Pushing [EXIT/SET] several times returns to the start

up screen. See p. 12-3 for set mode arrangement.

### Screen menu arrangement

The following screens can be selected from the start up screen. Choose the desired screen using the following chart.

10 16 ANT 1 AGC-MID F0 USB FIL2 14.100.00 VFO USB FIL2 14.100.00 ATT OFF • PSK31 decoder screen (p. 4-21) AGC MID AGC MID , built-in 1/4 OFF OFF VSC VSC OFF VOICE MEMORY SCAN SET (MENU1) TX MEM SCOPE HOLD/CLR AFC/NET ADJ F-3 F-1 F-2 F-3 F-4 F-5 F-6 F-7 ר ר • Memory channel screen (p. 8-3) Spectrum scope screen (p. 5-2) AGC MID MID SCAN EDGE OFF OFF VSC OFF VSC OFF ATT MARKER HOLD CENT/FIX MAIN/SUB ROLL SELECT NAME CLR SPAN SET SET **F-4** • Voice recorder screen (p. 7-3) • Scan screen (VFO mode; p. 9-4) MID MID -.-- MHz 10 kHz ⊿F C OFF OFF ⊿F 0.500.00 MHz 29.999.99 MHz P2 VSC OFF VSC OFF MHz MORY TX LEVEL 50% Τ4 TX LEV. T/R PROG RECALL SET T2 Т3 F-5 F-2 • Memory keyer screen (CW mode; p. 4-8) • Scan screen (Memory mode; p. 9-6) CQ TEST CQ TEST DE ICOM ICOM TEST MID AGC MID M1 -.---. MHz ± 10 kHz UR 5NN 001 BK ⊿F Center ⊿F Span 1/4 OFF 1 M2 ⊿F OFF WIDE CFM TU 0.500.00 MHz M3 VSC OFF VSC OFF QRZ ÷ MEMO M SELECT ⊿F SPAN SEL No. M2 M3 RECALL F-3 F-5 • RTTY decoder screen (p. 4-13) • Set mode menu screen (p. 12-2) MID MID I EVI TX Tone, RX Tone, Side To . huilt-ir 1/4 OFF ACC [ACC] IN/OUT Signal Lev els, etc OFF WIDE DISP Font, Pop-up, EXT Display, etc Style, TIME Clock Other Items VSC OFF VSC OFF MYCALLX CF CARE Load/Save settings, Update firmware, Format CF CARE HOLD/CLR MAIN/SUB LEVEL CF CARE (MENU1) ACC OTHERS TX MEM ADJ DISP TIME F-3 F-7

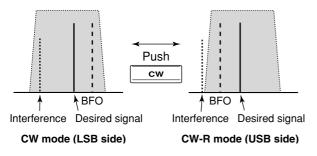
#### Convenient functions for transmit

#### • Break-in function (p. 6-3)

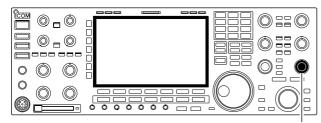
 Push [VOX/BK-IN] several times to select the break-in OFF, semi break-in and full break-in.
 "BK IN" or "F-BK IN" appears when the semi break-in

or full break-in function is ON, respectively.

#### ♦ About CW reverse mode



#### ♦ About CW pitch control





#### ♦ CW side tone function



CW-R (CW Reverse) mode uses the opposite side band to receive CW signals.

Use when interfering signals are near a desired signal and you want to use CW-R to reduce the interference.

 During CW mode, push [CW] to select CW and CW-R mode.

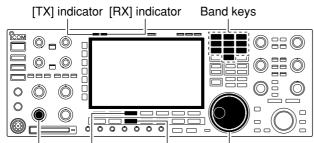
The received CW audio pitch and CW side tone can be adjusted to suit your preference (from 300 to 900 Hz in 5 Hz steps). This does not change the operating frequency.

Rotate [CW PITCH] to suit your preference.
 Adjustable within 300 to 900 Hz in 25 Hz steps.

When the transceiver is in the receive condition (and the break-in function is OFF— p. 6-3) you can listen to the CW side tone without actually transmitting.

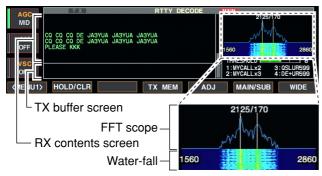
This allows you to match your transmit frequency exactly to another station's by matching the audio tone. You can also use the CW side tone (be sure to turn OFF break-in!) to practice CW sending. CW side tone level can be adjusted with [MONI GAIN].

# Operating RTTY (FSK)



[AF] [F-3•DECODE] [RTTY/PSK] Main dial





A DSP-based high-quality Baudot RTTY encoder/decoder is built-in to the IC-7800. When connecting a PC keyboard (p. 2-6), RTTY operation can be performed without an external RTTY terminal, TNC or PC.

If you would rather use your RTTY terminal or TNC, consult the manual that comes with the RTTY terminal or TNC.

- 1) Push a band key to select the desired band.
- 2 Push [RTTY/PSK] to select RTTY.
  - After RTTY mode is selected, push [RTTY/PSK] for 1 sec. to toggle between RTTY and RTTY-R modes.
    "RTTY" or "RTTY-R" appears.
- ③ Push [F-3•DECODE] to display the decoder screen.
   The IC-7800 has a built-in Baudot decoder.
- ④ To tune the desired signal, aim for a symmetrical wave form and ensure the peak points align with the mark (2125 Hz) and shift (170 Hz) frequency lines in the FFT scope.
  - The S-meter indicates received signal strength when signal is received.
- (5) Press [F12] on the connected keyboard to transmit.• [TX] indicator lights red.
- (6) Type from the keyboard to enter the contents that you want to transmit.
  - The typewritten contents are indicated in the TX buffer screen and transmitted immediately.
  - The text color will be changed when transmitted.
  - Press one of [F1]–[F8] to transmit the TX memory contents.
- O Press [F12] on the keyboard to return to receive.

#### ✓ For your convenience

The transmission contents can be typed before being transmitted.

- ① Perform the steps ① to ④ above.
- ② Type from the connected keyboard to enter the message that you want to transmit.
  - The typewritten contents are indicated in the TX buffer screen.
- ③ Press [F12] of the connected keyboard to transmit the typewritten contents.
  - The color of displayed text, in the TX buffer screen, will be changed when transmitted.
  - To cancel the transmission, press [F12] twice.
- ④ Press [F12] of the keyboard to return to receive.

#### Functions for the RTTY decoder indication



#### Wide screen indication



#### Setting the decoder threshold level

AGC MID	RTTY DECODE #XXXXX RTTY Encode/Decode Monitor #XXXX 45bps BAUDOT Mark=2125Hz, Shift=170Hz Keyboard TX or Memory TX supported	Π	MAIN 21:	25/170
1/4 OFF	Max.70 Characters x 8ch TX Memory built-in Data Saving to CF CARD supported		1560	2860
VSC OFF			THRESHOLD 1:MYCALLx2 2:MYCALLx3	3: QSLUR599 4: DE+UR599
2 1 17	ADJ	J	DEF	WIDE

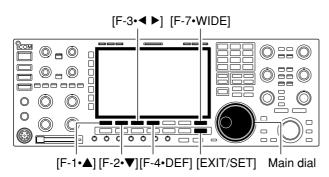
- 1) Push a band key to select the desired band.
- 2 Push [RTTY/PSK] to select RTTY.
- After RTTY mode is selected, push [RTTY/PSK] for 1 sec. to toggle between RTTY and RTTY-R modes.
  "RTTY" or "RTTY-R" appears.
- ③ Push [F-3•DECODE] to display the decoder screen.
   When tuned into an RTTY signal, decoded characters are displayed in the RX contents screen.
- ④ Push [F-2•HOLD/CLR] to freeze the current screen.
   "HOLD" appears while the function is in use.
  - Push [F-2•HOLD/CLR] again to release the function.
- ⑤ Push [F-2•HOLD/CLR] for 1 sec. to clear the displayed characters.
  - "HOLD" indicator disappears at the same time when the hold function is in use.
- ⑥ Push [F-7•WIDE] to toggle the RTTY decode screen size from normal and wide.
  - S/RF meter type during wide screen indication can be selected in display set mode. (pgs. 3-11, 12-11)
- ⑦ Push [F-6•MAIN/SUB] to toggle the MAIN and SUB band for decode operation.
  - Dualwatch function (p. 5-16) should be ON when SUB band is selected for decode operation.
- 8 Push [EXIT/SET] to close the RTTY decode screen.

Adjust the RTTY decoder threshold level if some characters are displayed when no signal is received.

- ① Select the RTTY decoder screen as described above.
- ② Push [F-5•ADJ] to select the threshold level setting condition.
- ③ Rotate the main dial to adjust the RTTY decoder threshold level.
- Push [F-6•DEF] for 1 sec. to select the default setting.
- ④ Push [F-5•ADJ] to exit from the threshold level setting condition.

The UnShift On Space (USOS) function and new line code can be set in the RTTY set mode. (p. 4-18)

#### RTTY decode set mode



#### RTTY decode set mode screen

AGC	RTTY D	ECODE SET
MID	RTTY FFT Scope Averaging	OFF
WID	RTTY FFT Scope Waveform Color	<b>E 51 51 53 55</b>
1/4	RTTY Decode USOS	ON
	RTTY Decode New Line Code	CR,LF,CR+LF
OFF	RTTY Diddle	BLANK
1 10 10 10 10 10 10 10 10 10 10 10 10 10	RTTY TX USOS	ON
VSC	RTTY Auto CR+LF by TX	ON
OFF	RTTY Time Stamp	ON
	-	
<b>A</b>	▼ DEF	WIDE

This set mode is used to set the decode USOS function, time stamp setting, etc.

#### • Setting contents

- ① During RTTY mode operation, push [F-3•DECODE] to select RTTY decode screen.
- ② Push [F-1•<MENU2>] to select RTTY decode menu 2, then push [F-6•SET] to select RTTY decode set mode.
  - Push [F-7•WIDE] to toggle the screen size from normal and wide.
- ③ Push [F-1•▲] or [F-2•▼] to select the desired set item.
- ④ Set the desired condition using the main dial.
  - Push [F-4•DEF] for 1 sec. to select a default condition or value.
  - Push [F-3・◀ ▶] to select the set contents for some items.
- (5) Push [EXIT/SET] to exit from set mode.

#### **RTTY FFT Scope Averaging**

Set the FFT scope waveform averaging function from 2 to 4 and OFF. (default: OFF)

#### **Recommendation!**

51

OFF

If you use the FFT scope waveform for tuning, use the default or smaller number setting is recommended.

153

255

#### RTTY FFT Scope Waveform Color

Set the color for the FFT scope waveform.

- The color is set in RGB format.
- The set color is indicated in the box beside the RGB scale.
- Push [F-3•◀ ►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.

RTTY Decode USOS	ON
Turn the letter code decoding after receiving a "space" (USOS; UnShift On Space function) capability ON	<ul> <li>ON : Decode as letter code.</li> <li>OFF : Decode as character code.</li> </ul>
and OFF.	

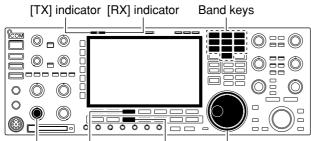
RTTY Decode New Line Code	CR,LF,CR+LF
Selects the new line code of the internal RTTY de- coder. CR: Carriage Return, LF: Line Feed	<ul> <li>CR,LF,CR;LF : Makes new line with any codes.</li> <li>CR+LF : Makes new line with CR+LF code only.</li> </ul>

RTTY Diddle	BLANK	
Selects the diddle condition.	• BLANK	: Transmits blank code during no code transmission.
	• LTRS	: Transmits letter code during no code transmission.
	• OFF	: Turns the diddle function OFF.

### RTTY decode set mode (continued)

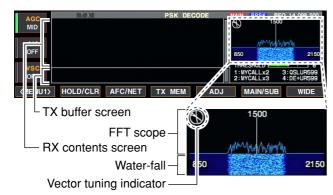
RTTY TX USOS	ON
Explicitly inserts the FIGS character even thought it is not required by the receiving station.	• ON : Inserts FIGS.     • OFF : Does not insert FIGS.
not required by the receiving station.	• OFF . Does not insert FIGS.
RTTY Time Stamp	ON
Turn the time stamp (date, transmission or reception	• ON : Displays the time stamp.
time) indication ON and OFF.	• OFF : No time stamp indication.
RTTY Auto CR+LF by TX	ON
Selects the automatic new line code (CR+LF) trans-	ON : Transmits CR+LF code once.
mission capability.	• OFF : Transmits no CR+LF code.
[	
RTTY Time Stamp (Time)	Local
Selects the clock indication for time stamp usage.	<ul> <li>Local : Selects the time that set in "Time (Now)."</li> <li>UTC* : Selects the time that set in "CLOCK2."</li> </ul>
<b>NOTE:</b> The time won't be displayed when "OFF" is selected in "RTTY Time Stamp" as above.	*The name of choice may differ according to
selected in titt i time stamp as above.	"CLOCK2 Name" setting (p, 11-2). "UTC" is the default name of CLOCK2.
RTTY Time Stamp (Frequency)	OFF
Selects the operating frequency indication for time	• ON : Displays the operating frequency.
stamp usage.	• OFF : No operating frequency display.
<b>NOTE:</b> The frequency wen't be displayed when "OFE"	
<b>NOTE:</b> The frequency won't be displayed when "OFF" is selected in "RTTY Time Stamp" as above.	
is selected in "RTTY Time Stamp" as above.	
is selected in "RTTY Time Stamp" as above.           RTTY Font Color (Receive)	
is selected in "RTTY Time Stamp" as above.           RTTY Font Color (Receive)           Set the text color for received characters.	
is selected in "RTTY Time Stamp" as above.           RTTY Font Color (Receive)	<ul> <li>Push [F-3•◀ ►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> </ul>
is selected in "RTTY Time Stamp" as above.           RTTY Font Color (Receive)           Set the text color for received characters.           • The color is set in RGB format.	<ul> <li>Push [F-3・◀ ▶] to select R (Red), G (Green) and B (Blue),</li> </ul>
is selected in "RTTY Time Stamp" as above.           RTTY Font Color (Receive)           Set the text color for received characters.           • The color is set in RGB format.	<ul> <li>Push [F-3・◀ ▶] to select R (Red), G (Green) and B (Blue),</li> </ul>
<ul> <li>is selected in "RTTY Time Stamp" as above.</li> <li>RTTY Font Color (Receive)</li> <li>Set the text color for received characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li>RTTY Font Color (Transmit)</li> <li>Set the text color for transmitted characters.</li> </ul>	<ul> <li>Push [F-3・◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>255 ■ 106 ■ 106</li> </ul>
is selected in "RTTY Time Stamp" as above.           RTTY Font Color (Receive)           Set the text color for received characters.           • The color is set in RGB format.           • The set color is indicated in the box beside the RGB scale.           RTTY Font Color (Transmit)	<ul> <li>Push [F-3・◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> </ul>
<ul> <li>is selected in "RTTY Time Stamp" as above.</li> <li>RTTY Font Color (Receive)</li> <li>Set the text color for received characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li>RTTY Font Color (Transmit)</li> <li>Set the text color for transmitted characters.</li> <li>The color is set in RGB format.</li> </ul>	<ul> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>255 106 106</li> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue),</li> </ul>
<ul> <li>is selected in "RTTY Time Stamp" as above.</li> <li>RTTY Font Color (Receive)</li> <li>Set the text color for received characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li>RTTY Font Color (Transmit)</li> <li>Set the text color for transmitted characters.</li> <li>The color is set in RGB format.</li> </ul>	<ul> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>255 106 106</li> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue),</li> </ul>
<ul> <li>is selected in "RTTY Time Stamp" as above.</li> <li>RTTY Font Color (Receive)</li> <li>Set the text color for received characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li>RTTY Font Color (Transmit)</li> <li>Set the text color for transmitted characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li>RTTY Font Color (Time Stamp)</li> <li>Set the text color for time stamp indication.</li> </ul>	<ul> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>255 106 106</li> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>0 155 155 189</li> </ul>
<ul> <li>is selected in "RTTY Time Stamp" as above.</li> <li>RTTY Font Color (Receive)</li> <li>Set the text color for received characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li>RTTY Font Color (Transmit)</li> <li>Set the text color for transmitted characters.</li> <li>The color is set in RGB format.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li>RTTY Font Color (Transmitted characters.</li> <li>The set color is indicated in the box beside the RGB scale.</li> </ul>	<ul> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>255 106 106</li> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> </ul>
<ul> <li>is selected in "RTTY Time Stamp" as above.</li> <li><b>RTTY Font Color (Receive)</b></li> <li>Set the text color for received characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li><b>RTTY Font Color (Transmit)</b></li> <li>Set the text color for transmitted characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li><b>RTTY Font Color (Transmit)</b></li> <li>Set the text color for transmitted characters.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li><b>RTTY Font Color (Time Stamp)</b></li> <li>Set the text color for time stamp indication.</li> <li>The color is set in RGB format.</li> </ul>	<ul> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>255 106 106</li> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>0 155 189</li> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue),</li> </ul>
<ul> <li>is selected in "RTTY Time Stamp" as above.</li> <li><b>RTTY Font Color (Receive)</b></li> <li>Set the text color for received characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li><b>RTTY Font Color (Transmit)</b></li> <li>Set the text color for transmitted characters.</li> <li>The color is set in RGB format.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li><b>RTTY Font Color (Transmit)</b></li> <li>Set the text color for transmitted characters.</li> <li>The set color is indicated in the box beside the RGB scale.</li> <li><b>RTTY Font Color (Time Stamp)</b></li> <li>Set the text color for time stamp indication.</li> <li>The color is set in RGB format.</li> </ul>	<ul> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>255 106 106</li> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>0 155 189</li> <li>Push [F-3·◀►] to select R (Red), G (Green) and B (Blue),</li> </ul>
is selected in "RTTY Time Stamp" as above. RTTY Font Color (Receive) Set the text color for received characters. • The color is set in RGB format. • The set color is indicated in the box beside the RGB scale. RTTY Font Color (Transmit) Set the text color for transmitted characters. • The color is set in RGB format. • The set color is indicated in the box beside the RGB scale. RTTY Font Color (Time Stamp) Set the text color for time stamp indication. • The color is set in RGB format. • The set color is indicated in the box beside the RGB scale. RTTY Font Color (Time Stamp) Set the text color for time stamp indication. • The set color is indicated in the box beside the RGB scale. RTTY Font Color (TX Buffer) Set the text color in the TX buffer screen.	<ul> <li>Push [F-3·▲ ▶] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>Push [F-3·▲ ▶] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>0</li> <li>155</li> <li>189</li> <li>Push [F-3·▲ ▶] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> </ul>
is selected in "RTTY Time Stamp" as above. <b>RTTY Font Color (Receive)</b> Set the text color for received characters. • The color is set in RGB format. • The set color is indicated in the box beside the RGB scale. <b>RTTY Font Color (Transmit)</b> Set the text color for transmitted characters. • The color is set in RGB format. • The set color is indicated in the box beside the RGB scale. <b>RTTY Font Color (Time Stamp)</b> Set the text color for time stamp indication. • The color is set in RGB format. • The set color is indicated in the box beside the RGB scale. <b>RTTY Font Color (TX Buffer)</b>	<ul> <li>Push [F-3•◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>255 106 106 106</li> <li>Push [F-3•◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> <li>0 155 189</li> <li>Push [F-3•◀►] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.</li> </ul>

# Operating PSK



[AF] [F-3•DECODE] [RTTY/PSK] Main dial





• Vector tuning indicator indication example

Tuned BPSK signal Tuned QPSK signal



BPSK/QPSK idle signal

gnal Unmodulated signal

A high-quality DSP-based PSK31 encoder/decoder is built-in to the IC-7800. When connecting a PC keyboard (p. 2-6), PSK31 operation can be performed without PSK software installed on your PC.

If desired, you can also use your PSK software; consult the manual that comes with the software.

- ① Push a band key to select the desired band.
- 2 Push [RTTY/PSK] to select PSK.
  - After PSK mode is selected, push [RTTY/PSK] for 1 sec. to toggle between PSK and PSK-R modes.
    "PSK" or "PSK-R" appears.
- ③ Push [F-3•DECODE] to displays the decoder screen.
   The IC-7800 has a built-in PSK31 decoder.
- ④ Tune the desired signal with the main dial.
  - The signal is properly tuned when the radiated lines in the vector tuning indicator narrow, as show in the example below.
  - The radiated lines in the vector tuning indicator may be displayed sporadically.
  - When a PSK signal is received, the water-fall display is activated.
  - The water-fall display shows the signal condition within the passband and a vertical line appears when a PSK signal is received.
- ⑤ Press [F12] of the connected keyboard to transmit.
   [TX] indicator lights red.
- (6) Type from the connected keyboard to enter the message that you want to transmit.
  - The typewritten contents are indicated in the TX buffer screen and transmitted immediately.
  - The text color will be changed when transmitted.
  - Press one of [F1]–[F8] to transmit the TX memory contents.
- O Press [F12] of the keyboard to return to receive.

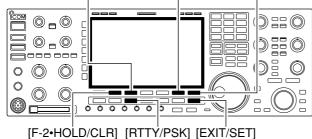
#### ✓ For your convenience

The transmission contents can be typed before being transmitted.

- ① Perform the steps ① to ④ above.
- ② Type from the connected keyboard to enter the message that you want to transmit.
  - The message is shown in the TX buffer screen.
- ③ Press [F12] of the connected keyboard to transmit the message.
  - The color of displayed text, in the TX buffer screen, will be changed when transmitted.
  - To cancel the transmission, press [F12] twice.
- ④ Press [F12] of the keyboard to return to receive.

#### Functions for the PSK decoder indication

[F-3•AFC/NET] [F-6•MAIN/SUB] [F-7•WIDE]



#### AFC/NET indications



"AFC" and "NET" indicators

(MENU1) HOLD/CLR AFC/NET TX MEM ADJ

Offset frequency

MAIN/SUB

#### Setting the decoder threshold level

AGC MID	HOLD TX ***** PSK Encode/Decode Mon PSK31 BPSK/QPSK	itor жжж	DECODE			BFO 14.098.500
1/4 OFF	Keyboard TX or Memory TX Max.70 Characters x 8ch T Data Saving to CF CARD su	X Memory b	uilt-in 	850	)	2150
VSC OFF	-				RESHOLD I	3:0SLUR599 4:DE+UR599
		A. 18	ADJ		DEF	WIDE

- 1) Push a band key to select the desired band.
- 2 Push [RTTY/PSK] to select PSK.
  - After PSK mode is selected, push [RTTY/PSK] for 1 sec. to toggle between PSK and PSK-R modes.
    "PSK" or "PSK-R" appears.
- ③ Push [F-3•DECODE] to display the decoder screen.
   When tuned into a PSK signal, decoded characters are displayed in the RX contents screen.
- ④ Push [F-2•HOLD/CLR] to freeze the current screen.
   "HOLD" appears while the function is in use.
  - Push [F-2•HOLD/CLR] again to release the function.
- ⑤ Push [F-2•HOLD/CLR] for 1 sec. to clear the displayed characters.
  - "HOLD" indicator disappears at the same time when the hold function is in use.
- ⑥ Push [F-3•AFC/NET] to turn the AFC function ON.

  "AFC" appears.
  - If a PSK signal is received within the AFC tuning range, the decoder automatically tunes into the signal and the offset frequency is displayed.
  - The AFC tuning range is set to ±15 Hz as the default. Optional ±8 Hz setting is available in PSK decode set mode. (p. 2)

**NOTE:** The AFC function may not tune the signal properly when a weak PSK signal is received.

⑦ Push [F-3•AFC/NET] again to turn the NET function ON.

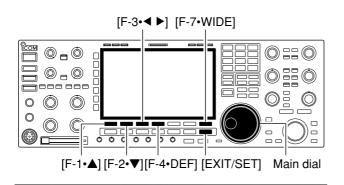
• "NET" appears additionally.

- ⑧ Push [F-3•AFC/NET] for 1 sec. to add the offset frequency to the displayed frequency.
- 9 Push [F-7•WIDE] to toggle the PSK decode screen size from normal and wide.
  - S/RF meter type during wide screen indication can be selected in display set mode. (pgs. 3-11, 12-11)
- 10 Push [F-6•MAIN/SUB] to toggle the MAIN and SUB band for decode operation.
  - Dualwatch function (p. 5-16) should be ON when SUB band is selected for decode operation.
- ① Push [EXIT/SET] to close the PSK decode screen.

Adjust the PSK decoder threshold level if some characters are displayed when no signal is received.

- ① Call up the PSK decoder screen as described above.
- ② Push [F-5•ADJ] to select the threshold level setting condition.
- ③ Rotate the main dial to adjust the PSK decoder threshold level.
  - Push [F-6•DEF] for 1 sec. to select the default setting.
- ④ Push [F-5•ADJ] to exit from the threshold level setting condition.

#### PSK decode set mode





#### PSK FFT Scope Averaging

Set the FFT scope waveform averaging function from 2 to 4 and OFF. (default: OFF)

# This set mode is used to set the decode USOS function, time stamp setting, etc.

#### • Setting contents

- ① During PSK mode operation, push [F-3•DECODE] to select PSK decode screen.
- ② Push [F-1•<MENU2>] to select PSK decode menu 2, then push [F-6•SET] to select PSK decode set mode.
  - Push [F-7•WIDE] to toggle the screen size from normal and wide.
- ③ Push [F-1•▲] or [F-2•▼] to select the desired set item.
- ④ Set the desired condition using the main dial.
  - Push [F-4•DEF] for 1 sec. to select a default condition or value.
  - Push [F-3.
     ▶] to select the set contents for some items.
- (5) Push [EXIT/SET] to exit from set mode.

#### **Recommendation!**

51

OFF

If you use the FFT scope waveform for tuning, using the default or smaller number setting is recommended.

#### PSK FFT Scope Waveform Color

Set the color for the FFT scope waveform.

- The color is set in RGB format.
- The set color is indicated in the box beside the RGB scale.

• Push [F-3•◀ ▶] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.

153

255

#### PSK AFC Range

Select the AFC (Automatic Frequency Control) function operating range from  $\pm 15$  Hz (default) and  $\pm 8$  Hz.

#### ±15Hz

**NOTE:** The AFC function may not tune the signal properly when a weak PSK signal is received.

PSK Time Stamp	ON
Turn the time stamp (date, transmission or reception time) display ON and OFF.	<ul><li>ON : Displays the time stamp.</li><li>OFF : No time stamp display.</li></ul>

PSK Time Stamp (Time)	Local
Selects the clock display for time stamp usage. <b>NOTE:</b> The time won't be displayed when "OFF" is selected in "PSK Time Stamp" as above.	<ul> <li>Local : Selects the time that set in "Time (Now)."</li> <li>UTC* : Selects the time that set in "CLOCK2." *The name of choice may differ according to "CLOCK2 Name" setting (p, 11-2). "UTC" is the default name of CLOCK2.</li></ul>

#### PSK decode set mode (continued)

PSK Time Stamp (Frequency)	OFF
Selects the operating frequency display for time stamp usage.	<ul> <li>ON : Displays the operating frequency.</li> <li>OFF : No operating frequency display.</li> </ul>
NOTE: The frequency won't be displayed when "OFF" is selected in "PSK Time Stamp" as below left.	
PSK Font Color (Receive)	
<ul><li>Set the text color for received characters.</li><li>The color is set in RGB format.</li><li>The set color is indicated in the box beside the RGB scale.</li></ul>	<ul> <li>Push [F-3・◀►] to select R (Red), G (Green) and B (Blue) and then rotate the main dial to set the ratio from 0 to 255</li> </ul>
PSK Font Color (Transmit)	<b>— 255 —</b> 106 <b>—</b> 106
<ul><li>Set the text color for transmitted characters.</li><li>The color is set in RGB format.</li><li>The set color is indicated in the box beside the RGB scale.</li></ul>	<ul> <li>Push [F-3・◀►] to select R (Red), G (Green) and B (Blue) and then rotate the main dial to set the ratio from 0 to 255</li> </ul>
PSK Font Color (Time Stamp)	
<ul><li>Set the text color for time stamp indication.</li><li>The color is set in RGB format.</li><li>The set color is indicated in the box beside the RGB scale.</li></ul>	<ul> <li>Push [F-3・◀ ►] to select R (Red), G (Green) and B (Blue) and then rotate the main dial to set the ratio from 0 to 255</li> </ul>
PSK Font Color (TX Buffer)	255 <u></u> 255 <u></u> 255
Set the text color in the TX buffer screen.	

- The color is set in RGB format.
- The set color is indicated in the box beside the RGB scale.
- Push [F-3•◀ ▶] to select R (Red), G (Green) and B (Blue), and then rotate the main dial to set the ratio from 0 to 255.

#### ♦ Screen arrangement

ANT       BV 24K       SET       0       AGC-MID       8 28       BW 24K       SET       0       AGC-MID         MIT       PAMP1       AGC-MID       B 28       BW 24K       SET       0       AGC-MID         WETER       PAMP1       AGC-MID       B 28       BW 24K       SET       0       AGC-MID         PAMP1       VFO       USB       FIL2       VFO       USB       FIL2         ATT       0       1       1       1       1       0	• Display set mode (p. 12-11) AGC UDSPLAY SET Display Type A Display Type A Display Font Italic (1) Text Font VSC OFF WIDE Meter Response MID Meter Type (Wormal Screen) Bar MID Meter Type (Wide Screen) Bar MID Meter Type (Wide Screen) Bar MID MIDE MIDE
• Set mode menu screen (p. 12-2) SET MODE MDD VSC VSC VSC VSC VSC VSC VSC VSC	• Time set mode (p. 11-2)
Acc BSB TX Tone (Bass)     SSB TX Tone (Treble)     AM TX Tone (Treble)     AM TX Tone (Treble)     SSB TX TONE (Tre	
• ACC set mode (p. 12-6)	• CF card set menu (p. 12-22)

# Level set mode (continued)

#### FM RX Tone (Bass)

Sets the bass level of the receive audio tone in FM mode from -5 to +5. (default: 0)

#### FM RX Tone (Treble)

Sets the treble level of the receive audio tone in FM mode from -5 to +5. (default: 0)

#### SSB TBW (WIDE)

Sets the transmission passband width to wide setting by changing the lower and higher cut-off frequencies.

#### SSB TBW (MID)

Sets the transmission passband width to middle setting by changing the lower and higher cut-off frequencies.

#### SSB TBW (NAR)

Sets the transmission passband width to narrow setting by changing the lower and higher cut-off frequencies.

#### Speech Level

Sets the voice synthesizer audio output level from 0 to 100% in 1% steps. (default: 50%)

#### Side Tone Level

Sets the side tone output level from 0 to 100% in 1% steps. (default: 50%)

#### Side Tone Level Limit

Turns the side tone output level limiting capability from ON and OFF. (default: ON)

#### Beep Level

Sets the key-touch beep output level from 0 to 100% in 1% steps. (default: 50%)

#### Beep Level Limit

Turns the key-touch beep output level limiting capability from ON and OFF. (default: ON)

Lower freq. : 100 (default), 200, 300 and 500 Hz Higher freq.: 2500, 2700, 2800 and 2900 Hz (default)

0

0

Lower freq. : 100, 200, 300 (default) and 500 Hz Higher freq.: 2500, 2700 (default), 2800 and 2900 Hz

# Lower freq. : 100, 200, 300 and 500 Hz (default)

Higher freq.: 2500 (default), 2700, 2800 and 2900 Hz

50%

50%

ON

ON

50% ٦

100 - 2900

300 - 2700

500 - 2500

# Display set mode

#### LCD Unit Bright

Adjusts the LCD unit brightness from 0 (dark) to 100% (bright) range in 1% steps. (default: 50%)

#### Backlight (Switches)

Adjusts the switch indicators brightness from 1 (dark) to 100 (bright) range in 1 steps. (default: 80)

### Display Type

Selects the desired display type from A, B and C. (default: A)

#### **Display Font**

Selects the desired font for frequency readout from Italic (1), Italic (2), Italic (3), Italic (4), Round (1), Round (2), Round (3), Shadow (1), Shadow (2), Shadow (3), Qubic (1), Qubic (2), Qubic (3), Qubic (4), IC-780 (1), IC-780 (2), IC-780 (3) and IC-780 (4). (default: Italic (1))

#### Meter Response

Set meter needle response from SLOW, MID and FAST. (default: MID)

#### Text Font

Selects the desired font for the displays other than freguency readout from Normal and Slim. (default: Normal)

#### Meter Type (Normal Screen)

Selects the desired S/RF meter type during normal screen indication from Standard, Edgewise and Bar. (default: Standard)

#### Meter Type (Wide Screen)

Selects the desired S/RF meter type during wide screen or mini scope indication from Edgewise and Bar. (default: Edgewise)

#### Meter Peak Hold (Bar)

Turns the meter peak hold function ON and OFF. (default: ON) This function is used for the bar meter only.

# MID This setting is effective for the standard and edge-

wise meter type selections only.

50%

80

Edgewise

Normal

Italic (1)

Standard

ON

А

# Display set mode (continued)

Memory Name	ON
Sets the memory name indication, during memory mode operation, ON and OFF. (default: ON)	• ON : The programmed memory name is displayed above the frequency indication.
	OFF : No memory name is displayed even a mem- ory name is programmed.

ON

ON

60min

Bound

н

ON

from the "burn-in" effect.

The screen saver will acts when no operation is per-

formed for the selected time period to protect the LCD

The screen saver indication can be displayed for your

reference while pushing and holding [F-5•PREVIEW].

#### APF-Width Popup (APF OFF+ON)

Selects the pop-up display for the APF filter width from ON and OFF. (default: ON)

#### MN-Q Popup (MN OFF+ON)

Turns the pop-up indication capability when the notch filter width is changed from ON to OFF. (default: ON)

#### Screen Saver Function

Turns the screen saver function ON (15, 30 or 60 minutes) and OFF. (default: 60 min.)

#### Screen Saver Type

Selects the screen saver type from "Bound," "Rotation" and "Twist." (default: Bound)

# External Display OFF Select "ON" when the external display is connected. (default: OFF) • At least 800×600 pixel resolution is required for the display.

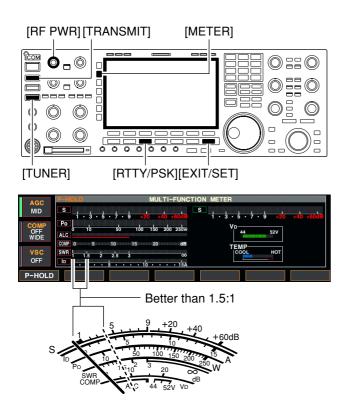
#### External Display Sync Pulse

Selects the suitable pulse level for the connected external display from H and L. (default: H)  $\,$ 

#### **Opening Message**

Turns the opening message screen indication capability ON and OFF. (default: ON)

# SWR reading



# Screen type and font selections

• Screen image example— type C



The SWR meter indicates the SWR over the transmission line in all modes.

- 1) Push [TUNER] to turn the antenna tuner OFF.
- ② Push [METER] for 1 sec. to display multi-function meter.
- ③ Push [RTTY/PSK] once or twice to select RTTY mode.
- ④ Push [TRANSMIT].
- (5) Rotate [RF PWR] clockwise past the 12 o'clock position for more than 30 W output power.
- 6 Read the SWR on the SWR meter gage.
- Push [EXIT/SET] to close multi-function meter.

The built-in antenna tuner matches the transmitter to the antenna when the SWR is lower than 3 : 1.

3 types of screen images and 18 types of frequency readout indication fonts are available in the IC-7800.

- ① Push [EXIT/SET] several times to close multi-function screen, if necessary.
- 2 Push [F-7•SET] to select set mode menu screen.
- ③ Push [F-3•DISP] to enter display set mode.
- ④ Push [F-1•▲] or [F-2•▼] to select "Display Type" item when selecting the screen image, select "Display Font" when selecting the frequency readout indication font.
- ⑤ Rotate the main dial to select the desired screen image or font.
  - Screen image is selectable from A, B and C.
  - Italic (1)/(2)/(3)/(4), Round (1)/(2)/(3), Shadow (1)/(2)/(3), Qubic (1)/(2)/(3)/(4) and IC-780 (1)/(2)/(3)/(4) are available for the frequency readout font.
- ⑥ Push [EXIT/SET] twice to exit from display set mode.

# Command table

on u quencies uency e ncy	
quencies Jency e	
uency e	
uency e	
e	
ncy	
-	
sub bands	
ub bands	
OFF	
NC	
ə nel	
ner	
Memory to VFO	
y scan start	
tart	
an start	
start	
\1=±5 kHz; ) kHz;	
)0 kHz;	
I MHz)	
annel	
el (1=★1; no data com-	
e previously	
s selected)	
elect memory	
2=★2; 3=★3) F	
1	
n OFF	
n ON	
tuning step	
j step step	
step	
step	
, step	
<b>- -</b>	
ng step I step	

Command	Sub command	Description		
11	Sub command	Select/read attenuator (0=OFF;		
	_	1=3 dB; 2=6 dB; 3=9 dB; 4=12 dB; 5=15 dB; 6=18 dB; 7=21 dB)		
12	00 + RX ANT	Select/read ANT1 selection (00=RX ANT OFF; 01=RX ANT ON)		
	01 + RX ANT	Select/read ANT2 selection (00=RX ANT OFF; 01=RX ANT ON)		
	02 + RX ANT	Select/read ANT3 selection (00=RX ANT OFF; 01=RX ANT ON)		
	03 + RX ANT	Select/read ANT4 selection (00=RX ANT OFF; 01=RX ANT ON)		
13	00	Announce with voice synthesizer		
	01 02	(00=all data; 01=frequency and S-meter level; 02=receive mode)		
14	01 + Level data	[AF] level setting (0=max. CCW to		
	02 + Level data	255=max. CW) [RF] level setting (0=max. CCW to		
	03 + Level data	255=11 o'clock) [SQL] level setting (0=11 o'clock to		
		255=max. CW)		
	05 + Level data	[APF] level setting (0=Pitch–550 Hz, 128=Pitch,		
		255=Pitch+550 Hz; 10 Hz steps)		
	06 + Level data	[NR] level setting (0=min. to 255=max.)		
	07 + Level data	Inside [TWIN PBT] setting or IF shift setting (0=max. CCW, 128=center, 255=max. CW)		
	08 + Level data	Outside [TWIN PBT] setting (0=max. CCW, 128=center,		
	09 + Level data	255=max. CW) [CW PITCH] setting (0=300 Hz, 128=600 Hz, 255=900 Hz; 5 Hz		
	0A + Level data	steps) [RF POWER] setting (0=max. CCW to 255=max. CW)		
	0B + Level data	[MIC] setting (0=max. CCW to 255=max. CW)		
	0C + Level data	[KEY SPEED] setting (0=max. CCW to 255=max. CW)		
	0D + Level data	[NOTCH] setting (0=low freq. to 255=high freq.)		
	0E + Level data	[COMP] setting (0=max. CCW to 255=max. CW)		
	0F + Level data	[DELAY] setting (0=max. CCW to 255=max. CW)		
	11 + Level data	[AGC] control setting (0=max. CCW to 255=max. CW) [NB] control setting (0=max. CCW		
	13 + Level data	to 255=max. CW) [DIGI-SEL] setting (0=max. CCW		
	14 + Level data	to 255=max. CW) [DRIVE] setting (0=max. CCW to		
	15 + Level data	255=max. CW) [MONI GAIN] setting (0=max.		
	16 + Level data	CCW to 255=max. CW) [VOX GAIN] setting (0=max.		
	17 + Level data	CCW to 255=max. CW) [ANTI VOX] setting (0=max. CCW to 255=max. CW)		
	18 + Level data	[CONTRAST] setting (0=max. CCW to 255=max. CW)		
	19 + Level data	[BRIGHT] setting (0=max. CCW to 255=max. CW)		

### Command table (continued)

Command	Sub command	Description	Command	Sub command	Description
1A	050134	Send/read voice memory short	1A	050164	Send/read scan speed
		play time (3=3 sec. to 10=10 sec.)			(0=Low, 1=High)
	050135	Send/read voice memory normal		050165	Send/read scan resume
		record time			(0=OFF, 1=ON)
	050400	(5= 5 sec. to 15=15 sec.)		050166	Send/read antenna selection for
	050136	Send/read contest number style			0.03 to 1.60 MHz band
		(0=Normal, 1=190→ANO,		050107	(see p. 14-10 for details)
		2=190→ANT, 3=90→NO, 4=90→NT)		050167	Send/read antenna selection fo 1.60 to 2.00 MHz band
	050137	Send/read count up trigger chan-			(see p. 14-10 for details)
	030137	nel (1=M1, 2=M2, 3=M3, 4=M4)		050168	Send/read antenna selection fo
	050138	Send/read present number		000100	2.00 to 6.00 MHz band
	000100	(1–9999)			(see p. 14-10 for details)
	050139	Send/read CW keyer repeat time		050169	Send/read antenna selection fo
		(1=1 sec. to 60=60 sec.)			6.00 to 8.00 MHz band
	050140	Send/read CW keyer dot/dash			(see p. 14-10 for details)
		ratio (28=1:1:2.8 to 45=1:1:4.5)		050170	Send/read antenna selection fo
	050141	Send/read rise time (0=2 msec.,			8.00 to 11.00 MHz band
		1=4 msec., 2=6 msec.,			(see p. 14-10 for details)
		3=8 msec.)		050171	Send/read antenna selection for
	050142	Send/read paddle polarity			11.00 to 15.00 MHz band
		(0=Normal, 1=Reverse)			(see p. 14-10 for details)
	050143	Send/read keyer type (0=Straight,		050172	Send/read antenna selection for
		1=Bug-key, 2=ELEC-Key)			15.00 to 20.00 MHz band
	050144	Send/read mic. up/down keyer set			(see p. 14-10 for details)
		(0=OFF, 1=ON)		050173	Send/read antenna selection for
	050145	Send/read RTTY decode USOS			20.00 to 22.00 MHz band
		(0=OFF, 1=ON)			(see p. 14-10 for details)
	050146	Send/read RTTY decode new line		050174	Send/read antenna selection for
		code (0=CR,LF,CR+LF,			22.00 to 26.00 MHz band
05		1=CR+LF)			(see p. 14-10 for details)
	050147	Send/read RTTY diddle (0=OFF,		050175	Send/read antenna selection fo
	050440	1=Blank, 2=Letter)			26.00 to 30.00 MHz band
	050148	Send/read RTTY TX USOS		050170	(see p. 14-10 for details)
	050149	(0=OFF, 1=ON) Send/read RTTY auto CR+LF by		050176	Send/read antenna selection fo
	030149	TX (0=OFF, 1=ON)			30.00 to 45.00 MHz band (see p. 14-10 for details)
	050150	Send/read RTTY time stamp set		050177	Send/read antenna selection for
	000100	(0=OFF, 1=ON)		000177	45.00 to 60.00 MHz band
	050151	Send/read clock selection for time			(see p. 14-10 for details)
	000101	stamp (0=Local time, 1=Clock 2)		050178	Send/read antenna temporary
	050152	Send/read frequency stamp			memory set (0=OFF, 1=ON)
		(0=OFF, 1=ON)		050179	Send/read antenna selection
	050153	Send/read received text font color			(0=OFF, 1=Manual, 2=Auto)
		(see p. 14-10 for details)		050180	Send/read usage for ANT2
	050154	Send/read transmitted text font			(0=OFF, 1=TX/RX)
		color (see p. 14-10 for details)		050181	Send/read usage for ANT3
	050155	Send/read time stamp text font			(0=OFF, 1=TX/RX)
		color (see p. 14-10 for details)		050182	Send/read usage for ANT4
050	050156	Send/read text font color in TX			(0=OFF, 1=TX/RX, 2= RX)
		buffer (see p. 14-10 for details)		050183	Send/read VOX delay (0=0.0 s
	050157	Send/read PSK time stamp set			to 20=2.0 sec.)
		(0=OFF, 1=ON)		050184	Send/read VOX voice delay
	050158	Send/read clock selection for time			(0=OFF, 1=Short, 2=Long)
		stamp (0=Local time, 1=Clock 2)		050185	Send/read NB depth (0=1 to 9=
	050159	Send/read frequency stamp		050186	Send/read NB width
	050400	(0=OFF, 1=ON)		050407	(0=0 to 255=255)
	050160	Send/read received text font color		050187	Send/read screen saver set
	050404	(see p. 14-10 for details)			(0=OFF, 1=15 min., 2=30 min.,
	050161	Send/read transmitted text font		050400	3=60 min.)
	050400	color (see p. 14-10 for details)		050188	Set/read screen saver type
	050162	Send/read time stamp text font		050400	(0=Bound, 1=Rotation, 2=Twist
	050100	color (see p. 14-10 for details)		050189	Set/read meter response settin
	050163	Send/read text font color in TX			(0=SLOW, 1=MID, 2=FAST)
		buffer (see p. 14-10 for details)			

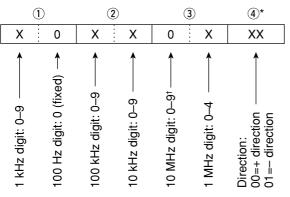
# 14 CONTROL COMMAND

#### ♦ Command table (continued)

Command	Sub command	Description
1A	050190	Set/read FFT scope averaging set for RTTY decoder (0=OFF, 1=2, 2=3, 3=4)
	050191	Set/read FFT scope waveform color set for RTTY decoder (see p. 14-10 for details)
	050192	Set/read FFT scope averaging set for PSK decoder (0=OFF, 1=2, 2=3, 3=4)
	050193	Set/read FFT scope waveform color set for PSK decoder (see p. 14-10 for details)
	050194	Set/read PSK AFC function tuning range $(0=\pm8$ Hz, $1=\pm15$ Hz)
	06	Send/read DATA mode with filter set (see p. 14-10 for detail)
	07	Send/read SSB transmit band- width (0=WIDE, 1=MID, 2=NAR)
	08	Send/read DSP filter shape (0= sharp, 1= soft)
	09	Send/read roofing filter set (0=6 kHz, 1=15 kHz)
	0A	Send/read manual notch width (0=Wide, 1=Mid., 2=Nar.)
	10	Send/read lock function set (0=OFF, 1=ON)
1B	00	Set/read repeater tone frequency (see p. 14-10 for details)
	01	Set/read TSQL tone frequency (see p. 14-10 for details)
1C	00	Set/read the transceiver's condi- tion (0=Rx; 1=Tx)
	01	Set/read antenna tuner condition (0=OFF, 1=ON, 2=Start tuning or while tuning)

#### ♦ Offset frequency setting

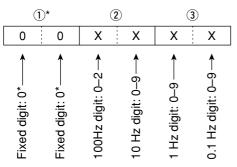
The following data sequence is used when sending or reading the offset frequency setting.



\*No need to enter for transverter offset frequency setting. †Transverter offset only; Fix to '0' for split offset setting.

# Repeater tone/tone squelch frequency setting

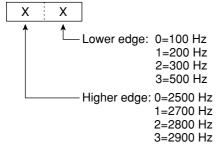
The following data sequence is used when sending or reading the tone frequency setting.



\*Not necessary when setting a frequency.

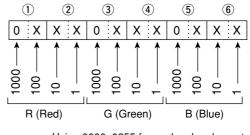
#### SSB transmission passband width setting

The following data sequence is used when sending or reading the SSB transmission passband width setting.



#### ♦ Color setting

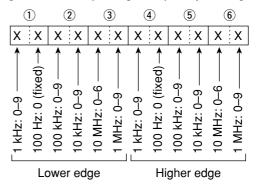
The following data sequence is used when sending or reading the color setting.



Using 0000–0255 for each color element.

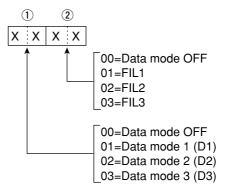
#### ♦ Bandscope edge frequency setting

The following data sequence is used when sending or reading the bandscope edge frequency setting.



#### Data mode with filter width setting

The following data sequence is used when sending or reading the data mode with filter width setting.



#### Antenna memory setting

The following codes are used when sending or reading the antenna memory setting. 0=ANT1, 1=ANT2, 2=ANT3, 3=ANT4, 4\*=TX: ANT1, RX: ANT4, 5\*=TX: ANT2, RX: ANT4, 6\*=TX: ANT3, RX: ANT4

\*RX should be selected for ANT4