Rodin & Rodin MBC

Addendum

Using the Bass Root "DIY Mode"

The user can customize the three frequencies of the Bass Root Equalizer.
In both Rodin and Rodin EQ, this corresponds to the last position of the "Root" potentiometer.

Simply enter the desired frequencies. Use the **Frequency Table** to find tempered frequency values (press the **"F.Table"** button at the top of the device).

| Note	Octave 0	Octave 1	Octave 2	Octave 3	Octave 4	Octave 5	Octave 6	Octave 7	Octave 8	Octave 9	Octave 10
C		32,70	65,41	130,81	261,63	523,25	1046,50	2093,00	4186,01	8 372,02	16744,04
C#/Db		34,65	69,30	138,59	277,18	554,37	1108,73	2217,46	4434,92	8 869,84	17739,68
D		36,71	73,42	146,83	293,66	587,33	1174,66	2349,32	4698,63	9 397,26	18794,52
D#/Eb		38,89	77,78	155,56	311,13	622,25	1244,51	2489,02	4978,03	9 956,06	19912,12
E	20,60	41,20	82,41	164,81	329,63	659,25	1318,51	2637,02	5274,04	10 548,08	
F	21,83	43,65	87,31	174,61	349,23	698,46	1396,91	2793,83	5587,65	11 175,30	
F#/Gb	23,12	46,25	92,50	185,00	369,99	739,99	1479,98	2959,96	5919,91	11 839,82	
G	24,50	49,00	98,00	196,00	392,00	783,99	1567,98	3135,96	6271,93	12 543,86	
G#/Ab	25,96	51,91	103,83	207,65	415,30	830,61	1661,22	3322,44	6644,88	13 289,76	
A	27,50	55,00	110,00	220,00	440,00	880,00	1760,00	3520,00	7040,00	14 080,00	
A#/Bb	29,14	58,27	116,54	233,08	466,16	933,33	1864,66	3729,31	7458,62	14 917,24	
B	30,87	61,74	123,47	246,94	493,88	987,77	1975,53	3951,07	7902,13	15 804,26	

The DIY mode is about updating an internal array of values, which is not like updating the frequencies of 3 equalizers. The challenge was to make those values persistent (not deleted when exiting DIY mode), and also restorable.

Now, the entered frequencies will be:

- Stored in projects
- Stored in the main preset list
- Stored in the bass section preset list
- Stored in the DIY preset list
- and will be remembered if you exit DIY mode (ie, selecting another Root trio).

The **"DIY preset list"** is only shown in DIY Mode. It is different between Rodin MBC and Rodin Eq (not compatible, you can't import lists from one device to the other). The factory preset list gives you a few examples of how it can be stored. Of course, you are free to input non tempered frequencies.
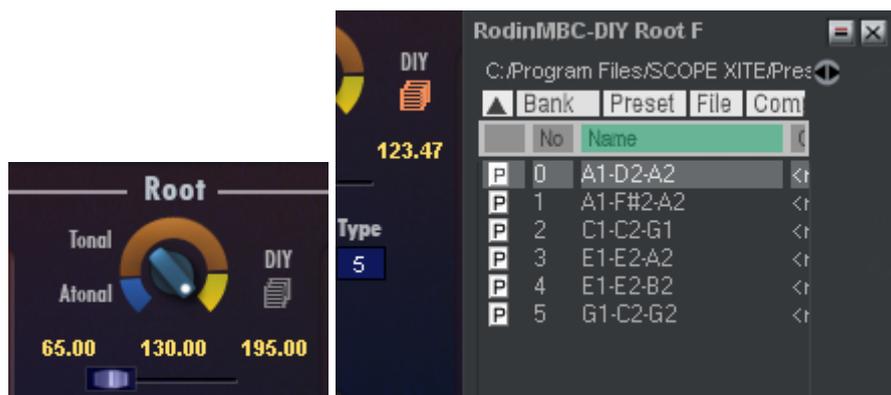
TIPS

- It is generally better to use frequencies within the bass band range, otherwise they won't be heard.
- It is normal for the Gain to affect frequencies differently, as intended in the Rodin design. This is further modified with the "customize" potentiometers, and you can also try changing the order of your three frequencies to ensure optimal results.
- You can type the same frequency several times, to boost a single frequency by approximately +/- 30dB.

New Values in Rodin MBC

The new values in Rodin MBC can be found in the yellow section of the Root selector. They are 3 octaves trios from 41.20 Hz (E1) to 82.41 (E2) where the 2 upper frequencies cover octave two and 3 of the frequency table.

This "yellow section" is not present in Rodin Eq, because it can be replicated in the DIY presets of Rodin Eq. The reason for this difference is that Rodin MBC "yellow section" was made before creating the DIY section, and is good enough to remain there.

The lower value is

    41hz (E1) / 82hz (E2) / 164hz (E3)

and the higher value is

    82hz (E2) / 164hz (E3) / 326hz (E4)

with all notes in between, except D#2 (77Hz), which was sacrificed to make room for the DIY position.

Rodin MBC & Rodin Eq - Section preset list

The 3 preset buttons above each bass, mids and high sections restored only frequencies. Now it restores the whole section including the gains, q, and other parameters.

You can import the Main preset list into these, and it will load only the section you are in (i.e., either the bass, medium or high section). Save regularly your presets so this list gets bigger in the long run.

Note that you can import presets from the previous version of Rodin Eq, but you will not be able to create new ones in Rev.2, because it will now store the parameters of the whole section.