

AEA
SERVICE BULLETIN

PK-88 RFI CRYSTAL

The pk-88 contains digital ic's that require a high frequency crystal controlled clock. the two highest clock frequencies used by the pk-88 are 2.4576 mhz and 4.9152 mhz.

these frequencies may seem odd, but they are in fact multiples of standard data rates (baud rates) and required by the pk-88. it unfortunatley turns out that the 59th harmonic 2.4576 mhz clock is very nearly 145.0 mhz.

the pk-88 has been designed to minumise electromagnetic radiation and surpasses all f.c.c. part 15 test requirements. stil, amateur 2-meter fm receivers are quite sensitive and it is possible interference will occur.

since the 2.4576 mhz clock is counted down from the 4.9152 mhz clock, if we lower the frequency of the 4.9152 mhz clock, we will lower the the 2.4576 mhz clock and the frequency of the harmonics.

to solve this problem, a 4.9100 mhz crystal will have tobe installed in place of the Y1 crystal currently in the unit (4.9152 mhz). this will not effect any of pk-88's operations in any way.

please, only attempt this modification if you have had the experience of working on printed circuit boards before. if you do not feel comfortable with this project, please enlist the help of a friend or call AEA so that we can make arrangements to modify your pk-88 under warranty.

if you have any more questions, please feel free to call or write. our phone number is 206-775-77373. our hours are from 8:00-12:00 and 1:-4:30 pacific time.

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