

Clavinova®

MIDI Reference

CLP-725

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MIDI Functions

When this instrument and a computer are connected with a USB cable, MIDI communication can be performed. The explanations here cover the settings necessary for performing MIDI communication between both devices.

NOTE

For instructions on how to connect this instrument to the computer, refer to the “Computer-related Operations” downloadable from the Yamaha Downloads website.

MIDI Transmit/Receive Channel Selection

In order to perform MIDI communication between this instrument and a computer, it is necessary to match the corresponding MIDI transmit and receive channels. By setting the MIDI transmit channels on this instrument, the setting of the keyboard or pedal performance or the program change can be transmitted over the channel number corresponding to a specified channel on the computer. By properly setting the MIDI receive channels on this instrument, only data of the specified channel will be played back in the MIDI data received from the computer.

Setting the MIDI Transmit Channel

While holding down [DEMO/SONG] and [PIANO/VOICE], press the C4 – D#4 keys.

Default setting: Ch 1

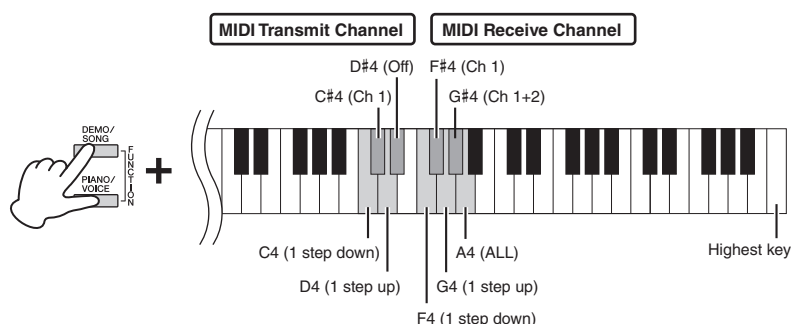
Setting range: Ch 1 – 16, off

Setting the MIDI Receive Channel

While holding down [DEMO/SONG] and [PIANO/VOICE], press the F4 – A4 keys.

Default setting: ALL

Setting range: Ch 1 – 16, 1+2, ALL



MIDI transmission channels in Dual

Voice 1 data is transmitted on the channel set up here.

Voice 2 data is transmitted on the next greater channel number relative to the specified channel.

MIDI receive channel = ALL:

This allows simultaneous reception of different parts on all 16 MIDI channels. When SMF Song data is played back on a computer with the Voice of this instrument, this setting is selected. However, when a Voice not available on the instrument is specified, the playback sound may not be suitable.

MIDI receive channel = 1+2:

This allows simultaneous reception on channels 1 and 2 only. When SMF Song data is played back on a computer, this setting is selected for playing back only data of channels 1 – 2 on this instrument.

NOTE

Panel settings (Voices, etc.) of this instrument will not be affected by MIDI messages received from a computer.

NOTE

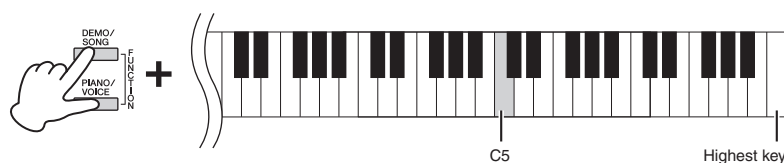
Data for the Demo Songs and Preset Songs cannot be transmitted via MIDI.

Local Control ON/OFF

“Local Control” refers to the fact that, normally, the keyboard of the instrument controls its internal tone generator, allowing the internal voices to be played directly from the keyboard. This situation is “Local Control On,” since the internal tone generator is controlled locally by its own keyboard. Local Control can be turned off as desired, so that the keyboard of the instrument does not play the internal voices.

While holding down [DEMO/SONG] and [PIANO/VOICE], press the C5 key. Pressing the C5 key repeatedly toggles between Local Control On and Off.

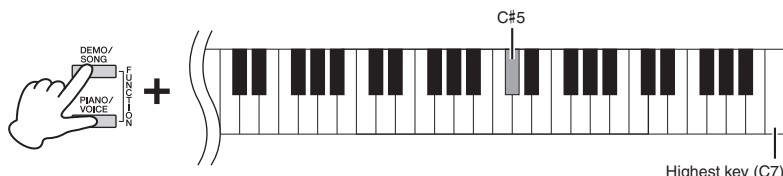
Default setting: ON



Program Change ON/OFF

The information related to Voice changes is called “program change” in MIDI. Sending and receiving program change messages can be enabled or disabled as desired on this instrument. For example, if the relevant transmit and receive parameters are set to ON, Voice change information in this instrument can be transmitted to or received from a computer. (However, the Voice as played from the keyboard is maintained and does not change.)

While holding down [DEMO/SONG] and [PIANO/VOICE], press the C#5 key. Pressing the C#5 key repeatedly toggles between Local Control On and Off.



NOTE

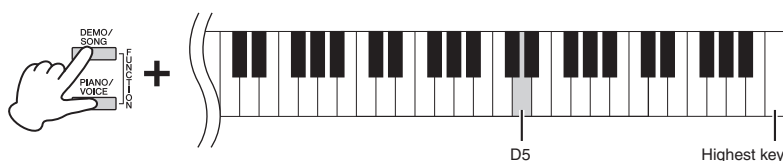
For information on program change numbers for each of the Voices of the instrument, refer to page 4.

Default setting: ON

Control Change ON/OFF

Information related to non-note expressive changes, such as the use of a sustain pedal, is called “control change” in MIDI. Sending and receiving control change messages can be enabled or disabled as desired on this instrument. For example, if the relevant transmit and receive parameters are set to ON, pedal performance information on this instrument can be transmitted to or received from a computer. (However, the performance of pedals and other controls as played from the instrument is maintained and does not change.)

While holding down [DEMO/SONG] and [PIANO/VOICE], press the D5 key. Pressing the D5 key repeatedly toggles between Local Control On and Off.



NOTE

For information on control changes that can be used with the instrument, refer to page 5.

Default setting: ON

Changing Song Playback Channels

Try this operation when playback of Songs loaded from the computer produces an unexpected or unnatural sound.

To set Song Playback Channels to “1+2”:

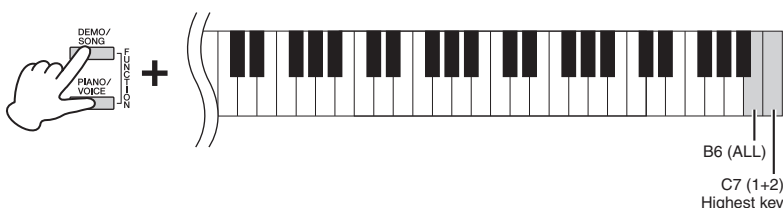
While holding down [DEMO/SONG] and [PIANO/VOICE] simultaneously, press the C7 key.

With this operation, the Song data of only channels 1 and 2 will be played back. When Voices incompatible with this instrument are assigned to channels 3 – 16 and the Piano parts are assigned to the channels 1 and 2, this operation results in the proper or expected sound.

To set Song Playback Channels to “ALL”:

While holding down [DEMO/SONG] and the [PIANO/VOICE] simultaneously, press the B6 key.

With this operation, the Song data of all channels will be played back.



MIDI Data Format

Preset Voice List

Voice Name	MSB (0-127)	LSB (0-127)	Program Change # (1-128)
CFX Grand	108	0	1
Binaural CFX Grand	108	100	1
Bösendorfer	108	6	1
Pop Grand	108	1	2
Stage E.Piano	108	0	5
DX E.Piano	108	0	6
Harpsichord	108	0	7
Vibraphone	108	0	12
Pipe Organ	108	1	20
Jazz Organ	108	0	17
Strings	108	0	49

Effect Type List

Reverb Type

Effect Name	MSB	LSB
Off	0	0
Recital Hall	1	24
Concert Hall	1	4
Chamber	2	24
Club	3	24

Chorus Type

Effect Name	MSB	LSB
Off	0	0
Chorus	65	8
Phaser	72	17
Tremolo	119	0
Rotary	66	18

DSP Type

Effect Name	MSB	LSB
Off	64	0
DelayLCR	5	16
DelayLR	6	0
Echo	7	0
CrossDelay	8	0
Symphonic	68	16
Rotary	69	32
Tremolo	70	18
VibeRotor	119	0
AutoPan	71	21
Phaser	72	16
AutoWah	78	16
Distortion	97	33

MIDI CHANNEL MESSAGE

Application Range	MIDI, Internal Sequencer
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MIDI Events	Status byte	1st Data byte		2nd Data byte		MIDI Formats	MIDI Reception		MIDI Transmission	
	Status	Data (Hex)	Parameter	Data (Hex)	Parameter		Song	Main Layer Left	Panel	Song
Key Off	8nH (n: Channel Number)	kk	Key no. (0-127)	vv	Velocity (0-127)	[GM1] [GM2]	○	×	○	○
Key On	9nH (n: Channel Number)	kk	Key no. (0-127)	vv	Key On: vv=1-127 Key Off: vv=0	[GM1] [GM2]	○	×	○	○
Control Change	BnH	0 (00H)	Bank Select MSB	0-127 (00H...7FH)	(00) Normal	[GM2]	○	×	○	○
		1 (01H)	Modulation	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	×	×	○
		5 (05H)	Portamento Time	0-127 (00H...7FH)	Data	[GM2]	○	×	×	○
		6 (06H)	Data Entry MSB	0-127 (00H...7FH)	Data	[GM2]	○	×	×	○
		7 (07H)	Main Volume	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	×	○	○
		10 (0AH)	Panpot	0-127 (00H...7FH)	L64...C...R63	[GM1] [GM2]	○	×	○	○
		11 (0BH)	Expression	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	×	×	○
		19 (13H)	Key Acceleration	0-127 (00H...7FH)	Key Acceleration (0-127)		○	×	○	○
		32 (20H)	Bank Select LSB	0-127 (00H...7FH)	Data	[GM2]	○	×	○	○
		38 (26H)	Data Entry LSB	0-127 (00H...7FH)	Data	[GM2]	○	×	×	○
		64 (40H)	Sustain (Damper)	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	×	○	○
		65 (41H)	Portamento	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	×	×	○
		66 (42H)	Sostenuto	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	×	○	○
		67 (43H)	Soft Pedal	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	×	○	○
		71 (47H)	Harmonic Content	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	×	×	○
		72 (48H)	Release Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	×	×	○
		73 (49H)	Attack Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	×	×	○
		74 (4AH)	Brightness	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	×	×	○
		75 (4BH)	Decay Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	×	×	○
		76 (4CH)	Vibrate Rate	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	×	×	○
		77 (4DH)	Vibrate Depth	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	×	×	○
		78 (4EH)	Vibrate Delay	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	×	×	○
		84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)		○	×	×	○
		88 (58H)	High-Res Velocity Prefix	0-127 (00H...8FH)	Velocity (0-127)		○	×	○	○
		91 (5BH)	Effect1 Depth (Reverb Send Level)	0-127 (00H...7FH)	Data	[GM2]	○	×	○	○
		93 (5DH)	Effect3 Depth (Chorus Send Level)	0-127 (00H...7FH)	Data	[GM2]	○	×	○	○
		94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data		○	×	×	○
		96 (60H)	RPN Increment	– –	The data byte is ignored.		○	×	×	○
		97 (61H)	RPN Decrement	– –	The data byte is ignored.		○	×	×	○
		98 (62H)	NRPN LSB	0-127 (00H...7FH)	Data		○	×	×	○
		99 (63H)	NRPN MSB	0-127 (00H...7FH)	Data		○	×	×	○
		100 (64H)	RPN LSB	0-127 (00H...7FH)	Data	[GM2]	○	×	×	○
		101 (65H)	RPN MSB	0-127 (00H...7FH)	Data	[GM2]	○	×	×	○
Mode Message	BnH (n: Channel Number)	120 (78H)	All Sound Off	0 (00H)	Data	[GM2]	○	×	×	○
		121 (79H)	Reset All Controllers	0 (00H)	Data	[GM1] [GM2]	○	×	×	○
		122 (7AH)	Local Control	0 127 (00H) (7FH)	OFF ON		○		×	×
		123 (7BH)	All Note Off	0 (00H)	Data	[GM1] [GM2]	○	×	×	○
		124 (7CH)	Omni Off	0 (00H)	Data	[GM2]	○	×	×	○
		125 (7DH)	Omni On	0 (00H)	Data	[GM2]	○	×	×	○
		126 (7EH)	Mono	0-16 (00H...10H)	Data	[GM2]	○	×	×	○
		127 (7FH)	Poly	0 (00H)	Data	[GM2]	○	×	×	○
Program Change	CnH (n: Channel Number)	pp (00H...7FH)	Voice number (0-127)	– –	–	[GM1] [GM2]	○	×	○	○
Channel After Touch	DnH (n: Channel Number)	vv (00H...7FH)	Data	– –	–	[GM1] [GM2]	○	×	×	○
Polyphonic After Touch	AnH (n: Channel Number)	kk (00H...7FH)	Key no. (0-127)	vv (00H...7FH)	Data		○	×	○	○
Pitch Bend Change	EnH (n: Channel Number)	cc (00H...7FH)	LSB	dd (00H...7FH)	MSB	[GM1] [GM2]	○	×	×	○
Realtime Message	F8H MIDI Clock	–	–	–	–		×		○	
	FAH Start	–	–	–	–		○		○	
	FBH Continue	–	–	–	–		×		×	
	FCH Stop	–	–	–	–		○		○	
	FEH Active Sens	–	–	–	–	[GM2]	○		○	
	FFH System Reset	–	–	–	–		×		×	

Parameters controlled by RPN (Registered Parameter Numbers)

NRPN		Data Entry		Parameter	Data Range	MIDI Formats	MIDI Reception (respond/ignored)		MIDI Transmission (generated data)	
MSB	LSB	MSB	LSB				Song	Main Layer Left	Panel	Song
00H	00H	mmH	–	Pitch Bend Sensitivity	mm: 00H-18H (0...+24 [semitones])	[GM1] [GM2]	○	×	×	○
00H	01H	mmH	IIH	Fine Tune	mm: II: 00H 00H -100 [cent] ... mm: II: 40H 00H 0 [cent] ... mm: II: 7FH 7FH 100 [cent]	[GM1] [GM2]	○	×	×	○
00H	02H	mmH	–	Coarse Tune	mm: 28H-40H-58H (-24...0...+24 [semitones])	[GM1] [GM2]	○	×	×	○
00H	05H	mmH	IIH	Modulation Sensitivity	mm: Specified in semitone steps II: Specified in 100/128 cent steps	[GM2]	○	×	×	○
7FH	7FH	–	–	Null	–	[GM2]	○	×	×	○

MIDI PARAMETER CHANGE TABLE

Application Range	MIDI, Internal Sequencer
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*Not received when Receive Parameter SysEx is set to off.

*Not transmitted when Transmit Parameter SysEx is set to off.

MIDI Parameter Change Table (XG SYSTEM)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception		MIDI Transmission	
								Song	Main Layer Left	Panel	Song
00	00	00	4	00-0F 00-0F 00-0F 00-0F	MASTER TUNE	-102.4...0...+102.3 [cent] 1st bit3-0→bit15-12 2nd bit3-0→bit11-8 3rd bit3-0→bit7-4 4th bit3-0→bit3-0	*Panel setting value	○		×	○
		04	1	00-7F	MASTER VOLUME	0...127	7F	○	×	×	○
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	×	×	×	×
		06	1	28-58	TRANSPOSE	-24...0...+24 [semitones]	40	○	×	×	○
		7E	1	00	XG SYSTEM ON	00=XG system ON	—	○	×	×	○
		7F	1	00	ALL PARAMETER RESET	00=ON	—	○	×	×	×

MIDI Parameter Change Table (EFFECT1)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception		MIDI Transmission	
								Song	Main Layer Left	Panel	Song
02	01	00	2	00-7F 00-7F	REVERB TYPE MSB REVERB TYPE LSB	Refer to Effect Type List //	01 (=HALL1) 00	○		○	○
		0C	1	00-7F	REVERB RETURN	∞dB...0dB...+6dB (0...64...127)	40	○		×	○
		0D	1	01-7F	REVERB PAN	L63...C...R63	40	○		×	○
		20	2	00-7F 00-7F	CHORUS TYPE MSB CHORUS TYPE LSB	Refer to Effect Type List //	41 (=CHORUS1) 00	○		○	○
		2C	1	00-7F	CHORUS RETURN	∞dB...0dB...+6dB (0...64...127)	40	○		×	○
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	○		×	○
		2E	1	00-7F	SEND CHORUS TO REVERB	∞dB...0dB...+6dB (0...64...127)	00	○		×	○
		40	2	00-7F 00-7F	VARIATION TYPE MSB VARIATION TYPE LSB	Refer to Effect Type List //	05 (=DELAY L, C, R) 00	○		×	○
		56	1	00-7F	VARIATION RETURN	∞dB...0dB...+6dB (0...64...127)	40	○		×	○
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	○		×	○
		58	1	00-7F	SEND VARIATION TO REVERB	∞dB...0dB...+6dB (0...64...127)	00	○		×	○
		59	1	00-7F	SEND VARIATION TO CHORUS	∞dB...0dB...+6dB (0...64...127)	00	○		×	○
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	○		×	○
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)	7F	○		×	○
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	○		×	○
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	○		×	○
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	○		×	○
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	○		×	○
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	○		×	○

MIDI Parameter Change Table (EFFECT2)

*The EFFECT2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.

Address (H)			Size (H)	Data (H)	Parameter	Description		MIDI Reception		MIDI Transmission	
								Song	Main Layer Left	Panel	Song
03	n	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Refer to Effect Type List //		○		○	○
		0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)		○		○	○
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		○		×	○
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		○		×	○
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63		○		×	○
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63		○		○	○
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63		○		×	○

The second byte of the address is considered as an Insertion effect number.

n: insertion effect number

The Insertion Effect No. range is from 0 to 1. Values outside the range are handled as unknown and ignored.

MIDI Parameter Change Table (MULTI PART)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception		MIDI Transmission	
								Song	Main Layer Left	Panel	Song
08	nn	07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1...2	part 10=02, other parts=00	○	×	○	○
		0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	○	×	○	○
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	○	×	○	○
		41	1	00-7F	SCALE TUNING C	-63...0...+63 [cent]	40	○	×	×	○
		42	1	00-7F	SCALE TUNING C#	-63...0...+63 [cent]	40	○	×	×	○
		43	1	00-7F	SCALE TUNING D	-63...0...+63 [cent]	40	○	×	×	○
		44	1	00-7F	SCALE TUNING D#	-63...0...+63 [cent]	40	○	×	×	○
		45	1	00-7F	SCALE TUNING E	-63...0...+63 [cent]	40	○	×	×	○
		46	1	00-7F	SCALE TUNING F	-63...0...+63 [cent]	40	○	×	×	○
		47	1	00-7F	SCALE TUNING F#	-63...0...+63 [cent]	40	○	×	×	○
		48	1	00-7F	SCALE TUNING G	-63...0...+63 [cent]	40	○	×	×	○
		49	1	00-7F	SCALE TUNING G#	-63...0...+63 [cent]	40	○	×	×	○
		4A	1	00-7F	SCALE TUNING A	-63...0...+63 [cent]	40	○	×	×	○
		4B	1	00-7F	SCALE TUNING A#	-63...0...+63 [cent]	40	○	×	×	○
		4C	1	00-7F	SCALE TUNING B	-63...0...+63 [cent]	40	○	×	×	○
		59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	○	×	○	○

System Exclusive Messages

Application Range	MIDI, Internal Sequencer
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*Not received when Receive Parameter SysEx is set to off.

*Not transmitted when Transmit Parameter SysEx is set to off.

■ System Exclusive Messages (XG)

MIDI Event	Data Format	MIDI Reception		MIDI Transmission	
		Song	Main Layer Left	Panel	Song
XG Parameter Change	FO 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data ... 11110111 F7 = End of Exclusive	O *Refer to Parameter Change Table.	×	O *Refer to Parameter Change Table.	
XG Bulk Dump	FO 43 0n 4C aa bb hh mm ll dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nnnn 0n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data : : 0ddddd dd = Data 0ccccc cc = Checksum 11110111 F7 = End of Exclusive	O *Refer to Parameter Change Table.	×	O *Refer to Parameter Change Table.	
XG Parameter Request	FO 43 3n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	O *Refer to Parameter Change Table. (However, the request for address "0A nn 4v" will be ignored.)	×	×	
XG Dump Request	FO 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	O *Refer to Parameter Change Table. (However, the request for address "0A nn 40" will be ignored.)	×	×	

■ System Exclusive Messages (Others)

MIDI Event	Data Format	MIDI Reception (effective or not for each part)		MIDI Transmission (generated data)	
		Song	Main Layer Left	Panel	Song
MIDI Master Tuning	FO 43 1n 27 30 00 00 0m 0l cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = always 0 (when transmit), n=0-F (when receive) 00100111 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 0000mmmm 0m = Master Tune MSB 00001111 0l = Master Tune LSB 0ccccc cc = don't care 11110111 F7 = End of Exclusive	O		×	×

■ System Exclusive Messages (Preset Voice)

MIDI Event	Data Format	MIDI Reception (effective or not for each part)		MIDI Transmission (generated data)	
		Song	Main Layer Left	Panel	Song
Key Off Sampling Depth	FO 43 73 01 50 11 0n 04 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub-ID 00010001 11 = Sub-ID 0000nnnn 0n = Channel (00-0F) 00000100 04 = Sub-ID (Key Off Sampling Depth) 0ddddd dd = Depth (00-50) 11110111 F7 = End of Exclusive	O	×	×	O
Soft Pedal Depth	FO 43 73 01 50 11 0n 05 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub-ID 00010001 11 = Sub-ID 0000nnnn 0n = Channel (00-0F) 00000101 05 = Sub-ID (Soft Pedal Depth) 0ddddd dd = Depth (00-7F) 11110111 F7 = End of Exclusive	O	×	×	O

*For each Depth value, the reset value is 40H = Voice parameter

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 ○	1 - 16 ○	
Mode	Default Messages Altered	3 × *****	3 × ×	
Note Number	: True voice	0 - 127 *****	0 - 127 0 - 127	
Velocity	Note ON Note OFF	○ 9nH,v=1-127 ○ 8nH,v=64	○ 9nH,v=1-127 ○ 9nH,v=0 or 8nH	
After Touch	Key's Ch's	○ ×	○ ○	
Pitch Bend		○	○ 0 - 24 semi	*1
Control Change	0,32 1,5,11 7,10 19 6,38 64,66,67 65 71-74 84 88 91,93 96-97 98-99 100-101	○ × *2 ○ ○ × *2 ○ × *2 × *2 × *2 ○ ○ × *2 × *2 ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Bank Select Key Acceleration Data Entry Pedal Portamento Sound Controller High-Res Velocity Prefix Effect Depth RPN Inc,Dec NRPN LSB,MSB RPN LSB,MSB
Prog Change	: True #	○ 0 - 127 *****	○ 0 - 127 0,1,4,5,6,11,16,19,48	
System Exclusive		○	○	
Common	: Song Pos. : Song Sel. : Tune	× × ×	× × ×	
System	: Clock Real Time: Commands	○ ○	× ○	
Aux	: All Sound Off : Reset All Cntrls : Local ON/OFF Mes- : All Notes OFF sages: Active Sense : Reset	× × × × ○ ×	○ (120,126,127) ○ (121) ○ (122) ○ (123-125) ○ ×	
Notes: *1 For some Voices, the pitch may not be changed according to the pitch bend setting range. *2 These Control Change messages cannot be transmitted by panel operations, but can be transmitted by Song playback data.				