

Process for adapting a new sound set to a non-standard layout of programs

If you're like many long-time Kronos owners, you ran out of program storage years ago. Since then, you've searched, deleted, cut, paste and compacted. This process is made possible by the excellent [PCGtools](#), but is still difficult. So by now, your banks have diverged from the factory sets - the K1 layout or the K2 layout. Then you find another bank you want, and it comes with Combis that reference the factory programs. What do you do? Well, it's complicated....

Step 1: Find some place to store the new Programs, by deleting unused programs, searching for and finding duplicates, etc. Use PCGtools "generate differences" list to see if any of the new programs are duplicates of your existing programs (might save space if so), or if you have any duplicate programs already in your Kronos. If you're really motivated and industrious, PCGtools can identify programs that are very close (using the PCGtools differences report feature and finding programs with only a few bytes changed. Then you can try to accomplish same difference using the Tone Adjust page of a Combi to make the change rather than saving a separate program. You can use PCGtools to copy and paste the programs into their new locations in your banks. You can compact banks to allow the new programs to be contiguous. Of course the fixed bank format of HD1 vs EXi makes this process more difficult. Make plenty of backups of your master PCG and save incremental versions (v1, v2, v3, etc) as you work on the Program realignment.

Step 2: Load the new Combis into your Kronos banks - at least for me, I still have plenty of space available for Combis, so this was easy. Save a PCG containing the new programs and combis (we'll call it YourKronos below)

Step 3: Re-map the Combis to the current location of the programs in your Kronos. This is where it gets more difficult: Using PCGTools:

- A. Master File: If you have a full PCG with the new sound set and all its dependent programs¹ skip this and move on to 3B. On the other hand if your sound set supplier doesn't provide their full PCG with all referenced banks, you need to first set a master file in PCGtools. Open the Factory Preload for the version of Kronos (V1 or V2) matching the Combi set you are adapting.
 - Set it as Master in PcgTools. (Tools/Master Files)
 - Generate Patch list. Open it in a text editor
 - Put this PCG on the lower right side of the PCGtools window.
- B. Open your latest PCG saved from your YourKronos. (including all the new programs and Combis from step 1 and step 2)
 - Generate a Patch List. It will open in a text editor
 - Generate Program Usage List, open in text editor
 - Put this PCG on the left side of the PCGtools window.
- C. Open the supplier's PCG from the new sound set -- "Vangelis K2.PCG" for example
 - Generate Patch list (for reference) open in text editor
 - Put this PCG on the upper right side of the PCGtools window
- D. In YourKronos.pcg, select Combis and select the bank containing the new Combis you are mapping. For Each Combi to be mapped:
 1. Select Combis and Navigate to the next Combi to be mapped in the YourKronos PCG. Click the Timbres button.
 2. Select Combis and Navigate to the Combi in question in the new bank PCG (Vangelis K2.PCG for example). Click the Timbres button. Position the two Timbres windows side-by-side at the same vertical position to compare.
 3. Compare Timbre window, row by row, look for any differences.
 4. For each difference in Timbre found, remapping is necessary. Do these steps:

¹ (Note - Dan Stesco will provide the full Vangelis Sound Set bank on request)
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- a) Look at the program reference in the Vangelis K2.PCG Timbre window - that is the desired Timbre.
- b) In the text editor with the Patch List for YourKronos PCG search for that program name. If you find it, note the location. This means you still have it in your Kronos, so you can just adjust the Combi's Timbre to reference it.
- c) If you don't find the needed program in YourKronos, you might have deleted it as unused or unwanted. Look in the Patch List that was generated for the Preload PCG. The missing program should be found there (unless the purchased sound set is incorrectly constructed or depends on another set). Note the program's location. Now repeat the process from Step 1 to find a program location to store it in YourKronos. (In Settings / PCG Window, make sure "Show # Refs" is checked). If you don't have any empty slots of the right type HD1 or EXi, find a program with 0 ref count that you don't mind deleting. Clear the target location, copy from the PRELOAD window, then paste into YourKronos PCG at the target location. Note the bank/slot location for the next step.
- d) Now look in the Timbre Window of the same Combi in the YourKronos PCG, in the same Timbre row. This is the place where the timbre is currently referencing something other than what it is supposed to be. Unfortunately, PCGtools does not allow you to directly edit the reference in this window. So we need to determine if we can safely use PCGtools "Program Reference Changer" under the Tools menu. This tool makes **global** changes in the PCG, so we need to search for any other references to the program that might be inadvertently changed. Using the Program Usage List for YourKronos that is open in your text editor, search for the location of the Timbre's current, incorrect reference (U-G123 for example). If the *only* reference to that program is from the new Combi (the location where you copied the Combi for the new set in step 2), then it is safe to use "Program Reference Changer". Paste in the change in the format "U-G123 -> U-DD012" for example into the Program Reference Changer. If you find other Combis or Setlists referencing the program location, you can't use "Program Reference Changer" or it will change all references in the PCG, which will break existing Combis or Setlists. In this case you will have to do it manually on the Kronos once you load the PCG back to the Kronos. Make a list of manual reference change to be done, noting the Combi, the Timbre, and the new Program that it needs to point to.
- e) Once you have completed this process for all the Timbre's in the Combi, save the YourKronos PCG (maybe as a new version) before you move on to the next Combi to be remapped.

Step 4: Once you have mapped all the programs in all the Timbres in all the Combis, copy the final PCG version back to your Kronos and load it.

Step 5: Perform the manual re-mapping of Timbres that had multiple references by editing Combis on the Kronos, using the list you created in step 3.D.4.d. Then of course save the PCG as yet another new version and copy it back to your computer as a backup. Check the new Combis and see if they sound right. At this point it is also wise to check your pre-existing combis and make sure there are no unexpected changes.