

changes in factory defaults are yellow

## FT-991 MENU MODE

No.	Menu Function	Available Settings	Default Value
001	AGC FAST DELAY	20 - 4000 (20msec/step)	300msec
002	AGC MID DELAY	20 - 4000 (20msec/step)	700msec
003	AGC SLOW DELAY	20 - 4000 (20msec/step)	3000msec
004	HOME FUNCTION	SCOPE/FUNCTION	SCOPE
005	MY CALL INDICATION	OFF - 5sec	1sec
006	DISPLAY COLOR	BLUE/GRAY/GREEN/ORANGE/PURPLE/RED/SKY BLUE	BLUE
007	DIMMER LED	1/2	2
008	DIMMER TFT	0 - 15	8
009	BAR MTR PEAK HOLD	OFF/0.5/1.0/2.0 (sec)	OFF
010	DVS RX OUT LEVEL	0 - 100	50
011	DVS TX OUT LEVEL	0 - 100	50
012	KEYER TYPE	OFF/BUG/ELEKEY-A/ELEKEY-B/ELEKEY-Y/ACS	ELEKEY-B
013	KEYER DOT/DASH	NOR/REV	NOR
014	CW WEIGHT	2.5 - 4.5	3.0
015	BEACON INTERVAL	OFF/1 - 240sec/270 - 690sec	OFF
016	NUMBER STYLE	1290/AUNO/AUNT/A2NO/A2NT/12N0/12NT	1290
017	CONTEST NUMBER	0 - 9999	1
018	CW MEMORY 1	TEXT/MESSAGE	TEXT
019	CW MEMORY 2	TEXT/MESSAGE	TEXT
020	CW MEMORY 3	TEXT/MESSAGE	TEXT
021	CW MEMORY 4	TEXT/MESSAGE	TEXT
022	CW MEMORY 5	TEXT/MESSAGE	TEXT
023	NB WIDTH	1/3/10msec	3msec
024	NB REJECTION	10/30/50dB	30dB
025	NB LEVEL	0 - 10	5
026	BEEP LEVEL	0 - 100	50
027	TIME ZONE	-12:00 - 0:00 - +14:00	0:00
028	GPS/232C SELECT	GPS1/GPS2/RS232C	GPS1
029	232C RATE	4800/9600/19200/38400 (bps)	38400bps
030	232C TOT	10/100/1000/3000 (msec)	10msec

031	CAT RATE	4800/9600/19200/38400 (bps)	38400bps
032	CAT TOT	10/100/1000/3000 (msec)	10msec
033	CAT RTS	ENABLE/DISABLE	ENABLE
034	MEM GROUP	ENABLE/DISABLE	DISABLE
035	QUICK SPLIT FREQ	-20 - 20kHz	5kHz
036	TX TOT	OFF/1 - 30 (min)	OFF (10x)
037	MIC SCAN	ENABLE/DISABLE	ENABLE
038	MIC SCAN RESUME	PAUSE/TIME	TIME
039	REF FREQ ADJ	-25 - 0 - 25	0
040	CLAR MODE SELECT	RX/TX/TRX	RX
041	AM LCUT FREQ	OFF/100Hz - 1000Hz (50Hz/step)	OFF
042	AM LCUT SLOPE	6dB/oct / 18dB/oct	6dB/oct
043	AM HCUT FREQ	700Hz - 4000Hz (50Hz/step) / OFF	OFF
044	AM HCUT SLOPE	6dB/oct / 18dB/oct	6dB/oct
045	AM MIC SELECT	MIC/REAR	MIC
046	AM OUT LEVEL	0 - 100	50
047	AM PTT SELECT	DAKY/RTS/DTR	DAKY
048	AM PORT SELECT	DATA/USB	DATA
049	AM DATA GAIN	0 - 100	50
050	CW LCUT FREQ	OFF/100Hz - 1000Hz(50Hz/step)	250Hz
051	CW LCUT SLOPE	6dB/oct / 18dB/oct	18dB/oct
052	CW HCUT FREQ	700Hz - 4000Hz(50Hz/step) / OFF	1200Hz
053	CW HCUT SLOPE	6dB/oct / 18dB/oct	18dB/oct
054	CW OUT LEVEL	0 - 100	50
055	CW AUTO MODE	OFF/50M/ON	OFF
056	CW BK-IN TYPE	SEMI/FULL	SEMI
057	CW BK-IN DELAY	30 - 3000 (msec)	200msec
058	CW WAVE SHAPE	2/4 (msec)	4msec
059	CW FREQ DISPLAY	DIRECT FREQ/PITCH OFFSE	PITCH OFFSE
060	PC KEYING	OFF/DAKY/RTS/DTR	DTR
061	QSK DELAY TIME	15/20/25/30(msec)	15msec
062	DATA MODE	PSK/OTHERS	OTHERS
063	PSK TONE	1000/1500/2000(Hz)	1000Hz
064	OTHER DISP (SSB)	-3000 - 0 - 3000(10Hz/step)	0Hz

065	OTHER SHIFT (SSB)	-3000 - 0 - 3000(10Hz/step)	0Hz
066	DATA LCUT FREQ	OFF/100 - 1000(Hz)(50Hz/step)	OFF
067	DATA LCUT SLOPE	6dB/oct / 18dB/oct	18dB/oct
068	DATA HCUT FREQ	700Hz - 4000Hz(50Hz/step)/OFF	OFF
069	DATA HCUT SLOPE	6dB/oct / 18dB/oct	18dB/oct
070	DATA IN SELECT	REAR/MIC	REAR
071	DATA PTT SELECT	DAKY/RTS/DTR	DAKY
072	DATA PORT SELECT	DATA/USB	USB
073	DATA OUT LEVEL	0 - 100	50
074	FM MIC SELECT	MIC/REAR	MIC
075	FM OUT LEVEL	0 - 100	50
076	FM PKT PTT SELECT	DAKY/RTS/DTR	DAKY
077	FM PKT PORT SELECT	DATA/USB	DATA
078	FM PKT TX GAIN	0 - 100	50
079	FM PKT MODE	1200/9600	1200
080	RPT SHIFT 28MHz	0 - 1000kHz (10kHz/step)	100kHz
081	RPT SHIFT 50MHz	0 - 4000kHz (10kHz/step)	1000kHz
082	RPT SHIFT 144MHz	0 - 4000kHz (10kHz/step)	600kHz
083	RPT SHIFT 430MHz	0 - 10000kHz (10kHz/step)	5000kHz
084	ARS 144MHz	OFF/ON	ON
085	ARS 430MHz	OFF/ON	ON
086	DCS POLARITY	Tn-Rn/Tn-Riv/Tiv-Rnitin-Riv	Tn-Rn
087	RADIO ID	Displays the unique transceiver ID (The ID is unique to each transceiver and cannot be changed.)	*****
088	DIGITAL SQL TYPE	OFF/CODE/BREAK	OFF
089	DIGITAL SQL CODE	001 - 126	001
090	GM DISPLY	DISTANCE/STRENGTH	DISTANCE
091	DISTANCE	km/mile	mile
092	AMS TX MODE	AUTO/MANUAL/DN/VW/ANALOG	AUTO
093	STANDBY BEEP	ON/OFF	ON
094	RTTY LCUT FREQ	OFF/100Hz - 1000Hz (50Hz/step)	300Hz
095	RTTY LCUT SLOPE	6dB/oct / 18dB/oct	18dB/oct
096	RTTY HCUT FREQ	700Hz - 4000Hz (50Hz/step) / OFF	3000Hz
097	RTTY HCUT SLOPE	6dB/oct / 18dB/oct	18dB/oct

098	RTTY SHIFT PORT	SHIFT/DTR/RTS	SHIFT
099	RTTY POLARITY-RX	NOR/REV	NOR
100	RTTY POLARITY-TX	NOR/REV	NOR
101	RTTY OUT LEVEL	0 - 100	50
102	RTTY SHIFT FREQ	170/200/425/850 (Hz)	170Hz
103	RTTY MARK FREQ	1275/2125 (Hz)	2125Hz
104	SSB LCUT FREQ	OFF/100Hz - 1000Hz (50Hz/step)	100Hz
105	SSB LCUT SLOPE	6dB/oct / 18dB/oct	6dB/oct
106	SSB HCUT FREQ	700Hz - 4000Hz (50Hz/step) / OFF	3000Hz
107	SSB HCUT SLOPE	6dB/oct / 18dB/oct	6dB/oct
108	SSB MIC SELECT	MIC/REAR	MIC
109	SSB OUT LEVEL	0 - 100	50
110	SSB PTT SELECT	DAKY/RTS/DTR	DAKY
111	SSB PORT SELECT	DATA/USB	DATA
112	SSB TX BPF	100-3000/100-2900/200-2800/300-2700/400-2600	300-2700
113	APF WIDTH	NARROW/MEDIUM/WIDE	MEDIUM
114	CONTOUR LEVEL	-40 - 0 - 20	-15
115	CONTOUR WIDTH	1 - 11	10
116	IF NOTCH WIDTH	NARROW/WIDE	WIDE
117	SCP DISPLAY MODE	SPECTRUM/WATER FALL	SPECTRUM
118	SCP START CYCLE	OFF/3/5/10 (sec)	OFF
119	ASC DIAL SPEED	0.25kHz/0.5kHz/1kHz/2kHz/4kHz (sec)/DISABLE	4kHz/sec
120	SCP SPAN FREQ	50/100/200/500/1000 (kHz)	100kHz
121	PRMTRC EQ1 FREQ	OFF/100 - 700 (100/step)	OFF
122	PRMTRC EQ1 LEVEL	-20 - 0 - 10	5
123	PRMTRC EQ1 BWTH	1 - 10	10
124	PRMTRC EQ2 FREQ	OFF/700 - 1500 (100/step)	OFF
125	PRMTRC EQ2 LEVEL	-20 - 0 - 10	5
126	PRMTRC EQ2 BWTH	1 - 10	10
127	PRMTRC EQ3 FREQ	OFF/1500 - 3200 (100/step)	OFF
128	PRMTRC EQ3 LEVEL	-20 - 0 - 10	5
129	PRMTRC EQ3 BWTH	1 - 10	10
130	P-PRMTRC EQ1 FREQ	OFF/100 - 700 (100/step)	200
131	P-PRMTRC EQ1 LEVEL	-20 - 0 - 10	0

132	P-PRMTRC EQ1 BWTH	1 - 10	2
133	P-PRMTRC EQ2 FREQ	OFF/700 - 1500 (100/step)	800
134	P-PRMTRC EQ2 LEVEL	-20 - 0 - 10	0
135	P-PRMTRC EQ2 BWTH	1 - 10	1
136	P-PRMTRC EQ3 FREQ	OFF/1500 - 3200 (100/step)	2100
137	P-PRMTRC EQ3 LEVEL	-20 - 0 - 10	0
138	P-PRMTRC EQ3 BWTH	1 - 10	1
139	HF TX MAX POWER	5 - 100	100
140	50M TX MAX POWER	5 - 100	100
141	144M TX MAX POWER	0 - 50	50
142	430M TX MAX POWER	0 - 50	50
143	TUNER SELECT	OFF/INTERNAL/EXTERNAL/ATAS/LAMP	INTERNAL
144	VOX SELECT	M IC/DATA	MIC
145	VOX GAIN	0 - 100	50
146	VOX DELAY	30 - 3000 (msec)	500msec
147	ANTI VOX GAIN	0 - 100	50
148	DATA VOX GAIN	0 - 100	50
149	DATA VOX DELAY	30 - 3000 (msec)	100msec
150	ANTI DVOX GAIN	0 - 100	0
151	EMERGENCY FREQ TX	DISABLE/ENABLE	DISABLE

with my installation I had to make sure I had the correct TX and RX audio Codec selected and the correct Com Port  
Using windows device manager make sure you have selected the correct Enhanced USB port

#### WSJT-X Settings:

Rig = Yaesu FT-991

Poll = 1s

Serial port = Yaesu virtual CAT serial port

Baud rate = prefer 38400

Data bits = 8

Stop bits = 2

Handshake = None if rig CAT RTS is DISABLE or Hardware if rig CAT RTS is ENABLE

For Control Lines = both blank

PTT Method = CAT

**Mode = Data/Pkt**  
**Split Operation = Rig**

**With this set up you can use WSPR or JT9+JT65 dual mode Set the IF width control to maximum and IF SHIFT centred.**

Rig mode DATA-U,  
In the rig MENU  
CAT RATE = 38400 preferred  
CAT TOT = 10  
CAT RTS = Set as required by other software, WSJT-X CAT serial port handshake must match - see below  
DATA MODE = OTHERS  
OTHER DSP = 0  
OTHER SHIFT = 0  
DATA LCUT FREQ = OFF or 100Hz  
DATA LCUT SLOPE = 18dB/oct  
DATA HCUT FREQ = OFF or 4000Hz  
DATA HCUT SLOPE = 18dB/oct  
DATA IN SELECT = REAR  
DATA PTT SELECT = DAKY (not important as we use CAT PTT, so you can set as other software needs)  
DATA PORT SELECT = USB (assuming you are using a USB cable for audio and CAT)  
DATA OUT LEVEL = set to be just into ALC with "Tune" clicked and "Pwr" slider to top.

73

Bill  
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**Note you can use HRD as is by setting your com port baud rate to 38400 N,8,2  
and the correct enhanced com port and sound card drivers as used by WSJTX.**