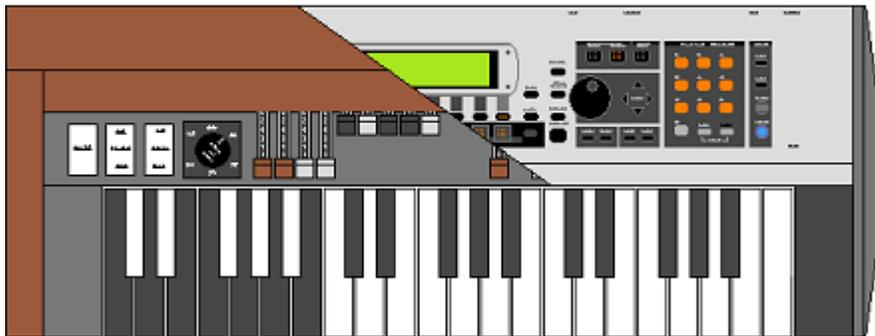


# **MZB3** Hammond Organ Emulation



***For Fantom X - Xr - S - Xa***

**by MossyZombie**

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Version 1.7

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**MZB3 - 1/15**



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# 1. Introduction

This is an emulation of sounds and controls of the famous Hammond B3 organ for the Roland Fantom series of workstations, supporting Fantom X6, X7, X8, S, S-88, Xr and Xa.

It features upper and lower manual of the organ, controllable drawbars, vibrato/chorus effects, percussion effects for the upper manual, amplifier & Leslie effects and much more, making thousands of different sound combinations possible.

The emulation has 30 performances and an .SVQ song file that contains RPS phrase sequences used replicate the features of the organ, all controllable from the pads and keys of the Fantom workstation. The patches use a custom set of sampled waveforms, so loading the waves is required to play any of the performances.

To use this emulation you will need a CF card and a card adapter. I also recommend having an extra MIDI controller keyboard to get the two manuals of the organ in use.

You may use the sounds of this emulation for free. If you like this emulation and find it useful, you can thank me with a Paypal donation from my website. A lot of time was spent while making this.

Have fun,  
– MossyZombie.

<http://www.mossyzombie.50webs.com/>

**My thanks go to:**  
Roland Clan (the #1 community of Roland users)



## 2. Installation

1. – Copy the contents of this archive to a empty Fantom formatted memory card.
2. – Place the card in to your Fantom and load all samples.

### FANTOM XR

3. – Play with the Card Performances.
4. – For editing look at 4. Structure

### FANTOM X6, X7, X8, S

3. – Play with the Card Performances **AND/OR** load the **MZB3\_V17.SVQ** for **RPS controls**.
  - You will need to re-assign RPS patterns to pads in the **MZB3\_V17.SVQ** look at 3. Controls > Pads.

### FANTOM Xa

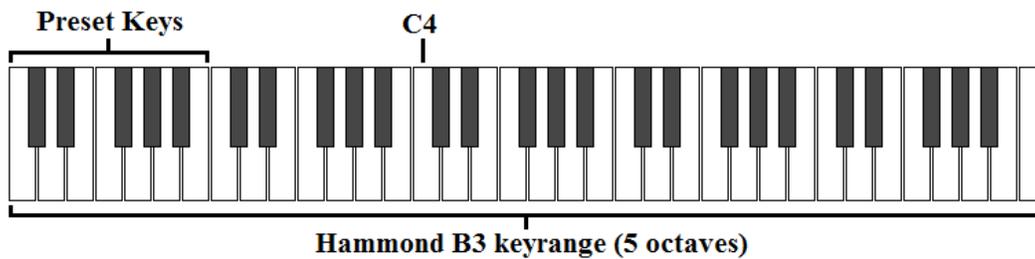
3. – Play with the Card Performances **AND/OR** load the **MZB3\_V17.SVQ** for **RPS controls**.



## 3. Controls

### 3.1 Keyboard

- Channel 2 Upper manual <= Your Fantoms keyboard
- Channel 1 Lower manual <= Your Controller keyboard
- Keys C2 to B2 in your Fantoms keyboard change presets and activate drawbar controllers (RPS):



#### Old (useless?) features:

- Keys D1 to B1 in your Fantoms keyboard program the drawbars for Lower manual. (RPS)
- Keys D7 to B7 in your Fantoms keyboard program the drawbars for Upper manual. (RPS)

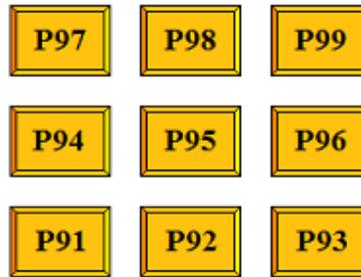


### 3.2 CC# and other controllers

- Hold pedal or **CC64** controls Leslie speed.
- Knob 1 or **CC12** controls the amount of amp overdrive.
- Knob 2 or **CC13 & CC4** controls the volume (swell pedal).
- **CC12–20** control the upper manual drawbars. Use Performance 25–29 or press **RPS key Bb2** to activate.
- **CC21–29** control the lower manual drawbars. Use Performance 25–29 or press **RPS key B2** to activate.
- Button 1 changes delay on/off.
- Button 2 changes reverb on/off.



### 3.3 Pads (RPS)



**This is how the patterns  
91-99 are assigned to the  
9 pads of Fantom Xa**

Fantom X6, X7, X8 & S have 16 pads, so reassign the patterns this way:



**I would recommend using this layout,  
make sure they are all set to loop!**

Every pad has a *PRIMARY* and a *SECONDARY* function. Primary function is accessed by pressing the pad once, secondary functions are accessed by holding the pad down. To see the text message displayed on every function keep your Fantom at Performance LAYER/SPLIT mode.



## ***PRIMARY***

P91 = Lower manual vibrato/chorus OFF

P92 = Leslie STOP (brake)

P93 = Upper manual vibrato/chorus OFF

P94 = Lower manual vibrato/chorus ON

P95 = Leslie RUN

P96 = Upper manual vibrato/chorus ON

P97 = Percussion mode 2ND & ON

P98 = Percussion OFF

P99 = Percussion mode 3RD & ON

## ***SECONDARY***

P91 = vibrato/chorus mode V1, V2, V3

P92 = Change to GUITAR AMP SPEAKER

P93 = vibrato/chorus mode C1, C2, C4

P94 = vibrato/chorus mode V1, V2, V3

P95 = Change to ROTARY SPEAKER

P96 = vibrato/chorus mode C1, C2, C3

P97 = Percussion Volume NORM, SOFT

P98 = Percussion MONO & ON, POLY

P99 = Percussion Decay FAST, SLOW



### 3.4 Presets keys (RPS)

Patterns 1–50 contain presets. By default the keys **C2–A2** are assigned to preset patterns. Presets contain only the drawbar positions for a single manual, they won't have any effect on vibrato, Leslie or percussion settings. Keys **Bb** and **B** activate drawbar controllers.

When a preset is activated, the drawbars are inactivated. The Fantom will remember your drawbar settings, so you don't have to set the drawbars again when you switch back from a preset. The drawbars can be set while a preset is active, once you switch to drawbar mode the settings will be remembered.

When you activate a preset, a text will appear on screen:

"U 88 8888888", "L 80 8808008", "L 88 8888888" etc.

Here the first letter "U" or "L" represents the manual (Upper or Lower). The 9 numbers following are the drawbar registration.



## 4. Structure

To translate Hammond Registrations numbers to TVA levels use this list:

0 = 0	1 = 15	2 = 31	3 = 47	4 = 63
5 = 79	6 = 95	7 = 111	8 = 127	

### **Part 1** Upper manual Drawbars 1–4 **Channel 2**

Tone 1: Drawbar 1  
Tone 2: Drawbar 2  
Tone 3: Drawbar 3  
Tone 4: Drawbar 4

### **Part 2** Upper manual Drawbars 5–8 **Channel 2**

Tone 1: Drawbar 5  
Tone 2: Drawbar 6  
Tone 3: Drawbar 7  
Tone 4: Drawbar 8

### **Part 3** Upper manual Drawbar 9 + klick & leak **Channel 2**

Tone 1: Drawbar 9  
Tone 2: OFF  
Tone 3: Leak  
Tone 4: Klick



**Part 4 Lower manual Drawbars 1–4 Channel 1**

Tone 1: Drawbar 1

Tone 2: Drawbar 2

Tone 3: Drawbar 3

Tone 4: Drawbar 4

**Part 5 Lower manual Drawbars 5–8 Channel 1**

Tone 1: Drawbar 5

Tone 2: Drawbar 6

Tone 3: Drawbar 7

Tone 4: Drawbar 8

**Part 6 Lower manual Drawbar 9 + klick & leak Channel 1**

Tone 1: Drawbar 9

Tone 2: OFF

Tone 3: Leak

Tone 4: Klick

**Part 7 Upper manual Percussion Channel 2**

Tone 1: Percussion

Tone 2: OFF

Tone 3: OFF

Tone 4: OFF



## 5. List of preset performances

Name	Lower	Vib.	Upper	Vib.	Percussion
1. MZB3 888 #1	838000000	C3	888000000	C3	3rd Norm Fast
2. MZB3 8888 #1	838000000	C3	888800000	C3	3rd Soft Fast
3. MZB3 Garner1	838000000	C3	800000888	C3	Off
4. MZB3 Argent	838000000	Off	880000000	Off	Off
5. MZB3 AWSoP	004430000	Off	688600000	Off	2nd Soft Slow
6. MZB3 Auger	838000000	C3	888110000	C3	2nd Soft Fast
7. MZB3 Winwood	838080880	Off	848848448	Off	Off
8. MZB3 Blues	008880000	Off	885324588	Off	Off
9. MZB3 888 #2	008600000	Off	888000000	V3	3rd Soft Fast
10. MZB3 8888 #2	008800000	Off	888800000	Off	3rd Norm Fast
11. MZB3 Garner 2	838000000	C3	800008888	C3	Off
12. MZB3 888+1'	838000000	C3	888000008	C3	Off
13. MZB3 Santana	888800000	C3	888800088	C3	Off
14. MZB3 BookerT	088880000	Off	888630000	Off	2nd Norm Fast *
15. MZB3 Joey D	088060500	Off	888400080	Off	Off
16. MZB3 Gospel	008800000	Off	808808008	Off	Off



Name	Lower	Vib.	Upper	Vib.	Percussion
17.MZB3 888 #3	008888000	Off	888000000	Off	2nd Soft Slow
18.MZB3 8888 #3	008800000	Off	888800000	Off	2nd Soft Fast
19.MZB3 Garner3	838000000	C3	800008888	C3	3rd Soft Fast
20.MZB3 Gospel2	038300000	C3	858500005	C3	Off
21.MZB3 Reggae1	005807000	C2	508800000	C2	2nd Soft Fast
22.MZB3 Reggae2	005807000	C2	708806048	C2	2nd Soft Fast
23.MZB3 Reggae3	008807003	C2	840705018	C2	3rd Norm Fast *
24.MZB3 Full	888000000	Off	888888888	Off	Off
25.MZB3 U-Drwbr	888000000	Off	<b>DRAWBARS</b>	Off	Off **
26.MZB3 L-Drwbr	<b>DRAWBARS</b>	Off	888000006	Off	Off **
27.MZB3L&UDrwbr	<b>DRAWBARS</b>	Off	<b>DRAWBARS</b>	Off	Off **
28.MZB3 U-DbrC2	888000000	Off	<b>DRAWBARS</b>	C2	Off **
29.MZB3L&UDbrC2	<b>DRAWBARS</b>	Off	<b>DRAWBARS</b>	C2	Off **

\*: No leslie speaker effect, uses speaker simulation from GuitarAmp sim MFX.

\*\* : Drawbar controllers **CC12-29** work with these performances.



## 6. List of preset patterns

Upper

- 1.\* 00 5320000
- 2.\* 00 4432000
- 3.\* 00 8740000
- 4.\* 00 4544222
- 5.\* 00 5403000
- 6.\* 00 4675300
- 7.\* 00 5644320
- 8.\* 00 6876540
- 9.\* 32 7645222
10. 88 0000000
11. 88 8000000
12. 88 8800000
13. 88 8000008
14. 88 8800088
15. 80 0000008
16. 80 8808008
17. 88 8888888
18. 68 8600000
19. 88 8110000
20. 84 8848448
21. 885324588
22. 888630000
23. 508800000
24. 708800000
25. 840705011



Lower

- 26.\* 00 4545440
- 27.\* 00 4432220
- 28.\* 00 7373430
- 29.\* 00 4544222
- 30.\* 00 6644322
- 31.\* 00 5642200
- 32.\* 00 6845433
- 33.\* 00 8030000
- 34.\* 42 7866244
- 35. 838000000
- 36. 838080880
- 37. 004430000
- 38. 008600000
- 39. 008800000
- 40. 008880000
- 41. 008888000
- 42. 888000000
- 43. 888800000
- 44. 088880000
- 45. 038300000
- 46. 088060500
- 47. 005807000
- 48. 008807003
- 49. 808808008
- 50. 888888888

\*: Original Hammond B3 presets.

