

MENU MODE

The Menu system of the **FT-950** provides extensive customization capability, so you can set up your transceiver just the way you want to operate it. The Menu items are grouped by general utilization category, and are numbered from “**001 AGC** FST DLY” to “**118 TGEN EMRGNCY**”.

USING THE MENU

1. Press the **[MENU]** button momentarily, to engage the Menu mode.

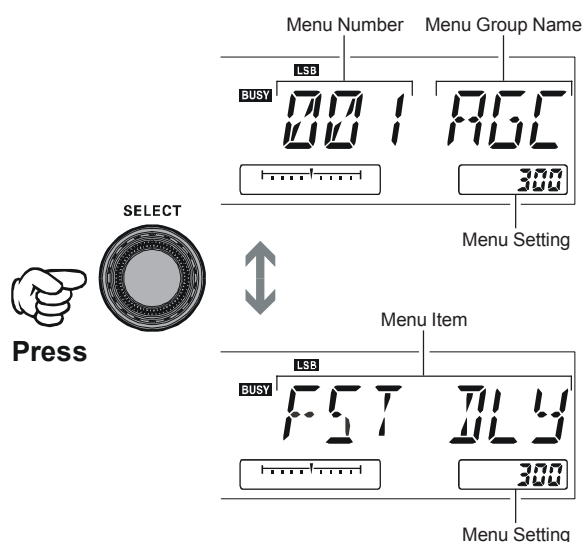
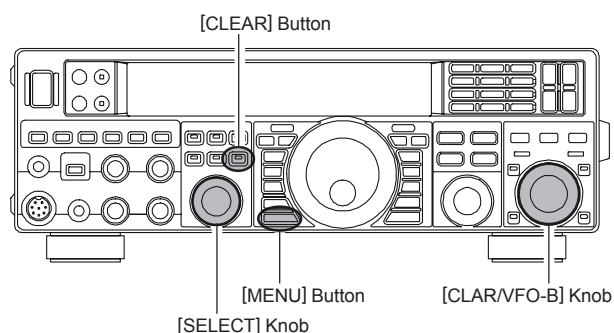
The display will show the Menu Number, Menu Group Name, and Menu Item. Press the **[SELECT]** knob momentarily to toggle the display between “Menu Number & Menu Group Name” and “Menu Item”. The Multi-Display Window shows the current setting of the currently selected Menu item.

2. Rotate the **[SELECT]** knob to select the Menu item you wish to modify.
3. Rotate the **[CLAR/VFO-B]** knob to change the current setting of the selected Menu item.

ADVICE:

Press the **[CLEAR]** button (located the upper right of the **[SELECT]** knob) momentarily to reset the selected Menu item to the factory default value.

4. When you have finished making your adjustments, press and hold in the **[MENU]** button for one second to save the new setting and exit to normal operation. If you only *momentarily* press the **[MENU]** button, the new settings will *not* be retained.



MENU MODE RESET

You may reset all the Menu settings to their original factory defaults, if desired.

1. Turn the front panel **[POWER]** switch off.
2. Press and hold in the **[MENU]** button, and while holding it in, press the **[POWER]** switch to turn the transceiver back on. Now release the **[MENU]** button.

GROUP	No. MENU FUNCTION	AVAILABLE VALUES	DEFAULT SETTING
AGC	001 AGC FST DLY	20 ~ 4000 msec (20 msec/step)	300 msec
AGC	002 AGC MID DLY	20 ~ 4000 msec (20 msec/step)	700 msec
AGC	003 AGC SLW DLY	20 ~ 4000 msec (20 msec/step)	3000 msec
DISPLAY	004 DISP COLOR	bL1/bL2/bL3/ub1/ub2	bL1*1
DISPLAY	005 DISP DIM VFD	0 ~ 15	8
DISPLAY	006 DISP BAR SEL	CLAr/C-tn/u-tn	C-tn
DISPLAY	007 DISP PKH S	OFF/0.5/1.0/2.0 sec	OFF
DISPLAY	008 DISP PKH PO	OFF/0.5/1.0/2.0 sec	OFF
DISPLAY	009 DISP PKH ALC	OFF/0.5/1.0/2.0 sec	OFF
DISPLAY	010 DISP PKH ID	OFF/0.5/1.0/2.0 sec	OFF
DISPLAY	011 DISP RTR STU	0/90/180/270°	0°*2
DISPLAY	012 DISP RTR ADJ	-30 ~ 0° (2°/step)	0°*2
DISPLAY	013 DISP QMB MKR	On/OFF	On
DVS	014 DVS RX LVL	0 ~ 100	50*3
DVS	015 DVS TX LVL	0 ~ 100	50*3
KEYER	016 KEY BEACON	OFF/1 ~ 255 sec	OFF
KEYER	017 KEY NUM STL	1290/AunO/Aunt/A2nO/A2nt/12nO/12nt	1290
KEYER	018 KEY CONTEST	0 ~ 9999	1
KEYER	019 KEY CW MEM1	tyP1/tyP2	tyP2
KEYER	020 KEY CW MEM2	tyP1/tyP2	tyP2
KEYER	021 KEY CW MEM3	tyP1/tyP2	tyP2
KEYER	022 KEY CW MEM4	tyP1/tyP2	tyP2
KEYER	023 KEY CW MEM5	tyP1/tyP2	tyP2
GENERAL	024 GENE ANT SEL	bAnd/rEG	bAnd
GENERAL	025 GENE BEP LVL	0 ~ 100	50
GENERAL	026 GENE CAT BPS	4800/9600/192H (19200)/384H (38400) bps	4800 bps
GENERAL	027 GENE CAT TOT	10/100/1000/3000 msec	10 msec
GENERAL	028 GENE CAT RTS	On/OFF	On
GENERAL	029 GENE MEM GRP	On/OFF	OFF
GENERAL	030 GENE Q SPLIT	-20 ~ 0 ~ +20 kHz (1 kHz/step)	+5 kHz
GENERAL	031 GENE TX TOT	OFF/1 ~ 30 min	OFF
GENERAL	032 GENE uT DIAL	StP1/ StP2	StP1*4
GENERAL	033 GENE MIC SCN	On/OFF	On
GENERAL	034 GENE SCN RSM	CAr/5SEc	5SEc
GENERAL	035 GENE FRQ ADJ	-25 ~ 0 ~ +25	0
MODE-AM	036 A3E MICGAIN	Ur/0 ~ 100	Ur
MODE-CW	037 A1A F-TYPE	OFF/buG/ELE/ACS	ELE
MODE-CW	038 A1A F-REV	nor/rEV (NORNAL/REVERSE)	nor (NORNAL)
MODE-CW	039 A1A R-TYPE	OFF/buG/ELE/ACS	ELE
MODE-CW	040 A1A R-REV	nor/rEV (NORNAL/REVERSE)	nor (NORNAL)
MODE-CW	041 A1A CW AUTO	OFF/50/On	OFF
MODE-CW	042 A1A BFO	USb/LSb/Auto	USb
MODE-CW	043 A1A BK-IN	SEni/FuLL	SEni
MODE-CW	044 A1A DELAY	30 ~ 3000 msec (10 msec/step)	200 msec
MODE-CW	045 A1A PITCH	300 ~ 1050 Hz (50 Hz/step)	700 Hz
MODE-CW	046 A1A WEIGHT	(1:) 2.5 ~ 4.5	3.0
MODE-CW	047 A1A FRQDISP	dir/OFS	OFS
MODE-CW	048 A1A PC KYNG	EnA/diS (ENABLE/DISABLE)	diS (Disable)
MODE-CW	049 A1A QSKTIME	15/20/25/30 msec	15 msec

*1: Requires optional **DMU-2000** Data Management Unit.

*2: Requires optional Antenna Rotator.

*3: Requires optional **DVS-6** Voice Memory Unit.

*4: Requires optional RF μ Tuning Kit.

MENU MODE

GROUP	No. MENU FUNCTION	AVAILABLE VALUES	DEFAULT SETTING
MODE-DATA	050 DATA DT GAIN	0 ~ 100	50
MODE-DATA	051 DATA OUT LVL	0 ~ 100	50
MODE-DATA	052 DATA VOX DLY	30 ~ 3000 msec (10 msec/step)	300 msec
MODE-DATA	053 DATA V GAIN	0 ~ 100	50
MODE-DATA	054 DATA PKTDISP	-3000 ~ +3000 Hz (10 Hz/step)	0 Hz
MODE-DATA	055 DATA PKT SFT	-3000 ~ +3000 Hz (10 Hz/step)	1000 Hz
MODE-FM	056 F3E MIC	Ur/0 ~ 100	50
MODE-FM	057 F3E 28 RPT	0 ~ 1000 kHz (10 kHz/step)	100 kHz
MODE-FM	058 F3E 50 RPT	0 ~ 4000 kHz (10 kHz/step)	1000 kHz
MODE-RTTY	059 RTTY R PLRTY	nor/rEV (NORMAL/REVERSE)	nor (NORMAL)
MODE-RTTY	060 RTTY T PLRTY	nor/rEV (NORMAL/REVERSE)	nor (NORMAL)
MODE-RTTY	061 RTTY OUT LVL	0 ~ 100	50
MODE-RTTY	062 RTTY SHIFT	170/200/425/850 Hz	170 Hz
MODE-RTTY	063 RTTY TONE	1275/2125 Hz	2125 Hz
MODE-SSB	064 J3E TX BPF	1-30/1-29/2-28/3-27/4-26	3-27 (300 ~ 2700 Hz)
MODE-SSB	065 J3E LSB CAR	-200 Hz ~ +200 Hz (10 Hz/steps)	0 Hz
MODE-SSB	066 J3E USB CAR	-200 Hz ~ +200 Hz (10 Hz/steps)	0 Hz
RX GENERAL	067 RGEN NB 1 LVL	0 ~ 255	128
RX GENERAL	068 RGEN NB 2 LVL	0 ~ 255	128
RX GENERAL	069 RGEN CNTR LV	-40 ~ +20 dB	-15 dB
RX GENERAL	070 RGEN CNTR WI	1 ~ 11	10
RX GENERAL	071 RGEN DNF	OFF/On	OFF
RX GENERAL	072 RGEN DNR	OFF/1 ~ 15	OFF
SCOPE	073 SCP 1.8 FIX	1.800 ~ 1.999 MHz (1 kHz/steps)	1.800 MHz ^{*1}
SCOPE	074 SCP 3.5 FIX	3.500 ~ 3.999 MHz (1 kHz/steps)	3.500 MHz ^{*1}
SCOPE	075 SCP 5.2 FIX	5.250 ~ 5.499 MHz (1 kHz/steps)	5.250 MHz ^{*1}
SCOPE	076 SCP 7.0 FIX	7.000 ~ 7.299 MHz (1 kHz/steps)	7.000 MHz ^{*1}
SCOPE	077 SCP 10.1 FIX	(1)0.100 ~ (1)0.149 MHz (1 kHz/steps)	(1)0.100 MHz ^{*1}
SCOPE	078 SCP 14.0 FIX	(1)4.000 ~ (1)4.349 MHz (1 kHz/steps)	(1)4.000 MHz ^{*1}
SCOPE	079 SCP 18.0 FIX	(1)8.000 ~ (1)8.199 MHz (1 kHz/steps)	(1)8.068 MHz ^{*1}
SCOPE	080 SCP 21.0 FIX	(2)1.000 ~ (2)1.449 MHz (1 kHz/steps)	(2)1.000 MHz ^{*1}
SCOPE	081 SCP 24.8 FIX	(2)4.800 ~ (2)4.989 MHz (1 kHz/steps)	(2)4.890 MHz ^{*1}
SCOPE	082 SCP 28.0 FIX	(2)8.000 ~ (2)9.699 MHz (1 kHz/steps)	(2)8.000 MHz ^{*1}
SCOPE	083 SCP 50.0 FIX	(5)0.000 ~ (5)3.999 MHz (1 kHz/steps)	(5)0.000 MHz ^{*1}
TUNING	084 TUN DIALSTP	1/5/10 Hz	10 Hz
TUNING	085 TUN CW FINE	EnA/diS (ENABLE/DISABLE)	diS (DISABLE)
TUNING	086 TUN MHz SEL	1/0.1 MHz	1 MHz
TUNING	087 TUN AM STEP	2.5/5/9/10/12.5 kHz	5 kHz
TUNING	088 TUN FM STEP	5/6.25/10/12.5/20/25 kHz	5 kHz
TUNING	089 TUN FM DIAL	10/100 Hz	100 Hz
TUNING	090 TUN MY BAND	1.8 ~ 50/GE	-

※1: Requires optional **DMU-2000** Data Management Unit.

GROUP	No. MENU FUNCTION	AVAILABLE VALUES	DEFAULT SETTING
TX AUDIO	091 TAUD EQ1 FRQ	OFF/100 ~ 700 Hz (100 Hz/step)	OFF
TX AUDIO	092 TAUD EQ1 LVL	-20 ~ +10	+5
TX AUDIO	093 TAUD EQ1 BW	1 ~ 10	10
TX AUDIO	094 TAUD EQ2 FRQ	OFF/700 ~ 1500 Hz (100 Hz/step)	OFF
TX AUDIO	095 TAUD EQ2 LVL	-20 ~ +10	+5
TX AUDIO	096 TAUD EQ2 BW	1 ~ 10	10
TX AUDIO	097 TAUD EQ3 FRQ	OFF/1500 ~ 3200 Hz (100 Hz/step)	OFF
TX AUDIO	098 TAUD EQ3 LVL	-20 ~ +10	+5
TX AUDIO	099 TAUD EQ3 BW	1 ~ 10	10
TX AUDIO	100 TAUD PE1 FRQ	OFF/100 ~ 700 Hz (100 Hz/step)	200 Hz
TX AUDIO	101 TAUD PE1 LVL	-20 ~ +10	0
TX AUDIO	102 TAUD PE1 BW	1 ~ 10	2
TX AUDIO	103 TAUD PE2 FRQ	OFF/700 ~ 1500 Hz (100 Hz/step)	800 Hz
TX AUDIO	104 TAUD PE2 LVL	-20 ~ +10	0
TX AUDIO	105 TAUD PE2 BW	1 ~ 10	1
TX AUDIO	106 TAUD PE3 FRQ	OFF/1500 ~ 3200 Hz (100 Hz/step)	2100 Hz
TX AUDIO	107 TAUD PE3 LVL	-20 ~ +10	0
TX AUDIO	108 TAUD PE3 BW	1 ~ 10	1
TX GENERAL	109 TGEN PROCLVL	0 ~ 100	50
TX GENERAL	110 TGEN EXT TUN	itu/Etu (INTERNAL TUNER/EXTERNAL TUNER)	itu (INTERNAL TUNER)
TX GENERAL	111 TGEN TX PWR	5 ~ 100	100
TX GENERAL	112 TGEN AM CAR	0 ~ 100	50
TX GENERAL	113 TGEN PWRCTRL	ALL/CAR	ALL
TX GENERAL	114 TGEN VOX SEL	nic/dAtA	nic
TX GENERAL	115 TGEN V GAIN	0 ~ 100	50
TX GENERAL	116 TGEN VOX DLY	30 ~ 3000 msec (10 msec/step)	500 msec
TX GENERAL	117 TGEN ANTIVOX	0 ~ 100	50
TX GENERAL	118 TGEN EMRGNCY	EnA/diS (ENABLE/DISABLE)	diS(DISABLE)

AGC GROUP

001 AGC FST DLY

Function: Sets the delay time for the AGC FAST mode.

Available Values: 20 ~ 4000 msec (20 msec/step)

Default Setting: 300 msec

002 AGC MID DLY

Function: Sets the delay time for the AGC MID mode.

Available Values: 20 ~ 4000 msec (20 msec/step)

Default Setting: 700 msec

003 AGC SLW DLY

Function: Sets the delay time for the AGC SLOW mode.

Available Values: 20 ~ 4000 msec (20 msec/step)

Default Setting: 3000 msec

DISPLAY GROUP

004 DISP COLOR

Function: Selects the Display color when the optional Data Management Unit (**DMU-2000**) is connected.

Available Values: bL1/bL2/bL3/ub1/ub2

Default Setting: bL1 (COOL BLUE)

bL1: COOL BLUE

bL2: CONTRAST BLUE

bL3: FLASH WHITE

ub1: CONTRAST UMBER

ub2: UMBER

ADVICE:

If the optional **DMU-2000** Data Management Unit is not connected, this adjustment has no effect.

005 DISP DIM VFD

Function: Setting of the display brightness level.

Available Values: 0 ~ 15

Default Setting: 8

006 DISP BAR SEL

Function: Selects one of three parameters to be viewed on the Tuning Offset Indicator.

Available Values: CLAr/C-tn/u-tn

Default Setting: C-tn

CLAr: Displays relative clarifier offset.

C-tu: Displays relative tuning offset between the incoming signal and transmitted frequency while in CW operation.

u-tu: Displays the peak position of the optional μ -TUNE filter.

007 DISP PKH S

Function: Selects the peak hold time of the S-meter.

Available Values: OFF/0.5/1.0/2.0 sec

Default Setting: OFF

008 DISP PKH PO

Function: Selects the peak hold time of the PO meter.

Available Values: OFF/0.5/1.0/2.0 sec

Default Setting: OFF

009 DISP PKH ALC

Function: Selects the peak hold time of the ALC meter.

Available Values: OFF/0.5/1.0/2.0 sec

Default Setting: OFF

010 DISP PKH ID

Function: Selects the peak hold time of the ID meter.

Available Values: OFF/0.5/1.0/2.0 sec

Default Setting: OFF

DISPLAY GROUP

011 DISP RTR STU

Function: Selects the starting point of your rotator controller's indicator needle.

Available Values: 0/90/180/270°

Default Setting: 0°

ADVICE:

If the optional Antenna Rotator is not connected, this adjustment has no effect.

012 DISP RTR ADJ

Function: Adjusts the indicator needle precisely to the starting point set in menu item "011 DISP RTR STU".

Available Values: -30 ~ 0° (2°/step)

Default Setting: 0

ADVICE:

If the optional Antenna Rotator is not connected, this adjustment has no effect.

013 DISP QMB MKR

Function: Enables/Disables the QMB Marker (White arrow "▽") to display on the Spectrum Band Scope when the optional **DMU-2000** Data Management Unit is connected.

Available Values: On/OFF

Default Setting: On

ADVICE:

If the optional **DMU-2000** Data Management Unit is not connected, this adjustment has no effect.

DVS GROUP

014 DVS RX LVL

Function: Sets the audio output level from the optional **DVS-6** Voice Memory Unit.

Available Values: 0 ~ 100

Default: 50

ADVICE:

If the optional **DVS-6** Voice Memory Unit is not connected, this adjustment has no effect.

015 DVS TX LVL

Function: Sets the microphone input level to the optional **DVS-6** Voice Memory Unit

Available Values: 0 ~ 100

Default: 50

ADVICE:

If the optional **DVS-6** Voice Memory Unit is not connected, this adjustment has no effect.

KEYER GROUP

016 KEY BEACON

Function: Sets the interval time between repeats of the beacon message.

Available Values: OFF/1 ~ 255 sec

Default Setting: OFF

017 KEY NUM STL

Function: Selects the Contest Number "Cut" format for an imbedded contest number.

Available Values: 1290/AunO/Aunt/A2nO/A2nt/12nO/12nt

Default Setting: 1290

1290: Does not abbreviate the Contest Number

AunO: Abbreviates to "A" for "One", "U" for "Two", "N" for "Nine", and "O" for "Zero."

Aunt: Abbreviates to "A" for "One", "U" for "Two", "N" for "Nine", and "T" for "Zero".

A2nO: Abbreviates to "A" for "One", "N" for "Nine", and "O" for "Zero".

A2nt: Abbreviates to "A" for "One", "N" for "Nine", and "T" for "Zero".

12nO: Abbreviates to "N" for "Nine" and "O" for "Zero".

12nt: Abbreviates to "N" for "Nine" and "T" for "Zero".

018 KEY CONTEST

Function: Enters the initial contest number that will increment/decrement after sending during contest QSOs.

Available Values: 0 ~ 9999

Default Setting: 1

ADVICE:

Press the [CLEAR] button to reset the contest number to "1".

KEYER GROUP

019 KEY CW MEM1

Function: Permits entry of the CW message for message register 1.

Available Values: tyP1/tyP2

Default Setting: tyP2

tyP1: You may enter the CW message from the Main Tuning Dial knob and [CLAR/VFO-B] knob.

tyP2: You may enter the CW message from the CW keyer.

020 KEY CW MEM2

Function: Permits entry of the CW message for message register 2.

Available Values: tyP1/tyP2

Default Setting: tyP2

tyP1: You may enter the CW message from the Main Tuning Dial knob and [CLAR/VFO-B] knob.

tyP2: You may enter the CW message from the CW keyer.

021 KEY CW MEM3

Function: Permits entry of the CW message for message register 3.

Available Values: tyP1/tyP2

Default Setting: tyP2

tyP1: You may enter the CW message from the Main Tuning Dial knob and [CLAR/VFO-B] knob.

tyP2: You may enter the CW message from the CW keyer.

022 KEY CW MEM4

Function: Permits entry of the CW message for message register 4.

Available Values: tyP1/tyP2

Default Setting: tyP2

tyP1: You may enter the CW message from the Main Tuning Dial knob and [CLAR/VFO-B] knob.

tyP2: You may enter the CW message from the CW keyer.

023 KEY CW MEM5

Function: Permits entry of the CW message for message register 5.

Available Values: tyP1/tyP2

Default Setting: tyP2

tyP1: You may enter the CW message from the Main Tuning Dial knob and [CLAR/VFO-B] knob.

tyP2: You may enter the CW message from the CW keyer.

GENERAL GROUP

024 GENE ANT SEL

Function: Sets the method of antenna selection.

Available Values: bAnd/rEG

Default Setting: bAnd

bAnd: The antenna is selected in accordance with the operating band.

rEG: The antenna is selected in accordance with the band stack (different antennas may be utilized on the same band, if so selected in the band stack).

025 GENE BEP LVL

Function: Sets the beep level.

Available Values: 0 ~ 100

Default Setting: 50

026 GENE CAT BPS

Function: Sets the transceiver's computer-interface circuitry for the CAT baud rate to be used.

Available Values: 4800/9600/192H (19200)/384H (38400) bps

Default Setting: 4800 bps

027 GENE CAT TOT

Function: Sets the Time-Out Timer countdown time for a CAT command input.

Available Values: 10/100/1000/3000 msec

Default Setting: 10 msec

The Time-Out Timer shuts off the CAT data input after the continuous transmission of the programmed time.

028 GENE CAT RTS

Function: Enables/Disables the RTS port of the CAT jack.

Available Values: On/OFF

Default Setting: On

029 GENE MEM GRP

Function: Enables/Disables Memory Group Operation.

Available Values: On/OFF

Default Setting: OFF

030 GENE Q SPLIT

Function: Selects the tuning offset for the Quick Split feature.

Available Values: -20 ~ 0 ~ +20 kHz (1 kHz Step)

Default Setting: +5 kHz

031 GENE TX TOT

Function: Sets the Time-Out Timer countdown time.

Available Values: OFF/1 ~ 30 min

Default Setting: OFF

The Time-Out Timer shuts off the transmitter after continuous transmission of the programmed time.

GENERAL GROUP

032 GENE μ T DIAL

Function: Selects the μ -TUNE mode.

Available Values: StP1/StP2

Default Setting: StP1

StP1: Activates the μ -TUNE system using “COARSE” steps of the [**SELECT(μ -TUNE)**] knob (2 steps/click) on the 7 MHz and lower amateur bands. On the 10/14 MHz bands, “FINE” [**SELECT(μ -TUNE)**] knob steps will be used (1 step/click).

StP2: Activates the μ -TUNE system using “FINE” steps of the [**SELECT(μ -TUNE)**] knob (1 step/click) on the 14 MHz and lower amateur bands.

ADVICE:

If an optional RF μ Tuning Kit is not connected, this adjustment has no effect.

033 GENE MIC SCN

Function: Enables/disables scanning access via the microphone’s [**UP**]/[**DWN**] keys.

Available Values: On/OFF

Default Setting: On

034 GENE SCN RSM

Function: Selects the Scan Resume mode.

Available Values: CAR/5SEc

Default Setting: 5SEc

CAR: The scanner will hold until the signal disappears, then will resume after one second.

5SEc: The scanner will hold for five seconds, then resume whether or not the other station is still transmitting.

035 GENE FRQ ADJ

Function: Adjusts the reference oscillator.

Available Values: -25 ~ 0 ~ +25

Default Setting: 0

Connect a 50-Ohm dummy load and frequency counter to the antenna jack; adjust the [**CLAR/VFO-B**] knob so that the frequency counter reading is same as the VFO frequency while pressing the **PTT** switch.

ADVICE:

Do not perform this Menu item unless you have a high performance frequency counter. Perform this Menu item after aging the transceiver and frequency counter sufficiently (at least 30 minutes).

MODE-AM GROUP

036 A3E MICGAIN

Function: Sets the microphone gain for the AM mode.

Available Values: Ur/0 ~ 100

Default Setting: Ur

When this menu is set to “Ur”, you may adjust the microphone gain using the front panel’s [**MIC GAIN**] knob.

MODE-CW GROUP

037 A1A F-TYPE

Function: Selects the desired keyer operation mode for the device connected to the front panel’s **KEY** jack.

Available Values: OFF/buG/ELE/ACS

Default Setting: ELE

OFF: Disables the front panel’s keyer (“straight key” mode for use with external keyer or computer-driven keying interface).

buG: Mechanical “bug” keyer emulation. One paddle produces “dits” automatically, while the other paddle manually produces “dahs”.

ELE: Iambic keyer with ACS (Automatic Character Spacing) disabled.

ACS: Iambic keyer with ACS (Automatic Character Spacing) enabled.

038 A1A F-REV

Function: Selects the keyer paddle’s wiring configuration for the **KEY** jack on the front panel.

Available Values: nor/rEV

Default Setting: nor

nor: Tip = Dot, Ring = Dash, Shaft = Ground

rEV: Tip = Dash, Ring = Dot, Shaft = Ground

039 A1A R-TYPE

Function: Selects the desired keyer operation mode for the device connected to the rear panel’s **KEY** jack.

Available Values: OFF/buG/ELE/ACS

Default Setting: ELE

OFF: Disables the front panel’s keyer (“straight key” mode for use with external keyer or computer-driven keying interface).

buG: Mechanical “bug” keyer emulation. One paddle produces “dits” automatically, while the other paddle manually produces “dahs”.

ELE: Iambic keyer with ACS (Automatic Character Spacing) disabled.

ACS: Iambic keyer with ACS (Automatic Character Spacing) enabled.

040 A1A R-REV

Function: Selects the keyer paddle’s wiring configuration for the **KEY** jack on the rear panel.

Available Values: nor/rEV

Default Setting: nor

nor: Tip = Dot, Ring = Dash, Shaft = Ground

rEV: Tip = Dash, Ring = Dot, Shaft = Ground

MODE-CW GROUP

041 A1A CW AUTO

Function: Enables/disables CW keying while operating on SSB.

Available Values: OFF/50/On

Default Setting: OFF

OFF: Disables CW keying while operating on SSB.

50: Enables CW keying only while operating SSB on 50 MHz (but not HF).

On: Enables CW keying while operating on SSB (all TX bands).

NOTE:

This feature allows you to move someone from SSB to CW without having to change modes on the front panel.

042 A1A BFO

Function: Sets the CW carrier oscillator injection side for the CW mode.

Available Values: USb/LSb/Auto

Default Setting: USb

USb: Injects the CW carrier oscillator on the USB side.

LSb: Injects the CW carrier oscillator on the LSB side.

Auto: Injects the CW carrier oscillator on the LSB side while operating on the 7 MHz band and below, and the USB side while operating on the 10 MHz band and up.

043 A1A BK-IN

Function: Sets the CW “break-in” mode.

Available Values: SEni/FuLL

Default Setting: SEni

SEni (SEMI): The transceiver will operate in the semi break-in mode. The delay (receiver recovery) time is set via the Menu item “**044 A1A DELAY**”.

FuLL: The transceiver will operate in the full break-in (QSK) mode.

044 A1A DELAY

Function: Adjusts the Keying Delay (receiver recovery) time on the CW mode.

Available Values: 30 ~ 3000 msec (10 msec/step)

Default Setting: 200 msec

045 A1A PITCH

Function: Adjusts your preferred CW tone pitch.

Available Values: 300 ~ 1050 Hz (50 Hz/step)

Default Setting: 700 Hz

046 A1A WEIGHT

Function: Sets the Dot:Dash ratio for the built-in electronic keyer.

Available Values: (1:) 2.5 ~ 4.5

Default Setting: 3.0

047 A1A FRQDISP

Function: Selects the frequency Display Format for the CW mode.

Available Values: dir/OFSt

Default Setting: OFSt

dir (Direct Frequency): Displays the receiver carrier frequency, without any offset added. When changing modes between SSB and CW, the frequency display remains constant.

OFSt (Pitch Offset): This frequency display reflects the added BFO offset.

048 A1A PC KYNG

Function: Enables/disables CW keying from the “DATA PTT” terminal (pin 3) on the rear panel’s **RTTY/PKT** jack while operating on the CW mode.

Available Values: EnA (Enable)/diS (Disable)

Default Setting: diS (Disable)

049 A1A QSKTIME

Function: Selects the time delay between when the PTT is keyed and the carrier is transmitted during QSK operation when using the internal keyer.

Available Values: 15/20/25/30 msec

Default Setting: 15 msec

MODE-DATA GROUP

050 DATA DT GAIN

Function: Sets the data input level from the TNC to the AFSK modulator.

Available Values: 0 ~ 100

Default Setting: 50

051 DATA OUT LVL

Function: Sets the AFSK data output level at the output port (pin 5) of the **RTTY/PKT** jack.

Available Values: 0 ~ 100

Default Setting: 50

052 DATA VOX DLY

Function: Adjusts the “VOX” Delay (receiver recovery) time in the PACKET mode.

Available Values: 30 ~ 3000 msec (10 msec/step)

Default Setting: 300 msec

053 DATA V GAIN

Function: Adjusts the “VOX” Gain in the PACKET mode.

Available Values: 0 ~ 100

Default Setting: 50

054 DATA PKTDISP

Function: Sets the packet frequency display offset.

Available Values: -3000 ~ +3000 Hz (10 Hz/step)

Default: 0 Hz

055 DATA PKT SFT

Function: Sets the carrier point during the SSB packet operation.

Available Values: -3000 ~ +3000 Hz (10 Hz/step)

Default: 1000 Hz (typical center frequency for PSK31, etc.)

MODE-FM GROUP

056 F3E MIC

Function: Sets the microphone gain for the FM mode.

Available Values: Ur/0 ~ 100

Default Setting: 50

When this menu is set to “Ur”, you may adjust the microphone gain using the front panel’s **[MIC GAIN]** knob.

057 F3E 28 RPT

Function: Sets the magnitude of the repeater shift on the 28 MHz band.

Available Values: 0 ~ 1000 kHz (10 kHz/step)

Default Setting: 100 kHz

058 F3E 50 RPT

Function: Sets the magnitude of the repeater shift on the 50 MHz band.

Available Values: 0 ~ 4000 kHz (10 kHz/step)

Default Setting: 1000 kHz

MODE-RTTY GROUP

059 RTTY R PLRTY

Function: Selects normal or reverse Mark/Space polarity for RTTY receive operation.

Available Values: nor/rEV

Default Setting: nor

060 RTTY T PLRTY

Function: Selects normal or reverse Mark/Space polarity for RTTY transmit operation.

Available Values: nor/rEV

Default Setting: nor

061 RTTY OUT LVL

Function: Sets the RTTY (AFSK) data output level at the output port (pin 5) of the **RTTY/PKT** jack.

Available Values: 0 ~ 100

Default Setting: 50

062 RTTY SHIFT

Function: Selects the frequency shift for RTTY (AFSK) operation.

Available Values: 170/200/425/850 Hz

Default Setting: 170 Hz

063 RTTY TONE

Function: Selects the Mark tone for RTTY operation.

Available Values: 1275/2125 Hz

Default Setting: 2125 Hz

MODE-SSB GROUP

064 J3E TX BPF

Function: Selects the audio passband of the DSP modulator on the SSB mode.

Available Values: 1-30/1-29/2-28/3-27/4-26

Default Setting: 3-27: 300 ~ 2700 (Hz)

1-30: 100 ~ 3000 (Hz)

1-29: 100 ~ 2900 (Hz)

2-28: 200 ~ 2800 (Hz)

3-27: 300 ~ 2700 (Hz)

4-26: 400 ~ 2600 (Hz)

NOTE:

The *apparent* power output, when using the widest bandwidths, may seem lower. This is normal, and it occurs because the available transmitter power is distributed over a wider bandwidth. The greatest compression of power output, conversely, occurs when using the “4-26” setting (400 ~ 2600 Hz), and this setting is highly recommended for contest or DX pile-up work.

065 J3E LSB CAR

Function: Adjusts the receiver carrier point for the LSB mode.

Available Values: -200 Hz ~ +200 Hz (10 Hz steps)

Default Setting: 0 Hz

066 J3E USB CAR

Function: Adjusts the receiver carrier point for the USB mode.

Available Values: -200 Hz ~ +200 Hz (10 Hz steps)

Default Setting: 0 Hz

RX GENERAL GROUP

067 RGEN NB 1 LVL

Function: Adjusts the noise blanking level of the IF Noise Blanker for short duration pulse noise.

Available Values: 0 ~ 255

Default Setting: 128

068 RGEN NB 2 LVL

Function: Adjusts the noise blanking level of the IF Noise Blanker for longer duration pulse noise.

Available Values: 0 ~ 255

Default Setting: 128

069 RGEN CNTR LV

Function: Adjusts the parametric equalizer gain of the Contour filter.

Available Values: -40 ~ +20 dB

Default Setting: -15 dB

070 RGEN CNTR WI

Function: Adjusts the Q-factor of the Contour filter.

Available Values: 1 ~ 11

Default Setting: 10

071 RGEN DNF

Function: Enables/disables the Digital Notch Filter.

Available Values: OFF/On

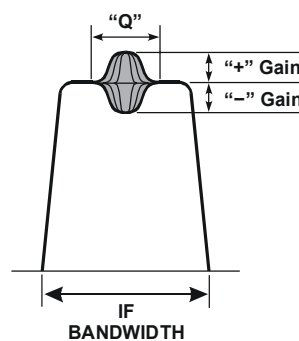
Default Setting: OFF

072 RGEN DNR

Function: Set the Digital Noise Reduction response.

Available Values: OFF/1 ~ 15

Default Setting: OFF



CONTOUR "GAIN" AND "Q"

SCOPE GROUP

ADVICE:

This group's adjustment has no effect if the optional **DMU-2000** Data Management Unit is not connected.

073 SCP 1.8 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 160 m amateur band.

Available Values: 1.800 ~ 1.999 MHz (1 kHz steps)

Default Setting: 1.800 MHz

074 SCP 3.5 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 80 m amateur band.

Available Values: 3.500 ~ 3.999 MHz (1 kHz steps)

Default Setting: 3.500 MHz

075 SCP 5.2 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 60 m amateur band.

Available Values: 5.250 ~ 5.499 MHz (1 kHz steps)

Default Setting: 5.250 MHz

076 SCP 7.0 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 40 m amateur band.

Available Values: 7.000 ~ 7.299 MHz (1 kHz steps)

Default Setting: 7.000 MHz

077 SCP 10.1 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 30 m amateur band.

Available Values: (1)0.100 ~ (1)0.149 MHz (1 kHz steps)

Default Setting: (1)0.100 MHz

078 SCP 14.0 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 20 m amateur band.

Available Values: (1)4.000 ~ (1)4.349 MHz (1 kHz steps)

Default Setting: (1)4.000 MHz

079 SCP 18.0 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 17 m amateur band.

Available Values: (1)8.000 ~ (1)8.199 MHz (1 kHz steps)

Default Setting: (1)8.068 MHz

080 SCP 21.0 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 15 m amateur band.

Available Values: (2)1.000 ~ (2)1.449 MHz (1 kHz steps)

Default Setting: (2)1.000 MHz

081 SCP 24.8 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 12 m amateur band.

Available Values: (2)4.800 - (2)4.989 MHz (1 kHz steps)

Default Setting: (2)4.890 MHz

082 SCP 28.0 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 10 m amateur band.

Available Values: (2)8.000 ~ (2)9.699 MHz (1 kHz steps)

Default Setting: (2)8.000 MHz

083 SCP 50.0 FIX

Function: Selects the scan start frequency of the FIX mode Spectrum Scope while monitoring on the 6 m amateur band.

Available Values: (5)0.000 ~ (5)3.999 MHz (1 kHz steps)

Default Setting: (5)0.000 MHz

MENU MODE

TUNING GROUP

084 TUN DIALSTP

Function: Setting of the Main Tuning Dial knob's and the [CLAR/VFO-B] knob's tuning speed on the SSB, CW, and AM modes.

Available Values: 1/5/10 Hz

Default Setting: 10 Hz

085 TUN CW FINE

Function: Enabling/disabling of the "Fine" tuning speed in the CW mode.

Available Values: EnA/diS (ENABLE/DISABLE)

Default Setting: diS (DISABLE)

EnA (ENABLE): Tuning in 1 Hz steps on the CW mode.

diS (DISABLE): Tuning according to the steps determined via menu item "084 TUN DIALSTP".

086 TUN MHz SEL

Function: Selects the tuning steps for the [CLAR/VFO-B] knob when the [MHz] button is pressed.

Available Values: 1/0.1 MHz

Default Setting: 1 MHz

087 TUN AM STEP

Function: Selects the tuning steps for the microphone's [UP]/[DWN] keys in the AM mode.

Available Values: 2.5/5/9/10/12.5 kHz

Default Setting: 5 kHz

088 TUN FM STEP

Function: Selects the tuning steps for the microphone's [UP]/[DWN] keys in the FM mode.

Available Values: 5/6.25/10/12.5/20/25 kHz

Default Setting: 5 kHz

089 TUN FM DIAL

Function: Setting of the Main Tuning Dial knob's and the [CLAR/VFO-B] knob's tuning speed in the FM mode.

Available Values: 10/100 Hz

Default Setting: 100 Hz

090 TUN MY BAND

Function: Programs a band to be skipped while selecting bands using the [CLAR/VFO-B] knob.

To program the band to be skipped, rotate the [CLAR/VFO-B] knob to recall the band to be skipped while selecting bands via the [CLAR/VFO-B] knob, then press the [ENT] button to change this setting to "ON" (a "d" notation will replace the "E" notation). Repeat the same procedure to cancel the setting (skipped "Off": "d" notation appears).

TX AUDIO GROUP

091 TAUD EQ1 FRQ

Function: Selects the center frequency of the lower range for the parametric microphone equalizer.

Available Values: OFF/100 ~ 700 Hz (100 Hz/step)

Default Setting: OFF

OFF: The equalizer gain and Q-factor are set to factory defaults (flat).

100 ~ 700: Center frequencies of 100 Hz ~ 700 Hz.

You may adjust the equalizer gain and Q-factor at this selected audio frequency via menu items "092 TAUD EQ1 LVL" and "093 TAUD EQ1 BW".

092 TAUD EQ1 LVL

Function: Adjusts the equalizer gain of the low range of the parametric microphone equalizer.

Available Values: -20 ~ +10

Default Setting: +5

093 TAUD EQ1 BW

Function: Adjusts the Q-factor of the low range of the parametric microphone equalizer.

Available Values: 1 ~ 10

Default Setting: 10

094 TAUD EQ2 FRQ

Function: Selects the center frequency of the middle range for the parametric microphone equalizer.

Available Values: OFF/700 ~ 1500 Hz (100 Hz/step)

Default Setting: OFF

OFF: The equalizer gain and Q-factor are set to factory defaults (flat).

700 ~ 1500: Center frequencies of 700 Hz ~ 1500 Hz.

You may adjust the equalizer gain and Q-factor at this selected audio frequency via menu items "095 TAUD EQ2 LVL" and "096 TAUD EQ2 BW".

095 TAUD EQ2 LVL

Function: Adjusts the equalizer gain of the middle range of the parametric microphone equalizer.

Available Values: -20 ~ +10

Default Setting: +5

096 TAUD EQ2 BW

Function: Adjusts the Q-factor of the middle range of the parametric microphone equalizer.

Available Values: 1 ~ 10

Default Setting: 10

TX AUDIO GROUP

097 TAUD EQ3 FRQ

Function: Selects the center frequency of the high range for the parametric microphone equalizer.

Available Values: OFF/1500 ~ 3200 Hz (100 Hz/step)

Default Setting: OFF

OFF: The equalizer gain and Q-factor are set to factory defaults (flat).

1500 ~ 3200: Center frequencies of 1500 Hz ~ 3200 Hz.

You may adjust the equalizer gain and Q-factor in this selected audio frequency via menu items “**098 TAUD EQ3 LVL**” and “**099 TAUD EQ3 BW**”.

098 TAUD EQ3 LVL

Function: Adjusts the equalizer gain of the high range of the parametric microphone equalizer.

Available Values: -20 ~ +10

Default Setting: +5

099 TAUD EQ3 BW

Function: Adjusts the Q-factor of the high range of the parametric microphone equalizer.

Available Values: 1 ~ 10

Default Setting: 10

100 TAUD PE1 FRQ

Function: Selects the center frequency of the lower range for the parametric microphone equalizer when the speech processor is activated.

Available Values: OFF/100 ~ 700 Hz (100 Hz/step)

Default Setting: 200 Hz

OFF: The equalizer gain and Q-factor are set to factory defaults (flat).

100 ~ 700: Center frequencies of 100 Hz ~ 700 Hz.

You may adjust the equalizer gain and Q-factor at this selected audio frequency via menu items “**101 TAUD PE1 LVL**” and “**102 TAUD PE1 BW**”.

101 TAUD PE1 LVL

Function: Adjusts the equalizer gain of the low range of the parametric microphone equalizer when the speech processor is activated.

Available Values: -20 ~ +10

Default Setting: 0

102 TAUD PE1 BW

Function: Adjusts the Q-factor of the low range of the parametric microphone equalizer when the speech processor is activated.

Available Values: 1 ~ 10

Default Setting: 2

103 TAUD PE2 FRQ

Function: Selects the center frequency of the middle range for the parametric microphone equalizer when the speech processor is activated.

Available Values: OFF/700 ~ 1500 Hz (100 Hz/step)

Default Setting: 800 Hz

OFF: The equalizer gain and Q-factor are set to factory defaults (flat).

700 ~ 1500: Center frequencies of 700 Hz ~ 1500 Hz.

You may adjust the equalizer gain and Q-factor at this selected audio frequency via menu items “**104 TAUD PE2 LVL**” and “**105 TAUD PE2 BW**”.

104 TAUD PE2 LVL

Function: Adjusts the equalizer gain of the middle range of the parametric microphone equalizer when the speech processor is activated.

Available Values: -20 ~ +10

Default Setting: 0

105 TAUD PE2 BW

Function: Adjusts the Q-factor of the middle range of the parametric microphone equalizer when the speech processor is activated.

Available Values: 1 ~ 10

Default Setting: 1

106 TAUD PE3 FRQ

Function: Selects the center frequency of the high range for the parametric microphone equalizer when the speech processor is activated.

Available Values: OFF/1500 ~ 3200 Hz (100 Hz/step)

Default Setting: 2100 Hz

OFF: The equalizer gain and Q-factor are set to factory defaults (flat).

1500 ~ 3200: Center frequencies of 1500 Hz ~ 3200 Hz.

You may adjust the equalizer gain and Q-factor in this selected audio frequency via menu items “**107 TAUD PE3 LVL**” and “**108 TAUD PE3 BW**”.

107 TAUD PE3 LVL

Function: Adjusts the equalizer gain of the high range of the parametric microphone equalizer when the speech processor is activated.

Available Values: -20 ~ +10

Default Setting: 0

108 TAUD PE3 BW

Function: Adjusts the Q-factor of the high range of the parametric microphone equalizer when the speech processor is activated.

Available Values: 1 ~ 10

Default Setting: 1

TX GENERAL GROUP

109 TGEN PROCLVL

Function: Sets a compression level of the Speech Processor.

Available Values: 1 ~ 100

Default Setting: 50

110 TGEN EXT TUN

Function: Enable/disable the optional **FC-40** Antenna Tuner.

Available Values: itu/Etu (INTERNAL TUNER/EXTERNAL TUNER)

Default Setting: itu (INTERNAL)

itu (INTERNAL TUNER): The [**TUNE**] button will activate the internal Antenna Tuner.

Etu (EXTERNAL TUNER): The [**TUNE**] button will activate the optional **FC-40** Antenna Tuner.

111 TGEN TX PWR

Function: Sets a transmitter output level.

Available Values: 5 ~ 100 %

Default Setting: 100 %

112 TGEN AM CAR

Function: Sets a carrier power output level.

Available Values: 0 ~ 100

Default Setting: 50

113 TGEN PWRCTRL

Function: Setting the menu item “**111 TGEN TX PWR**”.

Available Values: ALL/CAR

Default Setting: ALL

ALL: The Menu Item “**111 TGEN TX PWR**” affects all modes except AM.

CAR: The Menu Item “**111 TGEN TX PWR**” affects all modes except SSB. In this case, the SSB output power will be set to maximum, regardless of the setting of the Menu Item “**111 TGEN TX PWR**”.

114 TGEN VOX SEL

Function: Selects the audio input source for triggering TX during VOX operation.

Available Values: nic/dAtA

Default Setting: nic

nic (MIC): The VOX function will be activated by microphone audio input.

dAtA (DATA): The VOX function will be activated by data audio input port (pin 1) of the **RTTY/PKT** Jack.

115 TGEN V GAIN

Function: Adjusts the “VOX” Gain on the SSB/AM/FM modes.

Available Values: 0 ~ 100

Default Setting: 50

116 TGEN VOX DLY

Function: Adjusts the “VOX” Delay (receiver recovery) time on the SSB/AM/FM modes.

Available Values: 30 ~ 3000 msec (10 msec/step)

Default Setting: 500 msec

117 TGEN ANTIVOX

Function: Adjusts the Anti-VOX Trip Gain, which is the level of negative AF feedback of receiver audio to the microphone, to prevent receiver audio from activating the transmitter (via the microphone) during VOX operation.

Available Values: 0 ~ 100

Default Setting: 50

118 TGEN EMRGNCY

Function: Enables Tx/Rx operation on the Alaska Emergency Channel, 5167.5 kHz.

Available Values: EnA(ENABLE)/diS(DISABLE)

Default Setting: diS(DISABLE)

When this Menu Item is set to “EnA(ENABLE),” the spot frequency of 5167.5 kHz will be enabled. The Alaska Emergency Channel will be found between the Memory channels “P-1” and “01 (or 1-01).”

Important: The use of this frequency is restricted to stations operating in or near Alaska, and only for emergency purposes (never for routine operations). See §97.401(c) of the FCC’s regulations for details.