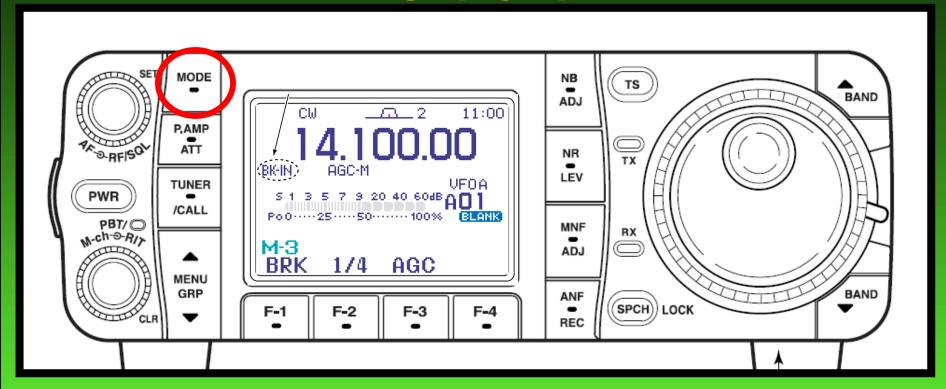
PROGRESS

- •Radio setup front panel display/controls, rear panel connections
- VFO behavior and selection
- Selecting the operating frequency band and modulation mode
- Frequency setting
- Audio volume, squelch, & receiver gain adjustment
- Multifunction meter
- •Simple transmitter settings RF Output power, microphone gain.
- SSB operation
- CW operation
- •FM operation



CW Telegraphy Operation





Selecting CW.

CW – **Setup Functions**

- ① Connect a paddle or straight key as on page 22.
- ② Push [▲(BAND)]/[▼(BAND)] to select the desired band or push a band key on the HM-151.
- 3 Push [MODE] momentarily to select CW mode.
 - After CW mode is selected, push and hold [MODE] for 1 sec. to toggle between CW and CW-R modes.
- 4 Rotate [DIAL] to tune in a desired signal with the desired tone frequency.
- ⑤ Rotate [AF] to set audio to a comfortable listening level.
- Set CW break-in operation as semi break-in, full break-in or OFF.
 - Push and hold [MENU/GRP] for 1 sec. once or twice to select the menu group M.
 - Push [MENU/GRP] momentarily one or more times to select the menu M-3.
 - Push [F-1 BRK] one or more times to select the CW break-in operation.
 - "BK-IN," "F-BK," and "OFF (no indication)" appears.
 - ▶BK-IN: semi break-in
 - F-BK : full break-in
 - OFF : no break-in (ACC socket connection is necessary as shown on page 22.)

- The Set the CW delay time when semi break-in operation is selected.
 - Push and hold [F-1 BRK] for 1 sec. to enter the breakin delay time set mode.
 - ·Rotate [DIAL] to set the desired delay time.
- 8 Set CW setting in the keyer set mode (5-1).
 - Push and hold [MENU/GRP] for 1 sec. once or twice to select the menu group S.
 - Push [MENU/GRP] momentarily one or more times to select the menu S-1.
 - •Push [F-2 KEY], [▼(MENU/GRP)], then [F-4 SET] to enter the keyer set mode. (p. 49)
- (9) Keying to transmit, use the electric keyer or paddle to send your CW signals.
 - •[TX] indicator lights red.
 - •The Po meter indicates transmitted CW signal strength.
- 10 Stop keying to return to receive.



CW - Receive Functions

- •Preamp and attenuator (p. 72)
- Push [P.AMP/ATT] momentarily to turn the preamp ON or OFF.
 - · "FAME" appears when the preamp is set to ON.
- Push [P.AMP/ATT] for 1 sec. to turn the attenuator ON.
 - Push [P.AMP/ATT] momentarily to turn the attenuator OFF.
 - ·"page" appears when the attenuator is set to ON.
- Twin PBT (passband tuning) (p. 77)
- Push [PBT/M-ch/RIT] (switch) momentarily once or twice to select the twin PBT ON or OFF (M-ch RIT).
 - PBT indicator lights green when the twin PBT is selected.
- ➡ Rotate [PBT/M-ch/RIT] (controls-inner/outer).
 - · Push [PBT/M-ch/RIT(cLR)] to clear the settings.



•AGC (auto gain control) (p. 74)

- While "M-3" is selected, push [F-3 AGC] momentarily one or more times to select AGC fast, AGC middle and AGC slow.
 - Push and hold [MENU/GRP] for 1 sec. once or twice to select the menu group M.
 - Push [MENU/GRP] momentarily one or more times to select the menu M-3.
 - "AGC-F," "AGC-M" and "AGC-S" appears when the fast time constant, middle time constant and slow time constant is selected, respectively.
- While "M-3" is selected, push and hold [F-3 AGC] for 1 sec. to enter the AGC set mode.
 - Push [F-2 FAST], [F-3 MID] or [F-4 SLOW] to select the time constant, then rotate [DIAL] to adjust the time constant.
- Noise blanker (p. 78)
- Push [NB/ADJ] to turn the noise blanker ON and OFF.
 - ·"RE" appears when the noise blanker is set to ON.
- Push and hold [NB/ADJ] for 1 sec. to enter the noise blanker set mode, then rotate [DIAL] to adjust the threshold level, or noise pulse width.
- •DSP noise reduction (p. 79)
- Push [NR/LEV] to turn the DSP noise reduction ON and OFF.
 - "III" appears when the DSP noise reduction is set to ON.
- Push and hold [NR/LEV] for 1 sec. to enter the noise reduction level set mode, then rotate [DIAL] to adjust the DSP noise reduction level.

CW - Receive Functions

- Manual notch filter (pgs. 80, 81)
- → Push [MNF/ADJ] to turn the manual notch filter ON and OFF.
 - •"Im" appears when the manual notch filter is set to ON.
- Push and hold [MNF/ADJ] for 1 sec. to enter the manual notch filter set mode.
 - •Push [F-2 NF1], [F-3 NF2] to select the notch filter, push [F-4 NW] to set the filter width, rotate [DIAL] to set the attenuated frequency.
- •1/4 function (p. 32)
- While "M-3" is selected, push [F-2 1/4] to turn the ¼ function ON and OFF.
 - · "a" indicator appears when the function is activated.
- •CW pitch control (p. 44)
- ► Push [AF(set)], then [F-1 Q5] to enter the quick set mode. Select an item with [F-1 ♣]/[F-2 ♥], then rotate [DIAL] to set the desired CW pitch from 300 to 900 Hz in 5 Hz steps.



CW - Transmit Functions

- •Break-in function (p. 85)
- ➡ While "M-3" is selected, push [F-1 BRK] one or more times to select the CW break-in operation.
 - Push and hold [MENU/GRP] for 1 sec. once or twice to select the menu group M.
 - Push [MENU/GRP] momentarily one or more times to select the menu M-3.
 - "BK-IN" or "F-BK" appears when the semi break-in or full break-in is set to ON, respectively.

- Memory keyer function (p. 45)
- ➡ While "S-1" is selected, push [F-2 KEY] to enter the keyer set memu.

How do I send CW?! Use 1 of 3 "Break-in" modes:

- 1. Semi-break-in quiets the receiver between notes (similar to VOX delay).
- 2. Full-break-in enables the receiver between notes—
 someone can break in, but this can be distracting to some operators.
- 3. No display indication, no RF, audio sidetone only (practice/warm-up prior to that CQ).

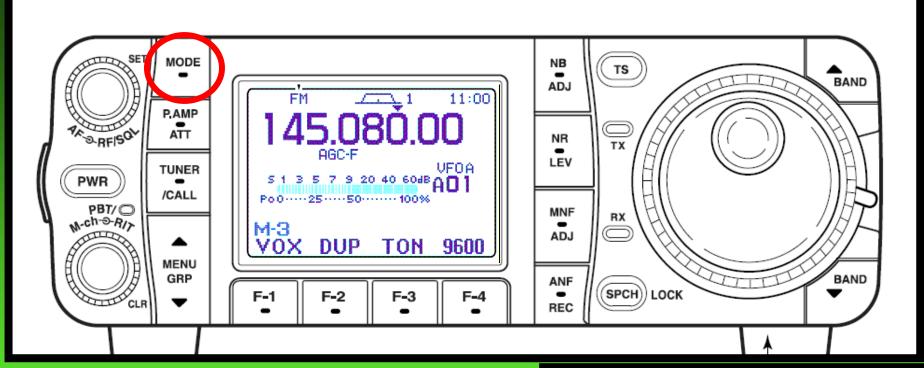


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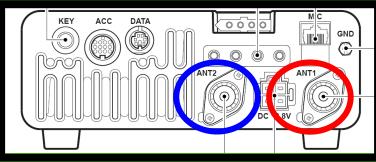


Frequency Modulation Phone Operation



Antenna FM 2m/70cm "ANT2" Antenna FM 10m/6m "ANT1"





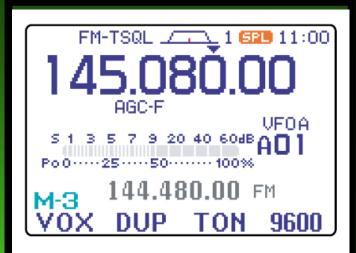
FM – Receive Functions

- Preamp and attenuator (p. 72)
- Push [P.AMP/ATT] momentarily to turn the preamp ON or OFF.
 - · "FAMP" appears when the preamp is set to ON.
- Push and hold [P.AMP/ATT] for 1 sec. to turn the attenuator ON.
 - Push [P.AMP/ATT] momentarily to turn the attenuator OFF.
 - •"
 ATTTEL" appears when the attenuator is set to ON.
- Auto notch filter (p. 80)
- Push [ANF/•REC] to turn the auto notch filter ON and OFF.
 - ·"All" appears when the auto notch filter is set to ON.

- •DSP noise reduction (p. 79)
- Push [NR/LEV] to turn the DSP noise reduction ON and OFF.
 - "RE" appears when the DSP noise reduction is set to ON.
- → Push and hold [NR/LEV] for 1 sec. to enter the noise reduction level set mode, then rotate [DIAL] to adjust the DSP noise reduction level.
- •VSC (voice squelch control) (p. 82)
- ➡ While "5-1" is selected, push [F-4 USC] to turn the VSC function ON and OFF.
 - *"USC" appears when VSC function is set to ON.



FM – Tone Squelch Functions

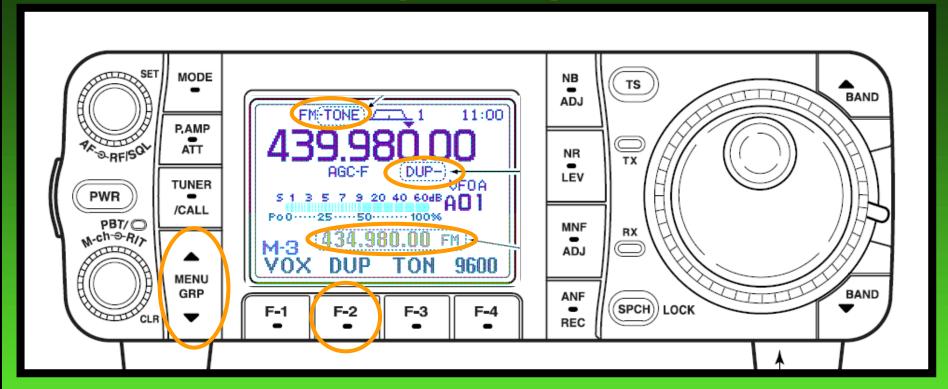




- ① Push [MODE] one or more times to select FM mode.
- ② Select i'i-3.
 - Push and hold [MENU/GRP] for 1 sec. once or twice to select the menu group 현.
 - Push [MENU/GRP] momentarily one or more times to select the menu fri-3.
- ③ Push [F-3 TON] momentarily several times to turn the tone squelch function ON.
 - · "TSQL" appears.
- 4 Push and hold [F-3 TOH] for 1 sec. to enter the FM tone set mode.
 - The selected tone frequency for TSQL appears.
 - •Other tone functions can be set by pushing [F-1 TÜN].
- ⑤ Rotate [DIAL] to set the desired subaudible tone frequency.
 - · See table at right for available tone frequencies.
 - Push and hold **[F-3** DEF] for 1 sec. to select the default frequency.
 - Push [▼(MENU/GRP)] to exit the FM tone set mode.
- ⑥ Communicate in the usual manner.
 - Push and hold [PTT] to transmit; release [PTT] to receive.



FM – Repeater Operation

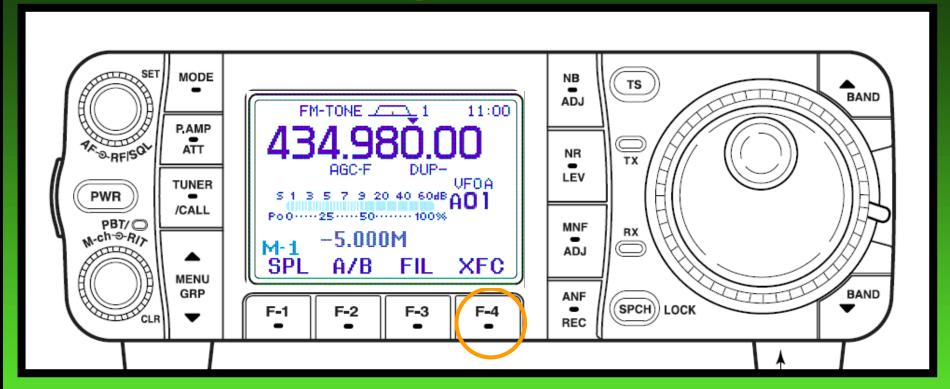


Display indicators & soft-keys:

- transmit frequency
- repeater mode "duplex"
- menu keys



FM – Repeater Reverse





Is simplex an option?
Listen on the repeater input:
Transmit Freq. Check "XFC"

FM - Transmit Functions

- •VOX (voice operated transmit) (p. 83)
- While "M-3" is selected, push [F-1 VOX] to turn the VOX function ON and OFF.
 - Push and hold [MENU/GRP] for 1 sec. once or twice to select the menu group [™]d.
 - Push [MENU/GRP] momentarily one or more times to select the menu M-3.
 - · "VOX" appears when the VOX function is set to ON.
- While "M-3" is selected, push [F-1 VOX] for 1 sec. to enter the VOX set mode.
 - ·Push [F-1 ♣]/[F-2 ♥] to select an item.
 - ·Rotate [DIAL] to set the value/conditions.

- Transmit quality monitor (p. 87)
- Push [AF(seτ)], then [F-4 □TH] to enter the miscellaneous (others) set mode. Select an item with [F-1 ♣]/[F-2 ♥], then rotate [DIAL] to turn the monitor function ON and OFF.



Conclusion

We've discussed these basic IC7000 topics. There are also many more features. Enjoy!

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