

Yaesu FT-817 -- Servicemenu

28.10.2004

no.	content	description	alignment / remarks	Factory "HOME"	actually DG2IAQ	default DG2IAQ	SGC SG-239	DL5GBL	AM Mod K6XX	5/10 W Mod DK9VZ	HD-Elektr. DJ8UA	10W Mod DO1HMA	KE4IAP	s/n 1K45 K7HI	10W Mod K7HI	s/n 2L60 K7HI	10W Mod K7HI	DF2DD
1	HF1RXG	RX GAIN 1.8MHz		160	160	100		181		70		100	102	80		71		64
2	HF2RXG	RX GAIN 7MHz		128	128	80		91		68		90	87	74		69		63
3	HF3RXG	RX GAIN 21MHz	The higher, the more sensitive the RX is	128	128	105		123		81		100	120	89		83		71
4	50MRXG	RX GAIN 50MHz		128	128	80		66		67		75	72	76		72		64
5	VHFRXG	RX GAIN 144MHz		128	128	90		90		73		100	94	87		79		67
6	UHFRXG	RX GAIN 430MHz		128	150	117		117		93		110	82	155		77		67
7	SSB-S9	SSB S-Meter S9	The higher, the more shown level	80	66	66		70		66		70	65	65		66		66
8	SSB-FS	SSB S-Meter Vollausschlag		48	59	58		59		58		59	58	60		58		57
9	FM-S1	FM S-Meter S1	60 = S0	48	80	77		76		77		76	84	78		79		74
10	FM-FS	FM S-Meter Vollausschlag	The higher, the higher the S-value is	100	111	113		109		113		109	116	113		113		111
11	DISC-L	FM Center Meter (untere Grenze, -3kHz)	Press "A" at test signal given "-3kHz" and "+3kHz"	0	35	35		35		40		35	35	36		40		38
12	DISC-H	FM Center Meter (obere Grenze, + 3kHz)		255	69	69		69		71		69	68	69		72		71
13	FM-TH1	FM Squelch	open/close level without RX signal	50	72	75		82		72		50	79	77		76		76
14	FM-TH2	FM Squelch	(Threshold / Hysteresis)	64	75	75		82		72		82	80	77		74		76
15	FM-TI1	FM Squelch	on RX signal of 3 dBµ (Tight = Enge)	12	12	3		14		3		14	2	4		1		2
16	FM-TI2	FM Squelch		16	16	3		14		3		14	3	4		1		2
17	VCC	Power Supply Voltage	at Ub=13,8V	138	138	138		138		138		138	138	122		123		138
18	HF1-IC	Over-current Protection 1.8MHz		130	111	103		111		135	103	135	80	112	122	79	89	99
19	HF2-IC	Over-current Protection 7MHz		130	116	103		116		135	103	140	83	112	121	79	86	98
20	HF3-IC	Over-current Protection 21MHz	the lower, the more sensitive the protection is	130	111	106		111		135	106	140	83	114	123	82	86	102
21	50M-IC	Over-current Protection 50MHz		130	103	103		113		92	103	113	82	112	130	80	89	98
22	VHF-IC	Over-current Protection 144MHz		130	105	105		126		93	105	126	83	112		80		100
23	UHF-IC	Over-current Protection 430MHz		130	106	106		113		95	106	113	84	115		83		102
24	HF1-HI	RF Power HI 1.8MHz	5.0W (10.0W)	200	116	100		116		150	100	160	117	99	150	100	205	98
25	HF1-L3	RF Power L3 1.8MHz	2,5W (5,0W)	133	77	77		67		95	58	90	62	59	108	58	109	58
26	HF1-L2	RF Power L2 1.8MHz	1,0W (2,5W)	40	23	23		21		21	20	32	119	21	61	22	58	22
27	HF1-L1	RF Power L1 1.8MHz	0,3W (1,0W)	18	10	10		4		1	3	10	2	4	26	4	22	4

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28	HF2-HI	RF Power HI 7MHz	5,0W (10,0W)	200	105	95		119		160	105	190	119	104	173	105	180	101
29	HF2-L3	RF Power L3 7MHz	2,5W (5,0W)	133	65	70		65		95	60	105	63	60	106	58	100	58
30	HF2-L2	RF Power L2 7MHz	1,0W (2,5W)	40	21	19		21		21	21	50	20	21	60	21	58	21
31	HF2-L1	RF Power L1 7MHz	0,3W (1,0W)	18	9	0		3		1	3	10	2	4	24	4	21	4
32	HF3-HI	RF Power HI 21MHz	5,0W (10,0W)	200	101	95		117		170	99	190	116	99	158	100	190	98
33	HF3-L3	RF Power L3 21MHz	2,5W (5,0W)	133	60	55		63		100	60	100	60	57	106	57	100	57
34	HF3-L2	RF Power L2 21MHz	1,0W (2,5W)	40	20	19		20		25	20	45	18	20	60	20	57	21
35	HF3-L1	RF Power L1 21MHz	0,3W (1,0W)	18	9	0		2		1	2	10	1	4	25	4	20	4
36	50M-HI	RF Power HI 50MHz	5,0W (10,0W)	200	99	92		115		97	92	150	118	96	200	97	190	96
37	50M-L3	RF Power L3 50MHz	2,5W (5,0W)	133	66	55		64		54	61	80	66	52	102	55	104	53
38	50M-L2	RF Power L2 50MHz	1,0W (2,5W)	40	20	18		23		19	18	23	19	19	63	19	55	20
39	50M-L1	RF Power L1 50MHz	0,3W (1,0W)	18	9	0		1		7	1	5	2	7	26	6	19	7
40	VHF-HI	RF Power HI 144MHz	5,0W (10,0W)	200	100	100		140		78	90	100	95	76		83		86
41	VHF-L3	RF Power L3 144MHz	2,5W (5,0W)	133	59	59		93		44	52	66	52	42		46		50
42	VHF-L2	RF Power L2 144MHz	1,0W (2,5W)	40	23	23		28		13	16	20	16	13		14		16
43	VHF-L1	RF Power L1 144MHz	0,3W (1,0W)	18	3	0		12		3	3	5	0	3		3		3
44	UHF-HI	RF Power HI 430MHz	5,0W (10,0W)	200	105	113		103		96	94	103	106	97		94		95
45	UHF-L3	RF Power L3 430MHz	2,5W (5,0W)	133	63	63		68		56	55	68	58	57		55		57
46	UHF-L2	RF Power L2 430MHz	1,0W (2,5W)	40	21	29		21		23	19	21	20	23		22		23
47	UHF-L1	RF Power L1 430MHz	0,3W (1,0W)	18	9	0		9		6	6	9	4	6		6		6
48	HF1TXG	TX Gain 1.8MHz		128	85	76		67		90	65	100	63	77		64		91
49	HF2TXG	TX Gain 7MHz		128	75	65		62		90	65	100	59	64		61		66
50	HF3TXG	TX Gain 21MHz	the higher, the higher the TX amplification of driver is (alignment that 5 W FM come out for sure)	128	85	79		67		90	65	100	60	73		64		93
51	50MTXG	TX Gain 50MHz		128	90	95		89		94	65	90	70	108		83		243
52	VHFTXG	TX Gain 144MHz		128	85	95		79		92	65	85	72	98		71		133
53	UHFTXG	TX Gain 430MHz		128	85	126		69		116	65	85	64	140		79		114
54	HF1POM	Power Meter Sensitivity 1.8MHz		60	60	65		71		69	60	50	66	69		69		69
55	HF2POM	Power Meter Sensitivity 7MHz		60	60	62		72		70	60	50	68	70		70		70

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1	HF1RXG	RX GAIN 1.8MHz		160	160	100		70	160	65
2	HF2RXG	RX GAIN 7MHz		128	128	80		68	128	62
3	HF3RXG	RX GAIN 21MHz	The higher, the more sensitive the RX is	128	128	105		81	128	71
4	50MRXG	RX GAIN 50MHz		128	128	80		72	128	63
5	VHFRXG	RX GAIN 144MHz		128	128	90		74	79	65
6	UHFRXG	RX GAIN 430MHz		128	150	117		99	128	66
7	SSB-S9	SSB S-Meter S9	The higher, the more shown level	80	66	66		66	80	62
8	SSB-FS	SSB S-Meter Vollausschlag		48	59	58		58	48	56
9	FM-S1	FM S-Meter S1	60 = S0	48	80	77		77	48	75
10	FM-FS	FM S-Meter Vollausschlag	The higher, the higher the S-value is	100	111	113		111	100	109
11	DISC-L	FM Center Meter (untere Grenze, -3kHz)	Press "A" at test signal given "-3kHz" and "+3kHz"	0	35	35		37	0	36
12	DISC-H	FM Center Meter (obere Grenze, + 3kHz)		255	69	69		70	255	71
13	FM-TH1	FM Squelch	open/close level without RX signal	50	72	75		78	50	76
14	FM-TH2	FM Squelch	(Threshold / Hysteresis)	64	75	75		78	64	77
15	FM-TI1	FM Squelch	on RX signal of 3 dBµ (Tight = Enge)	12	12	3		3	12	2
16	FM-TI2	FM Squelch		16	16	3		3	16	2
17	VCC	Power Supply Voltage	at Ub=13,8V	138	138	138		138	138	138
18	HF1-IC	Over-current Protection 1.8MHz		130	111	103	135	103	130	95
19	HF2-IC	Over-current Protection 7MHz		130	116	103	135	102	130	94
20	HF3-IC	Over-current Protection 21MHz	The lower, the more sensitive the protection is	130	111	106	135	106	130	98
21	50M-IC	Over-current Protection 50MHz		130	103	103		103	130	95
22	VHF-IC	Over-current Protection 144MHz		130	105	105		103	130	96
23	UHF-IC	Over-current Protection 430MHz		130	106	106		106	130	99
24	HF1-HI	RF Power HI 1.8MHz	5,0W (10,0W)	200	116	100	132	101	200	101
25	HF1-L3	RF Power L3 1.8MHz	2,5W (5,0W)	133	77	77	100	59	133	59
26	HF1-L2	RF Power L2 1.8MHz	1,0W (2,5W)	40	23	23	60	21	40	22
27	HF1-L1	RF Power L1 1.8MHz	0,3W (1,0W)	18	10	10	7	4	18	4

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28	HF2-HI	RF Power HI 7MHz	5,0W (10,0W)	200	105	95	132	105	200	105
29	HF2-L3	RF Power L3 7MHz	2,5W (5,0W)	133	65	70	102	60	133	59
30	HF2-L2	RF Power L2 7MHz	1,0W (2,5W)	40	21	19	59	22	40	22
31	HF2-L1	RF Power L1 7MHz	0,3W (1,0W)	18	9	0	6	4	18	4
32	HF3-HI	RF Power HI 21MHz	5,0W (10,0W)	200	101	95	132	101	200	102
33	HF3-L3	RF Power L3 21MHz	2,5W (5,0W)	133	60	55	104	58	133	58
34	HF3-L2	RF Power L2 21MHz	1,0W (2,5W)	40	20	19	58	21	40	21
35	HF3-L1	RF Power L1 21MHz	0,3W (1,0W)	18	9	0	6	4	18	4
36	50M-HI	RF Power HI 50MHz	5,0W (10,0W)	200	99	92		99	200	99
37	50M-L3	RF Power L3 50MHz	2,5W (5,0W)	133	66	55		56	133	56
38	50M-L2	RF Power L2 50MHz	1,0W (2,5W)	40	20	18		19	40	20
39	50M-L1	RF Power L1 50MHz	0,3W (1,0W)	18	9	0		7	18	7
40	VHF-HI	RF Power HI 144MHz	5,0W (10,0W)	200	100	100		79	200	95
41	VHF-L3	RF Power L3 144MHz	2,5W (5,0W)	133	59	59		44	133	53
42	VHF-L2	RF Power L2 144MHz	1,0W (2,5W)	40	23	23		14	40	17
43	VHF-L1	RF Power L1 144MHz	0,3W (1,0W)	18	3	0		3	18	3
44	UHF-HI	RF Power HI 430MHz	5,0W (10,0W)	200	105	113		98	200	101
45	UHF-L3	RF Power L3 430MHz	2,5W (5,0W)	133	63	63		57	133	60
46	UHF-L2	RF Power L2 430MHz	1,0W (2,5W)	40	21	29		22	40	25
47	UHF-L1	RF Power L1 430MHz	0,3W (1,0W)	18	9	0		6	18	6
48	HF1TXG	TX Gain 1.8MHz		128	85	76	90	76	128	58
49	HF2TXG	TX Gain 7MHz		128	75	65	90	65	128	55
50	HF3TXG	TX Gain 21MHz	the higher, the higher the TX amplification of driver is (alignment that 5 W FM come out for sure)	128	85	79	90	79	128	59
51	50MTXG	TX Gain 50MHz		128	90	95		95	128	68
52	VHFTXG	TX Gain 144MHz		128	85	95		95	128	60
53	UHFTXG	TX Gain 430MHz		128	85	126		126	128	60
54	HF1POM	Power Meter Sensitivity 1.8MHz		60	60	65		69	60	69
55	HF2POM	Power Meter Sensitivity 7MHz		60	60	62		70	60	70

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56	HF3POM	Power Meter Sensitivity 21MHz	the lower, the more level on power meter (alignment to 8 dots)	60	60	62		73	60	73
57	50MPOM	Power Meter Sensitivity 50MHz		60	60	60		71	60	71
58	VHFPM	Power Meter Sensitivity 144MHz		60	60	53		58	60	62
59	UHFPM	Power Meter Sensitivity 430MHz		60	60	50		69	60	73
60	ALC1-M	ALC Meter	measured: 180 -> value + 4 dots	160	184	180		180	160	189
61	ALC-M	ALC Meter		80	122	122		122	80	122
62	HF1-RV	Reverse ALC 1.8MHz		25	10	10		7	25	3
63	HF2-RV	Reverse ALC 7MHz		25	15	15		12	25	11
64	HF3-RV	Reverse ALC 21MHz	the lower, the more sensitive protection and reduction of output power	25	20	20		18	25	18
65	50M-RV	Reverse ALC 50MHz		25	20	20		17	25	17
66	VHF-RV	Reverse ALC 144MHz		25	11	10		11	25	7
67	UHF-RV	Reverse ALC 430MHz		25	25	25		32	25	29
68	CW-CAR	Carrier Level CW		255	255	255		255	255	255
69	AM-CAR	Carrier Level AM	the lower the higher modulation level	128	200	225		227	128	218
70	DEV-W	FM Modulation	deviation = 5 kHz	200	200	180		212	200	210
71	DEV-N	FM Modulation	deviation = 2.5 kHz	100	110	115		107	100	104
72	M-MTR	FM Modulation	the lower, the more meter level	128	128	90		176	128	176
73	CTCSS	FM Modulation	the higher, the more deviation	128	178	178		180	128	178
74	DCS	FM Modulation	the higher, the more deviation	128	135	135		135	128	135
75	LSB-CP	SSB Carrier Point	edge where RF output on 150 Hz + 2.600 Hz test	0	15	-6		0	0	-3
76	USB-CP	SSB Carrier Point	tones is equal (depends on IF filter)	0	-15	-8		254	0	-5
						with INRAD 2.3				
		A+B+C + Power on = start alignment menu								
		Power off = leave alignment menu WITHOUT STORING								
		HOME = pre-setting factory defaults on each separate content --- see remarks (**)								
		A = auto measuring of levels and storing them								
		F = leave alignment menu WITH STORING ALL PARAMETERS								