

◇ **New GROUP programming**

① Push [△] or [▽] (or rotate [DIAL]) to select the desired information, then push [ENT MW].

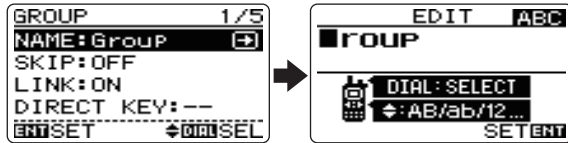
Selectable information:

- NAME • SKIP • LINK • DIRECT KEY
- NEXT (Edit NAME programming)

NAME (Group name)

① Push [ENT MW] (or [▷]) to edit the name programming.

- Push [△] or [▽] to select the character group from “ABC” (alphabetical characters; capital letters), “abc” (alphabetical characters; lower case letters), “123” (numbers) or “!#” (symbols).
- Push [◀] or [▶] to move the cursor left or right, respectively.
- Push [CLR SQL] to clear the selected character.

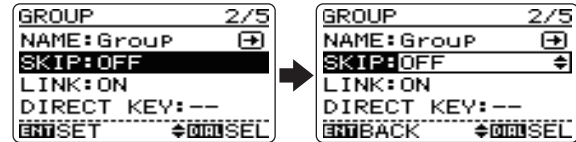


• **Available characters**

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqr stuvwxyz
0123456789
! '\$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { } ~ (Space)

SKIP, LINK

- ① Push [ENT MW] (or [▷]) to edit the setting state.
- ② Push [△] or [▽] to select the desired setting, then push [ENT MW].



DIRECT KEY

- ① Push [ENT MW] (or [▷]) to enter the number input.
- ② Edit the desired 2 digit number with keypad.
 - Duplicated number can not be assigned in the same category (including direct key for category).



- ② Push [▽] (or rotate [DIAL]) to select “NEXT,” then push [ENT MW] to enter the NAME programming state. Or push and hold [ENT MW] for 1 sec. to program the memory channel and return to the frequency indication.
 - 1 short and 1 long beep sound.

7 MEMORY PROGRAMMING

◇ New NAME programming

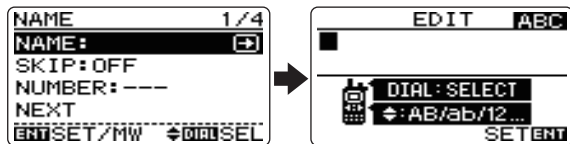
- ① Push [△] or [▽] (or rotate [DIAL]) to select the desired information, then push [ENT MW].

Selectable information:

- NAME
- SKIP
- NUMBER
- NEXT (Edit CH programming)

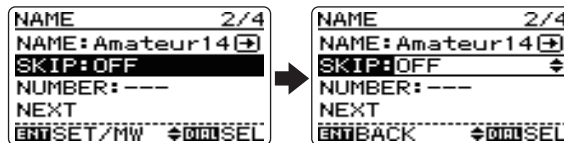
NAME

- ① Push [ENT MW] (or [▷]) to edit the name programming.
 - Push [△] or [▽] to select the character group from “ABC” (alphabetical characters; capital letters), “abc” (alphabetical characters; lower case letters), “123” (numbers) or “!@#” (symbols). See previous page for available characters details.
 - Push [◀] or [▶] to move the cursor left or right, respectively.
 - Push [CLR SQL] to clear the selected character.



SKIP

- ① Push [ENT MW] (or [▷]) to edit the setting state.
- ② Push [△] or [▽] to select the desired setting, then push [ENT MW].



NUMBER

- ① Push [ENT MW] (or [▷]) to enter the number input.
- ② Edit the desired 3 digit number with keypad.
 - Duplicated number can not be assigned in the same group.



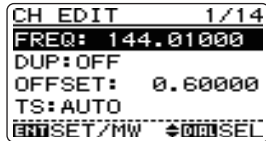
- ② Push [▽] (or rotate [DIAL]) to select “NEXT,” then push [ENT MW] to enter the CH programming state.
Or push and hold [ENT MW] for 1 sec. to program the memory channel and return to the frequency indication.
 - 1 short and 1 long beep sound.

◇ New CH programming

- ① Push [**△**] or [**▽**] (or rotate [**DIAL**]) to select the desired information, then push [**ENT MW**].

Selectable information:

- FREQ • DUP • OFFSET • TS
- MODE • ATT • SKIP • PRIO
- STOP BEEP • TONE • TSQL FREQ • DTCS CODE
- DTCS P • VSC



FREQ, OFFSET

- ① Push [**ENT MW**] (or [**▷**]) to enter the frequency input.
- ② Edit the desired frequency with keypad (pgs. 20, 21).

Other information

- ① Push [**ENT MW**] (or [**▷**]) to edit the setting state.
 - ② Push [**△**] or [**▽**] to select the desired setting, then push [**ENT MW**].
- ② Push and hold [**ENT MW**] for 1 sec. to program the channel and return to the frequency indication.
 - 1 short and 1 long beep sound.

■ Memory channel selection

Memory channel can be selected during scan holding state.

- ① Push [**SCAN**] to start a scan, then push [**HOLD V**] to hold the scan.
- ② Push and hold [**<**] or [**>**] for 1 sec. to select the desired category.
- ③ Push [**<**] or [**>**] to select the desired group in the category.
- ④ Push [**No. DIAL**] and 3 digit number (000 to 999) to call the desired memory name in the group directly.
 - If the memory number is not assigned to the memory name, skip this step. (See p. 50 for number programming details.)
- ⑤ Rotate [**DIAL**] to select the channel.

■ Copying memory contents

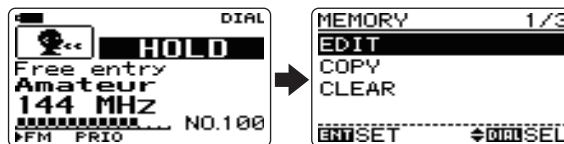
This function copies a memory channel's contents to VFO (or another memory). This is useful when searching for signals around a memory channel frequency and for recalling the offset frequency, subaudible tone frequency etc.

◇ Memory channel ⇄ VFO

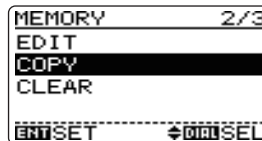
- ① Select the memory channel to be copied.
 - ➔ Push **[SCAN]** to start a scan, then push **[HOLD V]** to hold the scan.
 - ➔ Rotate **[DIAL]** to select the desired channel.
 - Push and hold [**◀**] or [**▶**] for 1 sec. to change the category, or push [**◀**] or [**▶**] to change the group.
- ② Push and hold **[HOLD V]** for 1 sec. to write the selected channel contents to VFO mode.
 - 1 short and 1 long beep sound.
 - Returns to VFO mode automatically.

◇ Memory channel ⇄ memory channel

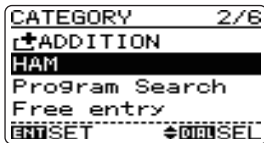
- ① Select the desired memory channel to be copied.
 - ➔ Push **[SCAN]** to start a scan, then push **[HOLD V]** to hold the scan.
 - ➔ Rotate **[DIAL]** to select the channel.
 - Push and hold [**◀**] or [**▶**] for 1 sec. to change the category, or push [**◀**] or [**▶**] to change the group.
- ② Push and hold **[ENT MW]** for 1 sec. to enter memory programming state.
 - 1 short and 1 long beep sound.



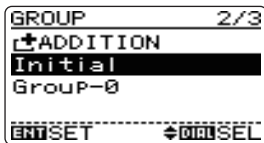
- ③ Push **[▽]** once (or rotate **[DIAL]**) to select “COPY,” then push **[ENT MW]**.



- ④ Push [△] or [▽] (or rotate [DIAL]) to select the desired category or “ADDITION,” then push [ENT MW].
- When “ADDITION” is selected, new category can be programmed (see p. 50 for new category programming details).



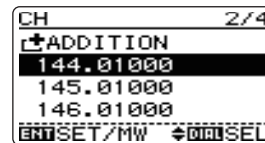
- ⑤ Push [△] or [▽] (or rotate [DIAL]) to select the desired group or “ADDITION,” then push [ENT MW].
- When “ADDITION” is selected, new group can be programmed in the category (see p. 51 for new group programming details).



- ⑥ Push [△] or [▽] (or rotate [DIAL]) to select the desired name or “ADDITION,” then push [ENT MW].
- When “ADDITION” is selected, new name can be programmed in the group (see p. 52 for new name programming details).



- ⑦ Push [△] or [▽] (or rotate [DIAL]) to select the target channel or “ADDITION,” then push [ENT MW].
- When “ADDITION” is selected, new channel can be programmed in the name (see p. 53 for new channel programming details).

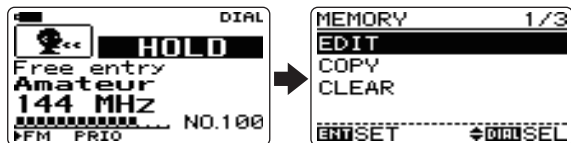


- ⑧ Push and hold [ENT MW] for 1 sec. to copy the channel and return to frequency display.

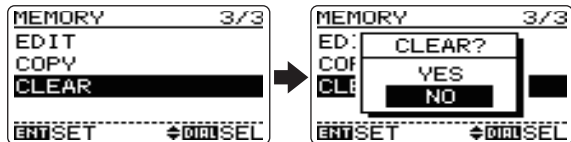
Memory clearing

Contents of programmed memories can be cleared (erased), if desired.

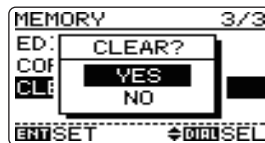
- ① Select the desired memory channel to be erased.
 - ➔ Push **[SCAN]** to start a scan, then push **[HOLD V]** to hold the scan.
 - ➔ Rotate **[DIAL]** to select the channel.
 - Push and hold **[<]** or **[>]** for 1 sec. to change the category, or push **[<]** or **[>]** to change the group.
- ② Push and hold **[ENT MW]** for 1 sec. to enter memory programming state.
 - 1 short and 1 long beep sound.



- ③ Push **[▽]** twice (or rotate **[DIAL]**) to select “CLEAR,” then push **[ENT MW]**.
 - “CLEAR?” window appears.



- ④ Push **[△]** to select “YES,” then push **[ENT MW]** (or **[▷]**).
 - Select “NO,” then push **[ENT MW]** to cancel clearing.
 - Returns to scan holding state.




NOTE: Be careful!— the contents of cleared memories CANNOT be recalled.

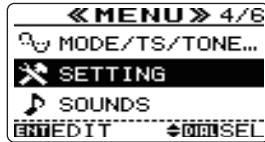
■ General

MENU screen is used for programming values or conditions of functions.

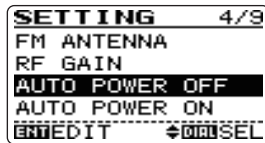
◇ Entering MENU screen and operation

e.g.) Set "AUTO power OFF" to 30 minutes.

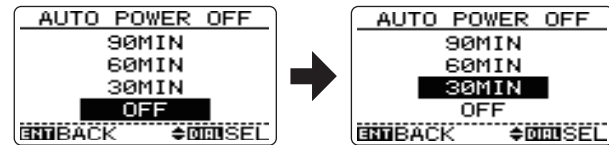
- ① Push **[MENU **] to enter MENU screen.
- ② Push **[Δ]/[▽]** (or rotate **[DIAL]**) to select the desired menu group, then push **[ENT MW]**.



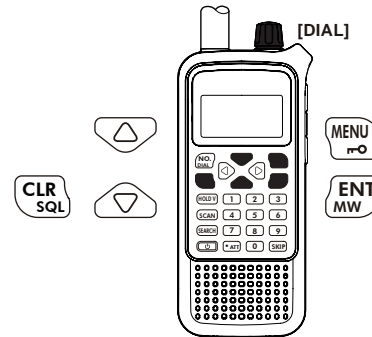
- ③ Push **[Δ]/[▽]** (or rotate **[DIAL]**) to select the desired item, then push **[ENT MW]**.



- ④ Push **[Δ]/[▽]** (or rotate **[DIAL]**) to select the desired value or condition, then push **[ENT MW]** to return to the setting item selection mode.



- ⑤ Push **[CLR SQL]** to return to frequency indication, or repeat steps ② to ④ to set another items.



8 MENU SCREEN OPERATION

■ Menu list

SCAN

ALL SCAN	Push [ENT MW] to start
CATEGORY SCAN	Select a category, then push [ENT MW] to start
GROUP SCAN	Select a group, then push [ENT MW] to start
WEATHER SCAN	Push [ENT MW] to start
WEATHER ALERT	<input type="checkbox"/> ON <input type="checkbox"/> OFF
SKIP	Skip setting ON/OFF for Category, Group or Name
PRIORITY	ON <input type="checkbox"/> OFF
STOP BEEP	ON <input type="checkbox"/> OFF
PAUSE	<input type="checkbox"/> HOLD 20SEC 18SEC 16SEC 14SEC 12SEC 10SEC 8SEC 6SEC 4SEC 2SEC
RESUME	HOLD 5SEC 4SEC 3SEC <input type="checkbox"/> 2SEC 1SEC 0SEC

SEARCH

BASIC SEARCH	Select a category, then push [ENT MW] to start
BAND SEARCH	Select a band, then push [ENT MW] to start
PROGRAM SEARCH	Select a program, then push [ENT/MW] twice to start
PROGRAM LINK	Select a program-link, then push [ENT/MW] twice to start
AUTO WRITE CH	Push [ENT MW] to indicate the auto write channel
PROGRAM SKIP	<input type="checkbox"/> ON <input type="checkbox"/> OFF
TONE SEARCH	<input type="checkbox"/> TSQL DTCS *Appears only when FM mode is selected
PRIORITY	BELL ON <input type="checkbox"/> OFF
STOP BEEP	ON <input type="checkbox"/> OFF
PAUSE	<input type="checkbox"/> HOLD 20SEC 18SEC 16SEC 14SEC 12SEC 10SEC 8SEC 6SEC 4SEC 2SEC
RESUME	HOLD 5SEC 4SEC 3SEC <input type="checkbox"/> 2SEC 1SEC 0SEC

MODE/TS/TONE...

DUPLEX	+DUP -DUP	OFF
OFFSET FREQ	0.00000	*Depending on the operating frequency
TS	AUTO 200.0kHz 125.0 kHz 100.0kHz 50.0 kHz 30.0 kHz 25.0kHz 15.0 kHz	
	12.5 kHz 10.0kHz 9.0 kHz* 8.33 kHz* 7.5 kHz 6.25 kHz 5.0 kHz	
	*Available for some frequency band	
MODE	FM WFM AM AUTO	**"AUTO" is available for USA version only *Depending on the operating frequency
TONE	DTCS-R DTCS DTCS((·)) TSQ-L-R TSQ-L TSQ-L((·))	OFF
TSQ-L FREQ	88.5	
DTCS CODE	023	
DTCS POLARITY	NORMAL REVERSE	
VSC	ON OFF	

SETTING

AM ANTENNA	EXT-DX EXT-LOCAL	BAR
FM ANTENNA	EXT	EARPHONE
RF GAIN	MAX 9 8 7 6 5 4 3 2 1 MIN	
AUTO POWER OFF	120MIN 90MIN 60MIN 30MIN	OFF
AUTO POWER ON	OFF Push [Δ]/[▽] to set the timer in 30 min. steps	
POWER SAVE	AUTO OFF	
DIAL SPEED-UP	ON OFF	
LOCK	NORMAL NO SQL NO VOL ALL	
CI-V — ADDRESS	78	
BAUD RATE	AUTO 19200bps 9600bps 4800bps 1200bps 300bps	
TRANSCEIVE	ON OFF	

SOUNDS

KEY-TOUCH BEEP	ON OFF
BEEP LEVEL	19
AF FILTER	ON OFF
	*Appears only when AM/WFM mode is selected
TONE CONTROL	BASS BOOST NORMAL
	TREBLE BOOST NORMAL

DISPLAY

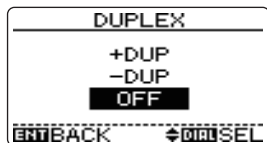
BACKLIGHT	AUTO ON OFF
LCD CONTRAST	08
OPENING LOGO	ON OFF
FONT SIZE	SMALL LARGE

MODE/TS/TONE menu items

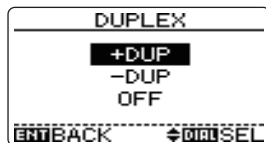
◇ Duplex direction (DUPLEX)

Sets the duplex direction. The displayed frequency shifts the programmed frequency in offset frequency at right when monitor function is in use (while pushing **[CLR SQL]**).

- +DUP: The displaying frequency shifts up during monitor.
- -DUP: The displaying frequency shifts down during monitor.
- OFF : Simplex operation. (default)



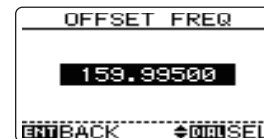
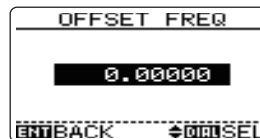
Simplex operation



Positive duplex operation

◇ Offset frequency (OFFSET FREQ)

Sets the duplex offset frequency for each frequency band independently within 0 to 159.995 MHz range. During duplex operation (-DUP or +DUP), the monitoring frequency (while **[CLR SQL]** is pushed) shifts the set frequency.



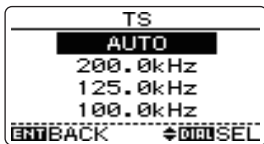
The default value may differ according to the selected frequency band (before accessing menu screen) and receiver version.

/// The selected tuning step at next column (right page) is used for the offset frequency setting.

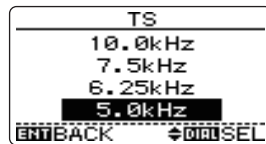
◇ Tuning step (TS)

The tuning step can be selected for each frequency band, however, the tuning steps, 8.33 kHz and 9 kHz, are appeared when setting the tuning step for the VHF air band and AM broadcast band, respectively. The following tuning steps are available for the IC-RX7.

- 5.0 kHz • 6.25 kHz • 7.5 kHz • 8.33 kHz • 9.0 kHz
 - 10.0 kHz • 12.5 kHz • 15.0 kHz • 20.0 kHz • 25.0 kHz
 - 30.0 kHz • 50.0 kHz • 100.0 kHz • 125.0 kHz • 200.0 kHz
- AUTO tuning step is available for USA version only.



Auto tuning step



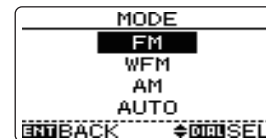
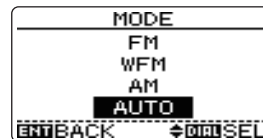
5 kHz tuning step

◇ Receiving mode (MODE)

Receiving modes are determined by the modulation of the radio signals. The receiver has 3 operating modes: FM, WFM and AM modes. The mode selection is stored independently in each band and memory channels.

Typically, AM mode is used for the AM broadcast stations (0.495–1.620 MHz) and air band (118–135.995 MHz), and WFM is used for FM broadcast stations (76–107.9 MHz).

AUTO mode is available for USA version only.



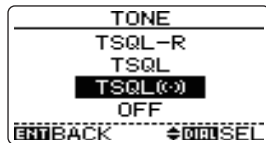
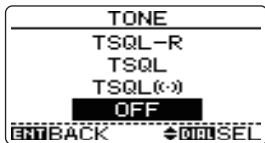
8 MENU SCREEN OPERATION

◇ Tone squelch/DTCS squelch setting (TONE)

Sets the tone squelch or DTCS squelch operation and pocket beep capability, when waiting for the desired signal.

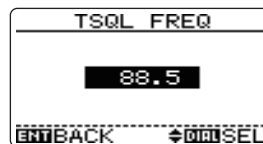
(default: OFF)

- DTCS-R : The squelch closes only when a signal with matched DTCS code is received.
- DTCS : Using DTCS squelch. The squelch opens only when a signal with matched DTCS code is received.
- DTCS(⊙) : In addition to the “DTCS” setting, alert beeps will sound when a signal with matched DTCS code is received.
- TSQL-R : The squelch closes only when a signal with matched subaudible tone is received.
- TSQL : Using tone squelch. The squelch opens only when a signal with matched subaudible tone is received.
- TSQL(⊙) : In addition to the “TSQL” setting, alert beeps will sound when a signal with matched tone is received.
- OFF : Regular noise squelch operation

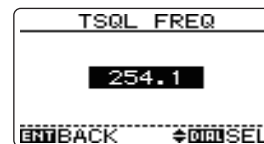


◇ Tone squelch frequency (TSQL FREQ)

Sets subaudible tone frequency for tone squelch operation. Total of 50 tone frequencies (67.0–254.1 Hz) are available. (default: 88.5 Hz)



88.5 Hz setting



254.1 Hz setting

• Available subaudible tone frequencies

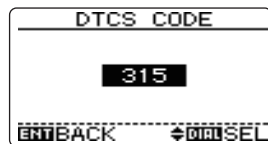
67.0	79.7	94.8	110.9	131.8	156.7	171.3	186.2	203.5	229.1
69.3	82.5	97.4	114.8	136.5	159.8	173.8	189.9	206.5	233.6
71.9	85.4	100.0	118.8	141.3	162.2	177.3	192.8	210.7	241.8
74.4	88.5	103.5	123.0	146.2	165.5	179.9	196.6	218.1	250.3
77.0	91.5	107.2	127.3	151.4	167.9	183.5	199.5	225.7	254.1

◇ DTCS code (DTCS CODE)

Sets DTCS code for DTCS squelch operation. Total of 104 codes (023–754) are available. (default: 023)



Code 023 setting



Code 315 setting

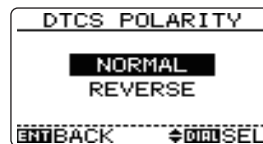
• Available DTCS code

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

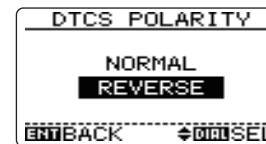
⚡ The polarity can also be set in “DTCS polarity” as right.

◇ DTCS polarity (DTCS POLARITY)

Sets DTCS polarity from normal and reverse. (default: NORMAL)



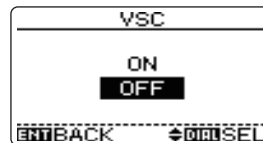
Normal setting



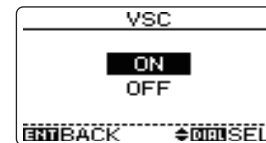
Reverse setting

◇ Voice squelch control (VSC)

This function is useful when you don't want unmodulated signals pausing or cancelling a search/scan. When the voice squelch control function is activated, the receiver checks received signals for voice components. If a received signal includes voice components, and the tone of the voice components changes within 1 sec., search/scan pauses (or stops). If the received signal includes no voice components or the tone of the voice components does not change within 1 sec., search/scan resumes.



VSC is OFF



VSC is ON

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

■ SETTING menu items

◇ AM antenna selection (AM ANTENNA)

This setting is active only for the AM broadcast band, 0.495–1.620 MHz (differ according to version) reception.

- EXT-DX : Use the antenna connected to the antenna connector, and then received signals are bypass the RF filter.
- EXT-LOCAL : Use the antenna connected to the antenna connector, and then received signals are filtered by the RF filter.
- BAR : Use the internal bar antenna for AM broadcast band reception. (default)



/// The RF filter for EXT-LOCAL does not only reject the interference, but also reduce the receive sensitivity. Thus selecting EXT-LOCAL is effective when the desired signal is strong enough and some interference exist near the signal.

◇ FM antenna selection (FM ANTENNA)

This setting is active for all band, but it is mostly effective only for the FM broadcast band, 76.000–107.995 MHz (differ according to version) reception. Thus it may cause the interference for other band's that this setting is ON and when an earphone is connected.

- EXT : Use the antenna connected to the antenna connector. (default)
- EARPHONE : Use the connected earphone's cable as the antenna for FM broadcast band reception.

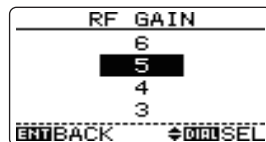
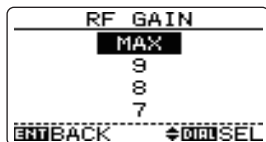


◇ RF gain level (RF GAIN)

The receiver gain can be reduced with the RF gain setting. This may help to remove undesired weak signals while monitoring strong signals.

The RF gain can be selected from 11 levels.

- MIN, 1 to 9 and MAX (default: MAX)



◇ Auto power OFF (AUTO POWER OFF)

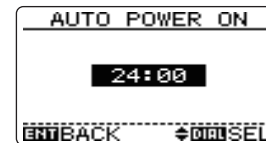
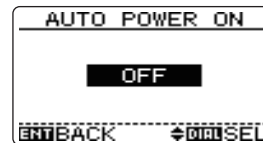
The receiver can be set to automatically turn OFF after a specified time period with a beep when no key operations are performed.

30 min., 60 min., 90 min., 120 min. and OFF (default) can be specified. The specified time period is retained even when the transceiver is turned OFF by the auto power OFF function. To cancel the function, select "OFF" in this item.



◇ Auto power ON (AUTO POWER ON)

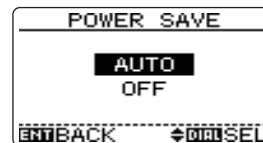
Auto power ON function turns the receiver power ON automatically after passing the set time period from power OFF. Select the desired time period within 30 minutes to 24 hours in 30 minutes steps and OFF. (default: OFF)



◇ Power save (POWER SAVE)

The power save function reduces the current drain to conserve battery power. This power save function can be turned OFF, if desired.

- "AUTO" selects "1:4" duty ratio when receiving no signal for 5 sec., then "1:8" 15 sec. after that.



NOTE: Power save function is disable when using the external power supply (More than 5.1 V DC).

8 MENU SCREEN OPERATION

◇ Dial acceleration (DIAL SPEED-UP)

The dial speed acceleration automatically speeds up the tuning dial speed when rotating [DIAL] rapidly.

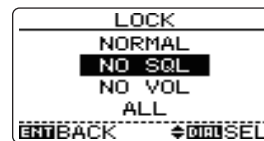
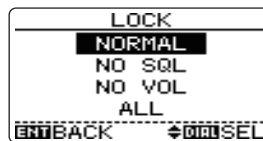
- OFF : The dial speed acceleration is turned OFF.
- ON : The dial speed acceleration is turned ON.
(default)



◇ Key lock type (LOCK)

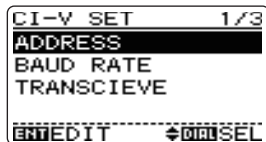
While the key lock function is ON, [POWER], [CLR SQL] (SQL function only), [VOL] and [MENU] can still be accessed. Accessible keys can be set to 1 of 4 groups.

- NORMAL : [POWER], [CLR SQL] (SQL function only), [VOL] and [MENU] (Lock function only) accessible. (default)
- NO SQL : [POWER], [VOL] and [MENU] (Lock function only) are accessible.
- NO VOL : [POWER], [CLR SQL] (SQL function only) and [MENU] (Lock function only) are accessible.
- ALL : [POWER] and [MENU] (Lock function only) are accessible.



◇ CI-V setting (CI-V SET)

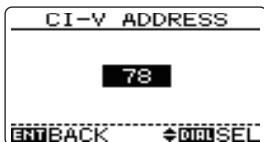
This setting sets the CI-V address, CI-V baud rate and CI-V transceiver as follow.



• CI-V address (ADDRESS)

To distinguish equipment, each CI-V transceiver/receiver has its own Icom standard address in hexadecimal code. The IC-RX7's address is "78."

When 2 or more IC-RX7s are connected to an optional CT-17 CI-V LEVEL CONVERTOR, set a different address for each IC-RX7 in the range "01" to "7F." (default: 78)



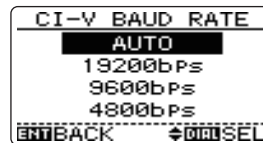
CI-V address set to 78



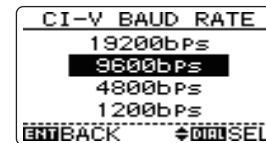
CI-V address set to 7F

• CI-V baud rate (BAUD RATE)

Sets the data transfer rate. When "AUTO" is selected, baud rate is automatically set according to the connected controller or other Icom CI-V radio. (default: AUTO)



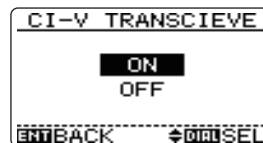
"AUTO" baud rate setting



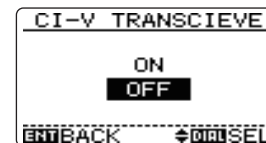
9600 bps setting

• CI-V transceiver (TRANSCEIVE)

CI-V transceiver operation is possible with the IC-RX7 connected to an Icom CI-V radio. When "ON" is selected, changing the frequency, operating mode, etc. on the IC-RX7 automatically changes those of connected radios and vice versa. (default: ON)



CI-V transceiver ON

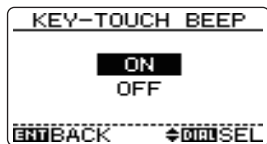


CI-V transceiver OFF

■ SOUNDS menu items

◇ Key-touch beep (KEY-TOUCH BEEP)

Turns the key-touch beep ON or OFF. (default: ON)



Key-touch beep ON

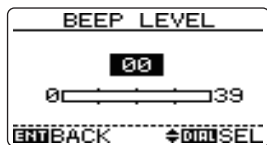


Key-touch beep OFF

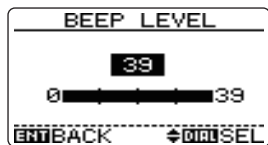
◇ Beep output level (BEEP LEVEL)

Adjusts the key-touch beep tone level to the desired level within 40 levels (0 to 40).

The key-touch beep (following item) must be set to ON to have a beep tone.



Minimum level (no audio)

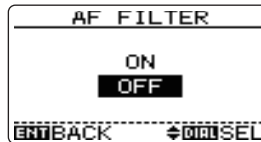


Maximum level

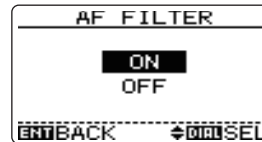
◇ AF filter (AF FILTER)

The AF filter suppresses high-pitch tone when this setting is ON. This function can be set for each operating mode respectively, but it does not appear for FM mode.

- OFF : The AF filter is deactivate. (default)
- ON : The AF filter is activate.



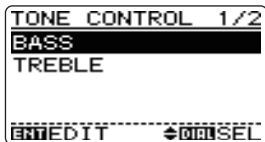
AF filter is OFF



AF filter is ON

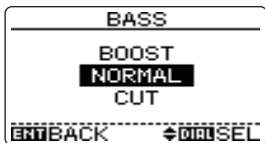
◇ **Tone control (TONE CONTROL)**

Sets the Bass and Treble level of the receive audio tone.



• **Bass level (BASS)**

Selects the bass level from CUT, NORMAL (default) and BOOST.



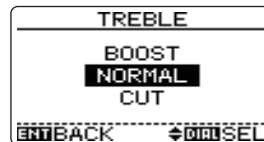
Normal setting



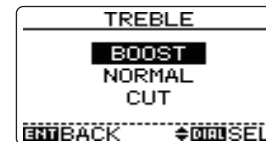
Bass tone is reduced

• **Treble level (TREBLE)**

Selects the bass level from CUT, NORMAL (default) and BOOST.



Normal setting



Treble tone is boosted

■ Display menu items

◇ Display backlighting (BACKLIGHT)

The receiver has display backlighting with a 5 sec. timer for night time operation. The display backlighting can be turned ON continuously or turned OFF, if desired.

- OFF : The backlight is turned OFF.
- ON : The backlight continuously lights ON.
- AUTO : Lights when an operation is performed, goes out after 5 sec. (default)



Auto setting

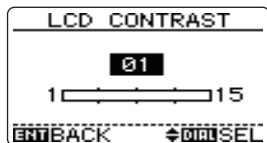


Continuously ON setting

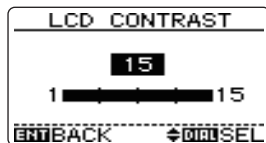
◇ LCD contrast (LCD CONTRAST)

The contrast of the LCD can be selected from 15 levels.

- 1 (Low contrast) to 15 (High contrast) (default: 8)



Low contrast



High contrast

◇ Opening logo (OPENING LOGO)

The opening logo indication (Icom logo and receiver name) that is displayed at power ON can be skipped, if desired.

- OFF : Opening logo indication is skipped.
- ON : Opening logo is displayed at power ON. (default)



Opening logo is ON



Opening logo is OFF

◇ Font size (FONT SIZE)

Displayed character size for category is selectable from Large and Small.

- SMALL : Makes 16 characters on the line.
- LARGE : Makes 12 characters on the line (Scroll the characters if the longer than 13 characters). (default)



Large font size



Small font size

■ Antenna selection

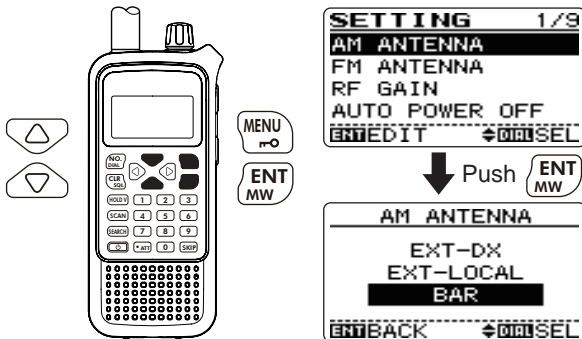
The IC-RX7 has an internal bar antenna installed for receiving AM broadcast band (0.495–1.620 MHz; differ according to version) signals. In addition, the connected earphone's cable can be used as an antenna for receiving FM broadcast band (76.000–107.995 MHz; differ according to version) signals.

◇ Selecting antenna

- Enter “AM ANTENNA” or “FM ANTENNA” in SETTING menu for AM broadcast band or FM broadcast band, respectively.

MENU ⇨ SETTING ⇨ **AM ANTENNA** (p. 64)
(Push [MENU] (P), (Push [△]/[▽], then push [ENT MW].)

MENU ⇨ SETTING ⇨ **FM ANTENNA** (p. 64)



- Push [△]/[▽] (or rotate [DIAL]) to select “BAR” when “AM ANTENNA” is selected for the AM broadcast band; select “EARPHONE” when “FM ANTENNA” is selected for the FM broadcast band.



Bar antenna selection for
0.495–1.620 MHz band



Earphone cable selection for
76.000–107.995 MHz band

- Push [ENT MW] (or [←]) to return to SETTING menu, and push [CLR SQL] to return to frequency indication.

NOTES:

- Some noise or spurious may be received when the internal bar or earphone cable is used for antenna.
- The supplied or third party's antenna **MUST BE** connected to the antenna connector to receive signals other than AM or FM broadcast bands.
- When receiving an AM broadcast signal with internal bar antenna, aim the receiver to better audio direction.
- When the internal bar or earphone cable is used for an antenna, the attenuator function cannot be used.

9 OTHER FUNCTIONS

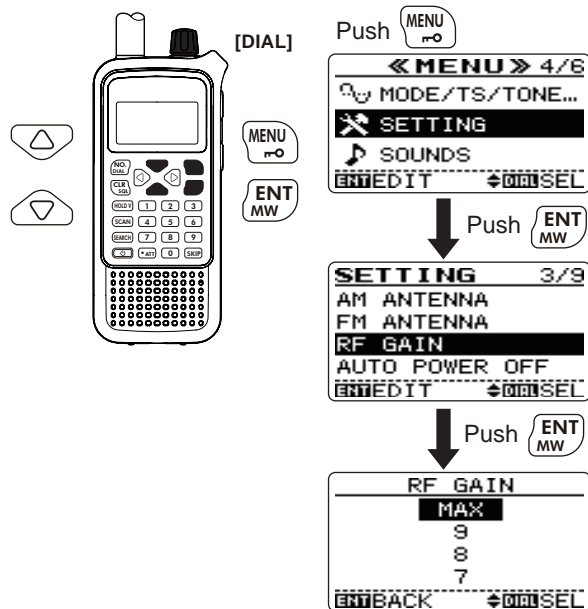
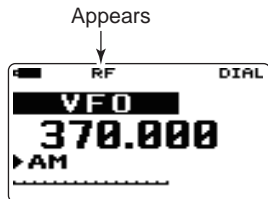
■ RF gain

The receiver gain can be reduced with the RF gain setting. This may help to remove undesired weak signals while monitoring strong signals.

- 1 Enter "RF GAIN" in SETTING menu.

MENU ⇨ SETTING ⇨ **RF GAIN** (p. 65)
(Push [MENU ]), (Push [Δ]/[▽]), then push [ENT MW].)

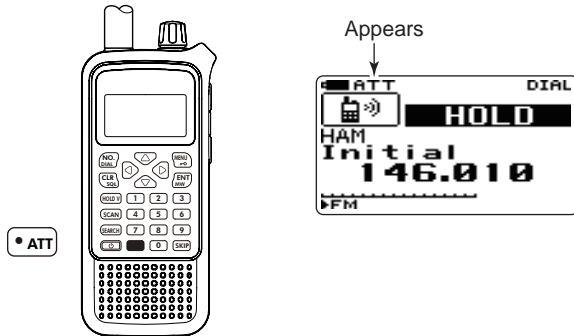
- 2 Push [Δ]/[▽] (or rotate [DIAL]) to adjust the RF gain.
 - Normally this setting is used with maximum level.
- 3 Push [ENT MW] (or [<|]) to return to SETTING menu, and push [CLR SQL] to return to frequency indication.
 - "RF" indicator appears when the RF gain is adjusted other than "MAX."



■ Attenuator function





The attenuator prevents distortion of a desired signal by very strong signals near the desired frequency or when very strong electric fields, such as from a broadcasting station, are present at your location. The attenuation is about 15 dB.

- ➔ Push and hold [• ATT] for 1 sec. to turn the attenuator function ON and OFF.
 - “ATT” appears on the function display.

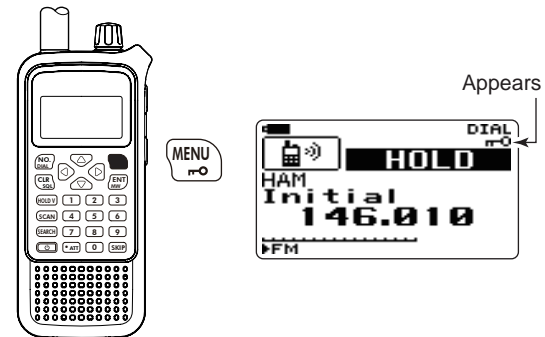


■ Lock function

To prevent accidental frequency changes and unnecessary function access, use the lock function.

- ➔ Push and hold [MENU ] for 1 sec. to turn the lock function ON and OFF.
 - “” appears while the lock function is activated.
 - [] and [MENU ] is operatable while the lock function is activated.
 - The squelch control and volume control can be used while the lock function is in use with default setting. Either or both the squelch control and volume control can also be locked in setting menu.

MENU ⇨ SETTING ⇨ **LOCK** (p. 66)



■ Duplex operation

Duplex communication uses 2 different frequencies for transmitting and receiving. Generally, duplex is used in communication through a repeater, some utility communications, etc.

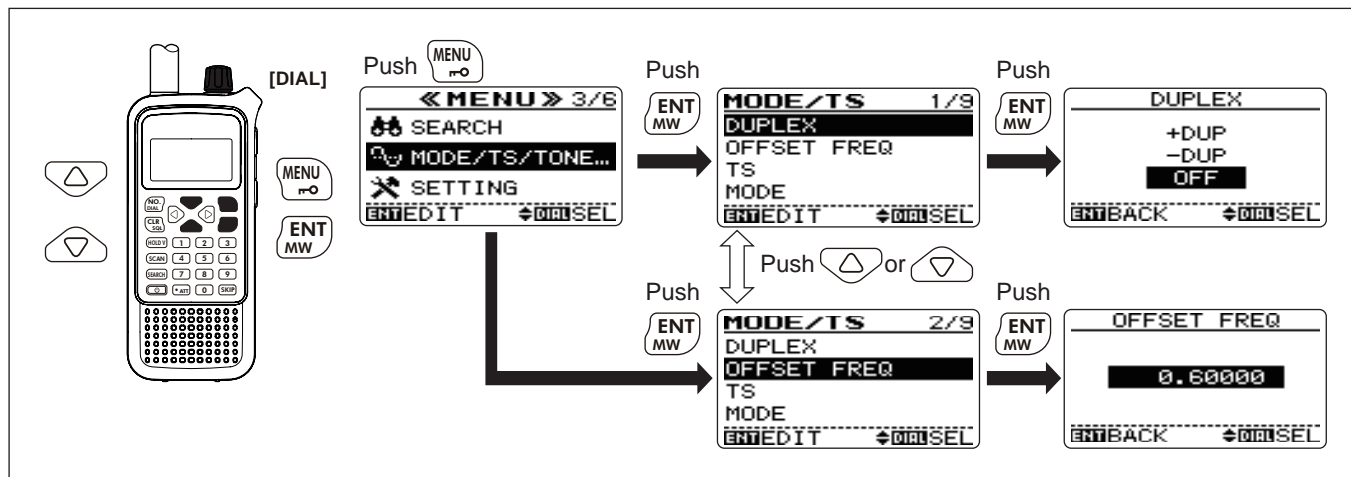
During duplex operation, the transmit station frequency is shifted from the receive station frequency by the offset frequency. Repeater information (offset frequency and shift direction) can be programmed into memory channels. (p. 53)

◇ Setting

- ① Set the receive station frequency (repeater output frequency) in VFO mode.
- ② Enter "DUPLEX" in MODE/TS/TONE... menu.

MENU ⇨ MODE/TS/TONE... ⇨ **DUPLEX** (p. 60)
 (Push [MENU]), (Push [Δ]/[▽], then push [ENT MW].)

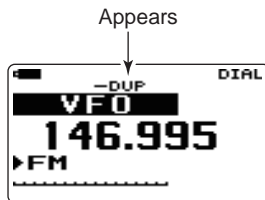
- ③ Push [Δ]/[▽] (or rotate [DIAL]) to select "-DUP" or "+DUP."



- ④ Push **[ENT MW]** (or [**<**]) to return to MODE/TS/TONE... menu, and push **[▽]** (or rotate **[DIAL]**) to select “OFFSET FREQ.”

MENU ⇨ MODE/TS/TONE... ⇨ **OFFSET FREQ** (p. 60)

- ⑤ Enter the desired offset frequency within 0.00000–159.99500 MHz range via the keypad, or by pushing **[△]/[▽]** (or rotate **[DIAL]**) also can be set.
 - The tuning step, selected in VFO mode, is used for setting.
 - Push and hold [**<**] or [**>**] for 1 sec. then rotate **[R-DIAL]** to change the frequency in 1 MHz steps.
- ⑥ Push **[ENT MW]** (or [**<**]) to return to MODE/TS/TONE... menu, and push **[CLR SQL]** to return to frequency indication.

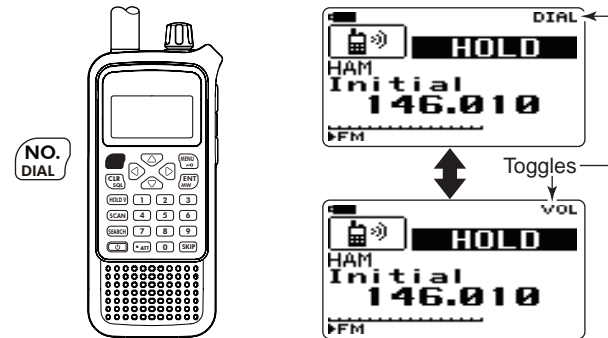


- ⑦ Push and hold **[CLR SQL]** to monitor the transmit station frequency (repeater input frequency) directly.

■ [DIAL] function assignment

The **[DIAL]** control can be used as an audio volume control instead of **[△]/[▽]** keys to suit your preference. However, while **[DIAL]** functions as an audio volume, **[△]/[▽]** keys function as tuning controls.

- Push and hold **[NO. DIAL]** for 1 sec. to toggle the dial function from turning dial and audio volume.



- **[DIAL]** and **[△]/[▽]** functions

[DIAL]	[△]/[▽]
Frequency, Memory channel, Squelch level, Searching/ scanning direction	Audio volume set

■ Tone/DTCS squelch operation

◇ Tone and DTCS squelches

The tone squelch (CTCSS) or DTCS squelch opens only when receiving a signal containing a matching subaudible tone or DTCS code, respectively. You can silently wait for calls from group members using the same tone or code.

◇ Reverse tone/DTCS squelch

The reverse tone/DTCS squelch is convenient if you want to ignore a specific signal. The receiver mutes the squelch when a signal with the matched tone or code is received. "TSQL-R" / "DTCS-R" is displayed when the reverse tone/DTCS is set.

◇ Pocket beep

These functions use subaudible tones or DTCS codes for calling and can be used as a "common pager" to inform you that someone has called while you were away from the receiver.

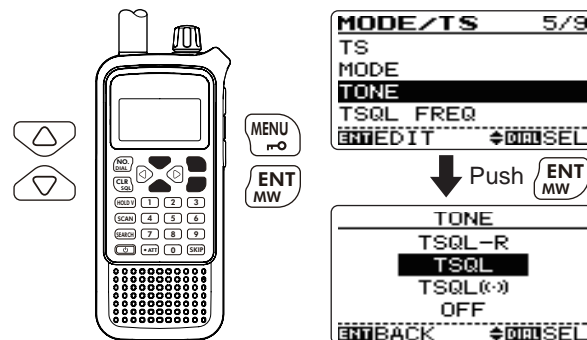
◇ Setting

- ① Set the desired operating frequency in FM mode.
- ② Enter "TONE" in MODE/TS/TONE... menu.

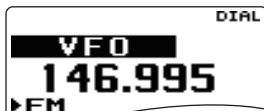
MENU ⇨ MODE/TS/TONE... ⇨ **TONE** (p. 62)
 (Push [MENU] [↵]), (Push [△]/[▽], then push [ENT MW].)

- ③ Push [△]/[▽] (or rotate [DIAL]) to select the tone or DTCS squelch.

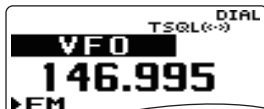
- Tone squelch "TSQL," tone squelch reverse "TSQL-R," pocket beep "TSQL (↵)," DTCS squelch "DTCS," DTCS squelch reverse "DTCS-R," DTCS beep "DTCS (↵)" and no tone operation are available.



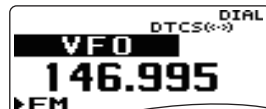
- ④ Push **[ENT MW]** (or [**<|**]) to return to MODE/TS/TONE... menu, and push **[CLR SQL]** to return to frequency indication.



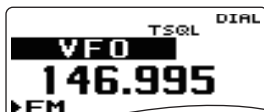
OFF (no indication)



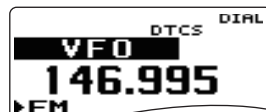
Tone squelch with pocket beep



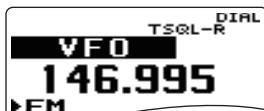
DTCS squelch with pocket beep



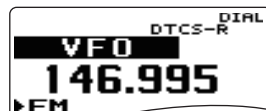
Tone squelch



DTCS squelch



Tone squelch reverse



DTCS squelch reverse


- ⑤ Operate the receiver in the normal way.
- ⑥ When the received signal includes a matching tone/code, the squelch opens and the signal can be heard.
- When the received signal's tone/code does not match, tone/DTCS squelch does not open, however, the S-indicator shows signal strength.
 - To open the squelch manually, push and hold **[CLR SQL]** for 1sec.

◇ Pocket beep function

- ① When pocket beep function is activated and the signal with a matching tone/code is received, the receiver emits beep tones for 30 sec. and blinks "(··)".
- ② Push **[CLR SQL]** to stop the beeps and blinking.

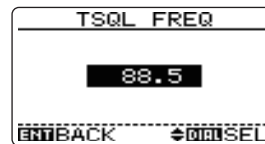
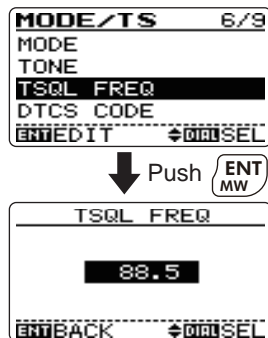
■ Tone squelch frequency/DTCS code setting

- ① Enter “TSQL FREQ” or “DTCS CODE” in MODE/TS/TONE... menu for selecting tone squelch frequency or DTCS code, respectively.

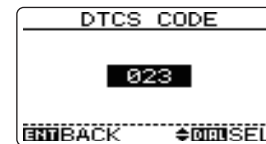
MENU ⇨ MODE/TS/TONE... ⇨ **TSQL FREQ** (p. 62)
 (Push [MENU] ), (Push [Δ]/[∇]), then push [ENT MW].)

MENU ⇨ MODE/TS/TONE... ⇨ **DTCS CODE** (p. 63)

- ② Push [Δ]/[∇] (or rotate [DIAL]) to select the desired tone squelch frequency or DTCS code.
- Each operating band and each memory channel have independent settings.
 - See next page for available tone frequencies or DTCS codes for details.



Tone squelch frequency



DTCS code

- ③ Push [ENT MW] (or [←]) to return to MODE/TS/TONE... menu, and push [CLR SQL] to return to frequency indication.

/// DTCS phase mode can be selected in “DTCS POLARITY” setting. (p. 79)

•Available tone frequencies


67.0	79.7	94.8	110.9	131.8	156.7	171.3	186.2	203.5	229.1
69.3	82.5	97.4	114.8	136.5	159.8	173.8	189.9	206.5	233.6
71.9	85.4	100.0	118.8	141.3	162.2	177.3	192.8	210.7	241.8
74.4	88.5	103.5	123.0	146.2	165.5	179.9	196.6	218.1	250.3
77.0	91.5	107.2	127.3	151.4	167.9	183.5	199.5	225.7	254.1

•Available DTCS code

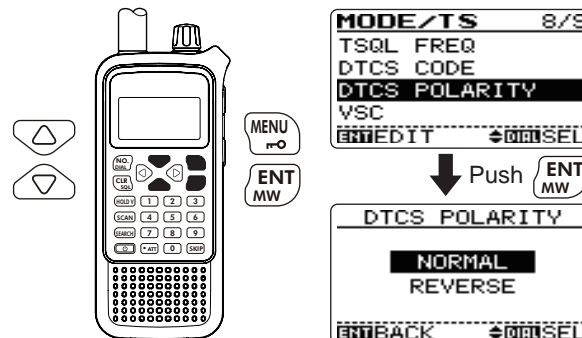
023	054	125	165	245	274	356	445	506	627	732
025	065	131	172	246	306	364	446	516	631	734
026	071	132	174	251	311	365	452	523	632	743
031	072	134	205	252	315	371	454	526	654	754
032	073	143	212	255	325	411	455	532	662	
036	074	145	223	261	331	412	462	546	664	
043	114	152	225	263	332	413	464	565	703	
047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

■ DTCS polarity setting

- ① Enter “DTCS POLARITY” in DUP/TONE... menu.

MENU ⇨ MODE/TS/TONE... ⇨ **DTCS POLARITY** (p. 63)
(Push [MENU] ) , (Push [Δ]/[▽] , then push [ENT MW].)

- ② Push [Δ]/[▽] (or rotate [DIAL]) to select the desired DTCS polarity.



- ③ Push [ENT MW] (or [←]) to return to DUP/TONE... menu, and push [CLR SQL] to return to frequency indication.

■ Tone search

By monitoring a signal that is being operated with pocket beep, tone or DTCS squelch function, you can determine the tone frequency or DTCS code necessary to open a squelch.

① Set the frequency to be checked for a tone frequency or DTCS code.

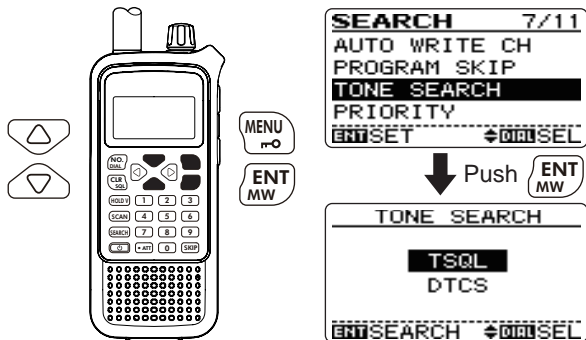
② Enter "TONE SEARCH" in SEARCH menu.

MENU ⇨ SEARCH ⇨ **TONE SEARCH**
 (Push [MENU] [ENT MW]), (Push [Δ]/[∇], then push [ENT MW].)

- Search menu can also be entered by pushing and holding [SEARCH] for 1 sec.
- Tone search screen appears.

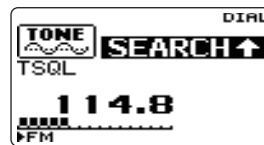
③ Push [Δ] or [∇] to select "TSQL" or "DTCS," then push [ENT MW] to start the tone search.

- To change the searching direction, rotate [DIAL].
- Tone squelch or DTCS squelch function is activate automatically.



④ When the tone frequency or DTCS code is decoded, the setting menu contents are programmed with the frequency or code.

- The tone search pauses for the set period in search pause timer (p. 38) when a tone frequency or DTCS code is detected.
- The decoded tone frequency is used for the tone squelch frequency (TSQL FREQ) when the tone squelch is ON.
- The decoded DTCS code is used for the DTCS code when the DTCS squelch is ON.



Tone search for tone squelch



Tone search for DTCS squelch

⑤ Push [CLR SQL] to stop the search.

- If the search is cancelled before the receiver detects the tone or code, the setting menu contents are not changed.
- The detected tone is used for temporary operation only. The stored tone setting in memory channel won't be changed.

NOTE: Tone frequency is over-written automatically when it corresponds with the searching tone frequency in tone squelch mode. However, it is not over-written in memory channel.

■ Beep tones

You can select to have confirmation beeps sound at the push of a switch. The output level can be adjusted within 39 levels with “BEEP LEVEL” in SOUNDS menu.

MENU ⇨ SOUNDS ⇨ **BEEP LEVEL** (p. 68)
(Push [MENU ]), (Push [△]/[▽], then push [ENT MW].)

You can select silent operation by turning beep tones OFF with “KEY-TOUCH BEEP” in SOUNDS menu.

MENU ⇨ SOUNDS ⇨ **KEY-TOUCH BEEP** (p. 68)
(Push [MENU ]), (Push [△]/[▽], then push [ENT MW].)

■ Dial speed acceleration

The dial speed acceleration automatically speeds up the tuning dial speed when rotating [DIAL] rapidly.

This function can be turned ON and OFF with “DIAL SPEED-UP” in SETTING menu.

MENU ⇨ SETTING ⇨ **DIAL SPEED-UP** (p. 66)
(Push [MENU ]), (Push [△]/[▽], then push [ENT MW].)

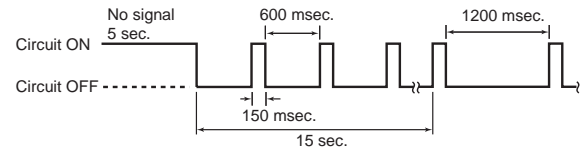
■ Power save

The power save function reduces the current drain to conserve battery power.

The power save duty cycle, the ratio of receive circuit on to receive circuit off during standby, can be set to automatic (default), 1 : 4 (150 msec. : 600msec.), 1 : 8 (150 msec. : 1200msec.), or OFF with “POWER SAVE” in SETTING menu.

MENU ⇨ SETTING ⇨ **POWER SAVE** (p. 65)
(Push [MENU ]), (Push [△]/[▽], then push [ENT MW].)

- “AUTO” selects “1:4” duty ratio when receiving no signal for 5 sec., then “1:8” 15 sec. after that.



9 OTHER FUNCTIONS

■ Auto power OFF

The receiver can be set to automatically turn OFF after a specified period with a beep when no switch is pushed.

120 min., 90 min., 60 min., 30 min. and OFF can be specified. The specified period is retained even when the receiver is turned OFF by the auto power-off function. To cancel the function, select "OFF" in the auto power-off item in setting menu.

This can be selected with "AUTO POWER OFF" in SETTING menu.



MENU ⇨ SETTING ⇨ **AUTO POWER OFF** (p. 65)
(Push [MENU ], (Push [Δ]/[▽], then push [ENT MW].)

■ Auto power ON

The receiver can be set to automatically turn ON after a specified period. The timer can be selected within 30 min. to 24 hrs. in 30 min. steps.

This can be selected with "AUTO POWER ON" in setting menu.

MENU ⇨ SETTING ⇨ **AUTO POWER ON** (p. 65)
(Push [MENU ], (Push [Δ]/[▽], then push [ENT MW].)

 When operating with battery pack or case and the battery is exhausted, auto power-on does not function.
 During standby, a small current still flows in the radio.

■ Display backlighting

The receiver has display backlighting with a 5 sec. timer for night time operation. The display backlighting can be turned ON continuously, turned AUTO or turned OFF, if desired.

This can be selected with "BACKLIGHT" in DISPLAY menu.

MENU ⇨ DISPLAY ⇨ **BACKLIGHT** (p. 70)
(Push [MENU ], (Push [Δ]/[▽], then push [ENT MW].)

■ Font size

Displayed character size for category is selectable from Large and Small.

This can be selected with "FONT SIZE" in DISPLAY menu.

MENU ⇨ DISPLAY ⇨ **FONT SIZE** (p. 70)
(Push [MENU ], (Push [Δ]/[▽], then push [ENT MW].)

■ LCD contrast

The contrast of the LCD can be selected from 15 levels.


This can be selected with “LCD CONTRAST” in DISPLAY menu. (p. 96)

MENU ⇨ DISPLAY ⇨ **LCD CONTRAST** (p. 70)
 (Push [MENU ], (Push [△]/[▽], then push [ENT MW].)

■ Voice squelch control

This function is useful when you don't want unmodulated signals pausing or cancelling a search/scan. When the voice squelch control function is activated, the receiver checks received signals for voice components. If a received signal includes voice components, and the tone of the voice components changes within 1 sec., search/scan pauses (or stops). If the received signal includes no voice components or the tone of the voice components does not change within 1 sec., scan resumes.

This can be selected with “VSC” in MODE/TS/TONE... menu. (p. 96)

MENU ⇨ MODE/TS/TONE... ⇨ **VSC** (p. 63)
 (Push [MENU ], (Push [△]/[▽], then push [ENT MW].)




- “VSC” appears when the function is activated.

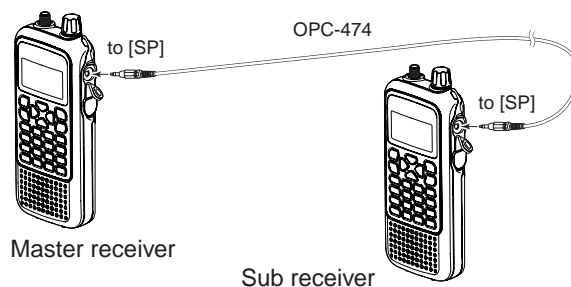
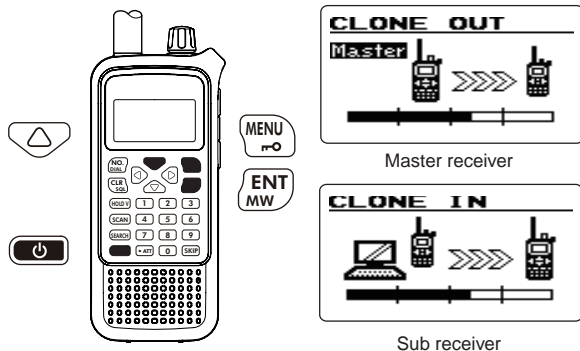
9 OTHER FUNCTIONS

■ Cloning function

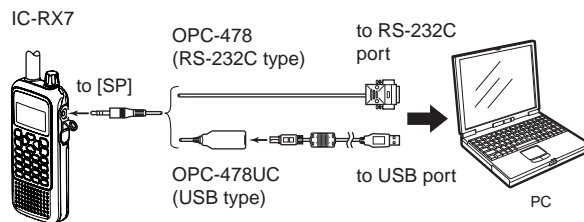
The IC-RX7 has receiver-to-receiver data cloning capability. This function is useful when you want to copy all of the programmed contents from one IC-RX7 to another.

- An optional OPC-474 CLONING CABLE is required.

- ① Turn the receiver's power OFF, then connect an optional OPC-474 between both [SP] jacks as shows right.
- ② While pushing [△] and [MENU >], push and hold [] for 1 sec. to enter cloning mode.
 - "MASTER" appears.
- ③ Push [ENT MW] on the "master" receiver.
 - "CLONE OUT" appears on the master receiver and "CLONE IN" appears on the sub receiver and the bar meters show that cloning is taking place.
 - After the cloning is completed, the display returns to "CLONE END."
- ④ Push and hold [] for 1 sec. to turn power OFF.



The optional CS-RX7 CLONING SOFTWARE is also available to clone/edit contents with a PC (for Microsoft® Windows® 98SE/ME/2000/XP/Windows Vista™) and using ICF format files.



■ Resetting

The display may occasionally display erroneous information (e.g. when first applying power). This may be caused externally by static electricity or by other factors.

If this problem occurs, turn power OFF. After waiting a few seconds, turn power ON again. If the problem persists, perform either or both procedures below.

• All reset

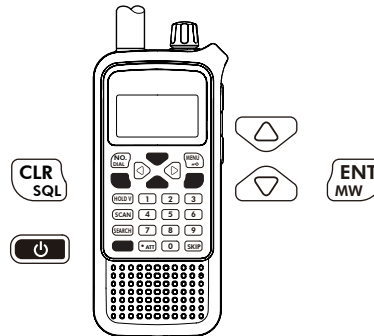
Reset the CPU before operating the receiver for the first time, or if the internal CPU malfunctions, to clear and return all programmed contents to their default settings.

• Partial reset

If you want to initialize the operating conditions (VFO frequency, VFO settings, set mode contents) without clearing the memory contents, a partial reset function is available for the receiver.

◇ All reset

- ① Push and hold [POWER] for 1 sec. to turn power OFF.
- ② While pushing and holding [△], [▽], [ENT MW] and [CLR SQL], then turn power ON to reset the CPU.
 - “ALL RESET” appears when resetting the CPU (See the illustration below).

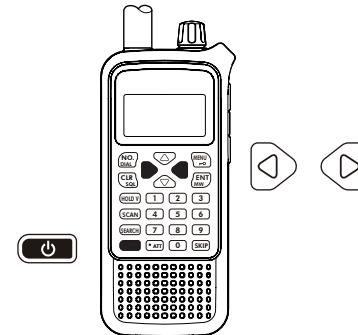


CAUTION: Resetting the CPU returns all programmed contents to their default settings.

◇ Partial reset

- ① Push and hold [POWER] for 1 sec. to turn power OFF.
- ② While pushing and holding [◀] and [▶], then turn power ON to partially reset the receiver.

[NOTE]: No message appears on the display after the partial reset is done.



10 CONTROL COMMAND

■ General

The IC-RX7 can be connected to a PC via the PC's RS-232C port using an optional CT-17 CI-V LEVEL CONVERTOR. This allows you to control the receiver from the PC and/or transfer data from the receiver to the PC.

Control is provided via Icom's CI-V Communication Interface.

/// An appropriate application for CI-V command is not supplied from Icom.

■ Data format

The CI-V system can be operated using the following data formats. Data formats differ according to command numbers. A data area is added for some commands.

Controller → IC-RX7

FE	FE	78	E0	Cn	Sc	Data area	FD
①	②	③	④	⑤	⑥	⑦	

IC-RX7 → Controller

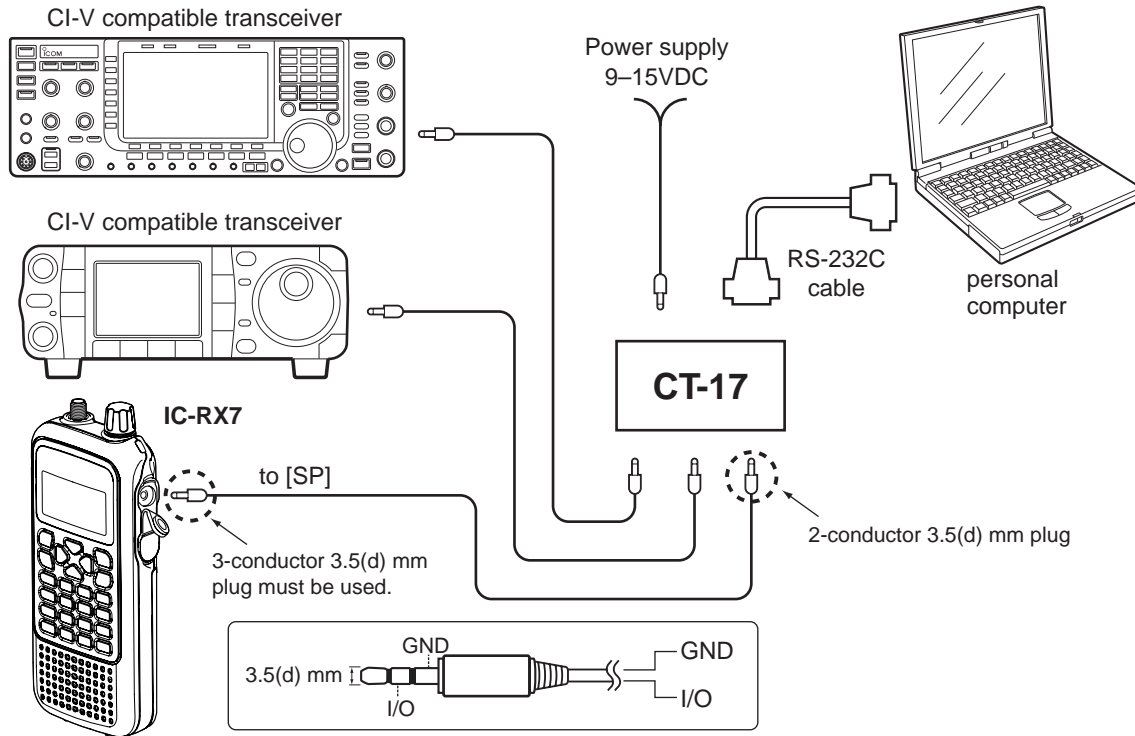
FE	FE	E0	78	Cn	Sc	Data area	FD
①	③	②	④	⑤	⑥	⑦	

- ① Preamble code (fixed)
- ② Receiver's default address
- ③ Controller's default address
- ④ Command number (see table below)
- ⑤ Sub command number (see table below)
- ⑥ BCD code data for frequency entry
- ⑦ End of message code (fixed)

■ Command table


Description	Cn	Sc
Transfers frequency data (transceive)	00	—
Transfers mode data (transceive)	01	—
Reads display frequency	03	—
Reads display mode	04	—
Sets frequency data	05	—
Sets AM mode	06	02
Sets FM mode		05
Sets WFM mode		06
Reads squelch condition (open or closed)	15	01
Reads S-meter level		02

CI-V connections example



11 TROUBLESHOOTING

If your receiver seems to be malfunctioning, please check the following points before sending it to a service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
No power comes ON.	<ul style="list-style-type: none"> • The batteries are exhausted. • Loose connection of a battery pack (case). • The battery polarity is reversed. 	<ul style="list-style-type: none"> • Replace the batteries or charge the battery pack. • Clean battery terminals. • Check the battery polarity. 	pgs. 2, 3, 12 – –
No sound comes from the speaker.	<ul style="list-style-type: none"> • Volume level is too low. • External speaker or Cloning cable is connected to [SP] jack. • Squelch level is set too tight. • Different tone is selected with tone/DTCS squelch. 	<ul style="list-style-type: none"> • Push [△] to suitable level. • Check the connection of the external speaker correctly or disconnect the cloning cable. • After pushing and holding [CLR SQL] for 1 sec., rotate [DIAL] to set the squelch level. • Turn the appropriate function OFF. 	p. 14 – p. 15 p. 76
Sensitivity is low and only strong signals are audible.	<ul style="list-style-type: none"> • Attenuator function is activated. • RF gain is setting too low. 	<ul style="list-style-type: none"> • Push and hold [• ATT] for 1 sec. to cancel the function. • Set the RF gain to “MAX” in SETTING menu. 	p. 73 p. 72
Receive audio is distorted.	<ul style="list-style-type: none"> • Receiving mode is not selected correctly. 	<ul style="list-style-type: none"> • Set the receiving mode correctly in MODE/TS/TONE... menu. 	p. 19
Frequency can not be set.	<ul style="list-style-type: none"> • The lock function is activated. 	<ul style="list-style-type: none"> • Push [MENU ] for 1 sec. to cancel the function. 	p. 73
Scan function can not start.	<ul style="list-style-type: none"> • The programmed memory channel is only one. 	<ul style="list-style-type: none"> • Program more than 2 memory channels. 	p. 133 p. 1
Link scan function can not start.	<ul style="list-style-type: none"> • All category or group are set to “SKIP” 	<ul style="list-style-type: none"> • Cancel “SKIP” setting in SCAN menu. 	p. 44
The displayed frequency is erroneous.	<ul style="list-style-type: none"> • The CPU malfunctioned. • External factors caused a fault. 	<ul style="list-style-type: none"> • Reset the receiver. • Remove and re-attach the battery pack or battery case. 	p. 85 pgs. 2, 3

◇ General

- Frequency coverage : (Unit: MHz)
- USA : 0.150–821.995, 851.000–866.995,
896.000–1300.000
- Other than USA : 0.150–1300.000
- Number of memory channels : 1600 channels (Memory channels)
200 channels (Auto write channels)
25 channels (Scan edge channels)
- Receive modes : FM, AM, WFM
- Frequency resolution : 5, 6.25, 7.5, *8.33,*9, 10, 12.5, 15, 20,
25, 30, 50, 100, 125, 200 kHz
*selectable depending on the operating frequency band.
- Operating temperature range : –10°C to +60°C; +14°F to +140°F
- Reference frequency stability : ±6 ppm (–10°C to +60°C; +14°F to +140°F)
- Power supply requirement : BP-244 (Li-ion battery pack),
(Negative ground) BP-262 (3 AA (R6) alkaline cells) or
5.1 to 6.9 V DC (with CP-18A/E)
- Current drain (backlight OFF with BP-244 (3.7 V DC):
rated audio : 150 mA typical
receive standby : 100 mA typical
power saved : 35 mA typical
- Antenna connector type : SMA
- Antenna impedance : 50 Ω (unbalanced)
- Dimensions (proj. not included) : 57(W) × 128(H) × 23(D) mm
2¼(W)×5½(H)×29½(D) in
- Weight (approx.) : 200 g; 7.1 oz (with the ant. and BP-244)
- AF output power (at 3.7 V DC) : More than 600 mW at 70% modulation,
10% distortion with an 8 Ω load
- Ext. speaker connector : 3-conductor 3.5 (d) mm (1/8")/8 Ω

◇ Receiver

- Receive system : Triple-conversion superheterodyne
- Intermediate frequencies : 1st: 429.1 MHz,
2nd: 19.65 MHz (FM/AM),
20.75 MHz (WFM)
3rd: 450 kHz (FM/AM),
1.55 MHz (WFM)
- Sensitivity (except spurious points) :
FM (1 kHz/3.5 kHz Dev.; 12 dB SINAD)
- 1.625–4.995 MHz : Less than 0.56 μV
- 5.000–246.995 MHz : Less than 0.4 μV
- 247.000–832.995 MHz : Less than 0.56 μV
- 833.000–1300.000 MHz : Less than 0.79 μV (Except USA version)
- 851.000–866.995 MHz : Less than 1.3 μV (USA version only)
- 896.000–1300.000 MHz : Less than 0.79 μV (USA version only)
- WFM (1 kHz/52.5 kHz Dev.; 12 dB SINAD)
- 76.000–108.000 MHz : Less than 1.8 μV
- 175.000–221.995 MHz : Less than 1.8 μV
- 470.000–770.000 MHz : Less than 2.5 μV
- AM EXT-ANT (DX) (1 kHz/30% MOD.; 10 dB S/N)
- 0.495–4.995 MHz : Less than 2.5 μV
- 5.000–29.995 MHz : Less than 1.8 μV
- 118.000–136.000 MHz : Less than 1.8 μV
- 222.000–246.995 MHz : Less than 1.8 μV
- 247.000–329.995 MHz : Less than 1.8 μV
- Selectivity :
AM/FM : More than 15 kHz/–9 dB
Less than 30 kHz/–60 dB
- WFM : More than 150 kHz/–6 dB

13 OPTIONS

BC-149 A/D AC ADAPTOR



For charging of the attached-battery pack (BP-244). 6 V DC/1 A output. Same as supplied one. (Not supplied with some versions.)

CP-18A/E CIGARETTE LIGHTER CABLE WITH DC-DC CONVERTER



Allows you to operate the receiver through a 12 V cigarette lighter socket, and also charges the attached battery pack (BP-244). A built-in DC-DC converter outputs 6 V DC.

SP-13 EARPHONE



Provides clear receive audio in noisy environments.

CS-RX7 CLONING SOFTWARE with **OPC-478UC** CLONING CABLE (USB type)

Allows you to transfer data, such as memories, and quickly and easily edit and store data via a PC (for Microsoft® Windows® 98SE/Me/2000/XP or Windows Vista™) with an USB (1.1/2.0) port. A cloning cable, OPC-478UC, is supplied with the software.

OPC-478/UC CLONING CABLE (RS-232C type)/(USB type)

OPC-474 CLONING CABLE

Used for receiver -to-receiver cloning

MB-112G BELT CLIP

Helps protect the receiver from scratches, etc.

BP-244 Li-Ion BATTERY PACK

3.7 V/1100 mAh Lithium Ion battery pack. Same as supplied one. (Not supplied with some versions.)

BP-262 BATTERY CASE

Battery case for LR6 (AA) × 3 alkaline batteries.

CT-17 CI-V LEVEL CONVERTOR

For receiver remote control using a PC.

AD-92SMA

ANTENNA CONNECTOR ADAPTER

Allows you to connect an external antenna with a BNC connector.

LC-17 CARRYING CASE

For receiver remote control using a PC.

HP-4

HEAD PHONE

Provides clear receive audio in noisy environments.



We Icom Inc. Japan
1-1-32, Kamiminami, Hirano-ku
Osaka 547-0003, Japan

Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed.

Kind of equipment: WIDEBAND RECEIVER

Type-designation: IC-RX7

Version (where applicable): _____

This compliance is based on conformity with the following harmonised standards, specifications or documents:

- i) EN 301 489-1 V1.4.1. (August 2002)
- ii) EN 301 489-15 V1.2.1. (August 2002)
- iii) EN 301 783 V1.1.1. (September 2000)
- iv) EN 60950-1: 2001: A11: 2004

DECLARATION OF CONFORMITY



Düsseldorf 13th Jun. 2008
Place and date of issue

Icom (Europe) GmbH
Himmelgeister straÙe 100
D-40225 Düsseldorf
Authorized representative name

Y. Furukawa
General Manager

Signature

Icom Inc.

14 CE

• List of Country codes (ISO 3166-1)

	Country	Codes		Country	Codes
1	Austria	AT	18	Liechtenstein	LI
2	Belgium	BE	19	Lithuania	LT
3	Bulgaria	BG	20	Luxembourg	LU
4	Croatia	HR	21	Malta	MT
5	Czech Republic	CZ	22	Netherlands	NL
6	Cyprus	CY	23	Norway	NO
7	Denmark	DK	24	Poland	PL
8	Estonia	EE	25	Portugal	PT
9	Finland	FI	26	Romania	RO
10	France	FR	27	Slovakia	SK
11	Germany	DE	28	Slovenia	SI
12	Greece	GR	29	Spain	EP
13	Hungary	HU	30	Sweden	SE
14	Iceland	IS	31	Switzerland	CH
15	Ireland	IE	32	Turkey	TR
16	Italy	IT	33	United Kingdom	GB
17	Latvia	LV			

Count on us!

#02 Europe

<Intended Country of Use>											
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#03 U.K.

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<input type="checkbox"/>	RO	<input type="checkbox"/>	TR	<input type="checkbox"/>	HR						

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