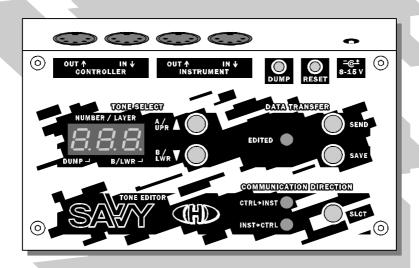


Tone Parameters Editor & Controller



Manual Supplement Roland Juno Alpha 1/2, HS 10/80

OS 002 ver. 2.0



SAVY Roland Juno Alpha 1/2

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FEATURES

Supported instruments: Roland – Juno Alpha 1, Juno Alpha 2, HS-10 (Synth Plus 10), HS-80 (Synth Plus 80). For Roland MKS-50 rack module see separate manual and OS file.

Number of tone memories: 896 (seven memory banks)

Individual tone parameters (36x): all Roland Alpha Juno tone parameters assigned to MIDI CCs

Modifiers (5x): MOD RATE, MOD DEPTH, BRILLIANCE, BASS BOOST, ENV TIME

Macro (1x): ENV 4-SEG ATTACK

Random functions (8x): DCO - Light, DCO - Full, VCF - Light, VCF - Full, VCA, ENV, FX, ALL

2 PREPARE THE INSTRUMENT

To use SAVVY with your Roland Alpha Juno, set the MIDI CH, MIDI EXCL and MIDI PROG C MIDI functions:

- 1) Press the MIDI button on the instrument panel repeatedly until the MIDI CH function is displayed.
- 2) Set value "1" with the alpha dial1.
- 3) Press repeatedly the MIDI button again until the MIDI EXCL function is disaplayed.
- 4) Set value "ON" with the alpha dial.
- 5) Press repeatedly the MIDI button again until the MIDI PROG C function is disaplayed.
- 6) Set value "ON" with the apha dial.

To save the above settings:

- 1) Set the **MEMORY PROTECT** switch on the rear panel of the instrument to "**OFF**" position.
- 2) Press the WRITE button and hold it.
- 3) While holding the **WRITE** button down, press the **MIDI** button.
- 4) Display shows "Write Complete" the new MIDI setting is stored in Juno's memory now.

¹ SAVVY use MIDI channel Nr. 1 as a default after factory reset (see System Parameters table). It can be changed by the user anytime. All other MIDI commands (Note On / Off, Pitch Bend, etc.) for the instrument control must be sent on the same MIDI channel.

INSTRUMENT PARAMETERS – MIDI CC ASSIGNMENT

- Individual tone parameters MIDI CCs assigned to individual tone parameters control.
- Modifiers MIDI CCs assigned to tone modifications controls (+/- offsets), that affect more tone parameters simultaneously accordingly to the fixed algorithms. In the middle position (i.e. value 64), the tone is not affected
- Macros MIDI CCs assigned to macro functions that simplify control of more tone parameters simultaneously (e.g simplified ADSR envelope, etc.).
- Random functions MIDI CC assigned to intelligent random functions set random values of selected tone parameters.

All changes of individual tone parameters, Modifiers and results of Macro and Random functions can be saved in SAVVY's tone memories.

The following table shows factory assigned MIDI CCs numbers, however the assigned MIDI CCs are user definable² and can be changed by user.

	INDIVIDUAL TO	NE PARAMETERS	
Parameter Name	CC Nr.	Parameter Name	CC Nr.
DCO RANGE	24	VCF LFO MOD DEPTH	53
DCO LFO MOD DEPTH	37	VCF KEY FOLLOW	55
DCO ENV MOD DEPTH	40	VCF AFTER DEPTH	56
DCO ENV MODE	39	VCA LEVEL	71
DCO AFTER DEPTH	41	VCA ENV MODE	70
DCO BENDER RANGE	9	VCA AFTER DEPTH	72
DCO WAVEFORM PULSE	27	CHORUS	66
DCO WAVEFORM SAW	28	CHORUS RATE	67
DCO WAVEFORM SUB	29	LFO RATE	13
DCO SUB LEVEL	30	LFO DELAY TIME	14
DCO NOISE LEVEL	23	ENV T1	74
DCO PW/PWM DEPTH	35	ENV L1	75
DCO PWM RATE	36	ENV T2	76
HPF CUTOFF FREQ	49	ENV L2	77
VCF CUTOFF FREQ	50	ENV T3 (DECAY for ENV 4-SEG Macro)	78
VCF RESONANCE	51	ENV L3 (SUSTAIN for ENV 4-SEG Macro)	79
VCF ENV MOD DEPTH	54	ENV T4 (RELEASE for ENV 4-SEG Macro)	80
VCF ENV MODE	52	ENV KEY FOLLOW	81
	MOD	IFIERS	
Modifier Name	CC Nr.	Modifier Name	CC Nr.
MOD RATE	95	BASS BOOST	92
MOD DEPTH	94	ENV TIME	91
BRILLIANCE	93		
	MA	CROS	

		MACI	RO:

Macro Name	CC Nr.
ENV 4-SEG ATTACK	110

	RANDOM FUNCTIONS		
Random Setting Name	CC Nr.		
DCO / VCE / VCA / ENV / EV	2		

² To see how to change the assigned MIDI CCs or make new user map see chapter 5.2.

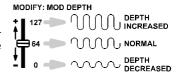
3.1 MODIFIERS

MOD RATE

MOD RATE is an emulation of original Juno's "Tone Modify – Modulation Rate" performance parameter. This modifier changes the rate of the **vibrato**, **growl**, **LFO delay** or **PWM** effects.

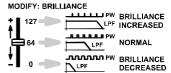
MOD DEPTH

MOD DEPTH is an emulation of original Juno's "Tone Modify – Modulation Depth" performance parameter. This modifier changes the depth of the **vibrato** or **growl** effects.



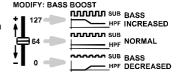
BRILLANCE

BRILLANCE is an emulation of original Juno's "Tone Modify – Brillance" performance parameter. This modifier changes the **Brilliance / sharpness** of the tone



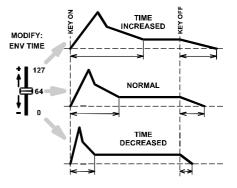
BASS BOOST

BASS BOOST modifier emphasize the bass frequencies of the tone. It is a new Modifier that use **HPF** and **DCO** Suboscillator.



ENV TIME

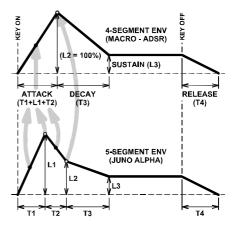
ENV TIME is an emulation of original Juno's "Tone Modify – Envelope Time" performance parameter. This modifier offsets all **time segments of Envelope generator** with single MIDI CC, while preserving all other tone settings. The original tone color can be used with various lengths of envelope from short percussive to long evolving pad.



3.2 MACROS

FNV 4-SFG ATTACK

Roland Alpha Juno series instruments use 5-segment envelope generator. ENV 4-SEG ATTACK Macro emulates **Attack segment** of traditional 4-segment (ADSR) envelope, original tone parameters ENV T3, ENV L3, ENV T4 work as Decay, Sustain and Release segments.



3.3 RANDOM FUNCTIONS

The random functions or "Intelligent random generator" use MIDI CC #3³. There are different random algorithms available as described in the table bellow:

VALUES OF CC ASSIGNED TO RANDOM SETTING FUNCTION CONTROL				
CC Value	Function	Description		
0 ~ 7	n/a	Not used		
8 ~ 15	DCO – Light	Limited number and range of DCO parameters without pitch modulation effects for more predictable results.		
16 ~ 23 DCO – Full		All available DCO parameters in full range, including modulation for more excentric tones and sound effect.		
24 ~ 55	n/a	Not used		
56 ~ 63	VCF – Light	VCF limited range random (both HPF and LPF cutoff and resonance settings)		
64 ~ 71	VCF – Full	All available VCF paramateres in full range (both HPF and LPF, including modulations)		
72 ~ 79	VCA	VCA modulation parameters random		
80 ~ 87	ENV	Envelope (all time and level parameters including keyfollow modulation) random		
88 ~ 103	n/a	Not used		
104 ~ 111	FX	LFO and Chorus parameters random		
112 ~ 119	n/a	Not used		
120 ~ 127	ALL	Full tone random for sound experimenting.		

It is recommended to assign push buttons on your hardware MIDI controller with the different MIDI CC #3 values as described in the table above.

³ Factory preset value. To see how to change number of assigned MIDI CC see chapter 5.2.

4 SYSTEM PARAMETERS

System Parameters define basic functions of SAVVY (MIDI channel for communication, MIDI data flow processing, tone number display format, display brightness, etc.).

SYSTEM PARAMETERS					
Parameter				Factory Default ⁴	
Name	Range	Description	Value	Description	
Global Parameters					
MIDI Channel	0 ~ 15	0: Chnl 1 15: Chnl 16	0	MIDI Channel Nr. 1	
Use Bank Select Command	0~1	0: No / 1: Yes	1	Yes	
MIDI Errors Auto Reset	0~1	0: Off / 1: On	1	On	
Remember last tone	0~1	0: No / 1: Yes	1	Yes	
Tone Number Format	0~1	0: 0 to 895 / 1: 1 to 896	1	Numbers 1 to 896	
Display Brightness	0 ~ 15	0: min 15: max	15	Maximal brightness	
	Inst	→ Ctrl Data Transfer			
Select Device ID for Bulk Dump	0~1	0: Universal / 1:MIDI Chnl Nr.	0	Universal ID Number	
Send All CCs (Tone Change)	0~1	0: No / 1: Yes	1	Yes	
Send One CC (Parameter Change)	0~1	0: No / 1: Yes	1	Yes	
Transfer Pgm Chng from Inst to Ctrl	0~1	0: No / 1: Yes	0	No	
Accept Pgm Chng from Inst	0~1	0: No / 1: Yes	0	No	
Send Manual Tone Slct as Pgm Chng	0~1	0: No / 1: Yes	1	Yes	
Ctrl → Inst Data Transfer					
Cache Modifications in Edit Buffer	0~1	0: No / 1: Yes	1	Yes	
Cache Macro Settings in Edit Buffer	0~1	0: No / 1: Yes	1	Yes	
Cache Random Setting in Edit Buffer	0~1	0: No / 1: Yes	1	Yes	
Transfer Pgm Chng from Ctrl to Inst	0~1	0: No / 1: Yes	0	No	
Accept Pgm Chng from Ctrl	0~1	0: No / 1: Yes	1	Yes	
Send Manual Tone Slct as Pgm Chng	0~1	0: No / 1: Yes	1	Yes	

4.1 GLOBAL PARAMETERS

4.1.1 MIDI Channel

This parameter sets MIDI channel used for the instrument control (**0 for channel 1, 1 for channel 2, etc. up to 15 for channel 16**). All MIDI Channel messages are received and transmitted on selected MIDI channel only. <u>MIDI channel for the SAVVY editor must be the same as selected MIDI channel of the controlled instrument!</u>

4.1.2 Use Bank Select (CC #32)

If the parameter is 1 (i.e. "YES"), SAVVY uses the CC #32 as the Bank Select LSB command for communication between the controller / PC and SAVVY. The CC #32 then defines number of active tone memory bank (0 to 6).

If the parameter is 0 (i.e. "NO"), the CC #32 can be used as universal CC for setting of a tone parameter (see chapter 3).

⁴ Factory preset values are user editable. See chapter 5.1 for details..

4.1.3 MIDI Errors Auto Reset

If the parameter is 1 (i.e. "ON") and an error in MIDI communication occurs, the **communication is reset** and the device continues normal operation.

If the parameter is 0 (i.e. "**OFF**") and an error in MIDI communication occurs, the **device stops operation** and the error status it indicated.

4.1.4 Remember Last Tone

If the parameter is 1 (i.e. "YES"), SAVVY remembers last selected tone number after switching off (for next session).

If the parameter is 0 (i.e. "NO"), SAVVY always starts with the first tone number.

4.1.5 Tone Number Format

This parameter sets the displayed tone number format. It can be either **0** to **895** (parameter value is **0**) or **1** to **896** (parameter value is **1**).

4.1.6 Display Brightness

The parameter sets the display brightness (**0 for minimum**, **15 for maximum**).

4.2 INST → CTRL DATA TRANSFER PARAMETERS

4.2.1 Select Device ID for Bulk Dump

The parameter selects identification number of the SAVVY editor for both transmitted and received MIDI Bulk Dump SysEx Messages.

If the parameter is 1 (i.e. "MIDI Channel"), the Device ID number is the same as number of MIDI channel chosen for MIDI communication with the instrument (i.e. global parameter MIDI Channel).

If the parameter is 0 (i.e. "**Universal ID Number**"), the Device ID number is equal to 127. SysEx messages will be in such setting recognized by any SAVVY editor independently on selected MIDI channel number.

4.2.2 Send All CCs (Tone Change)

If the parameter is 1 (i.e. "YES"), the SAVVY editor **transmits all CCs** assigned to tone parameters **when tone number is selected / changed** (manually by button on front panel or by APR SysEx message or Program Change command from the instrument).

If the parameter is 0 (i.e. "NO"), no CCs are transmitted after tone select / change.

4.2.3 Send One CC (Parameter Change)

If the parameter is 1 (i.e. "YES"), the SAVVY editor transmits MIDI CC assigned to a tone parameter each time the parameter is changed on the instrument (by IPR SysEx message).

If the parameter is 0 (i.e. "NO"), assigned CC is not transmitted after the parameter change.

4.2.4 Transfer Pgm Chng from Inst to Ctrl

If the parameter is 1 (i.e. "YES"), transfer of Program Change command is enabled from the instrument to the controller through the SAVVY editor.

If the parameter is 0 (i.e. "NO"), Program Change command is filtered by the SAVVY editor.

4.2.5 Accept Pgm Chng from Inst

If the parameter is 1 (i.e. "YES"), the SAVVY changes its tone each time a Program Change command is received from the instrument.

If the parameter is 0 (i.e. "NO"), SAVVY ignores the Program Change command.

4.2.6 Send Manual Tone Slct as Pgm Chng

If the parameter is 1 (i.e. "YES"), **Program Change** command is **sent to the controller / PC** each time the tone is changed manually (by buttons on SAVVY's front panel). If "Use Bank Select Command" parameter (see chapter 4.1.2) is "YES", the Bank Select LSB command (i.e. CC #32) is also sent.

If the parameter is 0 (i.e. "NO"), Program Change command is not transmitted.

4.3 CTRL → INST DATA TRANSFER PARAMETERS

4.3.1 Cache Modifications in Edit Buffer

If the parameter is 1 (i.e. "YES"), any change of tone parameters made by a "Modifier" CCs are sent to the instrument and remain in edit buffer (so they can be saved together with the tone parameters in SAVVY's memory).

If the parameter is 0 (i.e. "NO"), the changes are only sent to the instrument and not cached in edit buffer.

4.3.2 Cache Macro Settings in Edit Buffer

If the parameter is 1 (i.e. "YES"), any change of tone parameters made by a "Macro" CC are sent to the instrument and remain in edit buffer (so they can be saved as a new tone parameters values in SAWY's memory).

If the parameter is 0 (i.e. "NO"), the changes are only sent to the instrument and they are not cached in edit buffer.

4.3.3 Cache Random Setting in Edit Buffer

If the parameter is 1 (i.e. "YES"), changes of tone parameters generated by the "Random" CC are sent to the instrument and **remain in edit buffer** (so they can be saved as a new tone parameters values in SAVVY's memory).

If the parameter is 0 (i.e. "NO"), the changes are only sent to the instrument and they are not cached.

4.3.4 Transfer Pgm Chng from Ctrl to Inst

If the parameter is 1 (i.e. "YES"), transfer of **Program Change** command is **enabled from** the connected **controller** / **PC** to the instrument through the editor.

If the parameter is 0 (i.e. "NO"), Program Change command is filtered by the SAVVY.

4.3.5 Accept Pgm Chng from Ctrl

If the parameter is 1 (i.e. "YES"), the editor changes its tone each time a Program Change command is received from the connected controller / PC. Number of newly selected tone conforms to value of the received Program Change command. If "Use Bank Select Command" parameter (see chapter 4.1.2) is "YES", the Bank Select LSB command (i.e. CC #32) is also accepted and active tone bank is also changed.

If the parameter is 0 (i.e. "NO"), Program Change command is ignored by the SAVVY.



4.3.6 Send Manual Tone Sict as Pgm Chng

If the parameter is 1 (i.e. "YES"), **Program Change** command **is sent to the instrument** each time the number is changed manually (by buttons on SAVVY's front panel).

If the parameter is 0 (i.e. "NO"), Program Change command is not transmitted after the tone is selected / changed.

SYSEX MESSAGES GENERATOR

As a support for the users we have made software generator to create System Exclusive messages to control the SAVVY editor. Any necessary SysEx message can be created with this generator without difficult calculating of binary or hexadecimal numbers.

The generator is based on Java scripts so it can run on any computer with web browser (Windows, OSX, etc.)⁵. To send the generated commands you will also need a **utility** to **send** the **generated text**⁶ as a **MIDI SysEx** dump (see chapter 6 for recommended software⁷).

Visit our website and download the "syxgen_002-20_Roland-Juno-Alpha.zip" archive for Roland Juno Alpha 1/2 instrument. Expand the archive to a selected folder on your computer's hard drive (i.e. "index.html", "00220_general.html", "00220_instrument.html", "00220_tone.html" and "00220_help.html" files and "media" sub-folder).

To launch the SysEx messages generator, simply open the "index.html" file in your web browser (e.g. by clicking on the file icon). The generator type selector window opens.

Click on "Go" button to request either System Parameters ①, Instrument Parameters ② or Tone Data ③ SysEx message generator windows.

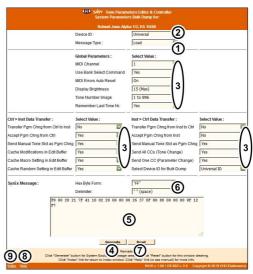


5.1 SYSTEM PARAMETERS WINDOW

5.1.1 Change the system parameters

To change / adjust the system parameters:

- Select "Load" message type ①.
- Select the "Device ID" (2) (It is either the same number as active MIDI Channel Nr. or "Universal"⁸).
- 3. Select / adjust requested values of System parameters to be changed (3).
- 4. Click the "Generate" button (4).
- The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field (5).
- Copy the text in clipboard (CTRL+C) and paste (CTRL+V) to a MIDI Sysex software⁹.
- 7. Send the message to SAVVY 10.
- 8. SAVVY starts operation with the new system parameters settings immediately, no reset is necessary.



⁵ Note that scripts and ActiveX elements must be enabled in web browser for proper function of the generator.

⁶ The generated format of the message is **text.** The text can not be saved as a *.syx or *.mid file directly, hence a text to SysEx utility is needed.

⁷ It is not necessary to use the recommended utility. The same function is provided by various DAW and MIDI SysEx softwares. For required text format and instructions check the documentation of your DAW/software.

⁸ "Universal" ID will be recognized by any SAVY editor.

⁹ See Chapter 6.1.2 for recommended MIDI SysEx software.

¹⁰ SAVVY must be set in "CTRL→INST" communication direction.

5.1.2 Request the contents of system memory

To request the contents of System paramters memory for backup in your computer:

- Select "Request" message type ①.
- 2. Select the "Device ID" (2) (It is either the same number as active MIDI Channel Nr. or "Universal" 11).
- 3. Click the "Generate" button 4.
- 4. The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field ⑤.
- 5. Copy the text in clipboard (CTRL+C) and paste (CTRL+V) in a MIDI Sysex software 12.
- 6. Send the message to SAVVY¹³.
- 7. SAVVY responds immediately it sends the System parameter settings as "Load" type SysEx message 14.
- 8. Now you can save the received message in your computer for further use.

5.1.3 Initialize data

To initialize the System data to factory default values:

- 1. Select "Initialize" message type ①.
- 2. Select the "Device ID" (2) (It is either the same number as active MIDI Channel Nr. or "Universal" 15).
- 3. Click the "Generate" button 4.
- 4. The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field (5).
- 5. Copy the text in clipboard (CTR+C) and paste (CTRL+V) in a MIDI Sysex software 16.
- 6. Send the message to SAVVY¹⁷.
- 7. SAVVY starts operation with the initialized system settings immediately, no reset is necessary.

5.1.4 Other functions

Select "**Hex Byte Form**" and "**Delimiter**" character **(6)** as required for your MIDI SysEx software¹⁸. Default setting of the generator is optimized for the recommended **Pocket MIDI** utility¹⁹ (see Chapter 6.1). However some DAW or MIDI SysEx utilities require different format of the generated text message.

To clear the text field and return all values to their defaults, click the "Reset" button ?.

"Help" link (8) opens new window with brief help.

"Index" link (9) closes this window and returns to initial generator type selection window.

^{11 &}quot;Universal" ID will be recognized by any SAVY editor.

¹² See Chapter 6.1.3 for recommended MIDI SysEx software.

¹³ SAVVY must be set in "CTRL→INST" communication direction and your computer must be connected bi-directonally (both MIDI IN and OUT cables) with SAVVY.

¹⁴ If you are using the recommended MIDI SysEx software, the message should be visible in the "MIDI In Monitor" window - see Chapter 6.1.3.

^{15 &}quot;Universal" ID will be recognized by any SAVY editor.

¹⁶ See Chapter 6.1.2 for recommended MIDI SysEx software.

 $^{^{\}mbox{\scriptsize 18}}$ See the documentation of your DAW for required format.

¹⁹ The default format is also compatible with Bome SendSX and various other softwares.

5.2 INSTRUMENT PARAMETERS WINDOW

5.2.1 Create / adjust the MIDI CC map

You can **create** your own user **MIDI CC map** in this generator window (e.g. to use your modern Virtual analogue synthesizer as a controller for your vintage instrument).

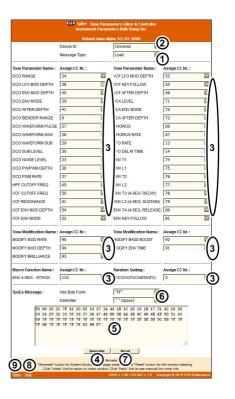
To create your own MIDI CC map:

- 1. Select "Load" message type (1).
- Select the "Device ID" (a) (It is either the same number as active MIDI Channel Nr. or "Universal"²⁰).
- For each of tone parameter and functions, select / change the respective MIDI CC²¹ Nr. as you need (3).
- 4. Click the "Generate" button (4).
- The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field (5).
- Copy the text in clipboard (CTRL+C) and paste (CTRL+V) to a MIDI Sysex software²².
- 7. Send the message to SAVVY²³.
- SAVVY starts operation with the new user MIDI CC mapping immediately, no reset is necessary.

5.2.2 Request MIDI CC map

Actual **MIDI CC map** can be **saved** in your computer for backup. To request the MIDI CC map:

- 1. Select "Request" message type ①.
- 2. Select the "Device ID" ② (It is either the same number as active MIDI Channel Nr. or "Universal"²⁴).
- 3. Click the "Generate" button 4.
- 4. The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field (5).
- 5. **Copy** the text in clipboard (CTRL+C) and **paste** (CTRL+V) in a MIDI Sysex software 25.
- 6. Send the message to SAVVY²⁶.
- 7. SAVVY responds immediately it sends the MIDI CC map as "Load" type SysEx message²⁷.
- 8. Now you can save the received message in your computer for further use.



²⁰ "Universal" ID will be recognized by any SAVY editor.

 $^{^{\}rm 21}$ You can assign more than one parameter to a single MIDI CC Nr.

²² See Chapter 6.1.2 for recommended MIDI SysEx software.

²⁴ "Universal" ID will be recognized by any SAVY editor.

²⁵ See Chapter 6.1.3 for recommended MIDI SysEx software.

²⁶ SAVVY must be set in "CTRL→INST" communication direction and your computer must be connected bi-directonally (both MIDI IN and OUT cables) with SAVVY.

²⁷ If you are using the recommended MIDI SysEx software, the message should be visible in the "MIDI In Monitor" window - see Chapter 6.1.3.

5.2.3 Initialize MIDI CC map

To initialize the MIDI CC map to factory default values:

- 1. Select "Initialize" message type ①.
- 2. Select the "Device ID" 2 (It is either the same number as active MIDI Channel Nr. or "Universal"28).
- 3. Click the "Generate" button 4.
- 4. The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field ⑤.
- 5. Copy the text in clipboard (CTR+C) and paste (CTRL+V) in a MIDI Sysex software 29.
- 6. Send the message to SAVVY³⁰.
- 7. SAVVY starts operation with the initialized MIDI CC map immediately, no reset is necessary.

5.2.4 Other functions

Select "Hex Byte Form" and "Delimiter" character (a) as required for your MIDI SysEx software³¹. Default setting of the generator is optimized for the recommended **Pocket MIDI** utility³² (see Chapter 6.1). However some DAW or MIDI SysEx utilities require different format of the generated text message.

To clear the text field and return all values to their defaults, click the "Reset" button ?.

"Help" link (8) opens new window with brief help.

"Index" link (9) closes this window and returns to initial generator type selection window.

 $^{^{\}rm 28}$ "Universal" ID will be recognized by any SAVY editor.

²⁹ See Chapter 6.1.2 for recommended MIDI SysEx software.

 $^{^{\}rm 31}$ See the documentation of your DAW for required format.

The default format is also compatible with Bome SendSX and various other softwares.

5.3 TONE DATA WINDOW

5.3.1 Create single user tone

A **single tone** can be **created** by entering the individual tone parameter values (e.g. to create tone from a Magazine paper sheets, Video tutorials or advices from other users).

To create your own user tone:

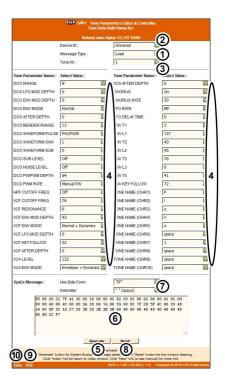
- 1. Select "Load" message type (1).
- Select the "Device ID" (a) (It is either the same number as active MIDI Channel Nr. or "Universal").
- 3. Select the "Tone Nr." you want to create 3.
- 4. Select / change the respective value for each of tone parameters **(4)**.
- 5. Click the "Generate" button (5).
- 6. The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field **6**.
- Copy the text in clipboard (CTRL+C) and paste (CTRL+V) to a MIDI Sysex software³⁴.
- 8. Send the message to SAVVY³⁵.
- SAVVY saves the new tone to selected "Tone Nr." for immediate use.

5.3.2 Request single tone

A **single tone** can be **backed up** (e.g. to share your sounds with other users).

To request single tone data:

- 1. Select "Request" message type 1.
- 2. Select the "Device ID" (It is either the same number as active MIDI Channel Nr. or "Universal" (1)
- 3. Select the "Tone Nr." you want to request / backed-up 3.
- 4. Click the "Generate" button (5).
- 5. The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field (6).
- 6. Copy the text in clipboard (CTRL+C) and paste (CTRL+V) in a MIDI Sysex software³⁷.
- 7. Send the message to SAVVY³⁸.
- 8. SAVVY responds immediately it sends the MIDI CC map as "Load" type SysEx message³⁹.
- 9. Now you can save the received message in your computer for further use.



 $^{^{\}rm 33}$ "Universal" ID will be recognized by any SAVY editor.

³⁴ See Chapter 6.1.2 for recommended MIDI SysEx software.

 $^{^{\}rm 36}$ "Universal" ID will be recognized by any SAVY editor.

³⁷ See Chapter 6.1.3 for recommended MIDI SysEx software.

³⁸ SAVVY must be set in "CTRL->INST" communication direction and your computer must be connected bi-directonally (both MIDI IN and OUT cables) with SAVVY.

³⁹ If you are using the recommended MIDI SysEx software, the message should be visible in the "MIDI In Monitor" window - see Chapter 6.1.3.

5.3.3 Initialize single tone

To initialize a single tone to factory default values:

- 1. Select "Initialize" message type ①.
- 2. Select the "Device ID" (2) (It is either the same number as active MIDI Channel Nr. or "Universal" (40).
- 3. Select the "Tone Nr." you want to initialize (3)
- 4. Click the "Generate" button (4).
- 5. The hexadecimal MIDI SysEx message is generated as a text in the "SysEx Message" field (5).
- 6. Copy the text in clipboard (CTR+C) and paste (CTRL+V) in a MIDI Sysex software 41.
- 7. Send the message to SAVVY⁴².
- 8. SAVVY initializes and saves the selected tone immediately, no reset is necessary.

5.3.4 Other functions

Select "**Hex Byte Form**" and "**Delimiter**" character **(6)** as required for your MIDI SysEx software⁴³. Default setting of the generator is optimized for the recommended **Pocket MIDI** utility⁴⁴ (see Chapter 6.1). However some DAW or MIDI SysEx utilities require different format of the generated text message.

To clear the text field and return all values to their defaults, click the "Reset" button (7).

"Help" link (8) opens new window with brief help.

"Index" link (9) closes this window and returns to initial generator type selection window.

 $^{^{\}rm 40}$ "Universal" ID will be recognized by any SAVY editor.

⁴¹ See Chapter 6.1.2 for recommended MIDI SysEx software.

⁴² SAVVY must be set in "CTRL→INST" communication direction.

 $^{^{\}rm 43}$ See the documentation of your DAW for required format.

⁴⁴ The default format is also compatible with Bome SendSX and various other softwares.

6 RECOMMENDED MIDI SOFTWARE

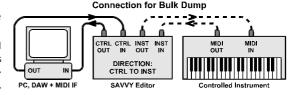
The hexadecimal MIDI SysEx messages created in the Generators (as described in chapter 0) are in **plain text format.** The text can not be saved as a *.syx or *.mid file directly, hence a text to SysEx capable utility or DAW is needed.

6.1 POCKET MIDI

Pocket MIDI⁴⁵ is a utility that can be used to send the text as a SysEx message. It is a simple MIDI monitoring tool for both Windows and Mac OSX platforms. **Pocket MIDI** is a **freeware** for commercial, non-profit or private use.

6.1.1 Setting up the computer⁴⁶ and software

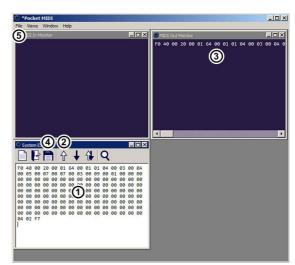
- Download the Pocket MIDI utility at https://www.morson.jp/pocketmidi-webpage/
- 2. Install the utility in your computer.
- Connect SAVVY accordingly to the figure "Connection for Bulk Dump".
- Select the MIDI interface Input and Outputs to device where the SAVVY is connected to (drop-down menu Views → MIDI Settings → Input Port / Outpu Port).



6.1.2 Send the text SysEx message to SAVVY

Basic procedure to send any SysEx data to SAVVY.

- Generate required SysEx message in the SysEx Messages Generator (as described in Chapter 0)⁴⁷.
- Copy the text in clipboard (CTR+C) and paste (CTRL+V) in "System Exclusive" window1.
- 3. Click the "↑" ("Transmit") arrow ② to send the data to SAVVY.
- 4. The sent message appears in the "MIDI Out Monitor" window 3.
- Alternatively you can save the file for future use (either by the floppy icon @ as a *.txt file or in the drop-down "File" menu (\$) as a *.pocketmidi file).



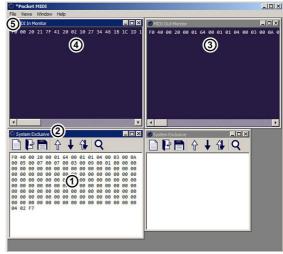
⁴⁵ Pocket MIDI is Copyright © MORSON JAPAN Co.,Ltd. All rights reserved.

⁴⁶ Computer MIDI interface must be active / switched on and all necessary MIDI drivers correctly installed.

⁴⁷ The correct "FF" Hex Byte Form and "" ' (space)" for Delimiter are the initial values after the generator is launched, so there is no need to change them for Pocket MIDI.

6.1.3 Request the SysEx data from SAVVY

- 1. Generate required ("Request" type) SysEx message in the SysEx Messages Generator (as described in Chapter 0)48.
- 2. Copy the text in clipboard (CTR+C) and paste (CTRL+V) in "System Exclusive" window (1).
- 3. Click the "↑" ("Transmit") arrow (2) to send the data to SAVVY.
- 4. The sent message appears in the "MIDI Out Monitor" window (3).
- 5. SAVVY responds with "Load" type SysEx message. The received message appears in the "MIDI In Monitor" window (4).
- 6. Click on the "MIDI In Monitor" window heading and Save the data (File downdrop menu (5)) as a *.pocketmidi file for future use.
- 7. Alternatively you can copy the data document file.



(CTRL+C) from "MIDI In Monitor" window (4) and paste (CTRL+V) to any text editor and save as a *.txt or

6.2 ALTERNATIVE SOFTWARE SOLUTIONS

There are various DAW and MIDI utilites⁴⁹ that can be used for the communication with SAVVY, both commercial and free. Among the others:

MIDI-OX (free for private users, paid for commercial users) – advanced MIDI tool for MS Windows computers: http://www.midiox.com/

Bome SendSX (postcardware for private users, reasonably paid for commercial users) – Simple and effective MS Windows MIDI utility:

https://www.bome.com/products/sendsx

InerziaSysEx (commercial) – advanced MIDI tool for Mac OSX: available on iTunes

Steinberg Cubase Pro (commercial) - DAW for both MS Windows and Mac OSX computers with full sysex support:

http://www.steinberg.net

Apple Logic Pro (commercial) – Mac OSX DAW with full sysex support (all versions up to Logic Pro X): https://www.apple.com/logic-pro/

Cakewalk Sonar (commercial) – MS Windows DAW with full sysex support:

http://www.cakewalk.com/

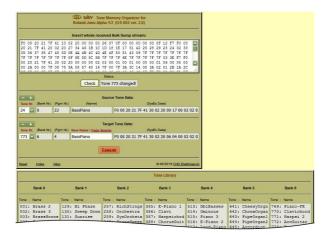
etc.

⁴⁸ The correct "FF" Hex Byte Form and "* ' (space)" for Delimiter are the initial values after the generator is launched, so there is no need to change them for Pocket MIDI

⁴⁹ All mentioned products are copyright of their respective owners.

7 TONE MEMORY ORGANIZER

The Tone Memory Organizer is a support software what we have made for the users to rename and relocate individual tones stored in SAVVY's tone memory. Also whole tone banks can be copied, exchanged or initialized. The software and guide how to use it are available for downloading at our website.





Tone Parameters Editor & Controller Model TPE-1 Nr. 8-361 / Bios v. 1.00 / OS Nr. 002 v. 2.0 Document: 8361100-00220_manual

> Manufacturer: CHD Elektroservis, Czech Republic www.chd-el.cz info@chd-el.cz



Tone Parameters Editor & Controller