

LSB for the IC-M700D

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As I wrote before, the Icom IC-M700D, the German version of the famous IC-M700 marine radio, did not come with LSB. What I was reading on the internet lately, there is a French version, the IC-M700F, which also lacks LSB. There is hope, maybe something could be done...

Luckily, my IC-M700D came with a circuit diagram. The schematics of the IC-M700 can be found on the internet.

Studying both circuits, the following can be said (corrections made, due to an error in the Service Manual):

the MAIN UNIT pcb of the IC-M700D is the same as the one of the IC-M700

both sidebands are using the same oscillator

two crystals are switched by means of 1SS53 switching diodes (a 1N4148 will probably do)

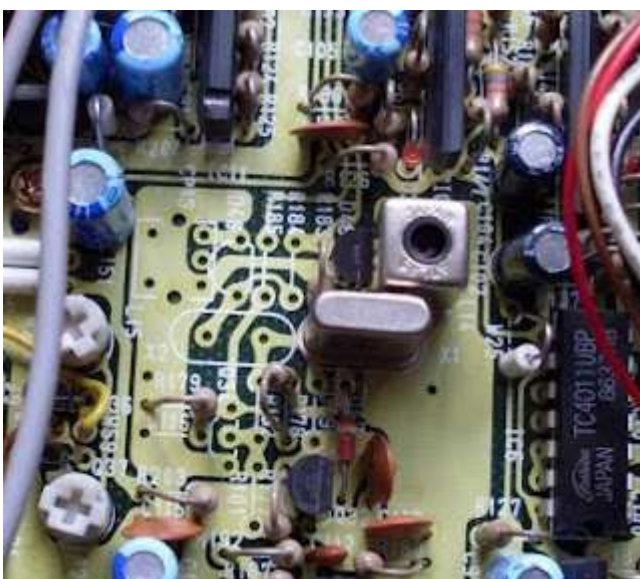
the LSB crystal's traces are present on the D's pcb, so is the LSB control lead from the MATRIX (ending at Q334's base)

the D's LSB crystal and surrounding bits'n pieces (a switching transistor(2SC3402), a varactor (FC51M), an inductor and some resistors) are not populated

for LSB a 4.908MHz 4.920MHz crystal is required

the mode switch needs to be wired up correctly, there may be a further transistor (Q1210) missing on the MATRIX pcb, further, there could be a jumper somewhere...

Have a look at the IC-M700D PCB



Now, I need to do both, grinding up, and pen down, when ground away too much crystal material....