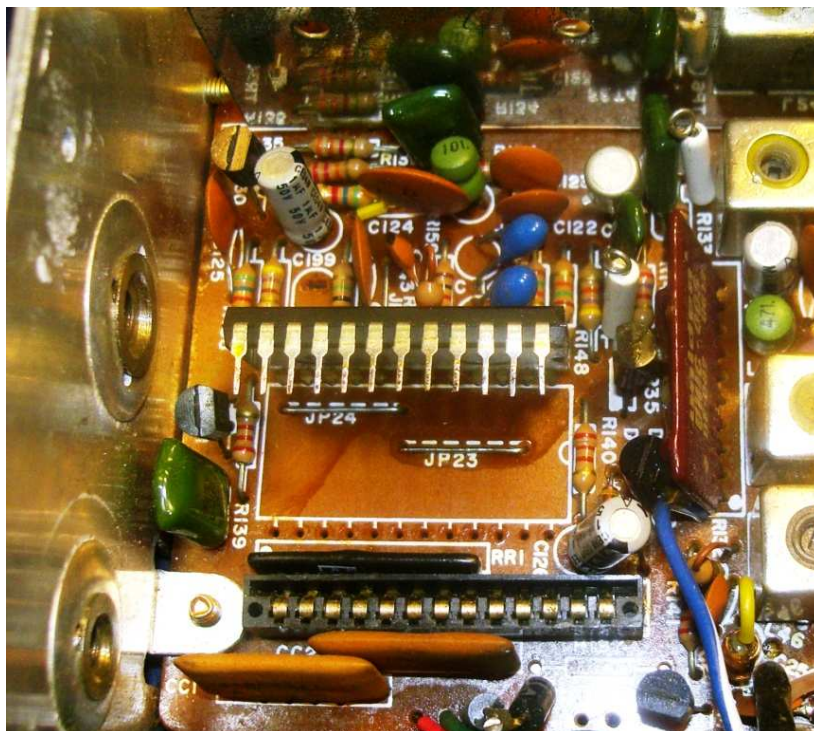
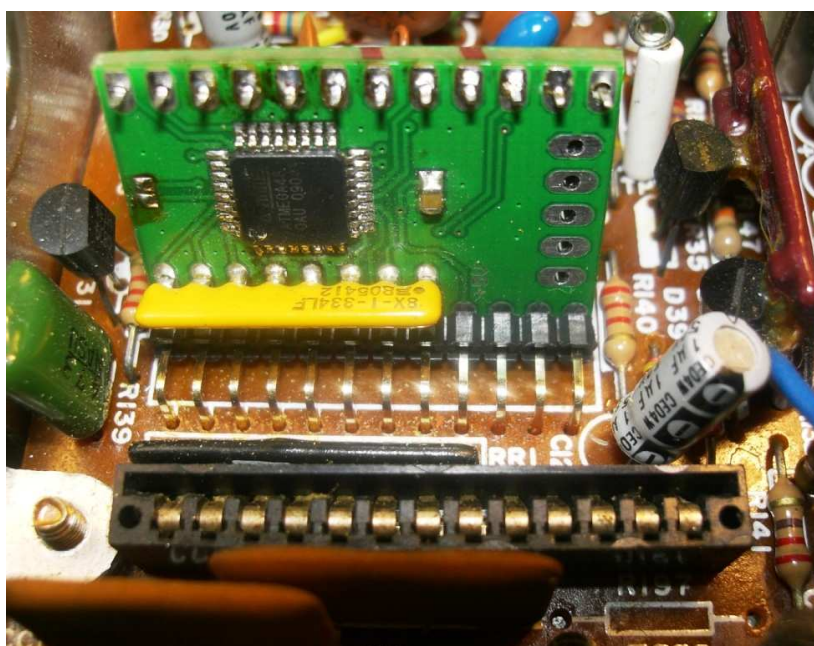


Expansion Module for uPD858

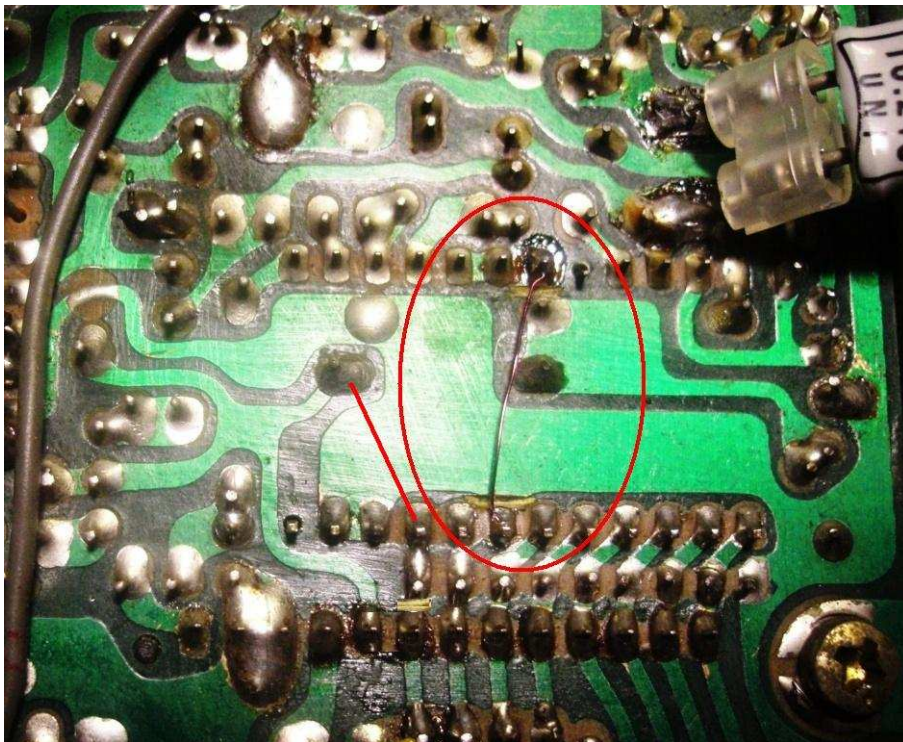
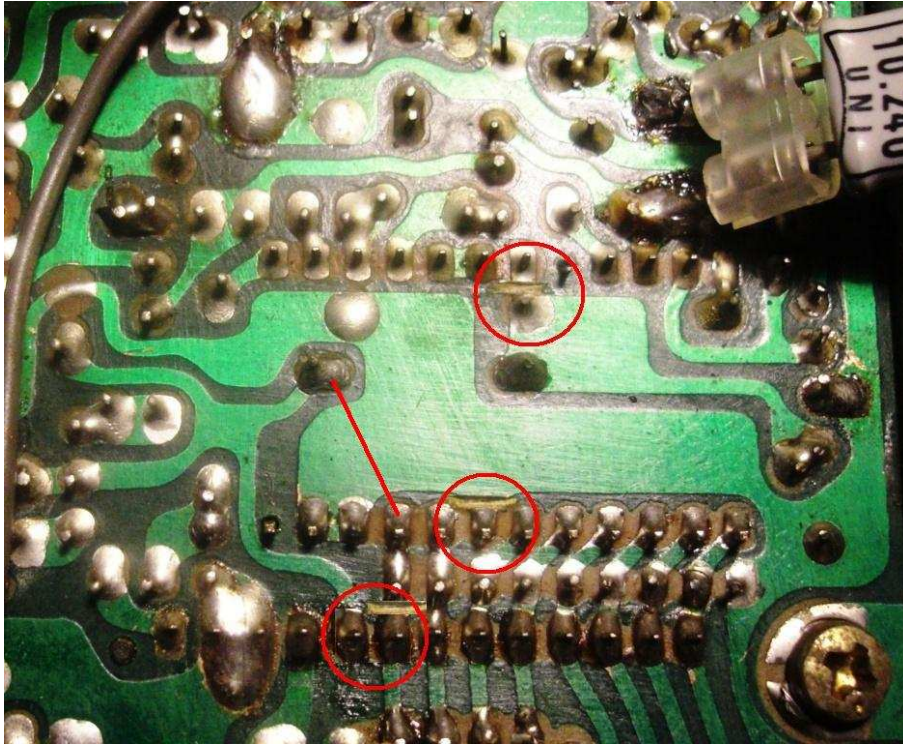
Remove the 10.240 crystal temporary to clear space behind the chip. De-solder the uPD858 chip on the front side, pins 13-24, and lift it up as shown in the picture below.



Fit the module now between pcb and chip as shown in the picture below and solder the uPD858 on the top side of the module.



At the bottom of the radio, disconnect pin 21 from its original wire and connect it to +5V.
Separate pins 7 and 19 from their previous connections and put them together.



Don't forget to reconnect the 10.240 crystal.

The 5 pins on the right side of the module can be switched to ground **(ONLY GND)** to switch between the bands.

If no pins connected, the radio works in normal band -C- 26.965 – 27.405

The pins from up to down:

- (1) GND (but any other ground may be used for switching)
- (2) +5k, increases frequency by 5 kHz
- (3) Lower band, (B) 26.515 – 26.965
- (4) Upper band, (D) 27.415 – 27.855
- (5) +10k, increases frequency by 10 kHz

When switching upper and lower band together to ground, this gives one more (lower) band:

26.065 – 26.505 (A) but channels 1 and 2 are not working here.

Total frequency range: 26.085 (A3) – 27.870 (D40 +5k +10k)

Supply voltage: pin 21, 5V

No extern pull-ups needed.