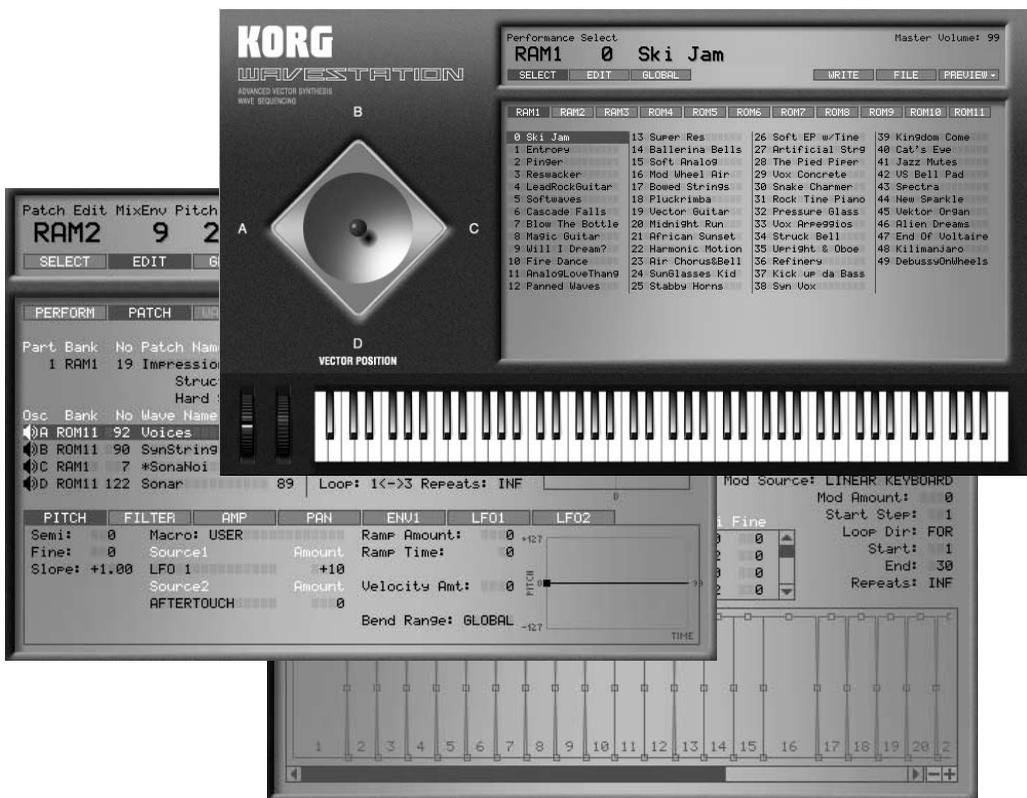


KORG Legacy Collection

Virtual Instruments/Effects Plug-ins



KORG Legacy Collection
WAVESTATION
New WAVESTATION function

KORG

New WAVESTATION functions

Functions added in version 1.0.1

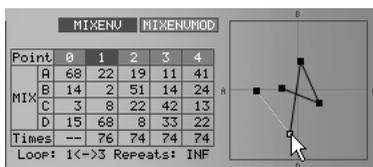
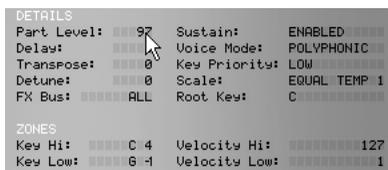
The following functions were added in version 1.0.1 of the WAVESTATION software synthesizer.

1. Parameter Reset function

A new function has been added to let you reset any of the WAVESTATION parameters to their previously saved value. This provides a convenient way of reverting to the original settings without exiting the edit window.

Resetting a specific parameter

On your computer keyboard, hold down the [Ctrl] (Mac: [Command]) key and click the value of a parameter; it will be reset to the previously saved value. Even graphically-displayed parameters - such as the Level value of the steps in a wave sequence - can be reset using this same method; holding down the [Ctrl] (Mac: [Command]) key and clicking on a graphic element or point to reset that parameter to its saved value.



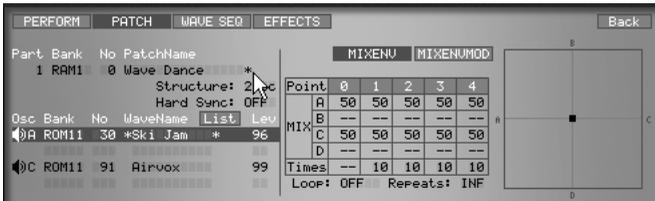
Resetting all of the parameters in a performance

You can reset all the parameters of the current performance using a single operation. When you edit a performance, an "*" will appear to the right of the performance name shown in the upper part of the display. Hold down your computer's [Ctrl] (Mac: [Command]) key and click the "*"; all parameters of the current performance will be reset to their saved values.



Resetting all of the parameters in a patch

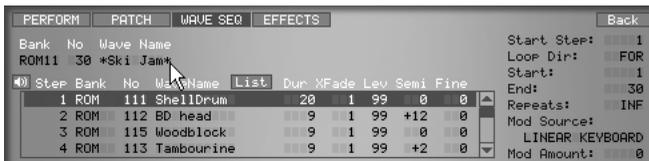
You can reset all the parameters of the current patch using a single operation. When you edit a patch, an “*” will appear to the right of the “PatchName” shown in the Patch Edit page. Hold down your computer’s [Ctrl] (Mac: [Command]) key and click the “*”; all parameters of the selected patch will be reset to their saved values.



⚠ The “*” shown at the right of the patch name in the Patch Assign area of the Performance Edit page will not reset the parameters.

Resetting all of the parameters in a wave sequence

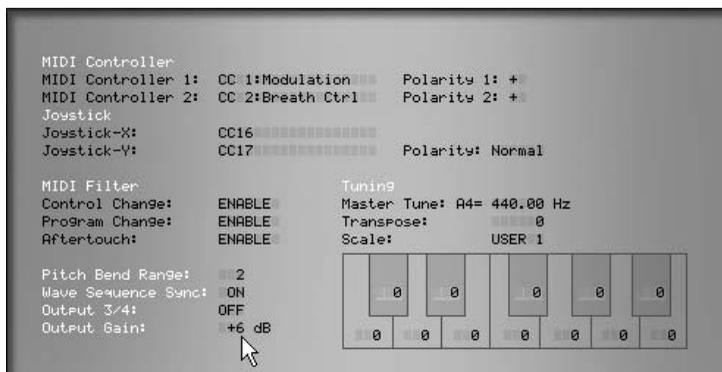
You can reset all the parameters in a wave sequence using a single operation. When you edit a wave sequence, an “*” will appear to the right of the “Wave Name” shown in the wave sequence setting area of the WaveSeq Edit page. Hold down your computer’s [Ctrl] (Mac: [Command]) key and click the “*”; all parameters of the selected wave sequence will be reset to their saved values.



⚠ The “*” shown at the right of the wave sequence name in the WAVES area of the Performance Edit page will not reset the parameters.

2. Output Gain parameter

An “Output Gain” parameter has been added to the Global page.



Output Gain[0dB, +6dB, +12dB]

Adjusts the output level of the WAVESTATION software synthesizer. You can select either 0 dB, +6 dB, or +12 dB. The default value is 0 dB. The value will change each time you click on it with the mouse.

 Certain sounds may distort if you set the Output Gain to +6 dB or +12 dB. In this case, try adjusting the “Part Level” of each part or the “Master Volume.”

3. Importing “Mixed Data” types of system exclusive data

“Mixed Data” has been added to the list of various types of original WAVES TATION system exclusive data that can be loaded in using the [IMPORT] button. Mixed Data combines multiple items of system exclusive data in a single file. Most commonly, Mixed Data will contain all the information required to configure a single bank - performances, patches and wavesequences. Version 1.0.1 or later of the WAVESTATION software synthesizer is able to load the following types of system exclusive data:

Mixed Data, All Data, All Performances, Single Performance, All Patches, Single Patch, Wave Sequences, Micro Tune Scale

Functions added in version 1.1.0

The following features were added in version 1.1.0 of the WAVESTATION software synthesizer.

1. Wave sequence editing

Multiple steps in a wave sequence can be edited simultaneously.

1 Select the steps that you want to edit simultaneously.

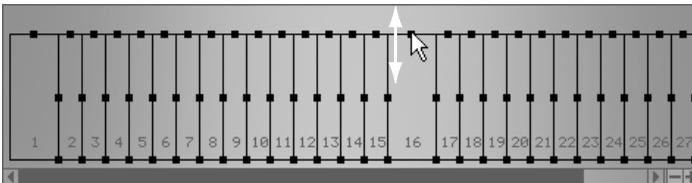
To select multiple steps, hold down the [Shift] key or [Ctrl] (Mac: [Command]) key, and click a step number (“Step”) in the step assign area or the graphic in the step display. If you hold down the [Shift] key and click on two points, those two points and all steps in between will be selected. If you hold down the [Ctrl] (Mac: [Command]) key, each of the individual steps you click on will be selected.

note You can select all steps by double-clicking the step number (“Step”).

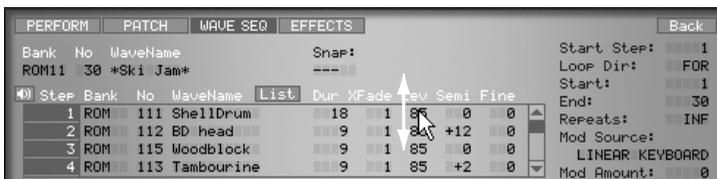
2 Edit the parameters of the selected steps.

You can use either of the following editing methods. The parameters of all selected steps will be edited simultaneously.

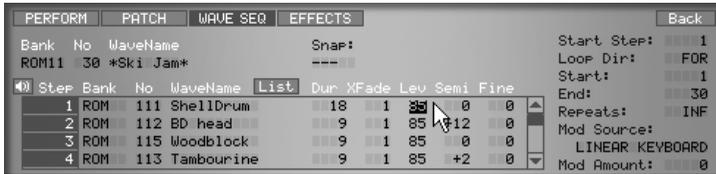
1. Drag on a point in the step display.



2. Drag on a parameter value in the step assign area.



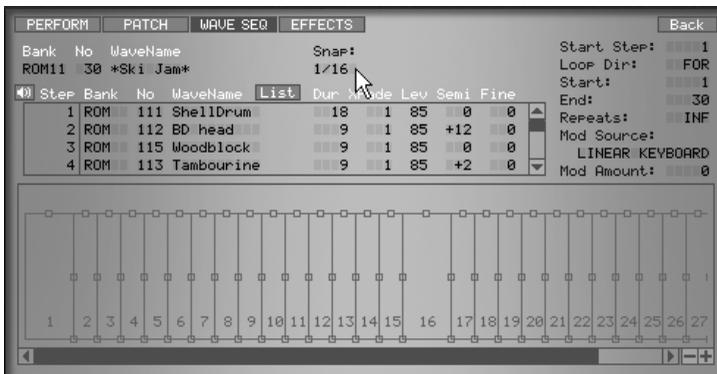
- Double-click a parameter value in the step assign area and enter the desired value from your computer keyboard.



note When editing the “Dur (Duration)” or “Lev (Level)” parameters, the relative proportion between the values of each step will be preserved as you edit. When editing the “No (Wave No.),” “XFade (Crossfade),” “Semi (Semitone),” or “Fine” parameters, the existing difference in value between the selected steps will be preserved as you edit.

2. Snap function

A “Snap” function has been added to the wave sequence settings. This lets you specify the minimum unit by which the “Dur (Duration)” parameter can be edited. This allows you to synchronize the wave sequence to the MIDI clock (tempo setting) of an external MIDI device or host application.



Snap.....[---, 1/1...1/16D]
 This feature lets you specify the minimum resolution for the “Dur (Duration)” parameter.
 If “Snap” is set to ---, “Snap” will not affect the “Dur (Duration)” parameter; you will be able to edit the “Dur (Duration)” value in steps of 1.

If “Snap” is set to a value of **1/1–1/16D**, it will determine the minimum note-value resolution that can be used to edit the “Dur (Duration)” parameter.

“Snap”	“Dur (Duration)”	“Snap”	“Dur (Duration)”	“Snap”	“Dur (Duration)”
1/1	96 (♩)	1/2T	32 (♩ ₃)	1/2D	72 (♩.)
1/2	48 (♩)	1/4T	16 (♩ ₃)	1/2D	72 (♩.)
1/4	24 (♩)	1/8T	8 (♩ ₃)	1/8D	18 (♩.)
1/8	12 (♩)	1/16T	4 (♩ ₃)	1/16D	9 (♩.)
1/16	6 (♩)	1/32T	2 (♩ ₃)	---	1
1/32	3 (♩)				

When the wave sequence is synchronized to an external MIDI clock, “Dur (Duration)” values indicate the number of MIDI clocks in each step. A quarter note contains 24 clocks, an eighth note contains 12 clocks, and a sixteenth note contains 6 clocks. (KORG Legacy Collection WAVESTATION owner’s manual, p.48) For example if “Step” is set to 1/16 (sixteenth note), you can set the “Dur (Duration)” value of the selected step in multiples of sixteenth notes; i.e., multiples of six (6, 12, 18, 24, ...).

note If you want the wave sequence to synchronize with the MIDI clock (tempo setting) of an external MIDI device or host application, turn the Global page “Wave Sequence Sync” parameter ON. (KORG Legacy Collection WAVESTATION owner’s manual, p.63)

⚠ The value of the Snap setting will not be saved with your data, and will be set to the default “--” setting each time you start the WAVESTATION program.

3. Using NRPN to edit parameters

Some of the WAVESTATION software's parameters can now be edited via NRPN (Non-Registered Parameter Number) messages. NRPN messages are a type of exclusive MIDI message that can be used freely by musical instrument manufacturers and devices. These messages also make use of MSB (Most Significant Bit) and LSB (Least Significant Bit) information to access specific parameters.

Editing procedure

- 1 Use NRPN MSB (CC#99) [Bn, 63, mm] and NRPN LSB (CC#98) [Bn, 62, rr] (n: channel number, mm and rr: upper and lower bytes of the parameter number) to specify the parameter that you want to edit.
- 2 Use Data Entry MSB (CC#6) [Bn, 06, mm] (n: channel, mm: parameter value) to specify the value of the parameter.
The WAVESTATION software uses only the Data Entry MSB (not the LSB).

Editable parameters

You can edit the following parameters. The table "Data Entry MSB values and WAVESTATION software parameter values" describes how Data Entry MSB parameter values correspond to the parameter values in the WAVESTATION software.

- Part Level: [Bn, 63, 00, Bn, 62, 0a, Bn, 06, mm]
- FX-BUS: [Bn, 63, 01, Bn, 62, 0a, Bn, 06, mm]
- Patch No: [Bn, 63, 02, Bn, 62, 0a, Bn, 06, mm]
- BANK: [Bn, 63, 03, Bn, 62, 0a, Bn, 06, mm]
- Detune: [Bn, 63, 04, Bn, 62, 0a, Bn, 06, mm]
- Transpose: [Bn, 63, 05, Bn, 62, 0a, Bn, 06, mm]

n: channel, mm: parameter value, a: part no. 0-7

Data Entry MSB values and WAVESTATION software parameter values

Part Level

MSB	WAVESTATION	MSB	WAVESTATION	MSB	WAVESTATION
0, 1	00	44	34	88	68
2	01	45, 46	35	89	69
3	02	47	36	90	70
4, 5	03	48	37	91, 92	71
6	04	49	38	93	72
7	05	50, 51	39	94	73
8	06	52	40	95	74
9, 10	07	53	41	96, 97	75
11	08	54, 55	42	98	76
12	09	56	43	99	77
13, 14	10	57	44	100, 101	78
15	11	58	45	102	79
16	12	59, 60	46	103	80
17	13	61	47	104	81
18, 19	14	62	48	105, 106	82
20	15	63	49	107	83
21	16	64, 65	50	108	84
22, 23	17	66	51	109, 110	85
24	18	67	52	111	86
25	19	68, 69	53	112	87
26	20	70	54	113	88
27, 28	21	71	55	114, 115	89
29	22	72	56	116	90
30	23	73, 74	57	117	91
31	24	75	58	118, 119	92
32, 33	25	76	59	120	93
34	26	77, 78	60	121	94
35	27	79	61	122	95
36, 37	28	80	62	123, 124	96
38	29	81	63	125	97
39	30	82, 83	64	126	98
40	31	84	65	127	99
41, 42	32	85	66		
43	33	86, 87	67		

FX-BUS

MSB	WAVESTATION	MSB	WAVESTATION	MSB	WAVESTATION
0, 1	BUS-A	44	A:64 / B:36	87, 88	A:28 / B:72
2	A:99 / B:1	45	A:63 / B:37	89	A:27 / B:73
3	A:98 / B:2	46, 47	A:62 / B:38	90	A:26 / B:74
4	A:97 / B:3	48	A:61 / B:39	91	A:25 / B:75
5, 6	A:96 / B:4	49	A:60 / B:40	92	A:24 / B:76
7	A:95 / B:5	50	A:59 / B:41	93, 94	A:23 / B:77
8	A:94 / B:6	51	A:58 / B:42	95	A:22 / B:78
9	A:93 / B:7	52, 53	A:57 / B:43	96	A:21 / B:79
10	A:92 / B:8	54	A:56 / B:44	97	A:20 / B:80
11, 12	A:91 / B:9	55	A:55 / B:45	98, 99	A:19 / B:81
13	A:90 / B:10	56	A:54 / B:46	100	A:18 / B:82
14	A:89 / B:11	57	A:53 / B:47	101	A:17 / B:83
15	A:88 / B:12	58, 59	A:52 / B:48	102	A:16 / B:84
16	A:87 / B:13	60	A:51 / B:49	103	A:15 / B:85
17, 18	A:86 / B:14	61	A:50 / B:50	104, 105	A:14 / B:86
19	A:85 / B:15	62	A:49 / B:51	106	A:13 / B:87
20	A:84 / B:16	63	A:48 / B:52	107	A:12 / B:88
21	A:83 / B:17	64, 65	A:47 / B:53	108	A:11 / B:89
22	A:82 / B:18	66	A:46 / B:54	109	A:10 / B:90
23, 24	A:81 / B:19	67	A:45 / B:55	110, 111	A:9 / B:91
25	A:80 / B:20	68	A:44 / B:56	112	A:8 / B:92
26	A:79 / B:21	69, 70	A:43 / B:57	113	A:7 / B:93
27	A:78 / B:22	71	A:42 / B:58	114	A:6 / B:94
28	A:77 / B:23	72	A:41 / B:59	115	A:5 / B:95
29, 30	A:76 / B:24	73	A:40 / B:60	116, 117	A:4 / B:96
31	A:75 / B:25	74	A:39 / B:61	118	A:3 / B:97
32	A:74 / B:26	75, 76	A:38 / B:62	119	A:2 / B:98
33	A:73 / B:27	77	A:37 / B:63	120	A:1 / B:99
34, 35	A:72 / B:28	78	A:36 / B:64	121	BUS-B
36	A:71 / B:29	79	A:35 / B:65	122, 123	BUS-C
37	A:70 / B:30	80	A:34 / B:66	124	C + D
38	A:69 / B:31	81, 82	A:33 / B:67	125	BUS-D
39	A:68 / B:32	83	A:32 / B:68	126	ALL
40, 41	A:67 / B:33	84	A:31 / B:69	127	PATCH
42	A:66 / B:34	85	A:30 / B:70		
43	A:65 / B:35	86	A:29 / B:71		

BANK

MSB	WAVESTATION	MSB	WAVESTATION
0-11	RAM1	70-81	ROM7
12-23	RAM2	82-93	ROM8
24-34	RAM3	94-104	ROM9
35-46	ROM4	105-116	ROM10
47-58	ROM5	117-127	ROM11
59-69	ROM6		

Patch No.

MSB	WAVESTATION	MSB	WAVESTATION
0-3	----	64- 67	17
4- 7	00	68-71	18
8-10	01	72-74	19
11-14	02	75-78	20
15-17	03	79-81	21
18-21	04	82-85	22
22-24	05	86-88	23
25-28	06	89-92	24
29-31	07	93-95	25
32-35	08	96-99	26
36-39	09	100-103	27
40-42	10	104-106	28
43-46	11	107-110	29
47-49	12	111-113	30
50-53	13	114-117	31
54,-56	14	118-120	32
57-60	15	121-124	33
61-63	16	125-127	34

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