

HAWK-800 Sysex Dump Patch Data Format

Below is a table that provides detail of the format of the patch data in HAWK-800 sysex dump patch data messages. The table below only details the patch data in byte format as it is stored in the HAWK-800 memory. In a Sysex patch dump, each patch data byte is sent as two MIDI data bytes that each contain nibble values (high and low). Two MIDI data bytes are required to form one patch data byte. See the MIDI implementation chart for the format of the entire sysex message and the endian format of the nibbles.

If you send MIDI data values that exceed the maximum value for a parameter then any parameter that has a value that has exceeded the maximum will be set to half of the maximum for that specific parameter.

Byte	Parameter bank and #	Data value range	Parameter Description
1	P1-11	0-2	DC01 Octave
2	P1-12	0-1	DC01 waveform
3	P1-13	0-15	DC01 harmonics
4	P1-14	0-12	DC01 harmonic modulation waveform
5	P1-15	0-3	DC01 harmonic modulation source
6	P1-16	0-15	DC01 harmonic modulation depth
7	P1-17	0-31	DC01 Level
8	P1-18	0-1	DC0 mode single or double
9	P1-21	0-2	DC02 Octave
10	P1-22	0-1	DC02 waveform
11	P1-23	0-15	DC02 harmonics
12	P1-24	0-12	DC02 harmonic modulation waveform
13	P1-25	0-3	DC02 harmonic modulation source
14	P1-26	0-15	DC02 harmonic modulation depth
15	P1-27	0-31	DC02 Level
16	P1-28	0	Not used
17	P1-31	0-12	Interval
18	P1-32	0-3	Detune
19	P1-33	0-15	Noise
20	P1-34	0-99	Delay Time
21	P1-35	0-15	Delay Feedback
22	P1-36	0-31	Delay Modulation Frequency
23	P1-37	0-31	Delay Modulation Intensity
24	P1-38	0-15	Delay Effect Level
25	P1-41	0-99	VCF cut off

26	P1-42	0-2	VCF Keyboard Track
27	P1-43	0-1	EG3 VCF Polarity
28	P1-44	0-15	EG3 VCF cutoff influence
29	P1-45	0-1	EG3 trigger
30	P1-46	0-12	EQ Treble
31	P1-47	0-12	EQ Bass
32	P1-48	0-1	Chorus
33	P1-51	0-31	EG1 Attack
34	P1-52	0-31	EG1 Decay
35	P1-53	0-31	EG1 Break Point
36	P1-54	0-31	EG1 Slope
37	P1-55	0-31	EG1 Sustain
38	P1-56	0-31	EG1 Release
39	P1-57	0	Not used
40	P1-58	0	Not used
41	P1-61	0-31	EG2 Attack
42	P1-62	0-31	EG2 Decay
43	P1-63	0-31	EG2 Break Point
44	P1-64	0-31	EG2 Slope
45	P1-65	0-31	EG2 Sustain
46	P1-66	0-31	EG2 Release
47	P1-67	0	Not used
48	P1-68	0	Not used
49	P1-71	0-31	EG3 Attack
50	P1-72	0-31	EG3 Decay
51	P1-73	0-31	EG3 Break Point
52	P1-74	0-31	EG3 Slope
53	P1-75	0-31	EG3 Sustain
54	P1-76	0-31	EG3 Release
55	P1-77	0	Not used
56	P1-78	0	Not used
57	P1-81	0-4	Velocity operator 1 intensity
58	P1-82	0-1	Velocity operator 1 invert
59	P1-83	0-11	Velocity operator 1 target
60	P1-84	0-4	Velocity operator 2 intensity
61	P1-85	0-1	Velocity operator 2 invert
62	P1-86	0-11	Velocity operator 2 target
63	P1-87	0-6	VCF velocity sensitive intensity
64	P1-88	0-5	VCF velocity sensitive response shape
65	P2-11	0-15	LF01 frequency
66	P2-12	0-15	LF01 delay
67	P2-13	0-1	LF01 free running
68	P2-14	0-1	LF01 delay type

69	P2-15	0-62	LF01 square wave PWM ratio
70	P2-16	0-12	LF03 waveform select
71	P2-17	0-15	LF03 modulation depth of SLF01
72	P2-18	0-3	LF01 start phase degrees
73	P2-21	0-15	LF02 frequency
74	P2-22	0-15	LF02 delay
75	P2-23	0-1	LF02 free running
76	P2-24	0-1	LF02 delay type
77	P2-25	0-62	LF02 square wave PWM ratio
78	P2-26	0-12	LF03 waveform select
79	P2-27	0-15	LF03 modulation depth of SLF02
80	P2-28	0-63	LF02 clock select
81	P2-31	0-12	DCO MG 1st modulator waveform
82	P2-32	0-31	DCO MG 1st modulator source
83	P2-33	0-15	DCO MG 1st modulator depth
84	P2-34	0	Not used
85	P2-35	0-1	DCO MG EG invert
86	P2-36	0-15	DCO MG EG depth
87	P2-37	0	Not used
88	P2-38	0-2	DCO MG mode
89	P2-41	0-12	VCF MG 1st modulator waveform
90	P2-42	0-3	VCF MG 1st modulator source
91	P2-43	0-15	VCF MG 1st modulator depth
92	P2-44	0-12	VCF MG 2nd modulator waveform
93	P2-45	0-3	VCF MG 2nd modulator source
94	P2-46	0-15	VCF MG 2nd modulator depth
95	P2-47	0-1	VCF MG 2nd modulator type
96	P2-48	0-1	12/24db filter cutoff select
97	P2-51	0-99	Resonance set point
98	P2-52	0-12	Resonance MG waveform
99	P2-53	0-3	Resonance MG source
100	P2-54	0-15	Resonance MG depth
101	P2-55	0	Not used
102	P2-56	0-15	Resonance EG depth
103	P2-57	0-1	Resonance EG invert
104	P2-58	0-1	Resonance mode
105	P2-61	0-99	FM-800 set point
106	P2-62	0-12	FM-800 MG waveform
107	P2-63	0-3	FM-800 MG source
108	P2-64	0-15	FM-800 MG depth
109	P2-65	0	Not used
110	P2-66	0-15	FM-800 EG depth
111	P2-67	0-1	FM-800 EG invert

112	P2-68	0-2	Noise mode
113	P2-71	0-15	SLFO3 frequency
114	P2-72	0-62	SLFO3 square wave PWM ratio
115	P2-73	0-1	SLFO3 free running
116	P2-74	0-99	Sequencer clock random sample and hold increment
117	P2-75	0-15	SLFO4 frequency
118	P2-76	0-62	SLFO4 square wave PWM ratio
119	P2-77	0-1	SLFO4 free running
120	P2-78	0-3	SLFO4 start phase degrees
121	P2-81	0-2	DC01 tremolo off, LF01/2 select
122	P2-82	0-15	DC01 tremolo depth
123	P2-83	0-2	DC02 tremolo off, LF01/2 select
124	P2-84	0-15	DC02 tremolo depth
125	P2-85	0-63	Bend depth
126	P2-86	0-15	Portamento slide rate
127	P2-87	0-31	Sustain decay and release EG offset
128	P2-88	0-4	Operating Poly Mode