

EXTENDED FREQ MOD FOR ALINCO DJ-C6E

Version 1.10 – January 16th 2010

This document shows how to modificate an ALINCO DJ-C6E into a DJ-C6T.

Degree of difficulty of this mod:

Easy! (to achieve in 5 min.)



The author of this article disclaims any direct or indirect liability, resulting from doing this modification. You do use this information fully at your own risk!

There is no warranty that the modification will work for all ALINCO DJ-C6E HTs. If you open the case, you will lose the factory or dealers guarantee for sure!

Even you should consider, that you could damage your ALINCO DJ-C6E, causing it to no longer functioning properly!

However the author of this article did modify his ALINCO DJ-C6E with success...

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The table below shows the frequency range for the “E” and the “T” version.

After this modification you ALINCO DJ-C6E will have the full frequency capability of the “T” model.

●General

TX Frequency Range	VHF	144.000 ~ 147.995MHz (T version)
		144.000 ~ 145.995MHz (E version)
	UHF	420.000 ~ 449.995MHz (T version)
		430.000 ~ 439.995MHz (E version)
RX Frequency Range	VHF	108.000 ~ 173.995MHz (T version)
		144.000 ~ 145.995MHz (E version)
	UHF	380.000 ~ 511.995MHz (T version)
		430.000 ~ 439.995MHz (E version)
Modulation		F3E
Antenna Impedance		50 ohm (SMA)
Rated Voltage	External Terminal	3.7 ~ 6.0 VDC
	Battery Terminal	3.7 VDC
Current	Transmit	DC6.0V: VHF Approx. 0.28A, UHF Approx. 0.32A
		3.7V (EBP-58N): VHF Approx. 0.25A, UHF Approx. 0.30A
	Receive	Approx. 70mA
	Battery Save	Approx. 19mA
Frequency Stability		-7 ~ +3 ppm (-10 ~ 60°C)
Dimensions (Projection exclusive)		58(W) x 96(H) x 14.5(D) mm
Weight		Approx. 102g (EBP-58N inclusive)

TX-Frequency-Range of my DJ-C6 after this modification is different to the table above:

136.000 – 141.995 MHz

142.000 – 173.995 MHz

400.000 – 429.995 MHz

430.000 – 473.995 MHz

The RX-Frequency-Range is equal to the table above.

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Step 1:

turn the ALINCO DJ-C6E off

Step 2:

remove the battery

Step 3:

remove the screws shown below and open the back-case carefully:

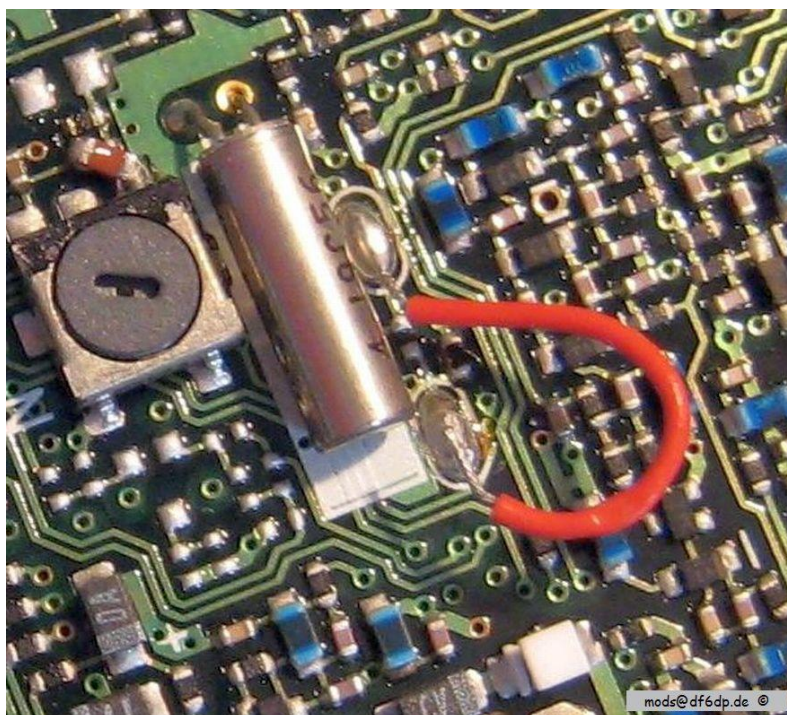


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Step 4:

identify the tiny red wire, close to the crystal in the middle of the PCB:



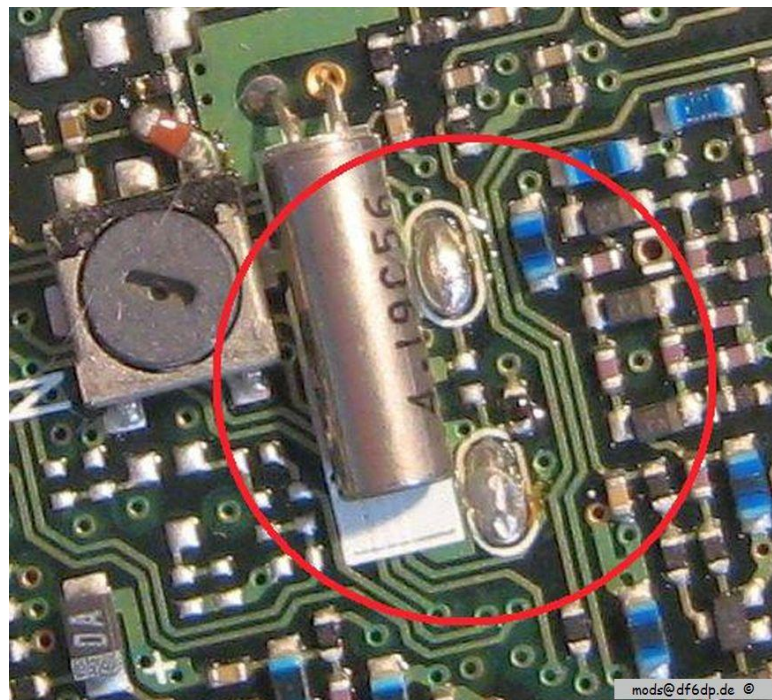
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Step 5:

remove this tiny red wire (unsolder or cut through):

A magnifying glass could be assistant! **Pay attention to the undersized SMD parts on the PCB!**



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Step 6:



assembly the back-cover and battery

Step 7:

once the modification is done, the ALINCO DJ-C6 has to be reset:

8.2 Resetting

When you reset the transceiver, all settings are returned to the initial (default) factory setting. Please be aware that the memory data will be deleted also when the write protect setting is off.

1. Press and hold the  key and press the  key to turn the power on.
2. Release the keys when all icons are displayed.
The transceiver returns to the initial VFO mode.

●Factory Setting

- VFO Frequency VHF :145.000MHz
L-UHF :380.000MHz (T version)
UHF :445.000MHz (T version)
UHF :433.000MHz (E version)
Air :118.000MHz (T version)
- Memory Channel 0 - 199ch blank
- Audio Volume 10
- Squelch Level 3
- Battery Save ON
- Scan Resume Condition Busy Scan
- Beep ON
- Tuning Step Auto
- Shift OFF
- Shift Range VHF :0.6MHz
UHF :5.0MHz
- Tone Squelch OFF
- Tone Frequency 88.5Hz
- APO, BELL OFF

Congratulations to your new ALINCO DJ-C6T !!!



ENJOY!

[All positive feedback welcome!](#)