

Quick-Reference Symbol Key

①	An Informational Item
[0/SET]	Press the indicated key
[KEY] 1sec	Press KEY 1 sec or more
→	Next step to perform
⓪DIAL	Rotate the dial knob

Accessing the Setup Menus

1. Press [FWM] → [0/SET] to access menus.
2. ⓪DIAL to select a menu item (1~73).
3. Press [0/SET] → ⓪DIAL to adjust.
4. Press [PTT] to save setting and exit.
- ① Some menu items require pressing [0/SET] before pressing [PTT].

Programming a Memory

Follow Steps 1~7 to Setup a Repeater or Simplex.

- Step 1 - Direct Keypad Frequency Entry to VFO:**
- ① Program the receive frequency into VFO:
 1. [VMI] to select VFO → Keypad & digits
 - ① Leave in VFO mode until **Step 5**

Step 2 - Verify Repeater Offset Direction

- ① Auto Repeater Shift is built in. If necessary use **Menu-4 ARS** to enable ARS.
- ① Go to **Step 4** if auto offset is OK

To change repeater TX shift direction:

1. Press [FWM] → [0/SET] to access menus.
2. ⓪DIAL to access **Menu-51 RPT**
3. Press [0/SET] → ⓪DIAL to set direction.
4. Press [PTT] to save the setting.
- ① An Odd frequency offset is set (in **Step 6**)

Step 3 - Set Repeater Access Mode and Tone

- ① Go to **Step 3** if Access Tone not required.
1. [FWM] → [MODE] to select a tone mode.
2. ⓪DIAL to set: **OFF, TONE, T SQL, or DCS.**
3. Press [PTT] to save the setting.
4. Press [FWM] → [Z/CODE] to enter tone.
5. ⓪DIAL to select the tone freq. or code.
6. Press [Z/CODE] to save the setting.

Step 4 - Setting the Power Level

- ① Power level is saved for each channel.
1. Press [FWM] → [TX POW] as required to step through the 4 available power levels:
 ① L1 = 0.3W, L2 = 1W, L3 = 2.5W, HIGH = 5W,
 222Mhz: ① L1 = 0.2W, L2 = 0.5W,
 L3 = 1W, HIGH = 1.5W.

Step 5 - Save VFO & Settings to Memory Channel

1. Press [FWM] 1sec to enter storage mode.
2. Within 5sec, ⓪DIAL to desired Mem Chan.
- ① Press [PIDMR] to increase Ch# by 100.
3. Press [FWM] 1sec to store the setup.

Step 6 - Odd Repeater Offset Frequency Setup

- ① Go to **Step 7** unless you need to program an odd repeater transmit offset frequency into an already programmed Memory Ch.
1. Use **Step 1** to set repeater output freq.

2. Press [FWM] 1sec, selecting same Mem Chan used above. Then within 5 sec:
3. Press & Hold [PTT] → [FWM] to save.
- ① Odd offset Channels display both + -

Step 7 - Labeling (Naming) Memory Channels -

1. Recall Memory Channel to be labeled.
2. Press [FWM] → [0/SET] to access menus.
3. ⓪DIAL to access **Menu-40 NM SET.**
4. Press [0/SET] to start character entry.
5. ⓪DIAL to set a character → [MODE]
6. Repeat steps 3 & 4 to enter whole name.
7. Press [PTT] to save label to memory.

Basic Operations

Memory Channel Recall

1. If necessary, [VMI] to set Memory mode.
2. ⓪DIAL to select desired Memory Chan.

Displaying Memory Labels

1. Recall the Memory Channel.
2. Press [FWM] → [0/SET] to access menus.
3. ⓪DIAL to access **Menu-39 NAME.**
4. [0/SET] → ⓪DIAL to set ALPHA or FREQ
5. Press [PTT] to save setting.
- ① Press [MONI] to see the frequency.

Squelch Level Adjustment

1. Press [FWM] → [MONI]
2. ⓪DIAL to set the squelch level.
3. Press [PTT] to save the setting.

Checking the Repeater Input Frequency

1. [HMRV] to reverse TX & RX (Alter. Action)
1. Press [BAND] as required.

Selecting Frequency Bands

Memory Banks

Assign a Memory Channel to a Bank (b1~24)

1. Channels can be assigned to multiple groups.
1. [VM] for Mem mode → [DIAL] to set MemCh
2. [F/W] 1sec → [DIAL] to Mem Bank b1~24 which are found before Mem Chan # 1.
3. Press [F/W] to add Channel to Mem Bank.

Entering Bank Mode and Recalling Channels

1. Press [VM] to select Memory mode.
2. [BAND] → [F/W] → [BAND] to Bank Mode
3. [DIAL] to desired Memory Bank (b1~24)
4. [BAND] → [DIAL] to desired Memory Ch.
- ① In Bank mode, [F/W] → [BAND] → [DIAL] to select a different Memory Bank.

Exiting Memory Bank Mode

1. Press [BAND] to exit Memory Bank mode.

Scanning Operations

Scanning VFO Band, Mem Channels or Mem Group

1. Select a band & mode of operation (VFO, Memory or Bank) to be scanned.
2. Press & Hold [BAND/SCN] and [DIAL] to select one of the optional scan modes. (Typically current BAND or ALL channels)
3. Release [BAND/SCN] to start scanning.

Setting The Scan Resume Mode (Options)

- ① Resume options: 3, 5, 10sec, BUSY #HOLD
1. Use **Menu-49 RESUME** to set.

Setting Channels to be Skipped While Scanning

1. When stopped on a channel you wish to skip, Press [F/W] → [5/SKIP]
- ① The ▲ icon displays on channels to be skipped

DTMF Operations

Manual DTMF Dial Tone Transmitting

1. [F/W] → [3/DTMF] and [DIAL] to MANUAL
2. Press & Hold [PTT] to start transmitting.
3. Use the keypad to send the number.

Transmitting a Pre-stored AutoDial Number

1. [F/W] → [3/DTMF] and [DIAL] to AUTO.
2. Press [3/DTMF] to save the setting.
3. Press & Hold [PTT] to start transmitting.
4. Press a key (1~9) to autodial a Number

Special Features

Locking & Unlocking Keyboard

1. Press [%/LK/ TXPO] 2sec, alternate action
- ① " " displayed when locked.

Selecting Lockout Key Combinations

- ① Several combinations of keys can be locked.
1. Use **Menu-35 LOCK** to select an option.
4. Press [PTT] to save the setting.

Weather / Marine and Short Wave Memories

1. Press [F/W] → [9/ SP BANK] to access the pre-programmed memory banks.
2. Press [BAND] to select the desired bank
3. [DIAL] to select a Memory Channel, or press [BAND/SCN] 2sec to start scanning.
4. To exit mode, press [F/W] → [9/ SP BANK]

AM / FM & Other Band Reception

1. If necessary, [VM] to set VFO mode.
2. Press [BAND] to select desired freq band.
3. [DIAL] to desired frequency, start a scan or enter a frequency via keypad entry.

Setting LCD / Keypad Mode & Brightness Level

1. Use **Menu-33 LAMP** to set activation mode.
 2. Use **Menu-19 DIMMER** to set brightness.
- RX & TX Battery Power Save Modes**
- ① Use **Menu-53 RX SAVE** and **Menu-70 TX SAVE** to reduce power consumption.

Busy LED Battery Power Save Mode

- ① Use **Menu-11 BSY.LED** to turn off the RX Busy LED to reduce power consumption.

Possible Problems

You can hear a repeater, but can't access it

1. Check Access Tone & Squelch mode
2. Check repeater offset (odd split?)

Keyboard is not working

- ① If " " is displayed, unlock keyboard by pressing [LK/ TXPO] 2sec.

Can't set exact frequency (wrong step size)

1. Select band (step size changes by band)
2. Access **Menu-61 STEP** selecting either **AUTO** or a desired VFO step size.

"OUTRNG" Message is being displayed

- ① Radio has gone into ARTS mode.
1. Press [4/ ARTS] to exit the mode.

DTMF Tone Transmits on every press of PTT

- ① Radio has gone into WIRES mode.
1. Press [%/ LK/ TXPO] to exit the mode.

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