

Kenwood TH-F6 A (TH F6A THF6A) Service Menu

Yes! This little toy is having yet a ??????Service Menu?????? packed inside. Unfortunately, this is not for everybody. It is only for the ??????I MUST open any electronic box I own?????? kind of guy. The service menu switch is located inside the transceiver, on the keyboard PCB, close to the ??????1?????? and ??????4?????? keys.

To find the switch contacts you must open the case as described in the [MARS/CAP modification page](#).

The ??????Service menu?????? switch contacts are shown in the next picture:



If you have opened your toy, what about having an external switch for ?????Service menu????? Check out my [external ?????Service Menu????? switch page](#).

With or without the external switch, you will be able now to start the TH-F6 transceiver and close momentary the ?????Service Menu????? switch. You may also keep the ?????Service Menu????? switch pressed when powering on the TH-F6. In this case, flashing ?????PF1????? will appear on the screen. Any other key but ?????Service menu????? will leave the transceiver in normal mode. Pressing ?????Service menu????? again will make the ?????rectangled minus????? offset symbol flash and any key pressed will put the transceiver in ?????Service mode?????.

NOW, DO NOT, I repeat, DO NOT PRESS ?????OK?????

If you do, the transceiver will not die, but will report empty battery all the time ;-)

Before going further, a few notes for you:

1. When I write ?????do not do that?????, try not to. If you will (and I would :), you will write me a wet letter about your broken transceiver. I will enjoy it, however, I may be out of my webmail, having pictures in Alaska and unable to respond ;-)

2. In **Service mode**, pressing the **Multi-scroll** right/left will navigate forward/backward from one service menu to another. Pressing the **Multi-scroll** up/down will change the frequency/memory channel.
3. In **Service mode**, rotating the **Tuning control** will change the service menu value. Some service menus are not modified this way. In this case pressing **Ok** will store the current value (displayed usually on the left part of the screen). This is bad, because you may need some special laboratory devices in order to have your TH F6 working again. So, pay attention with that **joy-stick** ;-). Sometimes when you try to press right, you may press **Ok**. This is the **sad-stick** hidden feature:) For other menus you may be not able to set any value, depending on the current **Band**. Change the band and you will see those stars (******) becoming numbers.
4. In **Service mode**, the **LAMP** key will light on but will activate the **Menu** in the same time.
5. Some service menus carry different values for each **Band**. Changing the **Band** in **VFO A** or **VFO B** will allow you to see/change values for every **Band**.
6. Pressing **A/B** will change the current VFO, giving you access to all eleven bands(in VFO B) or only to the VFO's A bands. For some settings will be handy to switch only between VFO's A bands (using **BAND** key).
7. Before changing thinks, try to write down those values. Pay attention, some values are different for each **Band** and you have eleven of those. However, some of the values are not critical and can be restored from my TH F6 values shown later.
8. Please share with us your findings, subscribing the results on our Yahoo Group. I hope one of these days I'll have a **Submit** I broke my radio email page on my website.

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Now the rules being established, let's advance in our **Service menu** journey. As you remember, we just pressed instantly the **Service menu** switch and now we see on our little screen one line with the current VFO and one line with **Service menu**. The TH-F6 is having 41 service menus. Following, my default values and comments.

Service menu 1: VOLT:55 :45

The first value is the current voltage value. The second one is the voltage value corresponding for the **Empty battery** status. Pressing **Ok** will store the current value. This is bad, since your current value is usually greater than default value and after that your transceiver will report **Empty battery** on the current value. If accidentally **Ok** pressed, you will need a variable external power source. Just plug in the jack and careful vary the voltage until the current value is 45. Press **Ok** and all is fine;-)
My transceiver is working from about 4.7V. However, on this voltage, the transmit power is lower and, on max volume, the audio will start howling. From 5.4V the audio is fine, the battery is not charged and the transceiver remain cold.

Service menu 2: TCXO: 40 :40

Service menu 3: BPF:** f1:**:

Band depending values. A default value for each band follows:

b1-> BPF:24 f1:24
b2-> BPF:03 f1:03
b3-> BPF:22 f1:22
b4-> BPF:22 f1:22
b5-> BPF:18 f1:18
b6-> BPF:18 f1:18
b7-> BPF:18 f1:18
b8-> BPF:18 f1:18
b9-> BPF:** f1:**
b10-> BPF:** f1:**
b11-> BPF:** f1:**

i Service menu 4: BPF: f2:**:**

Band depending values. A default value for each band follows:

b1-> BPF:59 f2:59
b2-> BPF:61 f2:61
b3-> BPF:71 f2:71
b4-> BPF:71 f2:71
b5-> BPF:44 f2:44
b6-> BPF:44 f2:44
b7-> BPF:44 f2:44
b8-> BPF:44 f2:44
b9-> BPF:** f2:**
b10-> BPF:** f2:**
b11-> BPF:** f2:**

i Service menu 5: BPF: f3:**:**

Band depending values. A default value for each band follows:

b1-> BPF:C2 f3:C2
b2-> BPF:BC f3:BC
b3-> BPF:9D f3:9D
b4-> BPF:9D f3:9D
b5-> BPF:77 f3:77
b6-> BPF:77 f3:77
b7-> BPF:77 f3:77
b8-> BPF:77 f3:77
b9-> BPF:** f3:**
b10-> BPF:** f3:**
b11-> BPF:** f3:**

i Service menu 6: 2nd:39-25:39

i Service menu 7: 2nd:8b 0:8b

; Service menu 8: 2nd:e8+25:e8

; Service menu 9: BFO:72 CW:FF

; Service menu 10: BFO:9B LS:9B

; Service menu 11: BFO:09 US:09

; Service menu 12: SQ:varies 34-37 1:27

The first value varies and is band depending. A default value for each band follows:

b1-> SQ: varies 54-57 1:FF

b2-> SQ: varies 54-57 1:1F

b3-> SQ: varies 54-57 1:27

b4-> SQ: varies 54-57 1:FF

b5-> SQ: varies 54-57 1:1B

b6-> SQ: varies 54-57 1:23

b7-> SQ: varies 54-57 1:FF

b8-> SQ: varies 54-57 1:2C

b9-> SQ: varies 54-57 1:27

b10-> SQ: varies 54-57 1:FF

b11-> SQ: varies 54-57 1:2D

; Service menu 13: SQ varies 34-35 2:20 The first value varies and is band depending. A default value for each band follows:

b1-> SQ: varies 53-53 2:FF

b2-> SQ: varies 34-35 2:1A

b3-> SQ: varies 34-35 2:20

b4-> SQ: varies 34-35 2:FF

b5-> SQ: varies 34-35 2:18

b6-> SQ: varies 34-35 2:1C

b7-> SQ: varies 34-35 2:FF

b8-> SQ: varies 34-35 2:24

b9-> SQ: varies 34-35 2:20

b10 -> SQ: varies 34-35 2:FF

b11-> SQ: varies 34-35 2:25

; Service menu 14: SM:varies 37-38 S1:5A

The first value varies and is band depending. A default value for each band follows:

b1-> SM: varies 42-43 S1:69

b2-> SM: varies 37 S1:64

b3-> SM: varies 37 S1:5B

b4-> SM: varies 37 S1:1B

b5-> SM: varies 37 S1:6F

b6-> SM: varies 37 S1:64

b7-> SM: varies 37 S1:1A
b8-> SM: varies 37 S1:4A
b9-> SM: varies 37 S1:5A
b10-> SM: varies 37 S1:1A
b11-> SM: varies 37 S1:46

Service menu 15: SM: varies 37-38 S9:81

The first value varies and is band depending. A default value for each band follows:

b1-> SM: varies 37-38 S9:92
b2-> SM: varies 37-38 S9:89
b3-> SM: varies 37-38 S9:82
b4-> SM: varies 37-38 S9:6D
b5-> SM: varies 37-38 S9:87
b6-> SM: varies 37-38 S9:82
b7-> SM: varies 37-38 S9:62
b8-> SM: varies 37-38 S9:6B
b9-> SM: varies 37-38 S9:81
b10-> SM: varies 37-38 S9:50
b11-> SM: varies 37-38 S9:6E

Service menu 16: P: BAf1:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> P:14 BAf1:14
b8-> P:18 BAf1:18
b9-> P:19 BAf1:19

Service menu 17: P: BAf2:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> P:14 BAf2:14
b8-> P:18 BAf2:18
b9-> P:19 BAf2:19

Service menu 18: P: BAf3:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> P:14 BAf3:14
b8-> P:18 BAf3:18
b9-> P:19 BAf3:19

Service menu 19: P: 7f1:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> P:14 7f1:14
b8-> P:18 7f1:18
b9-> P:19 7f1:19

- i Service menu 20: P:** 7f2:****
Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:
b6-> P:14 7f2:14
b8-> P:18 7f2:18
b9-> P:19 7f2:19

- i Service menu 21: P:** 7f3:****
Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:
b6-> P:14 7f3:14
b8-> P:18 7f3:18
b9-> P:19 7f3:19

- i Service menu 22: P:** 13f1:****
Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:
b6-> P:24 13f1:24
b8-> P:29 13f1:29
b9-> P:2C 13f1:2C

- i Service menu 23: P:** 13f2:****
Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:
b6-> P:24 13f2:24
b8-> P:29 13f2:29
b9-> P:2C 13f2:2C

- i Service menu 24: P:** 13f3:****
Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:
b6-> P:24 13f3:24
b8-> P:29 13f3:29
b9-> P:2C 13f3:2C

- i Service menu 25: BAL:** f1:****
Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:
b6-> BAL:40 f1:40
b8-> BAL:33 f1:33
b9-> BAL:32 f1:32

- i Service menu 26: BAL:** f2:****
Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:
b6-> BAL:3F f2:3F
b8-> BAL:33 f2:33
b9-> BAL:32 f2:32

- i Service menu 27: BAL:** f3:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> BAL:3E f3:3E

b8-> BAL:33 f3:33

b9-> BAL:33 f3:33

i Service menu 28: MAX: f1:****

Deviation level. For bigger modulation, increase this value. Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> MAX:7C f1:7C

b8-> MAX:3D f1:3D

b9-> MAX:1D f1:1D

i Service menu 29: MAX: f2:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> MAX:7A f2:7A

b8-> MAX:3D f2:3D

b9-> MAX:2D f2:2D

i Service menu 30: MAX: f3:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> MAX:7B f3:7B

b8-> MAX:3D f3:3D

b9-> MAX:2E f3:2E

i Service menu 31: TON: f1:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> TON:96 f1:96

b8-> TON:63 f1:63

b9-> TON:30 f1:30

i Service menu 32: TON: f2:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> TON:98 f2:98

b8-> TON:63 f2:63

b9-> TON:30 f2:30

i Service menu 33: TON: f3:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> TON:95 f3:95

b8-> TON:63 f3:63

b9-> TON:2F f3:2F

i Service menu 34: DCS: f1:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> DCS:6A f1:6A

b8-> DCS:45 f1:45

b9-> DCS:23 f1:23

ı **Service menu 35: DCS:** f2:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> DCS:6A f2:6A

b8-> DCS:45 f2:45

b9-> DCS:23 f2:23

ı **Service menu 36: DCS:** f3:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> DCS:6B f3:6B

b8-> DCS:45 f3:45

b9-> DCS:22 f3:22

ı **Service menu 37: 96:** f1:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> 96:7A f1:7A

b8-> 96:53 f1:53

b9-> 96:2A f1:2A

ı **Service menu 38: 96:** f2:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> 96:78 f2:78

b8-> 96:53 f2:53

b9-> 96:2B f2:2B

ı **Service menu 39: 96:** f3:****

Band depending value. For Rx only bands, the values are **. A default value for each Tx band follows:

b6-> 96:7B f3:7B

b8-> 96:53 f3:53

b9-> 96:2A f3:2A

ı **Service menu 40: VOX:00 1:46**

ı **Service menu 41: VOX:00 9:1A**

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