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MARS mod of the FT-857

Author: Hanno Vogels, DG8JZ - Hanno@dg8jz.de.MODIFICATION.NET

FT-857 (US version)

Modification for TX:

1.8-56MHz, 137-164MHz, 420-470MHz

1. Remove the seven screws affixing the top panel of the transceiver, and gently lift it upward.
2. Carefully remove the small 2-pin speaker plug from the left rear corner of the transceiver interior then remove the top case and set it aside for the moment.
3. Locate the nine jumpers about 2" from the front edge of the main unit and about 3/4" from the left edge. For 144/430MHz expansion only, remove the jumper at JP1002, leaving the other jumpers alone. For complete expansion per the above listing, place jumpers at JP1007/1008/1009, and remove the jumpers at JP1001/1002/1003/1004/1005 (leave the jumper at JP1006 in place). **NOTE THE UNUSUAL SEQUENCE FOR THE NUMBERING.**
4. Replace the top panel; don't forget to re-connect the speaker lead removed in step 2.
5. With the transceiver off, press and hold in the [F] and [V/M] keys; while holding them in, turn the radio on. Modification is now complete.





Hanno Vogels, DG8JZ

Date: 08-04-2003

User comment

From: [VE3NL](#)

Subject: OFFSET REPEATER FUTURE DISABLED

Hi
Just wondering is it normal for me to loose my auto repeater - + ?
What other things would i loose with this mod?
THNX 73

Date: 21-04-2003

User comment

From: [Pascal](#)

Subject: Jumper number

----BACK OF RADIO-----
1007 - Jumper
1008 - Jumper
1009 - Jumper
1004 - Blank
1005 - Blank
1006 - Jumper
1001 - Blank
1002 - Blank
1003 - Blank
----FRONT OF RADIO-----

73'

Date: 08-05-2003

User comment

From: [wa4bmq](#)

Subject: FT 857 Expansion mod

Is the mod for the 144/430 separate from the HF mod.
In other words can you just modify the HF and leave the vhf/ufh un modified. Thank you

Date: 09-05-2003

User comment

From: [wa4bmq](#)

Subject: FT857 mod location

Can you give me more complete information of where the jumper strip is located. Does the jumper strip contain removable jumper or do you have to cut them. Thank you
73 John, wa4bmg

Date: 20-05-2003 **User comment** **From:** [Chris N5CWM](#)
Subject: JUMPERS

The jumpers are solder pads. Mine has three jumpers in place just like the photo. I am assuming that plain solder can be used to jumper the pads. Is that so? There are three black unmarked SMTs in place, and I am guessing that these are just jumpers soldered in.

Date: 26-05-2003 **User comment** **From:** [pio](#)
Subject: 76-108

Hi
A question regarding the band 76-108 Mhz the mode in this segment is only WFM is possible use a FM (NFM)?

Bye

Date: 08-06-2003 **User comment** **From:** [Mixmandan](#)
Subject: Yaesu FT-857 UK Modification

Does anyone know if the procedure for modification of the US version is the same for the UK version and if not can anyone let me know how to convert so it transmits on all frequencies.

Cheers

Dan

Date: 17-06-2003 **User comment** **From:** [ve3ufi](#)
Subject: lost menu items

After doing the mod for vhf/uhf I lost a number of menu items associated with memory, arbs, beacon etc.. Is it possible to get these back without restoring the jumper?

Date: 24-06-2003 **User comment** **From:** [fred](#)
Subject: Any Success?

Well the mod is listed but has anyone actually performed or verified the posting? Any negative results? I called Yaesu today and verified that there is a MARS modification. Actual Yaesu faxes/documents would verify the above posting. I'm sure I'm not the only one waiting.....

Date: 26-07-2003 **User comment** **From:** [fred](#)
Subject: Verified!

I have seen the mod directly from Yaesu. It is correct. For what its worth. 60 meters here I come.

This modification has been read 11577 times.

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06-04-2003

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Installing The FT-857 Options

Author: Dave Fifield (AD6A) - dave@ad6a.com.MODIFICATION.NET

Here are some photos showing the procedure to install the optional filters (and a few showing off

the color display), TXCO-9 and DSP-2 to the Yaesu FT-857 rig. There's nothing hard about installing any of these modifications. The instructions in the Yaesu manual are fairly comprehensive and the menu options to select them are easy to get right.

Make sure to get the filters and TXCO-9 round the right way. As with it's big brother, the FT-897, it's worth noting that the FT-857 optional filters are labeled with different part numbers than are on the boxes they come in! The YF-122S is marked XF-119SN and the YF-122CN is marked XF-119CN.

The schematic of the FT-857 is almost identical to the FT-897. Both rigs support the ATAS-100 and ATAS-120 antennas with every option you can think of for diplexer/separate antenna use. Please email me if you have any questions or comments. Click on any of the pictures to see it in full detail. Hover your mouse over the pictures to see my comments on it.







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This article can also be found at <http://www.ad6a.com/FT857options.html>.

Date: 18-08-2003

User comment

From: [KD5UJX](#)

Subject: SSB filter

Is the SSB filter worth the \$150.00? Won't the DSP do the job?

This modification has been read 8351 times.

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23-04-2003

Second menu for FT-857

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Author: - pascal.34@bluewin.ch. [MODIFICATION.NET](#)

There is a second set of menu functions F01 to F74.

WARNING: changing these will reset all the memories.

I want to warn you do not change these values unless you are sure of what you are doing. To get

them turn transceiver off. Press and hold the A,B,C keys; while holding them in, press and hold in the [PWR] switch for 1/2 second to turn the transceiver On. Now let go of all keys. Attention, for menu NO-017. Input voltage 13.8V = 138 to calibre voltmeter. Press F key to finish.

Function Setting in my radio

Adjust-No	Function	Setting	Mode	Frequency
NO-001	HF1-RXG	118	CW	1.800.00
NO-002	HF2-RXG	91	CW	7.068.19
NO-003	HF3-RXG	133	CW	21.225.13
NO-004	50M-RXG	106	CW	50.000.00
NO-005	VHF-RXG	77	CW	145.437.50
NO-006	UHF-RXG	103	CW	438.900.00
NO-007	SSB-S9	61	CW	21.225.13
NO-008	SSB-FS	54	CW	21.225.13
NO-009	FM-S1	68	FM	145.437.50
NO-010	FM-FS	99	FM	145.437.50
NO-011	DISC-L	50	FM	145.437.50
NO-012	DISC-H	79	FM	145.437.50
NO-013	FM-TH1	100	FM	145.437.50
NO-014	FM-TH2	100	FM	145.437.50
NO-015	FM-TI1	10	FM	145.437.50
NO-016	FM-TI2	10	FM	145.437.50
NO-017	VCC	138	FM	145.437.50
NO-018	HF1-IC	83	CW	1.800.00
NO-019	HF2-IC	80	CW	7.068.19
NO-020	HF3-IC	87	CW	21.225.13
NO-021	50M-IC	84	CW	50.000.00
NO-022	VHF-IC	72	CW	145.437.50
NO-023	UHF-IC	74	CW	438.900.00
NO-024	HF1-PO-MAX	165	CW	1.800.00
NO-025	HF1-PO-MID2	105	CW	1.800.00
NO-026	HF1-PO-MID1	31	CW	1.800.00
NO-027	HF1-PO-MIN	13	CW	1.800.00
NO-028	HF2-PO-MAX	159	CW	7.068.19
NO-029	HF2-PO-MID2	102	CW	7.068.19
NO-030	HF2-PO-MID1	29	CW	7.068.19
NO-031	HF2-PO-MIN	11	CW	7.068.19
NO-032	HF3-PO-MAX	158	CW	21.225.13
NO-033	HF3-PO-MID2	101	CW	21.225.13
NO-034	HF3-PO-MID1	29	CW	21.225.13
NO-035	HF3-PO-MIN	11	CW	21.225.13
NO-036	50M-PO-MAX	145	CW	50.000.00
NO-037	50M-PO-MID2	92	CW	50.000.00
NO-038	50M-PO-MID1	47	CW	50.000.00
NO-039	50M-PO-MIN	8	CW	50.000.00
NO-040	VHF-PO-MAX	87	CW	145.437.50
NO-041	VHF-PO-MID	43	CW	145.437.50
NO-042	VHF-PO-MIN	7	CW	145.437.50
NO-043	UHF-PO-MAX	112	CW	438.900.00
NO-044	UHF-PO-MIN	16	CW	438.900.00
NO-045	HF1-TXG	48	USB	1.800.00
NO-046	HF2-TXG	38	USB	7.068.19
NO-047	HF3-TXG	43	USB	21.225.13
NO-048	50M-TXG	40	USB	50.000.00
NO-049	VHF-TXG	47	USB	145.437.50
NO-050	UHF-TXG	49	USB	438.900.00
NO-051	ALC1-M	203	USB	21.225.13
NO-052	ALC-M	85	USB	21.225.13
NO-053	HF1-REV-ALC	61	CW	1.800.00
NO-054	HF2-REV-ALC	56	CW	7.068.19
NO-055	HF3-REV-ALC	50	CW	21.225.13
NO-056	50M-REV-ALC	47	CW	50.000.00
NO-057	VHF-REV-ALC	62	CW	145.437.50
NO-058	UHF-REV-ALC	57	CW	438.900.00

NO-059	CW-CAR-LEVEL	144	CW	21.225.13
NO-060	AM-CAR-LEVEL	125	AM	21.225.13
NO-061	DEV-W	216	FM	145.437.50
NO-062	DEV-N	110	FM	145.437.50
NO-063	MOD-MTR	200	FM	145.437.50
NO-064	DTMF-DEV	10	FM	145.437.50
NO-065	CTCSS-DEV	233	FM	145.437.50
NO-066	DCS-DEV	168	FM	145.437.50
NO-067	LSB-CAR-POINT	-7	LSB	21.225.13
NO-068	USB-CAR-POINT	+5	USB	21.225.13
NO-069	VSWR2 at 10W	17	CW	14.257.90
NO-070	VSWR3 at 10W	42	CW	14.257.90
NO-071	ATAS-TEST		LSB	14.257.90
NO-072	AMTR-TEST		LSB	14.257.90
NO-073	HTEMP-THRESHOLD	38	LSB	14.257.90
NO-074	FTEMP-THRESHOLD	102	LSB	14.257.90

Date: 11-07-2003

User comment

From: [N2AQS](#)

Subject: MARS MOD

I did the mod exactly as described. Used solder to jump the pads. Works now on all MARS frequencies. No problems at all so far.....

[N2AQS Vertical Dipoles](#)

N2AQS/AFA4TZ

Date: 31-07-2003

User comment

From: [Peter \(M0JFK\)](#)

Subject: Audio Amp

Need a modification method to remove the dead zone on the AF switch.
Example no Audio output from the 6 O'clock position to the 11 O'clock position on the volume switch.

Date: 24-10-2003

User comment

From: [Mitch N2rga](#)

Subject: What does each 2nd menu item mean

What does each 2nd menu item mean? and what does it do if you adjust it?

Mitch

This modification has been read 8221 times.

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