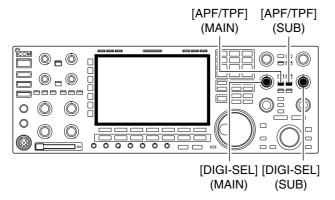
4 RECEIVE AND TRANSMIT

♦ APF (Audio Peak Filter) operation



The APF changes the audio frequency response by boosting a particular frequency to enhance a desired CW signal.

The peak frequency can be adjusted with [DIGI-SEL] control when "APF" is selected for "DIGI-SEL VR Operation" in miscellaneous (others) set mode (p. 12-18).

The ausio filter shape is also selectable from "SOFT" and "SHARP" in miscellaneous (others) set mode (p. 12-19).

- ① During CW mode, push [APF/TPF] to turn the audio peak filter ON and OFF.
 - "APF" appears in the display and [APF/TPF] indicator above this switch lights green.
- ② Push [APF/TPF] for 1 sec. several times to select the desired audio filter width.
 - WIDE, MID and NAR filters, or, 320, 160 and 80 Hz filters are available depending on APF type setting in miscellaneous (others) set mode.
- ③ If "APF" is selected for "DIGI-SEL VR Operation," rotate [DIGI-SEL] control to suit your preference.

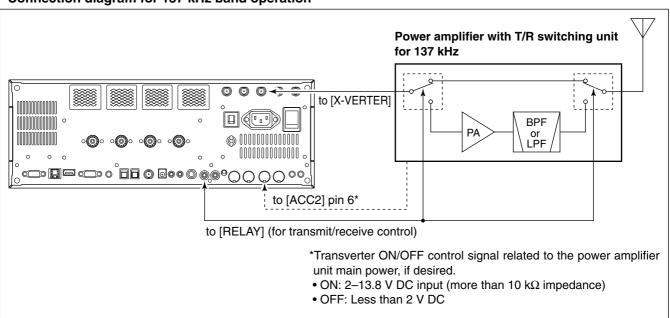
♦ About 137 kHz band operation (Europe, UK, Italy, Spain, France versions only)

137 kHz band, within the 135.7 kHz to 137.8 kHz range, operation in CW mode is optionally available with the IC-7800.

The RF signal from [X-VERTER] is used for the 137 kHz band operation, and an external amplifier unit is necessary.

See the connection diagram below for reference.

Connection diagram for 137 kHz band operation



■ Miscellaneous (Others) set mode (continued)

Selects the displayed frequency shift function from ON and OFF. (default: OFF) When this function is activated, the receiving signal can be kept to receive even when the operating mode is changed between SSB and CW. The frequency shifting value may differ according to the CW pitch setting.

CW Normal Side	LSB
Selects the side band used to receive CW in CW normal mode. (default: LSB)	

APF Type	SOFT
Set audio filter shape for APF from SOFT and SHARP. (default: SOFT)	 SOFT : Soft filter shape is used. The audio filter width is adjustable and related to the CW pitch setting.
	• SHARP: Sharp filter shape is used. The audio filter width is fixed.

	MIC AF Out	MAIN+SUB	
- 1	elects the desired band(s) for audio output from MIC] connector (pin 8) from MAIN+SUB and SUB.	• MAIN+SUB	: Outputs both main and sub bands audio.
(c	default: MAIN+SUB)	• SUB	: Outputs sub band audio only.

External Keypad (VOICE)	OFF
Sets the external keypad for voice memory transmission capability ON and OFF.	 ON : Pushing one of external keypad switches, transmits the desired voice memory contents
See page 2-6 for the equivalent circuit of an external keypad and connection.	during a phone mode operation. • OFF: External keypad does not function. (default)

External Keypad (KEYER)	OFF
Sets the external keypad for keyer memory transmission capability ON and OFF.	 ON : Pushing one of external keypad switches, transmits the desired keyer memory contents
See page 2-6 for the equivalent circuit of an external keypad and connection.	during CW mode operation. • OFF: External keypad does not function. (default)

14 CONTROL COMMAND

♦ Command table (continued)

Sub command
02
11 Read RF power meter 12 Read SWR meter 13 Read ALC meter 14 Read COMP meter 15 Read Vo meter 16 Read Vo meter 16 Preamp (0=OFF; 1=preamp 1; 2=preamp 2) 12 AGC selection (0=OFF; 1=Slow; 2=Mid; 3=Fast) 22 Noise blanker (0=OFF; 1=ON) 32 Audio peak filter (0=OFF; 1=WIDE/320 Hz; 2=MID/160 Hz; 3=NAR/80 Hz) 40 Noise reduction (0=OFF; 1=ON) 41 Auto notch (0=OFF; 1=ON) 42 Repeater tone (0=OFF; 1=ON) 43 Tone squelch (0=OFF; 1=ON) 44 Speech compressor (0=OFF; 1=ON) 45 Monitor (0=OFF; 1=ON) 46 VOX function (0=OFF; 1=ON) 47 Break-in (0=OFF; 1=ON) 48 Manual notch (0=OFF; 1=ON) 49 WSC (0=OFF; 1=ON) 40 Manual AGC (0=OFF; 1=ON) 41 Auto notch (0=OFF; 1=ON) 42 Repeater tone (0=OFF; 1=ON) 43 Tone squelch (0=OFF; 1=ON) 44 Speech compressor (0=OFF; 1=ON) 45 Monitor (0=OFF; 1=ON) 46 VOX function (0=OFF; 1=ON) 47 Break-in (0=OFF; 1=ON) 48 Manual notch (0=OFF; 1=ON) 49 Digl-SEL (0=OFF; 1=ON) 40 Manual AGC (0=OFF; 1=ON) 41 Digl-SEL (0=OFF; 1=ON) 42 Digl-SeL (0=OFF; 1=ON) 43 Digl-SeL (0=OFF; 1=ON) 44 Send/read memory contents (see p. 14-9 for details) 45 Send/read memory keyer contents (see p. 14-9 for details) 46 Send/read memory keyer contents (see p. 14-9 for details) 47 Send/read memory keyer contents (see p. 14-9 for details) 48 Send/read memory keyer contents (see p. 14-9 for details) 49 Send/read memory keyer contents (see p. 14-9 for details) 50 Send/read memory keyer contents (see p. 14-9 for details) 50 Send/read memory keyer contents (see p. 14-9 for details) 50 Send/read memory keyer contents (see p. 14-9 for details) 50 Send/read memory keyer contents (see p. 14-9 for details) 50 Send/read memory keyer contents (see p. 14-9 for details) 50 Send/read The selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 50 Send/read SSB TX Tone (Bass) level (0=-5 to 10=+5) 50 Sooo Send/read SSB RX Tone (Treble) level (0=-5 to 10=+5) 50 Sooo Send/read SSB RX Tone (Treble)
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13
14 Read COMP meter 16 Read lo meter 17 Read Vo meter 18 Read lo meter 18 Read lo meter 19 Preamp (0=OFF; 1=preamp 1; 2=preamp 2) 10 AGC selection (0=OFF; 1=Slow; 2=Mid; 3=Fast) 11 Audio peak filter 12 Audio peak filter 13 Audio peak filter 14 Auto notch (0=OFF; 1=ON) 15 Audio ned hez; 3=NAR/80 Hz) 16 Auto notch (0=OFF; 1=ON) 17 Auto notch (0=OFF; 1=ON) 18 Repeater tone (0=OFF; 1=ON) 19 Auto notch (0=OFF; 1=ON) 10 Auto notch (0=OFF; 1=ON) 11 Auto notch (0=OFF; 1=ON) 12 Repeater tone (0=OFF; 1=ON) 13 Freak-in (0=OFF; 1=ON) 14 Speech compressor 15 Autonotch (0=OFF; 1=ON) 16 Autonotch (0=OFF; 1=ON) 17 Break-in (0=OFF; 1=ON) 18 Manual notch (0=OFF; 1=ON) 19 Autonotch (0=OFF; 1=ON) 20 Autonotch (0=OFF; 1=ON) 21 Autonotch (0=OFF; 1=ON) 22 Autonotch (0=OFF; 1=ON) 23 Autonotch (0=OFF; 1=ON) 24 Break-in (0=OFF; 1=ON) 25 Autonotch (0=OFF; 1=ON) 26 Autonotch (0=OFF; 1=ON) 27 Autonotch (0=OFF; 1=ON) 28 Autonotch (0=OFF; 1=ON) 28 Autonotch (0=OFF; 1=ON) 29 Autonotch (0=OFF; 1=ON) 20 Autonotch (0=OFF; 1=ON
15 Read Vo meter Read In meter 16 Read In meter 16 Read In meter 16 Read In meter 17 Preamp (0=OFF; 1=preamp 1; 2=preamp 2) 18 AGC selection (0=OFF; 1=Slow; 2=Mid; 3=Fast) 19 Audio peak filter (0=OFF; 1=ON) 10 Audio peak filter (0=OFF; 1=ON) 11 Auto notch (0=OFF; 1=ON) 12 Auto notch (0=OFF; 1=ON) 13 Tone squelch (0=OFF; 1=ON) 14 Speech compressor (0=OFF; 1=ON) 15 Monitor (0=OFF; 1=ON) 16 VOX function (0=OFF; 1=ON) 17 Break-in (0=OFF; 1=ON) 18 Manual notch (0=OFF; 1=ON) 19 Manual AGC (0=OFF; 1=ON) 19 Manual AGC (0=OFF; 1=ON) 19 Read the transceiver ID 10 Read the transceiver ID 11 ON Send/read memory contents (see p. 14-9 for details) 19 Send/read memory keyer contents (see p. 14-9 for details) 10 Send/read memory keyer contents (see p. 14-9 for details) 10 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 49=10 kHz) 10 Send/read the selected AGC time constant (0=OFF, 1=O.1/0.3 sec. to 13=6.0/8.0 sec.) 10 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 10 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 10 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 11 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 12 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 13 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 14 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 15 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 15 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 15 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 16 Send/read SSB RX Tone (Treble)
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16
2=preamp 2) AGC selection (0=OFF; 1=Slow; 2=Mid; 3=Fast) Noise blanker (0=OFF; 1=ON) Audio peak filter (0=OFF; 1=WIDE/320 Hz; 2=MID/160 Hz; 3=NAR/80 Hz) Auto notch (0=OFF; 1=ON) Auto peaker tone (0=OFF; 1=ON) Auto notch (0=OFF; 1=ON) Auto notch (0=OFF; 1=ON) Auto peaker compressor (0=OFF; 1=O
2=preamp 2) AGC selection (0=OFF; 1=Slow; 2=Mid; 3=Fast) Noise blanker (0=OFF; 1=ON) Audio peak filter (0=OFF; 1=WIDE/320 Hz; 2=MID/160 Hz; 3=NAR/80 Hz) Auto notch (0=OFF; 1=ON) Auto peaker tone (0=OFF; 1=ON) Auto notch (0=OFF; 1=ON) Auto notch (0=OFF; 1=ON) Auto peaker compressor (0=OFF; 1=O
12
2=Mid; 3=Fast) Noise blanker (0=OFF; 1=ON) Audio peak filter (0=OFF; 1=WIDE/320 Hz; 2=MID/160 Hz; 3=NAR/80 Hz) 40 Noise reduction (0=OFF; 1=ON) 41 Auto notch (0=OFF; 1=ON) 42 Repeater tone (0=OFF; 1=ON) 43 Tone squelch (0=OFF; 1=ON) 44 Speech compressor (0=OFF; 1=ON) 45 Monitor (0=OFF; 1=ON) 46 VOX function (0=OFF; 1=ON) 47 Break-in (0=OFF; 1=Semi break-in; 2=full break-in) 48 Manual notch (0=OFF; 1=ON) 40 WSC (0=OFF; 1=ON) 41 Manual AGC (0=OFF; 1=ON) 42 DIGI-SEL (0=OFF; 1=ON) 43 Twin peak filter (0=OFF; 1=ON) 44 DIGI-SEL (0=OFF; 1=ON) 45 DIGI-SEL (0=OFF; 1=ON) 46 DIGI-SEL (0=OFF; 1=ON) 47 Twin peak filter (0=OFF; 1=ON) 48 DIGI-SEL (0=OFF; 1=ON) 49 DIGI-SEL (0=OFF; 1=ON) 50 Dial lock (0=
22
Audio peak filter
(0=OFF; 1=WIDE/320 Hz; 2=MID/160 Hz; 3=NAR/80 Hz) 40 Noise reduction (0=OFF; 1=ON) 41 Auto notch (0=OFF; 1=ON) 42 Repeater tone (0=OFF; 1=ON) 43 Tone squelch (0=OFF; 1=ON) 44 Speech compressor (0=OFF; 1=ON) 45 Monitor (0=OFF; 1=ON) 46 VOX function (0=OFF; 1=ON) 47 Break-in (0=OFF; 1=Semi break-in; 2=full break-in) 48 Manual notch (0=OFF; 1=ON) 40 Manual AGC (0=OFF; 1=ON) 41 Twin peak filter (0=OFF; 1=ON) 42 DIGI-SEL (0=OFF; 1=ON) 43 Dial lock (0=OFF; 1=ON) 44 Dial dock (0=OFF; 1=ON) 45 Dial lock (0=OFF; 1=ON) 46 Dial lock (0=OFF; 1=ON) 47 Twin peak filter (0=OFF; 1=ON) 48 Dial lock (0=OFF; 1=ON) 49 Dial lock (0=OFF; 1=ON) 50 Dial lock
2=MID/160 Hz; 3=NAR/80 Hz) 40 Noise reduction (0=OFF; 1=ON) 41 Auto notch (0=OFF; 1=ON) 42 Repeater tone (0=OFF; 1=ON) 43 Tone squelch (0=OFF; 1=ON) 44 Speech compressor (0=OFF; 1=ON) 45 Monitor (0=OFF; 1=ON) 46 VOX function (0=OFF; 1=ON) 47 Break-in (0=OFF; 1=semi break-in; 2=full break-in) 48 Manual notch (0=OFF; 1=ON) 40 VSC (0=OFF; 1=ON) 41 Manual AGC (0=OFF; 1=ON) 42 DIGI-SEL (0=OFF; 1=ON) 43 Twin peak filter (0=OFF; 1=ON) 44 DIGI-SEL (0=OFF; 1=ON) 45 Dial lock (0=OFF; 1=ON) 46 VSC (0=OFF; 1=ON) 47 Break-in (0=OFF; 1=ON) 48 Manual notch (0=OFF; 1=ON) 49 DIGI-SEL (0=OFF; 1=ON) 40 Send/read band stacking register contents (see p. 14-9 for details) 40 Send/read band stacking register contents (see p. 14-9 for details) 40 Send/read memory keyer contents (see p. 14-9 for details) 40 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 49=10 kHz) 40 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 50 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 50 Sond Send/read SSB RX Tone (Bass) level (0=-5 to 10=+5) 50 Sond/read SSB RX Tone (Bass) level (0=-5 to 10=+5) 50 Send/read SSB RX Tone (Bass) level (0=-5 to 10=+5) 50 Send/read SSB RX Tone (Treble)
40 Noise reduction (0=OFF; 1=ON) 41 Auto notch (0=OFF; 1=ON) 42 Repeater tone (0=OFF; 1=ON) 43 Tone squelch (0=OFF; 1=ON) 44 Speech compressor (0=OFF; 1=ON) 45 Monitor (0=OFF; 1=ON) 46 VOX function (0=OFF; 1=ON) 47 Break-in (0=OFF; 1=Semi break-in; 2=full break-in) 48 Manual notch (0=OFF; 1=ON) 40 VSC (0=OFF; 1=ON) 41 DIGI-SEL (0=OFF; 1=ON) 42 DIGI-SEL (0=OFF; 1=ON) 43 Twin peak filter (0=OFF; 1=ON) 44 DIGI-SEL (0=OFF; 1=ON) 45 DIGI-SEL (0=OFF; 1=ON) 46 DIGI-SEL (0=OFF; 1=ON) 47 Twin peak filter (0=OFF; 1=ON) 48 DIGI-SEL (0=OFF; 1=ON) 49 ON Read the transceiver ID 40 Send/read memory contents (see p. 14-9 for details) 50 Send/read memory keyer contents (see p. 14-9 for details) 50 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 49=10 kHz) 50 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 50001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 50002 Send/read SSB RX Tone (Bass) level (0=5 to 10=+5) 50003 Send/read SSB RX Tone (Bass) level (0=5 to 10=+5) 50004 Send/read SSB RX Tone (Treble)
41 Auto notch (0=OFF; 1=ON) 42 Repeater tone (0=OFF; 1=ON) 43 Tone squelch (0=OFF; 1=ON) 44 Speech compressor (0=OFF; 1=ON) 45 Monitor (0=OFF; 1=ON) 46 VOX function (0=OFF; 1=ON) 47 Break-in (0=OFF; 1=semi break-in; 2=full break-in) 48 Manual notch (0=OFF; 1=ON) 40 VSC (0=OFF; 1=ON) 41 Manual AGC (0=OFF; 1=ON) 42 DIGI-SEL (0=OFF; 1=ON) 43 Twin peak filter (0=OFF; 1=ON) 44 Dial lock (0=OFF; 1=ON) 45 Dial lock (0=OFF; 1=ON) 46 DIGI-SEL (0=OFF; 1=ON) 47 Twin peak filter (0=OFF; 1=ON) 48 DIGI-SEL (0=OFF; 1=ON) 49 DIGI-SEL (0=OFF; 1=ON) 50 Dial lock (0=OFF; 1=ON) 50 Send/read memory contents (see p. 14-9 for details) 50 Send/read band stacking register contents (see p. 14-9 for details) 50 Send/read he selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 40=3600 Hz; AM: 0=200 Hz to 49=10 kHz) 50 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 50 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 50 Send/read SSB RX Tone (Treble) level (0=-5 to 10=+5) 50 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 50 Send/read SSB RX Tone (Treble)
42
43
Speech compressor (0=OFF; 1=ON)
(0=OFF; 1=ON) Monitor (0=OFF; 1=ON) 46
Monitor (0=OFF; 1=ON)
VOX function (0=OFF; 1=ON)
Break-in (0=OFF; 1=semi break-in; 2=full break-in) 48
in; 2=full break-in) Manual notch (0=OFF; 1=ON) 4C
48 Manual notch (0=OFF; 1=ON) 4C VSC (0=OFF; 1=ON) 4D Manual AGC (0=OFF; 1=ON) 4E DIGI-SEL (0=OFF; 1=ON) 4F Twin peak filter (0=OFF; 1=ON) 50 Dial lock (0=OFF; 1=ON) 19 00 Read the transceiver ID 1A 00 Send/read memory contents (see p. 14-9 for details) 01 Send/read band stacking register contents (see p. 14-9 for details) 02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050002 Send/read SSB RX Tone (Bass) level (0=-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
4C VSC (0=OFF; 1=ON) 4D Manual AGC (0=OFF; 1=ON) 4E DIGI-SEL (0=OFF; 1=ON) 4F Twin peak filter (0=OFF; 1=ON) 50 Dial lock (0=OFF; 1=ON) 19 00 Read the transceiver ID 1A 00 Send/read memory contents (see p. 14-9 for details) 01 Send/read band stacking register contents (see p. 14-9 for details) 02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0=-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
4D Manual AGC (0=OFF; 1=ON) 4E DIGI-SEL (0=OFF; 1=ON) 4F Twin peak filter (0=OFF; 1=ON) 50 Dial lock (0=OFF; 1=ON) 19 00 Read the transceiver ID 1A 00 Send/read memory contents (see p. 14-9 for details) 01 Send/read band stacking register contents (see p. 14-9 for details) 02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0=-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
4E DIGI-SEL (0=OFF; 1=ON) 4F Twin peak filter (0=OFF; 1=ON) 50 Dial lock (0=OFF; 1=ON) 19 00 Read the transceiver ID 1A 00 Send/read memory contents (see p. 14-9 for details) 01 Send/read band stacking register contents (see p. 14-9 for details) 02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =–5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =–5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
4F Twin peak filter (0=OFF; 1=ON) 50 Dial lock (0=OFF; 1=ON) 19 00 Read the transceiver ID 1A 00 Send/read memory contents (see p. 14-9 for details) 01 Send/read band stacking register contents (see p. 14-9 for details) 02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =–5 to 10=+5) 050002 Send/read SSB RX Tone (Treble) level (0=–5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =–5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
Dial lock (0=OFF; 1=ON)
19 00 Read the transceiver ID 1A 00 Send/read memory contents (see p. 14-9 for details) 01 Send/read band stacking register contents (see p. 14-9 for details) 02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=0FF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =–5 to 10=+5) 050002 Send/read SSB RX Tone (Bass) level (0=–5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =–5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
1A 00 Send/read memory contents (see p. 14-9 for details) 01 Send/read band stacking register contents (see p. 14-9 for details) 02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050002 Send/read SSB RX Tone (Treble) level (0=-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
1A 00 Send/read memory contents (see p. 14-9 for details) 01 Send/read band stacking register contents (see p. 14-9 for details) 02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050002 Send/read SSB RX Tone (Treble) level (0=-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
p. 14-9 for details) Send/read band stacking register contents (see p. 14-9 for details) O2 Send/read memory keyer contents (see p. 14-9 for details) O3 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) O4 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) O50001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) O50002 Send/read SSB RX Tone (Treble) level (0=-5 to 10=+5) O50003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) O50004 Send/read SSB RX Tone (Treble)
O1 Send/read band stacking register contents (see p. 14-9 for details) O2 Send/read memory keyer contents (see p. 14-9 for details) O3 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) O4 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) O50001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) O50002 Send/read SSB RX Tone (Treble) level (0=-5 to 10=+5) O50003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) O50004 Send/read SSB RX Tone (Treble)
contents (see p. 14-9 for details) Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050002 Send/read SSB TX Tone (Treble) level (0=-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
02 Send/read memory keyer contents (see p. 14-9 for details) 03 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) 04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050002 Send/read SSB TX Tone (Treble) level (0=-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
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O3 Send/read the selected filter width (SSB, CW, PSK: 0=50 Hz to 40=3600 Hz; RTTY: 0=50 Hz to 31=2700 Hz; AM: 0=200 Hz to 49=10 kHz) O4 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) O50001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) O50002 Send/read SSB TX Tone (Treble) level (0=-5 to 10=+5) O50003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) O50004 Send/read SSB RX Tone (Treble)
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49=10 kHz) Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) Send/read SSB TX Tone (Treble) level (0=-5 to 10=+5) Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) Send/read SSB RX Tone (Treble)
04 Send/read the selected AGC time constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050002 Send/read SSB TX Tone (Treble) level (0=-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
constant (0=OFF, 1=0.1/0.3 sec. to 13=6.0/8.0 sec.) 050001
to 13=6.0/8.0 sec.) 050001
050001 Send/read SSB TX Tone (Bass) level (0 =-5 to 10=+5) 050002 Send/read SSB TX Tone (Treble) level (0=-5 to 10=+5) 050003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
level (0 =-5 to 10=+5) Send/read SSB TX Tone (Treble) level (0=-5 to 10=+5) O50003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) O50004 Send/read SSB RX Tone (Treble)
050002 Send/read SSB TX Tone (Treble) level (0=-5 to 10=+5) Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) Send/read SSB RX Tone (Treble) Send/read SSB RX Tone (Treble)
level (0=-5 to 10=+5) Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) O50004 Send/read SSB RX Tone (Treble)
050003 Send/read SSB RX Tone (Bass) level (0 =-5 to 10=+5) 050004 Send/read SSB RX Tone (Treble)
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050004 Send/read SSB RX Tone (Treble)
, ,
level (0=–5 to 10=+5)
1
050005 Send/read AM TX Tone (Bass)
level (0 =–5 to 10=+5)
050006 Send/read AM TX Tone (Treble)
level (0=-5 to 10=+5)
050007 Send/read AM RX Tone (Bass)
level (0 =-5 to 10=+5)
050008 Send/read AM RX Tone (Treble)
level (0=-5 to 10=+5)
050009 Send/read FM TX Tone (Bass)

Command	Sub command	Description
1A	050010	Send/read FM TX Tone (Treble) level (0=–5 to 10=+5)
	050011	Send/read FM RX Tone (Bass) level (0 =–5 to 10=+5)
	050012	Send/read FM RX Tone (Treble)
	050013	level (0=-5 to 10=+5) Send/read SSB TX bandwidth for
	050014	wide (see p. 14-10 for details) Send/read SSB TX bandwidth for
	050015	mid. (see p. 14-10 for details) Send/read SSB TX bandwidth for
	050016	narrow (see p. 14-10 for details) Send/read speech level (0=0% to 255=100%)
	050017	Send/read CW side tone gain
	050018	(0=min. to 255=max.) Send/read CW side tone gain limit
	050019	(0=OFF, 1=ON) Send/read beep gain (0=min. to
	050020	255=max.) Send/read beep gain limit (0=OFF,
	050021	1=ON) Send/read headphones output
	050022	ratio (0=0.60 to 255=1.40) Send/read headphone output
		selection (0=separated, 1=mixed)
	050023	Send/read AF/SQL signal output to ACC-A (0=Main; 1=Sub)
	050024	Send/read AF/SQL signal output to ACC-B (0=Main; 1=Sub)
	050025	Send/read AF output level to ACC-A (0=0% to 255=100%)
	050026	Send/read AF output level to ACC-B (0=0% to 255=100%)
	050027	Send/read S/P DIF output level (0=0% to 255=100%)
	050028	Send/read MOD output level to ACC-A (0=0% to 255=100%)
	050029	Send/read MOD output level to
	050030	ACC-B (0=0% to 255=100%) Send/read S/P DIF MOD output
	050031	level (0=0% to 255=100%) Send/read MOD input connector
		during DATA OFF (0=MIC; 1=ACC-A; 2=ACC-B;
		3=MIC/ACC-A; 4=MIC/ACC-B; 5=ACC-A/ACC-B; 6=MIC/ACC-
	050032	A/ACC-B; 7=S/P DIF) Send/read MOD input connector
	00002	during DATA1
		(0=MIC; 1=ACC-A; 2=ACC-B; 3=MIC/ACC-A; 4=MIC/ACC-B;
		5=ACC-A/ACC-B; 6=MIC/ACC- A/ACC-B; 7=S/P DIF)
	050033	Send/read MOD input connector during DATA2
		(0=MIC; 1=ACC-A; 2=ACC-B; 3=MIC/ACC-A; 4=MIC/ACC-B;
		5=ACC-A/ACC-B; 6=MIC/ACC-A/ACC-B; 7=S/P DIF)
	050034	Send/read MOD input connector
		during DATA3 (0=MIC; 1=ACC-A; 2=ACC-B;
		3=MIC/ACC-A; 4=MIC/ACC-B; 5=ACC-A/ACC-B; 6=MIC/ACC-
		A/ACC-B; 7=S/P DIF)

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=±8 Hz, 1=±15 Hz)
	050195	Set/read APF type (0=SOFT, 1=SHARP)
	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=3 kHz, 1=6 kHz, 2=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 condition (0=Rx; 1=Tx)
	01	Set/read antenna tuner condition (0=OFF, 1=ON, 2=Start tuning or while tuning)