ICOM IC-T81E Operating Guide

<u>NOTE IN THIS GUIDE</u>
    Push [MULTI] means push circular multifuntion button directly
    Push [MULTI (v^) means push circular multifuntion button up or down
    Push [MULTI (<->)] means push circular multifuntion left or right

<u>SETTING A FREQUENCY</u>

Via the keypad (p 9.)
1) Push [VFO] to select VFO mode
2) Push digital keys corresponding to the desired frequency; or, push [*] to leave the MHz setting asis and input from the kHz digits (please note: when inputting a frequency in the 50 MHz band it is necessary to input the decimal point.

Using the set tuning steps (p. 10)
    Push [VFO] to select VFO mode; then rotate [DIAL].
    Push [MULTI<->] to change bands.

Using the MHz step function (p.10)
    Push [(VFO)MHz] for 1 sec., then rotate [DIAL].

<u>SCAN OPERATION</u>

Full/Programmed scan (p.23)
1) Push [VFO] to select VFO mode, if necessary.
2) Push [MULTI(<->)] for 1 sec. to start the scan, then while continuing to push, rotate [DIAL] to select the scan range.
3) Push [VFO] again to stop the scan.

Memory/skip scan (p.23)
1) Push [MR] to select memory mode, if necessary.
2) Push [MULTI (<->)] for 1 sec. to start the scan, then while continuing to push, rotate [DIAL] to select the scan range.
3) Push [VFO] to stop the scan.

<u>DTMF MEMORY OPERATION (p.21)</u>

Programming a DTMF code
1) Push [(MR)MW] for 1 sec., then push [MULTI(v^)].
2) Rotate [DIAL] to select the desired channel.
3) Push [MULTI] to enter DTMF programming mode.
4) Push digital keys to enter the desired DTMFcharacter, then push [MULTI(<->)] to advance to the next character.
5) Push [MULTI] to input the digits, then push [VFO] to exit DTMF programming mode.

Transmitting a DTMF code
1) Push [(MR)MW] for 1 sec., then push [MULTI(v^)].
2) Rotate [DIAL] to select the desired channel.
3) While pushing [PTT], push [SQL] to transmit the selected DTMF channel's contents.

<u>MEMORY OPERATION</u>

Selecting a memory (call) channel (p.11)
1) Push [MR] to select memory mode; push [CALL] to select a call channel.
2) Select a memory channel by rotating [DIAL].

Memory programming (p.18)
1) Push [VFO] to select VFO mode.
2) Set the desired frequency.
3) Set other data, such as repeater info, as required.
4) Push [(MR)MW] for 1 sec.
5) Rotate [DIAL] to select the desired channel.
6) Push [(MR)MW] for 1 sec. to program.

Transferring a memory (call) channel's contents (p.19)
1) Select the memory/call channel to be transferred.
2) Push [(MR)MW] for 1 sec.
    => To transfer the contents to VFO:
3) Push [(MR)MW] for 1 sec
    => To transfer the contents to another memory (call) channel:
4) Rotate [DIAL] to select the memory (call) channel to be transferred to.
5) Push [(MR)MW] for 1 sec.

Memory clear (p.19)
1) Push [MR] to select memory mode.
2) Rotate [DIAL] to select a channel to be cleared.
3) Push [VFO] to select VFO mode.
4) Push [(MR)MW] for 1 sec.
5) Push [Multi(v^)] to display "CLR".
6) Push [(MR)MW] for 1 sec. to clear the previously selected memory channel.
7) Push [VFO] to return to VFO mode.

<u>SUBAUDIBLE TONE OPERATION</u>

Tone squelch operation (p.25)
1) Set the operating frequency.
2) Set the desired subaudible tone in set mode.
3) Push [MULTI] - if „D" appears push [MULTI (v^)] to select „T".
4) Rotate [DIAL] until „TSQL" appears, then push [VFO]..
5) Operate the transceiver in the normal way.
6) To cancel the tone squelch, repeat steps 3) and 4) so that no tone indicator appears.

Pocket beep operation (p.26)
1) Set the operating frequency.
2) Set the desired subaudible tone in set mode.
3) Push [MULTI] - if „D" appears push [MULTI (v^)] to select „T".
4) Rotate [DIAL] until „TSQL(*)" appears, then push [VFO]..
5) When receiving a call, push [PTT] to answer or push [VFO] to stop the beeps and flashing.

<u>REPEATER OPERATION (p.15)</u>

1) Set the receive frequency (repeater output frequency).
2) Push [MULTI] - if „T" appears push [MULTI (v^)] to select „D".
3) Rotate [DIAL] to select „DUP" or „-DUP".
4) Rotate [MULTI (v^)] to „T".
5) Rotate [DIAL] to activate the subaudible tone encoder, if necessary.

Operate the tranceiver normally: push [PTT] to transmit; release to receive.

Push and hold [SQL] to check whether the other station's transmit signal can be received diretly or not.

DTMF tones (p.16)
While pushing [PTT], push the desired digit key(s) to transmit DTMF tones.

1750Hz tone (Europe and Italy version only;p.15)
While pushing [PTT], push and hold [MULTI] for 1 to 2 sec. to transmit a 1750Hz tone signal.

Tone scan (p.26)
1) Set an operating frequency orselect a memory channel.
2) Push [(RIT)SCAN] for 1 sec. to start the tone scan. When the tone frequency is decoded, the set mode contents are programmed with the tone frequency.
3) Push [TSCAN] (or [VFO]) to stop the scan.

SET MODE

1) Push [MULTI] for 1 sec.
2) Push [MULTI (v^)] to select the desired item.
3) Push [MULTI(<->)] to select the desired condition.
4) Push [VFO] to exit set mode.

Contents
CT: CTCSS tone frequency (p.25)
      Sets a tone frequency for tone squelch operation.
rT: Repeater tone setting (p.15)
      Sets a tone frequency for repeater operation.
MO: Receive mode (p.14)
      Sets a receive mode.
TS: Tuning steps (p.10).
      Selects 1 of 8 tuning steps for frequency tuning.
OW: Offset frequency (p.16).
      Selects an offset frequency for repeater use.
SC: Scan resume condition (p.24).
      Selects the scan resume condition.
rV: RIT/VXO (p.13; 1200 Mhz band only)
      Sets RIT/VXO function on or off.

INITIAL SET MODE

1) While pushing [MULTI], push [PWR] to turn power on.
2) Push [MULTI (v^)] to select the desired item.
3) Push [MULTI(<->)] to select the desired condition.
4) Push [VFO] to exit initial set mode.

Contents
MS: MIC simple mode (p.27).
      Changes switch assignments for the optional HM-75A.
AO: Auto power OFF (p.28)
      Sets a time for automatic transceiver shutdown.
LI: LCD backlighting (p.28)
      Selects the backlighting function.
BE: Beep tones (p.28)
      Toggles beep tones on/off.
Ar: Auto repeater function (p.17)
      Activtes duplex or duplex and tone settings automatically for repeater use.
PS: Power saver function (p.28)
      Toggles the power saver on/off.
VO: Voltage indication (p.29)
      Toggles the voltage indication function on/off.

DT: DTMF speed (p.21)
      100/fastest <-> 500/slowest
LC: LCD contrast (p.29)
      2/high <-> 1/low.

CPU RESETTING (p.29)

While pushing [SQL]+[VFO]+[MR] push [PWR] to turn power on and reset the transceiver's CPU.
CAUTION: resetting the CPU initializes all set mode, initial set mode and memory contents.

MISCELLANEOUS

Call channel
1) Push [MULTI(<->)] to select the desired band.
2) Push [CALL] to select the call channel for the selected band.

Lock function (p.11)
Push [(H/L)LOCK] for 1 sec. to toggle the lock function on/off.

FM broadcast reception (p.12)
Push [MULTI(<->)] one or more times until „WFM" appears; or set a frequency in the range 76-107.995 Mhz with the digit keys.

Airband reception (p.12)
Push [MULTI(<->)] one or more times until „AM" appears; or set a frequency in the range 118-135.995 Mhz with the digit keys.

Adjusting volume (p.11)
Push [MULTI(v^)] to adjust the volume.

Changing bands
Push [MULTI(<->)] one or more times.