MS-20EX Tutorial 4
Rendez-vous II part 3 Combi

and Sequencer with MIDI file.

Goals: Create a Rendez-vous II part 3 Combi consisting of MS-20EX synths, and play!

Level: Beginner - Intermediate.

Time: approx. 30-45 min.

Material: KORG Kronos & MS-20EX Block Diagram.

The Laser Harp Experiment, part II

This tutorial describes step by step how to program a Combi and play a midi-file.

This tutorial consists of five parts:

1. Introduction.
2. Prepare the Combi - Sound Setup: copy.
3. Prepare the Combi - Combi Setup: new, save, copy programs, volume, pan, keyboard zones.
4. Rendezvous II, part 3.
5. Sequencer Setup and Play midi-file.

Sources and Links included

A Kronos 61 was used to create this tutorial

By dongfang (Kris Oosting) - February 2013

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1. Introduction

In this tutorial you will program the combi for Jean Michel Jarre's Rendez-vous II part 3.
Before you start, you'll need the sounds of the following tutorials:
1. Tutorial 1 - Programming a String Sound and
2. Tutorial 3 - Programming a Laser Harp Sound.

Further, you will use a midi-file to play a part of Rendez-vous II part 3.
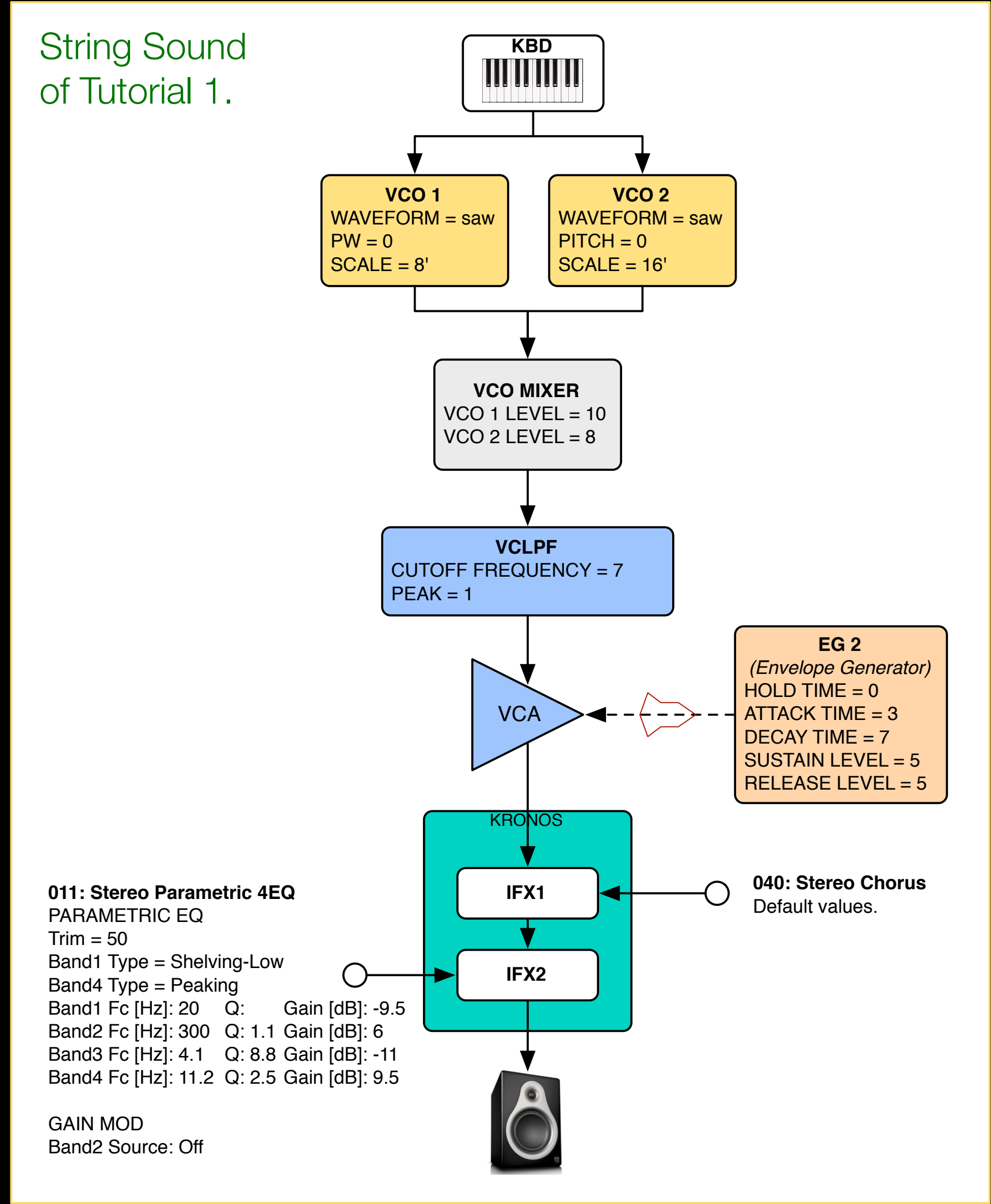This midi-file is part of this tutorial.

Foto: Christine Ferreira

2. Prepare the Combi - Sound Setup

To prepare the Combi for your Rendez-vous extravaganza, you'll need three sounds and a drum kit.
The first two are a string sound for the chords and a string sound for the high notes.
In MS-20EX Tutorial 1 you've programmed a string sound. Let's use this one for the chords.
You will copy this string sound to a new location and modify it a little, so it matches the high
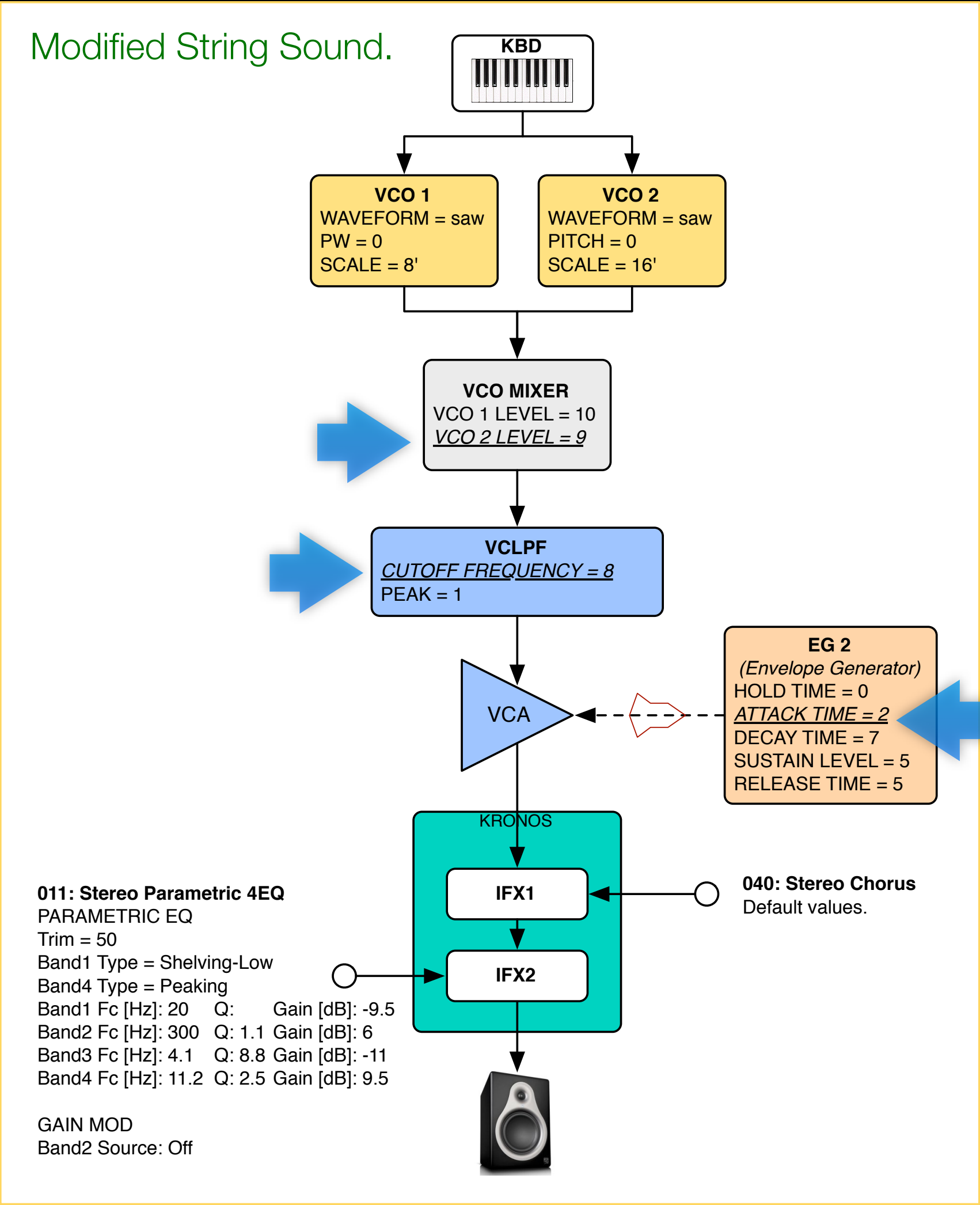string sound that is used in Rendez-vous.

Copy a Sound

1. If you didn't do tutorial 1 yet, maybe it's a good moment to program the string sound now (on the next slide you'll find the settings summary chart for the tutorial 1 string sound).

2. Select the string sound from tutorial 1 (the USER location you've saved it) and then select the Play tab.

3. Select the Main menu (top right) and then Write Program.

4. The Write Program window pops up. Select the text field and type the name Strings High JMJ using the keyboard on screen. Select OK.

5. Now, select Program: and select a free location, then select OK. Again OK in the Are You Sure ? window. A *copy* of the string sound has now been saved to the new location. See the next slide for the settings.

2. Prepare the Combi - Sound Setup

String Sound of Tutorial 1.

```
KBD
```

VCO 1
WAVEFORM = saw
PW = 0
SCALE = 8'

VCO 2
WAVEFORM = saw
PITCH = 0
SCALE = 16'

VCO MIXER
VCO 1 LEVEL = 10
VCO 2 LEVEL = 8

VCLPF
CUTOFF FREQUENCY = 7
PEAK = 1

VCA

EG 2
(Envelope Generator)
HOLD TIME = 0
ATTACK TIME = 3
DECAY TIME = 7
SUSTAIN LEVEL = 5
RELEASE LEVEL = 5

KRONOS

IFX1

IFX2

011: Stereo Parametric 4EQ
PARAMETRIC EQ
Trim = 50
Band1 Type = Shelving-Low
Band4 Type = Peaking
Band1 Fc [Hz]: 20   Q: Gain [dB]: -9.5
Band2 Fc [Hz]: 300   Q: 1.1 Gain [dB]: 6
Band3 Fc [Hz]: 4.1   Q: 8.8 Gain [dB]: -11
Band4 Fc [Hz]: 11.2 Q: 2.5 Gain [dB]: 9.5

GAIN MOD
Band2 Source: Off

040: Stereo Chorus
Default values.

Strings for Chords

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6. Only change the *italic-underlined* values.

Modified String Sound.

```
KBD
```

VCO 1
WAVEFORM = saw
PW = 0
SCALE = 8'

VCO 2
WAVEFORM = saw
PITCH = 0
SCALE = 16'

VCO MIXER
VCO 1 LEVEL = 10
VCO 2 LEVEL = 9

VCLPF
CUTOFF FREQUENCY = 8
PEAK = 1

VCA

EG 2
(Envelope Generator)
HOLD TIME = 0
ATTACK TIME = 2
DECAY TIME = 7
SUSTAIN LEVEL = 5
RELEASE TIME = 5

KRONOS

IFX1

IFX2

011: Stereo Parametric 4EQ
PARAMETRIC EQ
Trim = 50
Band1 Type = Shelving-Low
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Band1 Fc [Hz]: 20   Q: Gain [dB]: -9.5
Band2 Fc [Hz]: 300   Q: 1.1 Gain [dB]: 6
Band3 Fc [Hz]: 4.1   Q: 8.8 Gain [dB]: -11
Band4 Fc [Hz]: 11.2 Q: 2.5 Gain [dB]: 9.5

GAIN MOD
Band2 Source: Off

040: Stereo Chorus
Default values.

**Strings for Solo**

3. Prepare the Combi - Combi Setup

Let's see what you have now. Three sounds.
- the Laser Harp JMJ of tutorial 3.
- the MS-20EX String Sound of tutorial 1.
- the Strings High JMJ from this tutorial.

3 sounds...

There is a great video tutorial on how to create combis in general, which you can find on Qui Robinez's website (see last slide for details)

7. Before you will copy these sounds to a Combi, make sure that all IFXs that are switched off (are not used) have 000: No Effect as their effect. Otherwise they are copied as well.

8. First, select your Laser Harp JMJ sound (good practice when selecting it later in the combi, as you will see later).

9. Press the COMBI button to enter Combination Mode (above the Num Keys).

10. Select a free slot (e.g. USER-A U-A012) by selecting the popup button **>** left of the name of the combi and press OK. See *Kronos Quick Start Guide* page 13 for more information about this.
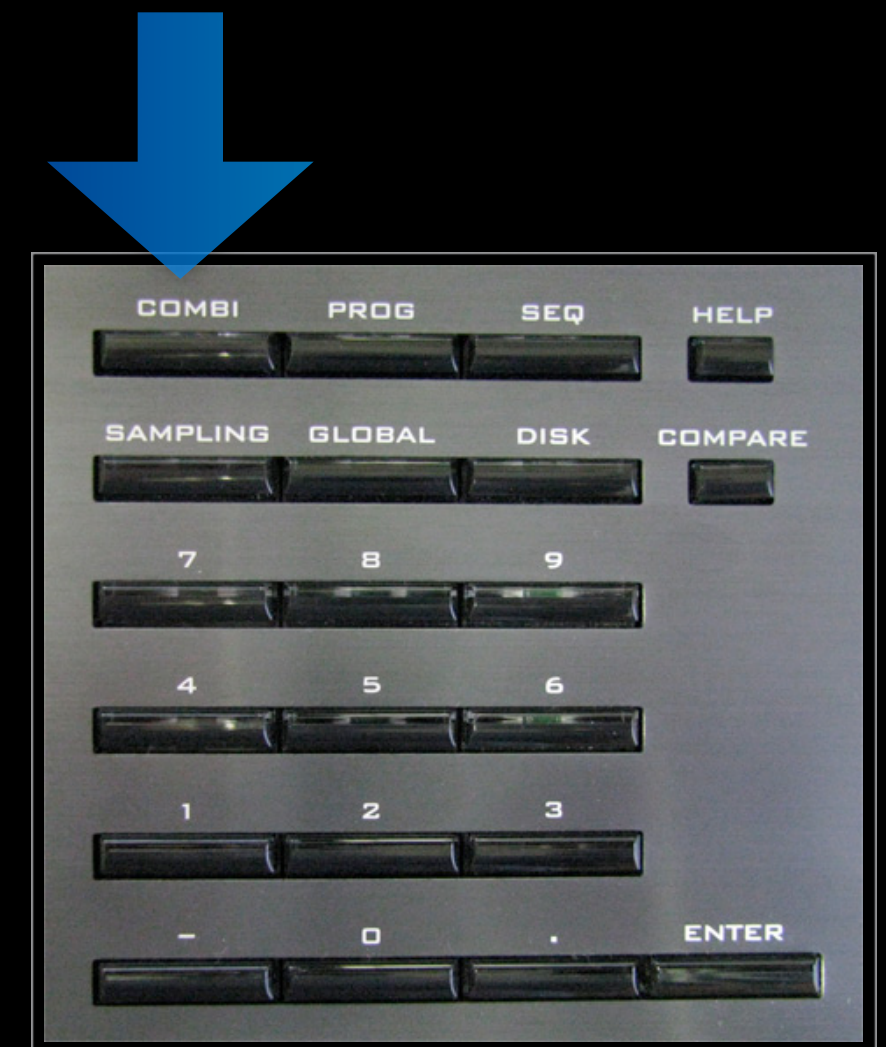
3. Prepare the Combi - Combi Setup

11. Dan Stesco created an awesome JMJ Pack for Live Playing. This pack includes 10 Combis and uses the USER-A bank. Hence the choice for U-A012 in this tutorial ;-)

12. You now have Combi USER-A 012: Init Combi on your screen.

13. Save this combi by selecting the page menu (top right) and then select Write Combination.

14. The Write Combination window pops up. Select the textfield U-A012: **T** Init Combi and first press Clear, and then type JMJ Rendezvous 3 with the on-screen keyboard, and press OK. Again press OK. And again OK to be sure.

15. Select the page menu (top right) and then Copy From Program.

16. The Copy From Program window pops up. After Program: you should see the name Laser Harp JMJ. This is because in step 8 you've selected the program before switching to Combi Mode.

Save the Combi

3. Prepare the Combi - Combi Setup

17. Select IFXs-all (red square) to copy all IFXs to the combi.

18. In the To: field it should show Timbre01. And press OK. One down, three more to go.

19. Press the PROG button and select the program with your Strings High JMJ sound.

20. Press the COMBI button.

21. Select the page menu (top right) and then Copy From Program.

22. The Copy From Program window pops up. After Program: you should see the name Strings High JMJ.

23. Deselect IFXs-all (no red square), and select IFXs-All Used (red square). Only new IFXs will be added. Otherwise the new program overwrites the existing IFXs.

24. In the To: field it should show Timbre02. And press OK.

Copy IFXs ... or not
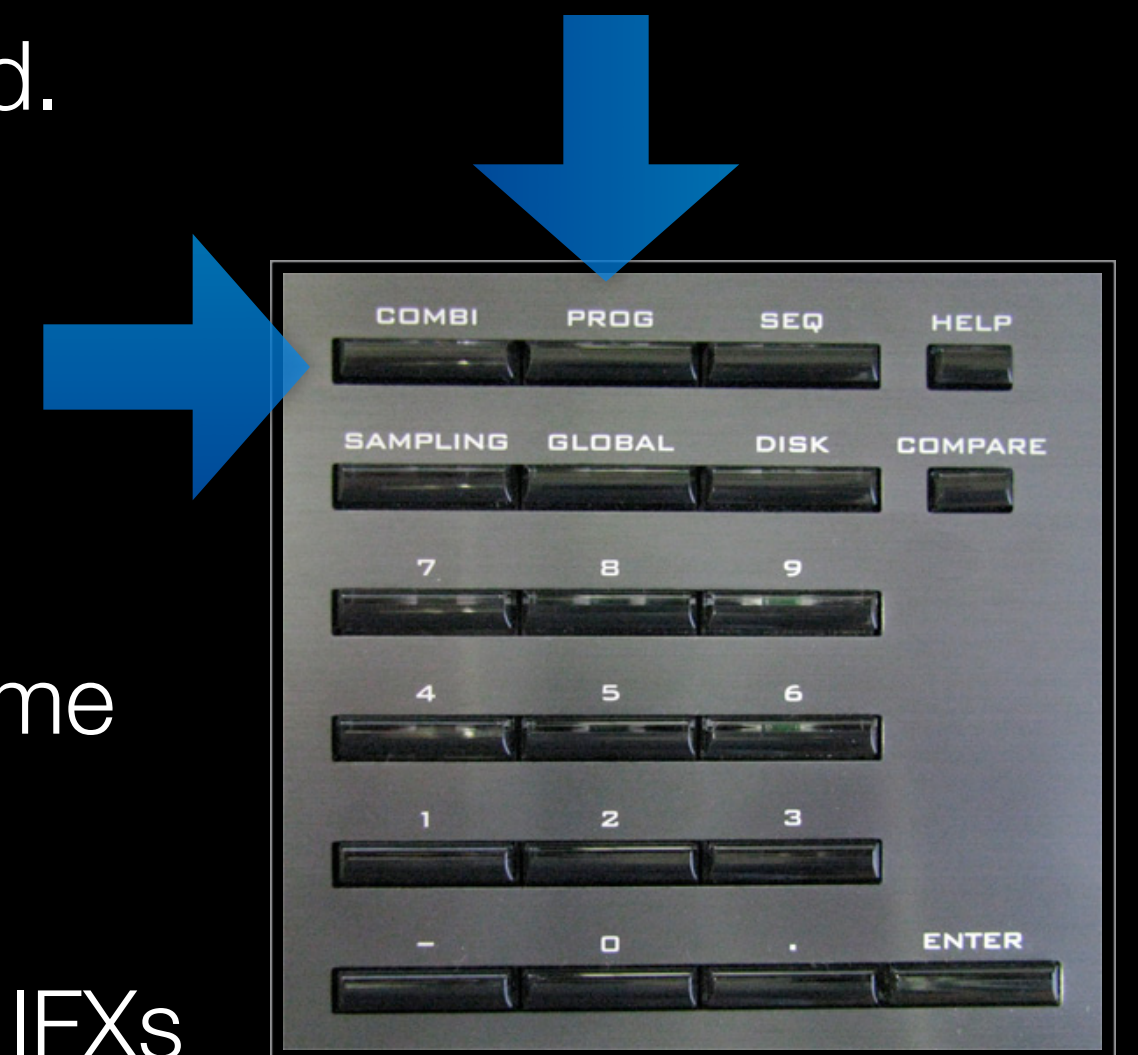
3. Prepare the Combi - Combi Setup

25. Press the PROG button and select the program with your String Sound sound from tutorial 1.

26. Press the COMBI button.

27. Select the page menu (top right) and then Copy From Program.

28. The Copy From Program window pops up. After Program: you should see the name Strings Sound (the name you gave to the string sound of tutorial 1)

29. The IFXs-All Used is already selected (red square). Deselect it. You don't want to copy the same set of IFXs as the previous string sound, which are a copy of each other.

30. In the To: field it should show Timbre03. And press OK.

Only IFXs you'll need

See slide 10 for IFX Routings

3. Prepare the Combi - Combi Setup

31. Select the IFX tab. Select the Routing1 subtab. Under Timbre 3 (blue bar with a 3) select >L/R and then select IFX4. Both string sounds have the same IFXs now. You can see this on your screen. Select the Play tab.

32. The last sound is a Drum Kit. Drum Kits can have many IFXs, and we have 7 free. That will do.

33. Press the PROG button, then the I-F bank button and type 78 and ENTER. The program INT-F 078: Studio Standard Kit should be visible on screen.

34. Press the COMBI button.

35. Select the page menu (top right) and then Copy From Program.

36. Select IFXs-All Used (red square).

37. In the To: field it should show Timbre04. And press OK to copy the Drum Kit to your Combi.

Do not copy double IFXs

image: gearslutz.com

Drum Track

See slide 10 for IFX Routings

3. Prepare the Combi - Combi Setup

**IFX Routing
of the Combi**

1: Laser Harp

2: Strings Solo
3: Strings Chords
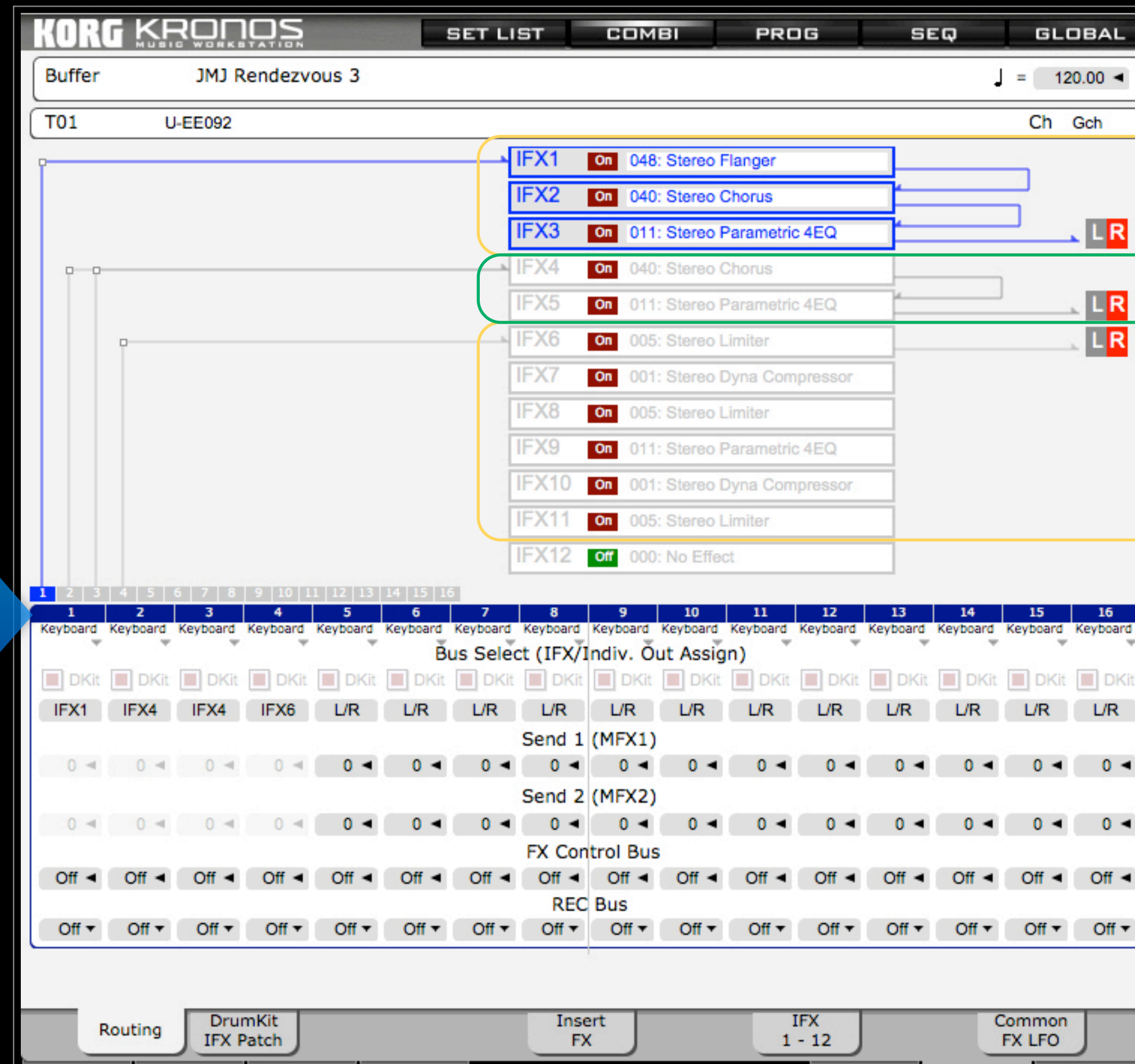
4: Drum Kit

1: Laser Harp
2: Strings Solo
3: Strings Chords
4: Drum Kit

KRONOS Editor 2 image

3. Prepare the Combi - Combi Setup

38. Save this combi by selecting the page menu (top right) and then select Write Combination.

39. The Write Combination window pops up. The textfield should show JMJ Rendezvous 3. Press OK. And again OK to be sure.

40. Now you have to set the volume for each Timbre (track). Make sure the Play > ProgSelect/Mixer tab is selected.

41. Select the volume mixer slider knob of Timbre01. Set it to 90 with the value slider (or type 9 0 on the Num Keypad and press ENTER.) Or use front panel Control Assign switches and Mix Volumes sliders on your Kronos (see *Kronos Operations Guide* page 60).

42. Set volume level of Timbre02 to 70, of Timbre03 to 95, and of Timbre04 to 90. This should do for now. You can always change these values later.

Save the Combi

Set Volume Levels

3. Prepare the Combi - Combi Setup

Panning

1: Laser Harp
2: Strings Solo
3: Strings Chords
4: Drum Kit

43. Now pan the Laser Harp slightly to the left by selecting the Pan knob of Timbre01 and using the value slider. (e.g. L050)

44. Pan the Strings High slightly to the right (e.g. R078). But, feel free to try other values.

45. Write this Combination to save it as explained before. Let's go to keyboard zones!

JMJ Rendezvous 3
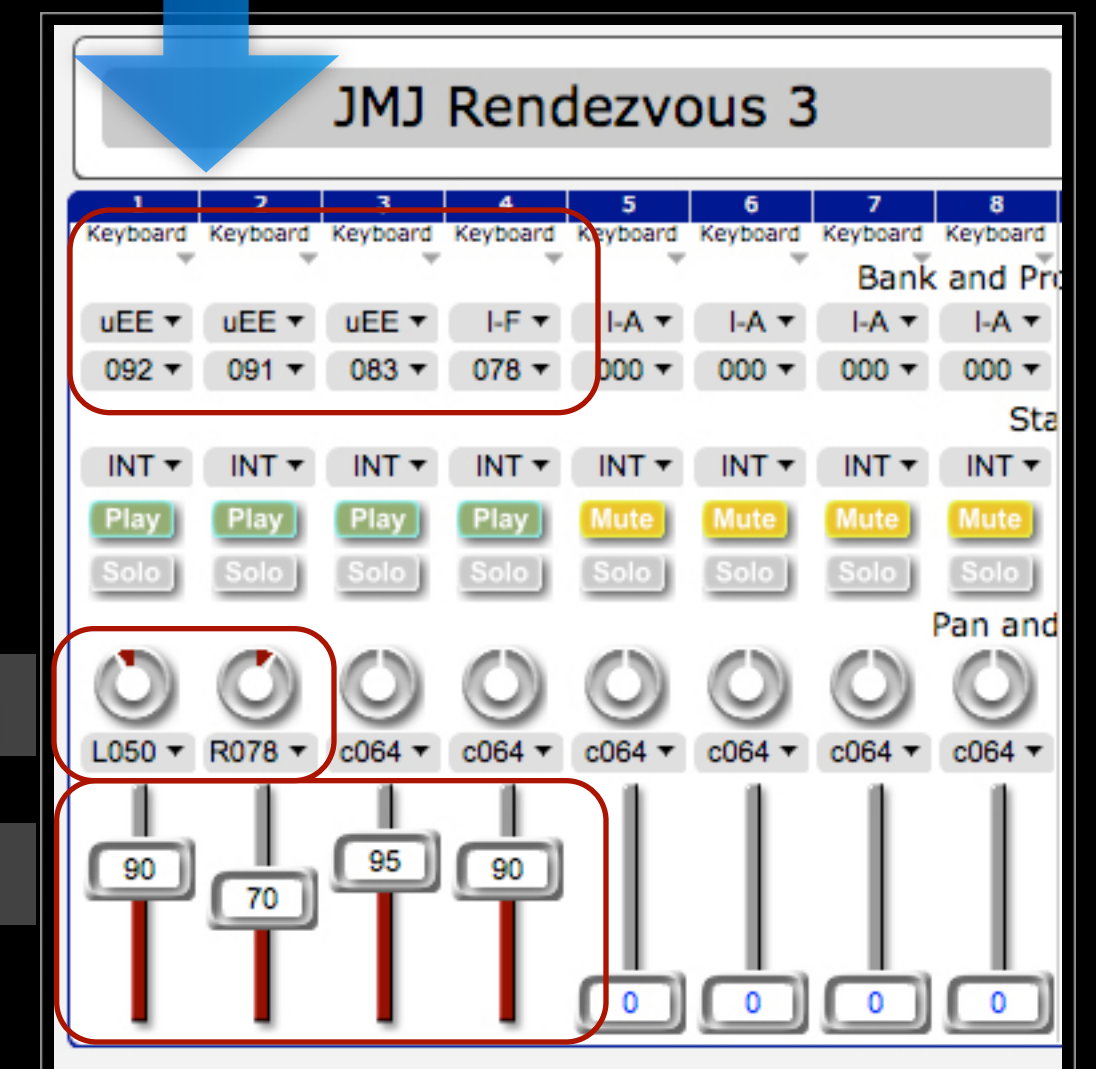
Panning

Volume

Note on copying IFXs to a combi.
Keep a tight ship. There should be no gaps between effects. Even if an IFX is switched off, but contains a name, it will be regarded as a filled slot. Therefore, set all off slots to 000: No Effect.

Keep it Clean

3. Prepare the Combi - Combi Setup

Keyboard Zones

46. Now you have to set some keyboard zones to prevent that all instruments play at the same time when you play a note. For example, if you want to play some sounds live.

47. The Laser Harp sound will be at the lower section of the keyboard, the strings in the middle, and the high strings at the high end. (This tutorial has been created using a Kronos 61)

48. With your combi selected, select the MIDI Filter/Zones tab, and then the Keyboard Zones subtab.

49. Enter the settings as shown in the screen shot ➔

50. Select the Timbre Parameter tab. Select MIDI channel field Gch of the Timbre 4 - the Drum Track. Set its value to, say 4. Now you can play without hearing all kind of drum sounds. The drum track is added here for the song in the sequencer.

51. Write (save) your Combi and you're done for now. Let's play!

4. Rendezvous II, part 3

High
Powered
"Laser"
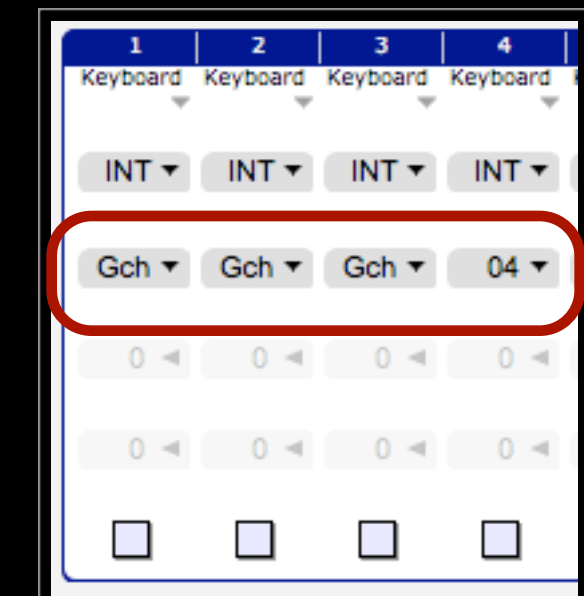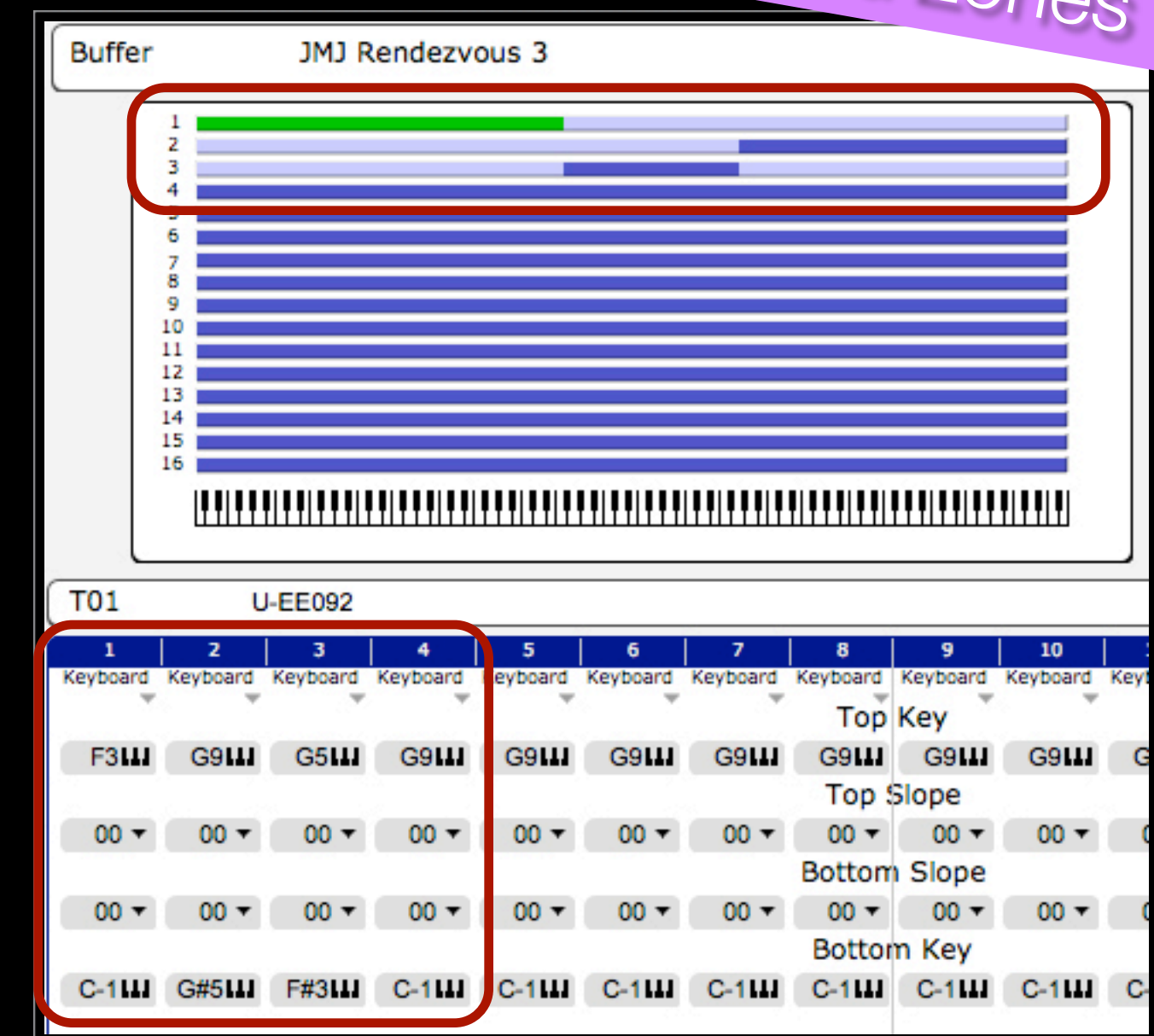
The original midi-file comes from: *musicnoteslib.com*. This web site has free JMJ scores and midi-files for download.
The downloaded midi-file has been edited, because it's a huge file, and we only need the Laser Harp bit (and it was a little too legato as well).

You're standing in front of a high powered "laser" (doctor Evil ;)
Wearing special gloves - try to play nicely legato then.
Further, the high strings and low strings were edited.
The drum track is great, so this was not changed.

MIDI file

The edited midi-file comes with this tutorial as: JMJ Rendezvous 3.mid

It's time to put your Combi to the test.
Let's set up the Sequencer.

5. Sequencer Setup
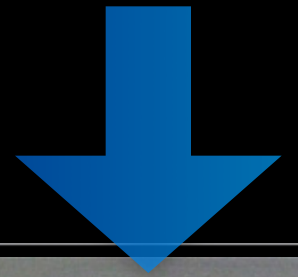
52. Press the SEQ button to enter Sequencer Mode. S000: NEW SONG 000 will be visible. If this is not a free song location, select one using the popup button **>** in front of the name of the song.

53. Select the Play/Rec tab and then the MIDI Prog/Mixer tab, if not selected.

54. Select the page menu (top right), and select Copy From Combi.

55. The Copy From Combi window pops up and you can see the name of your combi already selected. If this is not the case, please select the location of your JMJ Rendezvous 3 combi.

56. Select the red IFXs-All square and select OK. You want to copy all IFXs of your combi to the song.

5. Sequencer Setup

57. Time to load the midi file. Copy the midi file JMJ Rendezvous 3.mid to a USB-stick. Put the USB-stick in the USB slot of your Kronos.

58. Press the DISK button to enter Disk Mode. Select the File tab, and then the Load tab.

59. Select the popup button **>** behind Drive Select: and select your USB-stick.

60. Select the midi file JMJ Rendezvous 3.mid and then the red Load button.

61. A window pops up with Load Standard MIDI File JMJ Rendezvous 3.mid to

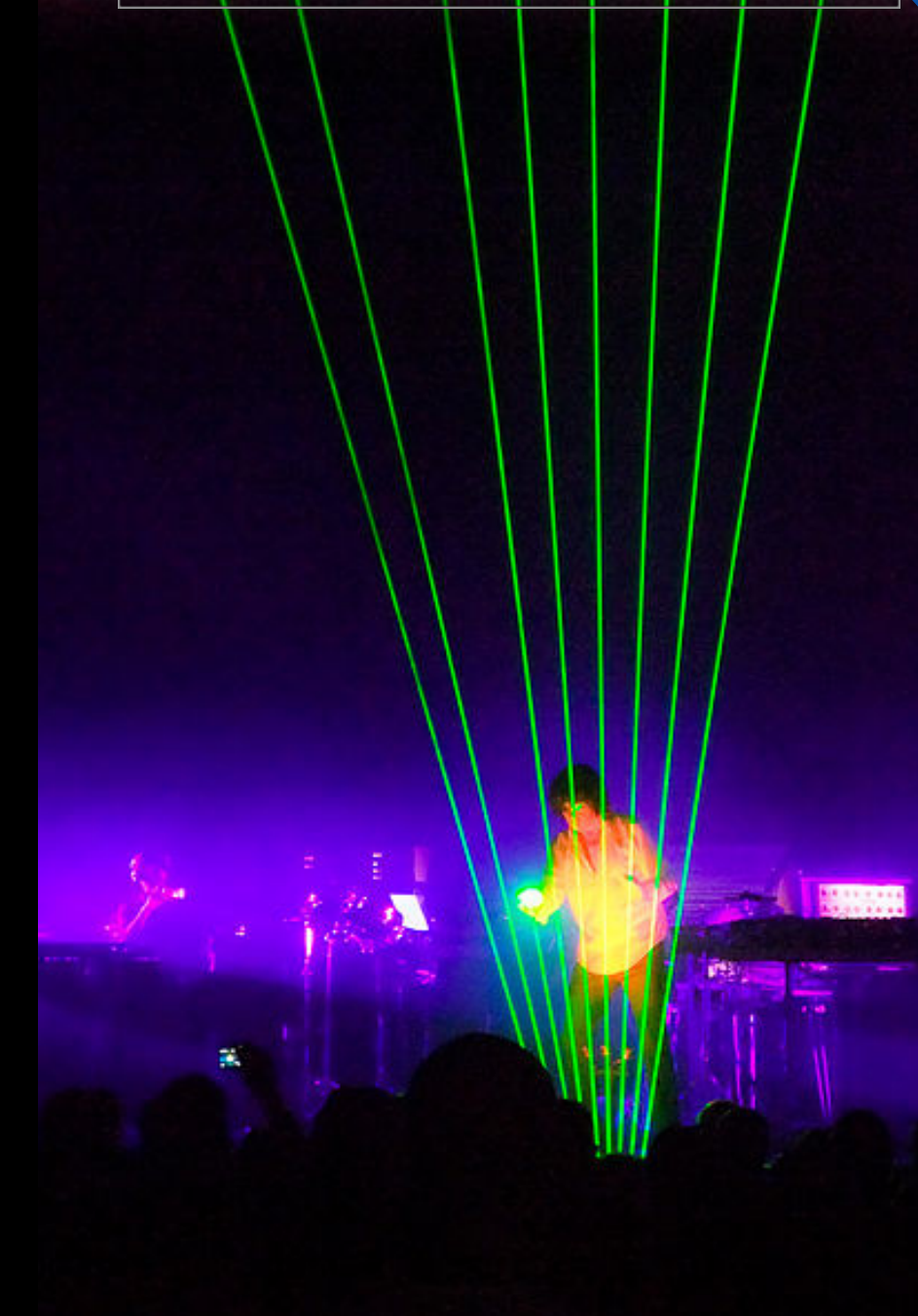62. Behind Song: select the correct song number and select OK. Done.

Load MIDI File
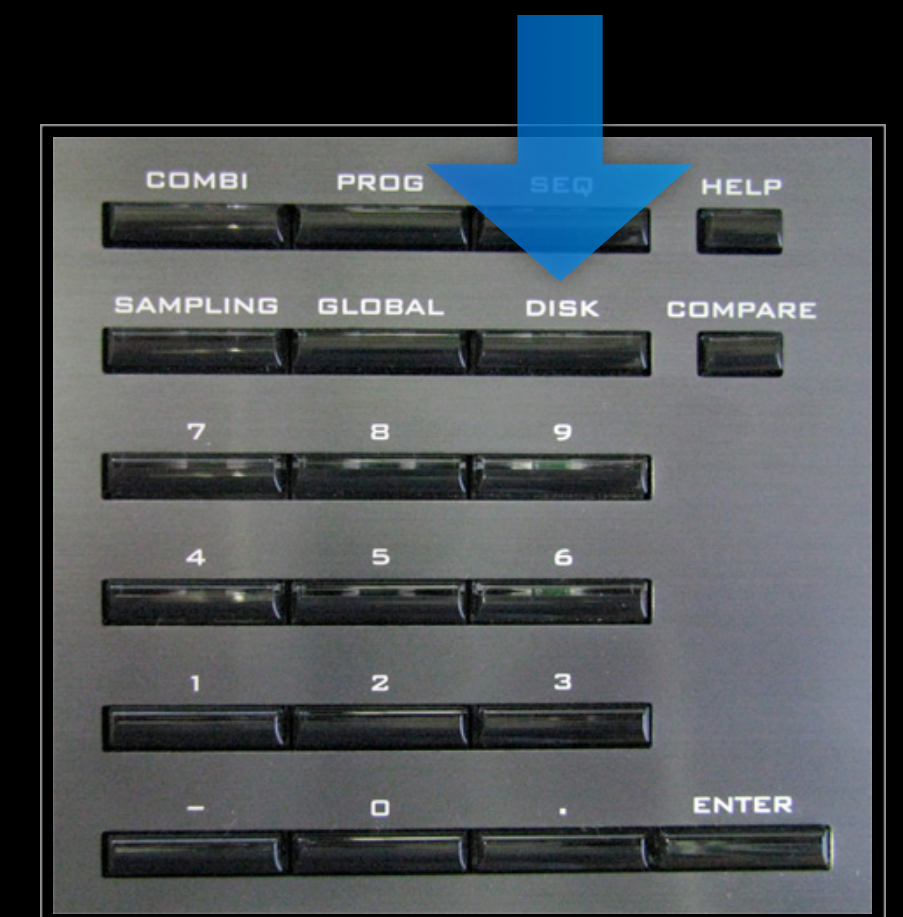
5. Sequencer ... Play!

And Play !

63. Press the SEQ button and of the SEQUENCER section on your Kronos panel press the START/STOP button.

64. Enjoy! Or you could add some TFX effects to this song, like for example 100: O-verb.

This concludes the two part tutorial on the Laser Harp in JMJs Rendezvous.

Source: wikipedia.

Sources used for this Tutorial

Source	Link
Laser Harp Wiki	http://en.wikipedia.org/wiki/Laser_harp
Elka Synthex - original Laser Harp sound	http://www.youtube.com/watch?v=zLOq-BUtjFQ
Elka Synthex Wiki	http://en.wikipedia.org/wiki/Elka_Synthex
JMJ Scores and midi files	http://www.musicnoteslib.com
Dan Stesco JMJ Pack	http://www.karma-lab.com/forum/showthread.php?t=19253
Website Qui Robinez (Tutorials)	http://www.quirobinez.nl