode, press [ # F ]+[ 0SET ] key to access menu system, then use [ ▲ ]/[ ▼ ] key to select Menu No.2 for Band A or Menu No.3 for Band B, then press [ # F ] key to confirm selection, use [ ▲ ]/[ ▼ ] key again to select "NAME" and press [ # F ] key to confirm your selection, at last press [PTT] switch to quit menu system and press [ \*VM ] key to select NM mode.

## LCD Display

On the LCD display you will see various indicators show what functions you have selected. Sometimes you may not recall what these indicators mean or how to select them. In such a case, you will find the following description very useful.



No.	Indicator	Description	Band	Operation
1	A [Bar Graph]	Display various alphanumeric information of Band A, such as: frequency, an operating channel or menu selection.	—	—
2	B [Bar Graph]	Display various alphanumeric information of Band B, such as: frequency, an operating channel or menu selection.	—	—
3	L	Low Output Power	B2/B4	Press [ # F ]+[ 2PWR ]
4	H	High Output Power	B2/B4	Press [ # F ]+[ 2PWR ]
5	DW	Dual Watch Receiving Signal	B1/B2 B3/B4	Press [ # F ]+[ 5DW ]
6	FM	FM Radio	B1	Press [ BAND ] key many times to make sure select "B1" as current working band.
7	[Bar Graph]	<ul style="list-style-type: none"> <li>While transmitting, show the relative power output level: [Bar Graph]:HI [Bar Graph]:LOW</li> <li>While receiving, show the relative strength of received signal.</li> </ul>	—	—
8	VOX	Hands-Free Vox	B2/B4	Press [ # F ]+[ 8VOX ]
9	APO	Automatic Power Off	B1/B2 B3/B4	Use Menu No.1

No.	Indicator	Description	Band	Operation
10		Power Saving	B1/B2 B3/B4	Use Menu No.24
11		Signaling Decoding Success Indicator	—	—
12	<b>DTMF</b>	DTMF	B2/B4	Use Menu No.7
13	<b>CT</b>	CTCSS	B2/B4	Press []+[]
14	<b>DCS</b>	DCS	B2/B4	Press []+[]
15	<b>N</b>	Narrow Band	B1/B2 B3/B4	Use Menu No.38
16	<b>R</b>	Reserve function	B2/B4	Use Menu No.23
17	<b>+</b>	Plus Offset Direction	B2/B4	In VFO mode, use Menu No.15
18	<b>-</b>	Minus Offset Direction	B2/B4	In VFO mode, use Menu No.15
19	<b>PRI</b>	Priority Scan	B1/B2 B3/B4	In MR/CH/NM mode, user Menu No. 20
20		Keypad Beeper	B1/B2 B3/B4	Use Menu No.4
21		Appear when the key lock function is activated.	B1/B2 B3/B4	Press and hold [] key for 2 seconds
22		Battery Gauge Indicator	—	—
23	<b>*</b>	Lock/Unlock Memory Channel when scan.	B2/B4	Through one of Menu No.25, 26, 27, 28 to program the long press or short press programmed feature of [P1] or [P2] key is: SCN SW(Current Channel Scan Add/Del), then in MR/CH/NM mode, press the programmed key.
24		Display the current memory channel or menu No.	—	—

### Turning Transceiver ON/OFF

1. Turn the [Power] switch clockwise to turn ON the transceiver.
  - A music tone sounds.
2. To turn OFF the transceiver, turn the [Power] switch counter-clockwise.

### Adjusting the Volume

- Turn the [Volume] control clockwise to increase the audio output level and counter-clockwise to decrease the audio output level.
- If background noise is inaudible because of the squelch function, press and hold [P2] key (the default setting is SQ OFF), then turn [Volume] control to adjust the audio level you desire.

### Frequency/Channel Selection

- Press [] key to increase the frequency/channel, press [] key to decrease the frequency/channel.
- You can input number directly to select the frequency and memory channel you desired.

### Transmitting

1. When ready to begin transmitting, press and hold [PTT] switch and speak in a normal voice level.
  - The TX/RX indicator on the top panel lights red and S/RF meter shows the output power level.
  - Speaking too close to the microphone, or too loudly, may increase distortion and reduce intelligibility of your signal at the receiving transceiver.
2. When you finish speaking, release [PTT] switch to receive.

### Receiving

Your dealer may have programmed CTCSS/DCS signaling in your transceiver. If your selected channel is programmed with one of these features, you will hear calls only when another party in your system transmits. All other calls will not be heard.

If your selected channel is not set up with a signaling type, you will hear calls made by any party (not just those in your system).

### Menu Access

1. In VFO/MR/CH/NM mode, press [ **# F** ]+[ **0 SET** ] key to enter Menu mode.

- *The menu appears.*



2. Use the [ **▲** ]/[ **▼** ] key to select the desired Menu Number.

3. Press [ **# F** ] key to confirm the selection

4. Then use the [ **▲** ]/[ **▼** ] key to switch ON/OFF or select numeric values.

5. Press [ **# F** ] key again to complete the setting.

6. Press any other than [ **A/B** ], [ **BAND** ], [ **PTT** ], [ **P1** ], [ **P2** ] key to exit menu mode.

### Note:

*In this manual, when you enter and use menu system to select, or want to activate the second function when press [ **# F** ] key with other keys, please make sure the operation in 10 seconds after pressing [ **# F** ] key. Otherwise, the transceiver will turn back to original working mode.*



## Menu Configuration

No.	Display	Description	Operation	Default
1	APO	Automatic Power Off	OFF, 1-15H	OFF
2	A.DISP	Select Working Mode of A Band	FREQ/CHANNEL/NAME	FREQ
3	B.DISP	Select Working Mode of B Band	FREQ/CHANNEL/NAME	FREQ
4	BEEP	Keypad Beeper	ON/OFF	ON
5	BCLO	Busy Channel Lock Out	OFF/ON	OFF
6	DC VOLT	Current Battery Indicator	---	---
7	DTMF	Dual Tone Multi Frequency	OFF/ON	OFF
8	DTMF ST	Dual Tone Multi Frequency Prompt Tone	ON/OFF	ON
9	LAMP MD	Backlight Control	KEY/CONT/OFF	KEY
10	LAMP T	Light Time of Backlight	1S-10S	5S
11	LAMP C	Color of Backlight	LAMP1/LAMP2/LAMP3	LAMP1
12	LOCK MD	Transceiver Lock Mode	K+S/ALL /PTT/KEY	K+S
13	MSG SET	Open Message Setting	Edit by user	---
14	NM SET	Set-up Name of Memory Channel	Edit by user	---
15	OFFSET	Selecting Offset Direction	OFF/OFFSET+/OFFSET-	OFF
16	O.FREQ	Selecting Offset Frequency	00.000~99.999	00.000
17	OPN MSG	Open Message	LOGO/MESSAGE/OFF/DC VOLT	LOGO
18	PASSWORD	Password Protection	OFF/ON	OFF
19	PSWDSET	Program the Password	Program by User	---
20	PRI SET	Priority Channel setting	OFF, CH001-CH200	OFF
21	PTT-ID	Push-To-Talk ID	OFF/ON	OFF
22	ROGER	Roger Tone	OFF/ON	OFF
23	RPT MD	Reserve/Talk Off	OFF/REVERSE/TALKARN	OFF
24	RX SAVE	Battery Saver	ON/OFF	ON

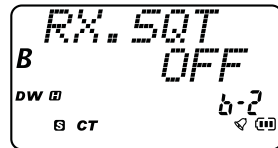
25	SK1 LOG	Select the default function of [P1] when long press.	NONE/SQ OFF/SQ MOM/ MONI/MONI M/CALL/ALARM/ 1750Hz/SCN SW/LAMP	NONE
26	SK1 SHT	Select the default function of [P1] when short press.	LAMP/NONE/SQ OFF/ MONI/CALL/SCN SW	LAMP
27	SK2 LOG	Select the default function of [P2] when long press.	NONE/SQ OFF/SQ MOM/ MONI/MONI M/CALL/ALARM/ 1750Hz/SCN SW/LAMP	NONE
28	SK2 SHT	Select the default function of [P2] when short press.	SQ OFF/ MONI/CALL/ SCN SW/LAMP/NONE	SQ OFF
29	STE	Squelch Tail Elimination	ON/OFF	ON
30	SCAN MD	Scan Method	TO/CO/SE	TO
31	SQ MODE	Squelch Mode	AND/OR/QT/SIG	AND
32	TOT	Time-Out Timer	OFF, 1-7MIN	3M
33	TX STOP	Transmitting Inhibit	OFF/ON	OFF
34	VOL FM	Adjust the volume of FM radio	1-10	5
35	VOX BCL	VOX Busy	OFF/ON	OFF
36	VOX LVL	VOX Sensitivity	LEVEL 1 - LEVEL 4	LEVEL 2
37	VOX DLY	Select Hands-free VOX delay time	1S-4S	3S
38	WID/NAR	Wide/Narrow Band Selection	WIDE/NARROW	WIDE
39	DW RET	In dual display/standby working mode, when a signal disappears, then the system will return back to current main working band.	ON/OFF	ON
40	FM STRO	Only receive the stronger FM radio signal	ON/OFF	ON



You may sometimes want to hear calls from only specific persons or groups. The CTCSS/DCS allows you to ignore (not hear) unwanted calls from other persons who are using the same frequency. Simply select the same CTCSS/DCS as selected by the other persons in your group. A CTCSS tone is sub-audible tone and is selectable from among the 51 tone frequencies and a DCS code is from among the 214 normal and invert codes.

### Set Receiving with CTCSS/DCS

1. In VFO/MR/CH/NM mode of B2/B4, use [▲]/[▼] key or keypad to select the frequency or memory channel.
2. Press [#F]+[6<sup>SORT</sup>] key to switch CTCSS /DCS function ON/OFF.
  - "RX.SQT" will flash on LCD display.



3. Use [▲]/[▼] key to select circularly from the following:

**RX.SQT OFF:** receiving without CTCSS/DCS.

**RX.CTC 63.0:** receiving with CTCSS tone.

**RX.NDCS 017:** receiving with normal DCS code.

**RX.IDCS 017:** receiving with invert DCS code.

4. Then press [#F] key to enter setting mode and use [▲]/[▼] key to select CTCSS/DCS.
5. Press [#F] key to finish setting receiving with CTCSS/DCS, you can set transmitting with CTCSS/DCS.
  - "TX.SQT" will appear on LCD.

### Set Transmitting with CTCSS/DCS

The operation of setting transmitting with CTCSS/DCS is the same as receiving, except press [#F]+[6<sup>SORT</sup>] key to switch CTCSS/DCS function ON/OFF and "TX" instead of "RX" on LCD.

*Note:*

- "CT" will appear on LCD when CTCSS function is activated.  
"DCS" will appear on LCD when DCS function is activated.  
Both "CT" & "DCS" will appear on LCD when CTCSS & DCS function is activated.
- All operation should be done in 10 seconds, otherwise, the transceiver will return to current working mode, you have to re-operate from the beginning.

**Standard CTCSS Tones Table**

1 - 63.0	14 - 100.0	27 - 156.7	40 - 196.6
2 - 67.0	15 - 103.5	28 - 159.8	41 - 199.5
3 - 69.3	16 - 107.2	29 - 162.2	42 - 203.5
4 - 71.9	17 - 110.9	30 - 165.5	43 - 206.5
5 - 74.4	18 - 114.8	31 - 167.9	44 - 210.7
6 - 77.0	19 - 118.8	32 - 171.3	45 - 218.1
7 - 79.7	20 - 123.0	33 - 173.8	46 - 225.7
8 - 82.5	21 - 127.3	34 - 177.3	47 - 229.1
9 - 85.4	22 - 131.8	35 - 179.9	48 - 233.6
10 - 88.5	23 - 136.5	36 - 183.5	49 - 241.8
11 - 91.5	24 - 141.3	37 - 186.2	50 - 250.3
12 - 94.8	25 - 146.2	38 - 189.9	51 - 254.1
13 - 97.4	26 - 151.4	39 - 192.8	

**Standard DCS Codes Table**

017	054	132	212	263	346	445	523	654
023	065	134	223	265	351	446	526	662
025	071	143	225	266	356	452	532	664
026	072	145	226	271	364	454	546	703
031	073	152	243	274	365	455	565	712
032	074	155	244	306	371	462	606	723
036	114	156	245	311	411	464	612	731
043	115	162	246	315	412	465	624	732
047	116	165	251	325	413	466	627	734
050	122	172	252	331	423	503	631	743
051	125	174	255	332	431	506	632	754
053	131	205	261	343	432	516	645	

In memory channels, you can store frequency and related data which you often use. Then you don't need re-program these data each time. Just by simple operation to recall the channels you needed. There are total 200 memory channels for selection.

**Storing Data in Memory Channels**

1. In VFO mode, select the desired frequency.
2. Press [ # F ]+[ \*MEM ] key.
  - A memory channel number appears.
3. Input 3 digits channel number via keypad.
  - If the channel selected in the previous step already contained data, the channel number will flash, otherwise, this channel number is not used.
4. Press [ \*MEM ] key to complete and return to VFO working mode.
  - The selected frequency and related data are stored in the memory channel.
  - If the channel selected in the previous step already contained data, the new data will overwrite the old one.

**Naming Memory Channels**

You can name memory channels using up to 7 alphanumeric characters. When you recall a named memory channel, its name appears on the LCD instead of the channel number. Names can be callsigns, repeater names, names of people, ect. Of cause, this naming can also to be operated by programming software.

## ■ Switching/Setting/Amending/Clearing Memory Channel Name

1. In MR/CH/NM mode, use [ **A/B** ] key or [ **▲** ]/[ **▼** ] key to select your desired memory channel.
2. Press [ **#F** ]+[ **0SET** ] key to enter menu system.
3. Use [ **▲** ]/[ **▼** ] key to select Menu No.14, then press [ **#F** ] key to confirm.

- *The first digit blinks.*



4. Use [ **▲** ]/[ **▼** ] key to select first alphanumeric character.
  - *You can choose: 0-9, A-Z, a-z, !, “, #, \$, %, &, ”, (, ), \*, +, ,, -, ., /, :, ;, <, =, >, ?, @, [, ], ^, \_ , ` , {, |, } or a blank.*
5. Press [ **BAND** ] key to input the next character.
  - *The second digit blinks.*
6. Repeat Step 4 and Step 5 to input up to 7 digits.
7. After inputting the 7th digit, press [ **#F** ] key to finish and exit setting mode.
  - *If want to amend/clear the memory channel name which you just input, press [ **BAND** ] key when finish to input the 7th digit, the cursor will move to the first digit, at this time, please operate from Step 4.*
  - *If want to set the next memory channel's name, please operate from Step 1.*
8. Press [PTT] switch to exit menu system.

## ■ Channel Display Function

When this function is switched ON, the transceiver displays only a memory channel number instead of a frequency.

1. In MR/CH/NM mode, use [ **A/B** ] key or [ **▲** ]/[ **▼** ] key to select a memory channel.
  - *You can't enter this mode unless you program one memory channel at least.*
2. Press [ **#F** ]+[ **0SET** ] key to access menu system.
3. Use [ **▲** ]/[ **▼** ] key to select Menu No.2 for Band A or Menu No.3 for Band B, and press [ **#F** ] key to confirm selection.
  - *"NAME" will flash on LCD display.*
4. Use [ **▲** ]/[ **▼** ] key to select working mode.

**FREQ:** Display frequency and memory channel number.

**CHANNEL:** Only display memory channel number.

**NAME:** Display memory channel name edited by user.

5. If want to switch this function OFF, please operate from Step 3~Step 4.
6. Press [PTT] to exit setting mode.

## ■ Clearing Current Memory Channel

1. In MR/CH/NM mode, user [ **▲** ]/[ **▼** ] key to select a memory channel which will be erased.
2. Switch OFF the power of the transceiver. Then press and hold [ **#F** ] key, meanwhile, switch the power ON.
  - *A confirmation message "RESET ALL 001" appears.*



3. Use [▲]/[▼] key to select "RESET CURCH 003" menu.



4. Then press [#F] key to confirm, the memory channel will be cleared and return back to previous working mode.

## Clearing All Memory Channels

1. Switch OFF the power of the transceiver. Then press and hold [#F] key, meanwhile, switch the power ON.

- A confirmation message "RESET ALL 001" appears.



2. Use [▲]/[▼] key to select "RESET ALLCH 004" menu.

3. Then press [#F] key to confirm, the memory channel will be cleared and return back to previous working mode.

## Initializing Memory

If your transceiver seems to be malfunctioning, initializing the transceiver may resolve the problem. Remember that you need to re-program memory channels after initialization. On the other hand, initialization is a quick way to clear all memory channels.

### Note:

While using the Channel or Transceiver Lock function, you can't do Partial Reset nor Full Reset.

### ■ Partial Initialization (VFO)

Use to initialize all settings except the Memory Channels and Memory Channel Lockout.

1. Press [#F]+Power On.

- A confirmation message appears.



2. Then use [▲]/[▼] key to select "RESET VFOSET 002".

- A confirmation message appears.



3. Press [#F] key to finish setting and return to VFO mode.

### ■ Full Initialization (MR)

Use to initialize to factory default setting.

1. Press [#F]+Power On.

- A confirmation message "RESET ALL 001" appears.



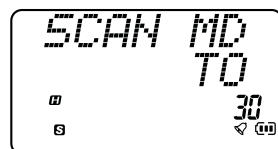
2. Press [#F] key to finish setting.

Scan is a useful function for hands-off monitoring of your favorite channels. By becoming comfortable with all types of scan, you will increase your operating efficiency.

### Scan Resume Method

Before using scan, it's necessary to decide under what condition you want your transceiver to continue scanning after detecting and stopping for a signal. You can choose one of the following modes.

1. In VFO/MR/CH/NM mode, press [ **#F** ]+[ **0** ] key to access menu system, and use [ **▲** ]/[ **▼** ] key to select Menu No.30.
2. Press [ **#F** ] key to choose one of the scan modes.
  - "TO" will flash on LCD display.



3. Use [ **▲** ]/[ **▼** ] key to select circularly from the following 3 modes:

#### TO (Time-Operated Mode)

Your transceiver stops scanning when detecting a signal, remains for approximately 5 seconds, and then continues to scan even if the signal is still present.

#### CO (Carrier-Operated Mode)

Your transceiver stops scanning when detecting a signal and remains on the same channel until the signal drops out. There is a 2 seconds delay between signal drop-out and scan resumption to allow time for any responding stations to begin transmitting.

#### SE (Search-Operated Mode)

Your transceiver stops scanning and remains the current signal when detecting a signal.

4. Press [ **#F** ] key to finish setting and return back to menu system.
5. Press any one of [ **A/B** ], [ **BAND** ], [ **PTT** ], [ **P1** ], [ **P2** ] key to exit menu system and return back to previous working mode.

### Scan Operation

Scan allows you to scan all frequencies from the lowest to the highest frequency on the band. The current frequency step size is used.

1. In VFO/MR/CH/NM mode, Press [ **#F** ]+[ **3** ] key to star scan.
  - Scan starts at the frequency currently displayed.
  - To reverse the scan direction, use [ **▲** ] (upward scan) or [ **▼** ] (downward scan) key.
2. To quit Scan, press any key other than [ **▲** ]/[ **▼** ] key.

#### Note:

- In MR/CH mode, There must be 2 memory channels at least.
- The Squelch function must be close before scan.

## Locking Out Memory Channels

You can lock out memory channels that you prefer not to monitor during Memory Channel Scan.

1. Through one of Menu No.25, 26, 27, 28 to program the long press or short press programmed feature of [P1] or [P2] key is: "**SCN SW**"(Current Channel Scan Add/Del).
2. In MR/CH/NM mode, use [▲]/[▼] key to select the memory channel to be lock out/unlock out.
3. Then press the programmed "**SCN SW**" feature key to lockout/unlock out.
  - When "★" appears on LCD display, it means the current memory channel is not locked out, otherwise, the memory channel is locked out.

## Priority Scan

This feature will automatically check a primary channel for activity while receiving a call on a non-priority channel.

1. In MR/CH/NM mode, press[#F]+[0SET] key to access menu system, use [▲]/[▼] key to select Menu No.20.
2. Press [#F] key to access setting mode.
3. Use [▲]/[▼] key to select your desired priority scan channel.
  - You can select CH-001~CH-200 or OFF.
4. Press [PTT] switch to save and exit menu system.

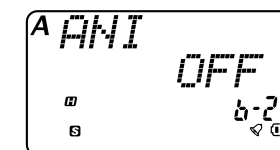
PTT ID is a generic term for an ANI-like system used in Two-way radio systems. It provides identification of the transmitting radio over the air, and is commonly used in selective calling/signaling systems.

### Note:

*Only the DTMF function is switched off, then you can use PTT ID function; if you switch DTMF function on, you can't use PTT ID function even you already switch PTT ID function on.*

## Switch PTT ID ON/OFF When Receiving

1. In VFO/MR/CH/NM mode of B2/B4, use [▲]/[▼] key or keypad to select the frequency or memory channel.
2. Press [#F]+[7ANI] key to access setting mode.
  - The menu appears on LCD display.

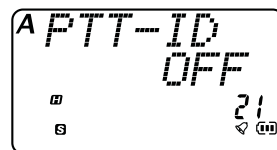


3. Use [▲]/[▼] key to select "ON" or "OFF".
4. Press [#F] key to confirm your setting and exit menu system.

## Switch PTT ID ON/OFF When Transmitting

1. In VFO/MR/CH/NM mode of B2/B4, use [▲]/[▼] key or keypad to select the frequency or memory channel.
2. Press [#F]+[0SET] key to access menu system, and use [▲]/[▼] key to select Menu No.21.
3. Press [#F] key to access setting mode.

- The menu appears on LCD display.



4. Use [▲]/[▼] key to select circularly from the following 4 types:

OFF(Off): when you press and release [PTT] switch, the transceiver will not transmit PTT ID code.

BOT(Begin of TX) : when you press [PTT] switch, the transceiver will transmit PTT ID code.

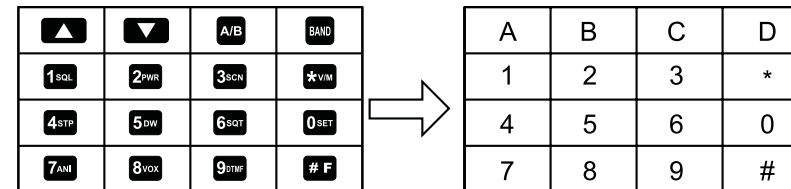
EOT(End of TX) : when you release [PTT] switch, the transceiver will transmit PTT ID code before ending of transmitting.

BOTH(Both): when you press [PTT] switch, the transceiver will transmit PTT ID code, when you release [PTT] switch, the transceiver will transmit PTT ID code before ending of transmitting.

5. Press [#F] key to finish setting and return back to menu system.
6. Press any of [A/B],[BAND],[PTT],[P1],[P2] key to exit menu system and return back to previous working mode

### Transmit PTT ID Directly

1. In VFO/MR/CH/NM mode of B2/B4, use [▲]/[▼] key or keypad to select the frequency or memory channel.
2. Press and hold [PTT] switch to transmit, when pushing, input ID code via keypad to transmit the relative PTT ID code.
  - There are 16 keys, including 0~9,\*,#, A,B,C,D.



3. To finish transmitting, just need to release [PTT] switch.

- After pressing the [PTT] switch or releasing the [PTT] switch, the transmitted tone will be heard, the quantity of transmitted tone is the same as the one of PTT ID code you programmed in software.
- If you don't want to hear the transmitted tone, please switch OFF through Menu No.8.

### Transmit PTT ID From Memory

There is a PTT ID code memory. You can transmit it quickly. This function is only operated by programming software.

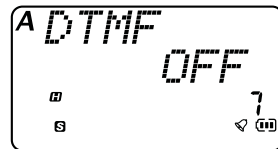
1. Program the PTT ID code memory by programming software.
  - You can input at most 16 digits PTT ID code, include: A, B, C, D, \*, #, 0~9.
2. Select the desired type of PTT ID.
3. Select the desired frequency/memory channel.
  - Please make sure the PTT ID function is switched on.
4. Press [PTT] switch or release [PTT] switch, the PTT ID code will be sent out.
  - After pressing the [PTT] switch or releasing the [PTT] switch, the transmitted tone will be heard, the quantity of transmitted tone is the same as the one of PTT ID code you programmed in software.
  - If you don't want to hear the transmitted tone, please switch OFF through Menu No.8.



Using this function, you can select these transceivers which you would like to call.

### Switch DTMF Function ON/OFF

- In VFO/MR/CH/NM mode of B2/B4, use [▲]/[▼] key or keypad to select the frequency or memory channel.
  - In MR/CH/NM mode, each separate memory channel can be switched on/off DTMF function.
- Press [#F]+[0SET] key to access menu system.
- Use [▲]/[▼] key to select Menu No.7.
- Press [#F] key.
  - The menu appears "OFF" (default).



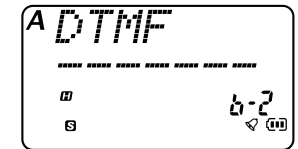
- Use [▲]/[▼] key to switch DTMF function ON/OFF.
- Press [#F] key to confirm your setting and return back to menu system.
- Press any one of [A/B],[BAND],[PTT],[P1],[P2] key to exit menu system and return back to previous working mode.

### Transmit a DTMF Code Directly

- In VFO/MR/CH/NM mode of B2/B4, use [▲]/[▼] key or keypad to select the frequency or memory channel.

- Press [#F]+[9DTMF] key.

- The menu appears on LCD display.



- Input your desired DTMF code via keypad.
  - Please input per code in 10 seconds, if over 10 seconds, the system will exit the input mode and return back to previous working mode.
  - You can input at most 15 digits DTMF code, include: A, B, C, D, \*, #, 0~9.
- When finish to input the code, press [PTT] switch to transmit.
  - The transmitted tone will be heard, the quantity of transmitted tone is the same as the one of DTMF code you programmed in software.
  - If you don't want to hear the transmitted tone, please switch OFF through Menu No.8.

### Transmit a DTMF Code From DTMF Memory

There are 16 DTMF memories. You can select and transmit the desired DTMF quickly. This function is only operated by programming software.

- Program DTMF memory by programming software.
  - You can input at most 15 digits DTMF code in 1~16 separately, include: A, B, C, D, E, F, \*, #, 0~9.
- Select the desired frequency/memory channel.
  - Please make sure the DTMF function is switched on.



3. Through one of Menu No.25, 26, 27, 28 to program the long
  - press or short press programmed feature of [P1] or [P2] key is: CALL(Call function).
4. Short or long press [P1]/[P2] key which already programmed Call function, then use [▲]/[▼]key or keypad to select the Call number.
5. At last, press [PTT] switch to transmit.
  - *Please make sure the [P2] key is CALL function.*

### Selective Call/Group Call/Remote Stun/Remote Kill/

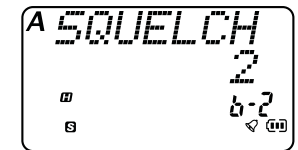
#### Activate Features

These features are only operated by programming software or your local dealer.

### Adjusting Squelch Level

The purpose of the squelch is to mute the speaker when no signals are present. With the squelch level correctly set, you will hear sound only while actually receiving signals. The higher the selected squelch level, the stronger the signals must be when receive. The appropriate squelch level depends on the ambient RF noise conditions.

1. In VFO/MR/CH/NM mode, press [ # F ]+[ 1SQL ] key to switch ON.
  - *The current squelch level appears.*

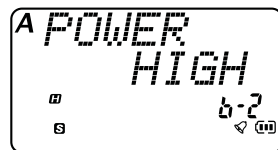


2. Use [▲]/[▼] key to select a squelch level from 0 to 9 (default: SQL 2).
  - *"Level 0" indicates continuously open setting, "Level 1" is loose squelch (for weak signals) and "Level 9" is tight squelch (for strong signals).*
  - *Select just the level at which the background noise eliminated when no signal is present.*
3. Press [ # F ] key to complete the setting.

### Transmit Output Power Selection

The transceiver has two output levels to suit your operating requirements. Low output power during short-range communications may reduce the possibility of interference to other stations and will reduce current consumption.

1. Press [ **BAND** ] key to make sure current working band is B2/B4.
2. In VFO/MR/NM mode, press [ **#F** ]+[ **2<sup>nd</sup>WR** ] key to switch ON.
  - *The current power output level appears.*

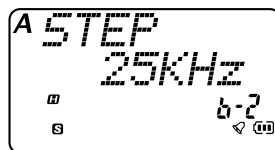


3. Use [ **▲** ]/[ **▼** ] key to select High/Low output power level.
  - *If H appears on LCD display, it means the current output is Low, Otherwise.*
  - *If L appears on LCD display, it means the current output is Low, Otherwise.*
4. Press [ **#F** ] key to complete the setting.

## Changing Frequency Step Size

Choosing the correct step size is essential in order to select your exact receive frequency.

1. In VFO mode, press [ **#F** ]+[ **4<sup>th</sup>WR** ] key to enter changing frequency step size menu.

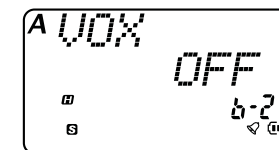


2. Use [ **▲** ]/[ **▼** ] key to select the step size desired.
  - *There are , 6.25, 10, 12.5, 25, 50, 100KHz and 1MHz for selection.*
3. Press any key other than [ **A/B** ], [ **BAND** ], [ **\*VWR** ], [ **P1** ], [ **P2** ] or [ **PTT** ] switch to complete the change.

## Hands-Free Operated (VOX)

VOX allows you to transmit hands-free with the transceiver or thru a headset. When you stop speaking, VOX will automatically stop transmitting.

1. Press [ **BAND** ] key to make sure the current working band is B2/B4.
2. In VFO/MR/CH/NM mode, press [ **#F** ]+[ **8<sup>th</sup>WR** ] key to switch ON/OFF.
  - *The menu appears.*



3. Use [ **▲** ]/[ **▼** ] key to select OFF (default)/ON.
  - *When switch VOX function ON, VOX will appear on LCD display.*
4. Press [ **#F** ] key to finish setting and return back to previous working mode.

## Use VOX function by transceiver itself:

- a. Speak to microphone directly and what you said will be transmitted.
- b. Stop to speak, then the system will automatically stop transmitting.

## Use VOX function by earphone:

- a. You must set a VOX gain level firstly. This setting allows the transceiver to recognize sound levels.
- b. If the microphone is too sensitive, it will begin transmitting when there is noise in the background.

- c. If it is not sensitive enough, it will not pick up your voice when you begin speaking. Be sure to adjust the VOX gain level to an appropriate sensitivity to allow smooth transmission.









## FM Radio

Sometimes, you would like to listen to FM broadcast, then you can use this function.

### Note:








*Make sure that the antenna is installed when use FM radio function, otherwise, the FM radio will not receive any signal.*

### ■ Switch ON/OFF FM Radio Function





1. In VFO/MR/CH/NM mode, press [  ] key to select "B1" as current working band. The FM radio function will be turned ON.
  - *The current FM Radio Frequency will appear on the LCD display.*
2. Use [  ]/[  ] key to select a frequency, or input digits directly via the keypad (87.500~108.000MHz).
  - *When use [  ]/[  ] key to select a frequency, the frequency will add or reduce 25K per your press the [  ]/[  ] key.*
3. You can use the [Volume] Control to adjust the volume.
4. If you want to switch FM radio function OFF, just press [  ] key to change working band.

### ■ Scan FM Radio Channel






Sometimes, you don't know the frequency of broadcast in your location, under this condition, you will find the scan function is quick to find out a broadcast.

1. In VFO/MR/CH/NM mode, press [  ] key to select "B1" as current working band. The FM radio function will be turned ON.
2. Press [  ]+[  ] key. The transceiver will start to scan.
  - *When a channel to be scanned, the transceiver will stop scanning and show the current broadcast frequency.*  
*You can only search the stronger FM radio program via Menu No.40.*
3. Use [  ]/[  ] key to scan next channel.
4. To exit scanning mode, press any other than [  ]/[  ] key.

### ■ Set Up FM Radio Memory Channels

1. In VFO/MR/CH/NM mode, press [  ] key to select "B1" as current working band. The FM radio function will be turned ON.
2. Select a memory channel number via keypad or use scan function to select a channel, then press [  ]+[  ] key.
3. Input memory channel number via keypad.
  - *If the channel selected in the previous step already contained data, the channel number will flash, otherwise, this channel number is not used.*
4. Press [  ] key to save and return back to VFO working mode.

### ■ Recall FM Radio Memory Channel

1. In VFO/MR/CH/NM mode, press [  ] key to select "B1" as current working band. The FM radio function will be turned ON.
2. Press [  ] key to access FM radio memory recall mode.
  - *The FM radio memory channel used last is recalled.*
3. Use [  ]/[  ] key to select the desired memory channel.
  - *You can not recall empty memory channels.*
  - *To return FM radio VFO mode, press [  ] key again.*

## **RF Radiation Information**

### **RF Radiation Profile**

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

The device complies with SAR and/or RF field strength limits of RSS-102 requirement

### **RF Radiation Safety**

In order to ensure user health, experts from relevant industries including science, engineering, medicine and health work with international organizations to develop standards for safe exposure to RF radiation. These standards consist of:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J;
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992;
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999;

- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998;

### **FCC Regulations**

Federal Communication Commission (FCC) requires that all radio communication products should meet the requirements set forth in the above standards before they can be marketed in the U.S, and the manufacturer shall post a RF label on the product to inform users of operational instructions, so as to enhance their occupational health against exposure to RF energy.

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This radio is not intended for use by general population in an uncontrolled environment. It is only for occupational use and only applied to work-related conditions.

The radio must be only used by users, who are fully aware of the hazards of the exposure and who are able to exercise control over their RF exposure to qualify for the higher exposure limits.

### **EU Regulatory Conformance**

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provision of the Directive 1999/5/EC. Please note that the above information is applicable to EU countries only.

**CE 0678** 