

Nifty Quick-Reference™

KENWOOD TM-V7A

Quick-Reference Symbol Key

| Informational Item | → Next Step |
|-----------------------------|---|
| ① Y iss Indicated KEY | [KEY] 1 sec Press KEY 1 sec or more |
| ⊗TUNE Rotate Tune knob | [KEY1] + [KEY2] Hold KEY1 and press KEY2 |

This card is designed to cover the most commonly used features of your radio. For modes not detailed here, see the manual.

Microphone Button Functions

① Mic Keys [CALL], [VFO], [MR], [PF] are reprogrammable. The default for [PF] is **Band Selection**. However, to enable direct keypad frequency entry assign [PF] to the **ENTER** function instead. See the procedure below.

The Mic [LOCK] is on back side and locks all Mic keys except the DTMF keypad and [PTT].

Set [PF] to the ENTER function

- Reprogram the function of Mic [PF] to enable direct keypad entry of frequencies. ①
- Press [MNU] → ⊗TUNE to select **MENU 16 Microphone**
- Press [P] → ⊗TUNE to select **PF [PF]**
- Press [SET] as required to select **Enter**
- Press [MNU] again to save & exit

Front Panel Function Buttons

① The [MHz] key is located at the center of the Tune Knob

① The 4 buttons under the LCD display change function as indicated by the labels just above each button.

| Basic State | F | ⊗TONE | REV | LOW |
|-----------------------|---------|-------|-------|--------|
| After Press [F] | OFF | DTSS | SHIFT | VISUAL |
| After Press [F] 1 sec | OFF | T.SEL | C.SEL | STEP |
| Menu Mode | CLR/ESC | ◀ | ▶ | SET |

Programming Memory Channels

① The band, receive & transmit frequency, offset direction and tone functions are all set while in the VFO mode, and then saved to a memory location. **Steps 1 thru 6** in the following sections describe the procedures.

Step 1 — VFO Band Selection

- Make sure RevShift and CTCSS are OFF before tuning
- Press [BAND] to select the desired band (VHF, UHF)
- Press [VFO] to enter VFO mode (leave in VFO mode)

① [BAND] is the center button on the two volume knobs

Step 2 — Frequency Tuning

- Make sure RevShift and CTCSS are OFF before tuning (Neither "T" "CT" or "R" showing at top of display)
- Press [TONE] and [REV] as required to turn off
- Pick either the Dialing or Direct Mic Keypad entry method

Dialing method for Frequency Tuning of VFO

- Use ⊗TUNE or [UP/DWN] to change the frequency
- Frequency can be dialed in different step sizes.

① ⊗TUNE for tuning least significant digits.

* Press [MHz] to set 1 MHz step sizes → ⊗TUNE

① [MHz] button is at the center of the ⊗TUNE knob

* Press [F] → [MHz] to set 10 MHz steps → ⊗TUNE

Direct Microphone Keypad Frequency Entry to VFO ①

- Press [F]. (① F key was reprogrammed to ENTER)
- Enter frequency digits via Mic Keypad
- If you hit a non-digit key, or take longer than 10 sec, direct entry is cancelled, and radio returns to VFO mode.

Step 3 — Repeater Offset

Automatic Repeater Offset

① Standard repeater shifts of 600 KHz for the VHF band, and 5 MHz for the UHF band are built in. Check to see that displayed offset icons (+, -,) are correct for the frequency you are programming.

① For UHF or to use other than an automatic VHF offset, pick one of the following: Auto, Rev, Simp, or Odd Split

* Otherwise, go to **Step 4** unless you need to set an offset direction or odd repeater split frequency.

Reverse Offset (shift) direction for a non-standard repeater

1. Press [F] → [SHIFT] (rotates thru +, -, on multi-presses)

① Transmission is inhibited if transmit freq. falls outside of band

① Reverse shift not used when using an odd-split frequency.

Simplex, No Repeater Offset

① The radio defaults to Simplex in non-repeater areas of the selected band. Make sure + or - are not showing at top of display. Continue to **Step 4**

Odd Repeater Split (odd frequency offset) Setup

① Odd offset is achieved by storing both the XMIT & RCV freq. For now just set the desired receive frequency into the VFO as described above. Continue to **Step 4**

Step 4 — Set Repeater Access Tones

① If Access Tones are not required go to **Step 5**

Selecting a Tone Function

① Available Tone Mode / Squelch functions: OFF, T & CT

"T" only XMITs the tone; "CT" XMITs & Squelch Decodes

1. Press [TONE] to select: (None, T, or CT are displayed)

① [MHz] button is at the center of the ⊗TUNE knob

* Press [F] → [MHz] to set 10 MHz steps → ⊗TUNE

CTCSS Tone Search Scanning

- If the CTCSS code is unknown, it can be found as follows:
 - Set up for CT squelch mode as indicated above
 - Press [TONE] 1 sec to start scan of an incoming signal
 - When tone freq. is identified, audio is heard, and tone frequency display blinks, press [TONE] to save

Step 5 — Memory Channel Storage

- Press [F] → ⊗TUNE or Mic [UP/DN] to sel Ch No. to program. (proceed to each step within 10 seconds)

① The ▶ icon shows for programmed channels and the ◀ icon indicates an empty memory channel

⊗ If storing an Odd Split: (otherwise go to step 3)

2a. Press [MR] for 1 sec, (+ and - both appear)

2b. Use ⊗TUNE method to set the transmit frequency

3. Press [MR] to save to the selected memory Channel

Step 6 — Memory Channel Labeling

Labeling (Naming) a Memory Channel

1. [MR] → ⊗TUNE or Mic [UP/DN] to recall a Ch No.

2. Press [MNU] → ⊗TUNE to select **MENU 3** → [SET]

3. [P] → ⊗TUNE to select **Memory Name 3** → [SET]

4. ⊗TUNE to select an alpha numeric char → [▶] to next

5. Repeat steps 3 & 4 until complete (7 characters max)

① To back up press [◀]

6. Press [SET] to save → [MNU] to exit Menu mode

Memory Channel Operations

Memory Channel Recall / Selection

1. Press [MR] → ⊗TUNE or Mic [UP/DN] to sel Ch No.

Memory Channel Clearing

1. Recall the channel, then turn Power OFF

2. Turn Power back ON again while holding [MHz]

3. A memory CLR? confirmation appears. Press [MR]

Memory to VFO Transfers (Copy)

1. [MR] → ⊗TUNE or Mic [UP/DN] to recall a Ch Number

2. Press [F] → [VFO] to copy to the VFO

Recalling (selecting) the CALL Channel

1. Select VHF or UHF [BAND] → Press [CALL]

Programming the CALL Channel

1. Either select a Memory Channel or enter a frequency in the VFO using **Steps 1 thru 4**

2. Press [F] → [CALL] to copy to the Call Channel

Reverse (Input) Monitor Function

1. Press [REV] to monitor a repeater input freq.

2. Press [REV] again to return to normal operation

Scanning Operations

Set Scan / Resume Options

① Two scan hold modes are available: 5sec & Carrier

1. Select the desired band (VHF or UHF)

2. Press [MNU] → ⊗TUNE & sel **MENU 8 Scan Resume**

3. [SET] → To Select **Time-Operated** or **Carrier-Operated**

4. Press [MNU] again to save & exit menu mode

Scanning Memory Channels

① Scans memory channels that are not Locked Out

Locked Out channels display a small L after the ChNo

1. Press [MR] 1 sec, scanning starts

2. To stop scanning: [PTT] or [MR] or [BAND] being scanned

Skipping Channels During Scanning (Locking Out)

① Channels you don't want scanned can be Locked Out

1. [MR] → ⊗TUNE or Mic [UP/DN] to recall a Ch No.

2. Press [MNU] → ⊗TUNE to select **MENU 4 Memory**

3. [▶] → ⊗TUNE to select **Lock Out 1** → [SET] for ON/OFF

4. Press [MNU] again to save & exit menu mode

Call/Memory Scan (Dual Channel Scan)

① As usual, [PTT] halts scan to start transmitting

1. [MR] → ⊗TUNE or Mic [UP/DN] to recall a Ch No.

2. Press [CALL] 1 sec to start scan ([CALL] again to stop)

DTMF Operations

Mic Keypad DTMF Dial Tone Transmitting

1. While holding [PTT] (transmitting)

2. Press Mic DTMF keys in the desired sequence

① Enable hearing tones with **MENU 16 Microphone**, item 6

Transmitting a Pre-stored AutoDial Number

1. While holding [PTT] press Mic [PF], P: is displayed

2. Press a single Mic Key (0 thru 9) to dial a DTMF memory

Special Features

Accessing the Programming Set-up Menu

1. Select the desired band

2. Press [MNU] → ⊗TUNE to select Menu item to be changed

① Labels on most items are self explanatory

3. Press [SET], or some items [▶] appears for more options

4. ⊗TUNE to switch the selection → [MNU] to save & exit

Possible Problems

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

1. Check CTCSS tone frequency & tone mode

2. Check repeater offset, (reverse or odd split required?)

Transceiver All or Partial Lock (push buttons are disabled)

① A LOCK or LOCK is displayed when lock engaged

* If A LOCK hold [MHz] while Powering On to cancel (or set)

* If LOCK, press [F] → [MHz] to cancel (or set)

Can't set exact frequency (wrong step size)

1. Press [VFO] → Then sel desired Band, Press [BAND]

2. Press [F] 1 sec → [STEP] (current step size is displayed)

3. ⊗TUNE to sel. step size: (US its 5 for VHF & 25 for UHF)

① It is common to have to change UHF to 10 KHz steps

4. Press [OFF] to save & exit menu mode.

Unit appears to be "hung-up" or can't get out of a mode

① Try doing a partial Reset, memory contents are unchanged

If the "All Lock" is on try turning it off first (see above)

1. Turn Power On while pressing [VFO]

2. A VFO Reset? confirmation appears. Press [VFO]

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