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ok, here are my additions to the old crow/service manual instructions, those MUST be read first, as im not gonna repeat them. make sure you read all these over before starting, as #5 and #7 bears on the whole process:

(FIRST A DISCLAIMER-THIS IS TIME CONSUMING, FRUSTRATING, AND POTENTIALLY DAMAGING IF YOU DO NOT KNOW EXACTLY WHAT YOU ARE DOING. IF YOU HAVE THE LUXURY, HIRE A TECH. THIS IS ONLY FOR THOSE WHO DO NOT HAVE THAT LUXURY. IF THIS IS YOUR FIRST TIME TUNING A SYNTH, I WOULD ADVISE AGAINST IT. TUNE A ROGUE OR SOMETHING FIRST, THEN MOVE ON TO THIS. PLASTIC TUNING STICK A MUST. THIS IS IN NO WAY MEANT TO TAKE THE PLACE OF HIRING A TECH, THOSE GUYS ARE PROS AND KNOW WHAT THEY ARE DOING!!! BUT, OF COURSE, A CS80 IS AN EXCEPTION, AS SHIPPING IS NOT ALWAYS SENSIBLE. HENCE, MY 2 CENTS):

1-biggest thing for me-do NOT move on to octaves 4,8,16 until you are ABSOLUTELY sure that you got the SCALING right on octave 2. service manual explains this, its steps 8 and 9 i believe. you will just be wasting your time and have to go back and do it over. i did this wrong(didnt spend enough time getting scaling exactly right) and wasted an hour tuning voices i had to redo. do this as many times as you possibly need to until its right, then move on to other octaves. back and forth, C4 using top tiny little blue pot, the C1 using 2nd pot from top.

2- if you have a laptop, KATSURA makes a \$15 strobe tuner plug-in. i used it, and its 10000000% better than the korg chromatic guitar tuners. completely worth it. do not use it as mic, use the line-in, preferably in ADDITION to listening.(dont think i could have done it without haviing BOTH).

3-i did ALL the voices with a strobe tuner INDEPENDENTLY, not tuning voice 1 osc 1 to voice 1 osc 2, but by only listening to each osc at a time. follow service manual instructions for panel settings, worked good for me. of course, ring mod/sub osc off. THEN, i lowered the voice board, and closed the hood. i left the machine on for 1/2 hr, and then did step #4:

4-using a graph chart, as well as the strobe tuner, i went through each voice(now using both oscs) and listened for dissonance/beats. when i got to a voice that had "beats"/was off, by flipping the mix pot up and down and looking at the strobe tuner, i could tell which osc was # or flat. i then wrote that down in my graph chart. so, under voice 3, osc 2, if it were off, i would put a symbol there. when i was done, i opened her back up, and went to those voices, and tuned by EAR for no beats.(the chart helps cause you want to make sure you are tuning the right osc, voice 1 in tune w/ itself does no good if its not in tune w/ voice 2.) this gave me a surprisingly accurate tuning when i was done.

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