

FT1000MK-V Field Main RX signal disappears, restored when Main VFO knob moved**Author:** Ian Benjamin - VE9HB**FT1000MK-V Field Main RX signal disappears, restored when Main VFO knob moved**

Much troubleshooting!! Found that the PLL-DDS unit was jumping to same frequency as SUB-DDS when fault occurs. Same serial freq. data fed to the 2 units, but 2 different strobe pulses are used at different times to latch the appropriate freq data into the each DDS. Stray capacitance between the wiring, along with $\sim 7\text{nS}$ rise time of trigger pulse suspected of creating crosstalk.

Added 27PF capacitors at Q5020 pins 12,13 to load the ST2, ST3 lines. This loading cuts amount of crosstalk to point where fault vanishes. The strobe generator Q5020 can handle 3X this value of capacitance, so within spec.

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