MIDI Settings

MIDI Overview

The term MIDI is an acronym for Musical Instrument Digital Interface, an international standard for connecting musical instruments, computers, and other devices to allow the exchange of performance data.

■ MIDI Terminals

MIDI terminal	Function
MIDI IN	Receiving note, program change, and other data.
MIDI OUT	Sending note, program change, and other data.

■ MIDI channels

MIDI uses channels to exchange data back and forth between MIDI devices. There are receive (MIDI IN) and transmit (MIDI OUT) channels. Most musical instruments or devices with MIDI functions are equipped with both MIDI IN and OUT jacks and are capable of transmitting and receiving data via MIDI. The receive channels are used to receive data **from** another MIDI device, and the transmit channels are used to transmit data **to** another MIDI device.

The illustration below shows three musical instruments, connected together using MIDI.
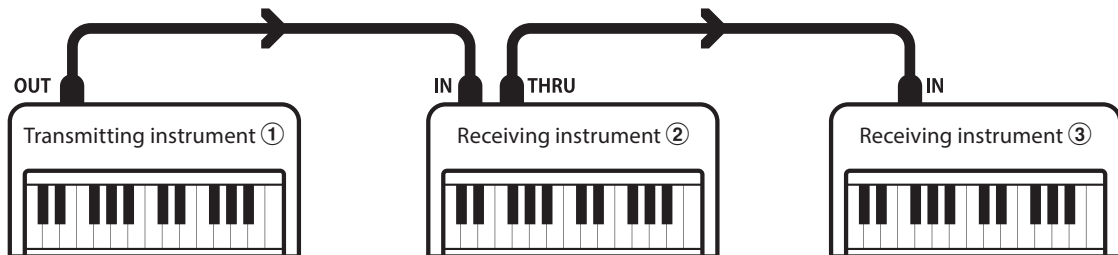
Transmitting instrument ① sends transmit channel and keyboard information to receiving instruments ②/③.
The information arrives at the receiving instruments ②/③.
Receiving instruments ②/③ will respond to MIDI data that is sent if their receive channel is the same as the transmit channel of the transmitting instrument ①. If the channels do not match, the receiving instruments ②/③ will not respond to any data that is sent.

For both receiving and transmitting, channels 1-16 can be used.

■ Recording/playing with a sequencer

When connected to a sequencer (or a computer running MIDI sequencing software), the CN39 digital piano can be used to record and playback multi-track songs, with separate sounds playing simultaneously on each channel.

Sequencer
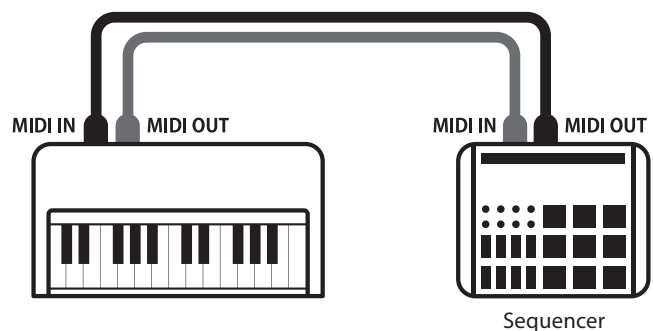
MIDI Settings

■ MIDI Functions

The CN39 digital piano supports the following MIDI functions:

Transmit/receive note information
Transmit/receive note information to/from a MIDI-connected musical instrument or device.

Transmit/receive program change information
Transmit/receive program change data to/from a MIDI-connected musical instrument or device.

Transmit/receive channel settings
Specify transmit/receive channels within the range of 1 to 16.

Transmit/receive pedal data
Transmit/receive sustain, sostenuto, and soft pedal data to/from a MIDI-connected musical instrument or device.

Transmit/receive exclusive data
Transmit/receive front panel or menu function settings as exclusive data.

Receive volume data
Receive MIDI volume data sent from a MIDI-connected musical instrument or device.

Multi-timbral mode setting
Receive multiple channel MIDI data from a MIDI-connected musical instrument or device.

* Please refer to the 'MIDI Implementation Chart' on page 19 for further information regarding the MIDI capabilities of the CN39 digital piano.

■ MIDI Settings

No.	Setting	Description	Default setting
1	MIDI Channel	Specify the channel that is used to transmit/receive MIDI information.	1
2	Send PGM Change #	Send a MIDI program change number from 1 to 128.	1
3	Local Control	Specify whether internal sounds will be heard when the keyboard is pressed.	On
4	Trans. PGM Change	Specify whether program change data is sent when sounds are changed.	On
5	Multi-timbral Mode	Specify whether the instrument can receive Multi-timbral MIDI information.	Off
6	Channel Mute	Specify which channels (1-16) are activated to receive MIDI information.	Play All

* Default settings will be shown in the first LCD display illustration (i.e. Step 1) for each setting explanation below.

■ Entering the MIDI Settings menu

While the normal playing mode screen is shown in the LCD display:

Press the ② FUNCTION button (MENU).

The Function menus will be shown in the LCD display.

Press the ▼ or ▲ buttons to select the MIDI Settings menu.

```
Setting Menus
3 Phones Settings
4 MIDI Settings
5 USB Menu
      2 ENTER 3 EXIT
```

Press the ② FUNCTION button (ENTER) again to enter the MIDI Settings menu.

■ Selecting and adjusting the desired setting

After entering the MIDI Settings menu:

Press the ▼ or ▲ buttons to move the selection cursor over the desired setting.

Press the ◄ or ► buttons to adjust the selected setting.

* To reset the current setting to the default value, press the ◄ and ► buttons simultaneously.

```
MIDI Settings
6 Channel Mute
1 MIDI Channel
     1  (TRS/RCV)
2 Send PGM #
          3 BACK
```

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MIDI Settings

1 MIDI Channel

The MIDI Channel setting allows the transmit/receive channel to be specified. The selected channel will function as both the transmit and receive channel (separate transmit/receive channels cannot be specified).

1. Selecting the MIDI Channel setting

After entering the MIDI Settings menu (page 2):

Press the ▼ or ▲ buttons to select the MIDI Channel setting.

2. Changing the MIDI Channel value

Press the ◀ or ▶ buttons to increase or decrease the value of the MIDI Channel setting.

* The MIDI Channel value can be adjusted within the range of 1~16.

* To reset the MIDI Channel setting to the default value, press the ◀ and ▶ buttons simultaneously.

* Any changes made to the MIDI Channel setting will remain until the power is turned off.

* Preferred MIDI Channel settings can be stored to a Registration Memory for convenient recall, or to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to CN39 Owner's Manual pages 35 and 79 for more information.

3. Exiting the MIDI Channel setting

Press the ③ FUNCTION button (BACK) to exit the MIDI Channel setting and return to the Function Menus screen.

■ Omni mode

When the CN39 digital piano is turned on, the instrument is automatically set to 'omni mode on', allowing MIDI information to be received on all MIDI channels (1~16). When the MIDI Channel setting is used to specify a transmit/receive channel, the instrument will be set to 'omni mode off'.

■ Multi-timbral mode and Split/Dual modes

Using Split mode with Multi-timbral mode enabled	Using Dual mode with Multi-timbral mode enabled
Notes played in the lower section of the keyboard will be transmitted on the channel that is 1 channel higher than the specified channel. For example, if the MIDI channel is set to 3, notes played in the lower section of the keyboard will be transmitted on channel 4.	Notes played will be transmitted on two channels: the specified channel and the channel that is 1 channel higher. For example, if the MIDI channel is set to 3, notes played on the keyboard will be transmitted on channels 3 and 4.

* If the specified MIDI channel is 16, the lower section / layered part will be transmitted on channel 1.

MIDI Settings

2 Send Program Change Number

The Send Program Change Number function is used to send a Program Change Number (1-128) to the connected MIDI device.

1. Selecting the Send Program Change Number function

After entering the MIDI Settings menu (page 2):

Press the ▼ or ▲ buttons to select the Send Program Change Number function.

2. Specifying and transmitting a Program Change Number

Press the ◀ or ▶ buttons to decrease or increase the Program Change Number.

* The program change number can be set within the range of 1~128.

Press the ② FUNCTION button (SEND) to send the specified Program Change Number.

3. Exiting the Send Program Change Number function

Press the ③ FUNCTION button (BACK) to exit the Send Program Change Number function and return to the Function Menus screen.

MIDI Settings

3 Local Control

The Local Control setting determines whether the instrument will play an internal sound when the keys are pressed. This setting may be useful when using the CN39 digital piano to control an external MIDI device that is connected to the instrument's amplifier/speakers.

■ Local Control setting

Local Control	Description
Off	The instrument will transmit information to an external MIDI device only.
On (default)	The instrument will play an internal sound and transmit information to an external MIDI device.

1. Selecting the Local Control setting

After entering the MIDI Settings menu (page 2):

Press the ▼ or ▲ buttons to select the Local Control setting.
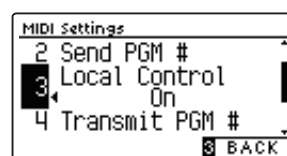
2. Changing the Local Control setting

Press the ◀ or ▶ buttons to turn the Local Control setting on or off.

* To reset the Local Control setting to the default setting, press the ◀ and ▶ buttons simultaneously.

* Any changes made to the Local Control setting will remain until the power is turned off.

* Preferred Local Control settings can be stored to a Registration Memory for convenient recall, or to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to CN39 Owner's Manual pages 35 and 79 for more information.
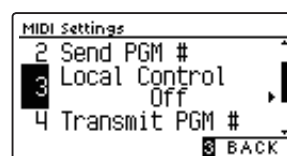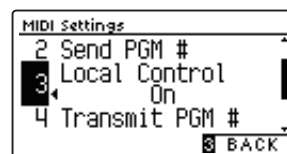
3. Exiting the Local Control setting

Press the ③ FUNCTION button (BACK) to exit the Local Control setting and return to the Function Menus screen.

MIDI Settings

4 Transmit Program Change Numbers

The Transmit Program Change Numbers setting determines whether the CN39 digital piano will transmit program change information via MIDI when the instrument's panel buttons are pressed.

■ Transmit Program Change Numbers setting

Transmit PGM#	Multi-timbral setting	Effect of pressing panel buttons
On (default)	Off, On1	SOUND buttons will send PGM# shown in the left column*.
On	On2	SOUND buttons will send PGM# shown in the right column*.
Off	Off	Program Change information will not be transmitted via MIDI.

* Please refer to the 'Program Change Number List' on page 9.

1. Selecting the Transmit Program Change Numbers setting

After entering the MIDI Settings menu (page 2):

Press the ▼ or ▲ buttons to select the Transmit Program Change Numbers setting.

```
MIDI Settings
3 Local Control
4 Transmit PGM #
        On
5 Multi Timbre
              3 BACK
```

2. Changing the Transmit Program Change Numbers setting

Press the ◄ or ► buttons to turn the Transmit Program Change Numbers setting on or off.

* To reset the Transmit Program Change Numbers setting to the default setting, press the ◄ and ► buttons simultaneously.

* Any changes made to the Transmit Program Change Numbers setting will remain until the power is turned off.

* Preferred Transmit Program Change Numbers settings can be stored to a Registration Memory for convenient recall, or to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to CN39 Owner's Manual pages 35 and 79 for more information.

```
MIDI Settings
3 Local Control
4 Transmit PGM #
        On
5 Multi Timbre
              3 BACK
```

⬇

```
MIDI Settings
3 Local Control
4 Transmit PGM #
        Off
5 Multi Timbre
              3 BACK
```

3. Exiting the Transmit Program Change Numbers setting

Press the ③ FUNCTION button (BACK) to exit the Transmit Program Change Numbers setting and return to the Function Menus screen.

■ Omni mode

■ When using Dual or Split mode, On/Off information and sound type settings for are transmitted as exclusive data, however program change numbers will not be transmitted.

■ Program change numbers will also be transmitted when Multi-timbral mode is set to On1 or On2.

MIDI Settings

5 Multi-timbral Mode

The Multi-timbral Mode setting determines whether or not the CN39 digital piano is able to receive MIDI information on more than one MIDI channel simultaneously. This allows the instrument to play back multi-track, multi-timbral performance data sent from an external MIDI device.

■ Multi-timbral Mode setting

Multi-timbral Mode	Selected sound
Off (default)	The sound shown in the left column is selected*.
On1	The sound shown in the left column is selected*.
On2	The sound shown in the right column is selected*.

* Please refer to the 'Program Change Number List' on page 9.

1. Selecting the Multi-timbral Mode setting

After entering the MIDI Settings menu (page 2):

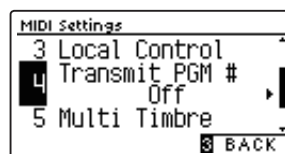Press the ▼ or ▲ buttons to select the Multi-timbral Mode setting.
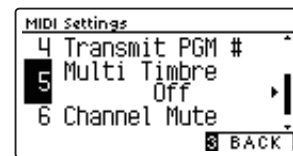
2. Changing the Multi-timbral Mode setting

Press the ◄ or ► buttons to change turn the Multi-timbral Mode setting.

* To reset the Multi-timbral Mode setting to the default setting, press the ◄ and ► buttons simultaneously.

* Any changes made to the Multi-timbral Mode setting will remain until the power is turned off.

* Preferred Multi-timbral Mode settings can be stored to a Registration Memory for convenient recall, or to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to CN39 Owner's Manual pages 35 and 79 for more information.
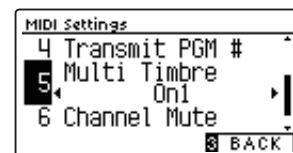
3. Exiting the Multi-timbral Mode setting

Press the ③ FUNCTION button (BACK) to exit the Multi-timbral Mode setting and return to the Function Menus screen.

MIDI Settings

6 Channel Mute

The Channel Mute setting determines which MIDI channels (1-16) are activated to receive MIDI information when Multi-timbral mode is enabled.

* This setting is only available when the Multi-timbral Mode setting is set to 'On1' or 'On2'.

1. Selecting the Channel Mute setting

After entering the MIDI Settings menu (page 2):

Press the ▼ or ▲ buttons to select the Channel Mute setting.

Press the ② FUNCTION button (EDIT).

The Channel Mute selection screen will be shown in the LCD display.

```
MIDI Settings
 5 Multi Timbre
 6 Channel Mute
    →Press ②
 1 MIDI Channel
              ② EDIT ③ BACK
```

2. Selecting and playing/muting channels

Press the ▼ or ▲ buttons to select the desired MIDI channel.

Press the ◄ or ► buttons to alternate between 'Play' and 'Mute' states.

* To reset the Channel Mute setting to the default value, press the ◄ and ► buttons simultaneously.

* Any changes made to the Channel Mute setting will remain until the power is turned off.

* Preferred Channel Mute settings can be stored to a Registration Memory for convenient recall, or to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to CN39 Owner's Manual pages 35 and 79 for more information.

```
MIDI Settings
16 Ch 16Mute
 1 Ch  1Mute
          Play
 2 Ch  2Mute
              ③ BACK
```

```
MIDI Settings
16 Ch 16Mute
 1 Ch  1Mute
          Mute       ►
 2 Ch  2Mute
              ③ BACK
```
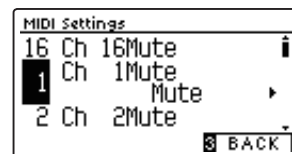
3. Exiting the Channel Mute function

Press the ③ FUNCTION button (BACK) to exit the Channel Mute adjustment screen and return to the MIDI Settings menu.

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
PIANO1					
SK ConcertGrand	0	1	121	0	1
EX ConcertGrand	0	2	95	27	1
SK-5 GrandPiano	0	3	95	30	1
Studio Grand	0	4	121	1	1
Studio Grand 2	0	5	95	28	1
Mellow Grand	0	6	121	2	1
Mellow Grand 2	0	7	95	29	1
PIANO2					
Upright Piano	0	8	95	25	1
Standard Grand	0	9	95	16	1
Pop Grand	0	10	95	31	1
Upright Piano 2	0	11	95	26	1
Modern Piano	0	12	121	0	2
Upright Piano 3	0	13	95	34	1
Honky Tonk	0	14	121	0	4
E.PIANO					
Classic E.Piano	0	15	121	0	5
60's E.P.	0	16	121	3	5
Modern E.P.	0	17	121	0	6
Electric Grand	0	18	121	0	3
Classic E.P. 2	0	19	95	3	5
Classic E.P. 3	0	20	95	5	5
Modern E.P. 2	0	21	95	6	6
ORGAN					
Jazz Organ	0	22	121	0	18
Blues Organ	0	23	121	0	17
Ballad Organ	0	24	95	5	17
Gospel Organ	0	25	95	3	17
Church Organ	0	26	121	0	20
Mellow Flutes	0	27	95	48	20
Medium Ensemble	0	28	95	42	20
Loud Ensemble	0	29	95	43	20
HARPSI & MALLETS					
Harpsichord	0	30	95	6	7
Vibraphone	0	31	121	0	12
Clavi	0	32	121	0	8
Marimba	0	33	121	0	13
Celesta	0	34	121	0	9
Music Box OctUP	0	35	95	3	11
STRINGS & CHOIR					
Slow Strings	0	36	95	1	45
String Pad	0	37	95	8	49
Warm Strings	0	38	95	1	49

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
String Ensemble	0	39	121	0	49
Choir	0	40	121	0	53
Choir 2	0	41	95	53	54
New Age	0	42	121	0	89
Atmosphere	0	43	121	0	100
BASS					
Wood Bass	0	44	121	0	33
Electric Bass	0	45	121	0	34
Fretless Bass	0	46	121	0	36
W. Bass & Ride	0	47	95	1	33
OTHERS : PIANO					
Jazz Grand	0	48	95	8	1
Studio Grand 3	0	49	95	17	1
Mellow Grand 3	0	50	95	18	1
Rock Piano	0	51	121	1	2
New Age Piano	0	52	95	9	1
New Age Piano 2	0	53	95	10	1
New Age Piano 3	0	54	95	11	1
Piano Octaves	0	55	95	1	1
Wide Honky Tonk	0	56	121	1	4
OTHERS : E.PIANO					
Electric Grand2	0	57	121	1	3
Dolce E.P.	0	58	95	2	5
Crystal E.P.	0	59	95	1	6
Tremolo E.P.	0	60	95	1	5
Classic E.P. 4	0	61	121	1	5
Classic E.P. 5	0	62	121	2	5
New Age E.P.	0	63	95	2	6
Modern E.P. 3	0	64	121	1	6
Modern E.P. 4	0	65	121	2	6
Legend E.P.	0	66	121	3	6
Phase E.P.	0	67	121	4	6
OTHERS : HARPSI & MALLETS					
Harpsichord wTC	0	68	121	0	7
Harpsichord 2	0	69	121	3	7
Harpsichord Oct	0	70	121	1	7
WideHarpsichord	0	71	121	2	7
Synth Clavi	0	72	121	1	8
Glockenspiel	0	73	121	0	10
Music Box	0	74	121	0	11
Toy Piano	0	75	95	1	11
Wide Vibraphone	0	76	121	1	12
Wide Marimba	0	77	121	1	13
Xylophone	0	78	121	0	14

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Handbells	0	79	95	1	15
Tubular Bells	0	80	121	0	15
Church Bells	0	81	121	1	15
Carillon	0	82	121	2	15
Dulcimer	0	83	121	0	16
OTHERS : DRAWBAR					
Drawbar Organ	0	84	95	1	17
Drawbar Organ 2	0	85	95	2	17
Drawbar Organ 3	0	86	121	2	18
Drawbar Organ 4	0	87	121	3	17
Drawbar Organ 5	0	88	121	1	17
Jazzer	0	89	95	1	18
Soft Solo	0	90	95	8	17
ElectronicOrgan	0	91	95	9	17
60's Organ	0	92	121	2	17
Perc. Organ	0	93	121	1	18
Tibia Bass	0	94	95	14	18
Rock Organ	0	95	121	0	19
OTHERS : CHURCHORGAN					
Principal Oct.	0	96	95	24	20
Soft Diapason	0	97	95	45	20
Soft Strings	0	98	95	41	20
Bright Ensemble	0	99	95	47	20
Full Organ	0	100	95	44	20
Reed Ensemble	0	101	95	46	20
Diapason	0	102	95	7	20
Full Ensemble	0	103	95	1	21
Diapason Oct.	0	104	95	6	20
Theater Organ	0	105	95	1	20
8' Celeste	0	106	95	5	20
Small Ensemble	0	107	95	8	20
Reeds	0	108	95	10	20
Chiffy Tibia	0	109	95	17	20
Principal Pipe	0	110	95	22	20
Church Organ 2	0	111	121	1	20
Church Organ 3	0	112	121	2	20
Reed Organ	0	113	121	0	21
Puff Organ	0	114	121	1	21
OTHERS : ACCORDION					
FrenchAccordion	0	115	121	0	22
Fr. Accordion 2	0	116	95	1	22
Accordion	0	117	121	1	22
Accordion 2	0	118	95	2	22
Blues Harmonica	0	119	95	2	23

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Harmonica	0	120	121	0	23
Tango Accordion	0	121	121	0	24
OTHERS : GUITAR					
FingerNylon Gtr	0	122	95	4	25
Nylon Acoustic	0	123	121	0	25
Nylon Acoustic2	0	124	121	2	25
Nylon Acoustic3	0	125	121	3	25
Ukulele	0	126	121	1	25
Ballad Guitar	0	127	95	6	26
Steel Guitar	0	128	121	0	26
Steel Guitar 2	1	1	121	3	26
12 String	1	2	121	1	26
Mandolin	1	3	121	2	26
Jazz Guitar	1	4	121	0	27
Pedal Steel	1	5	121	1	27
Rhythm Guitar	1	6	121	2	28
Electric Guitar	1	7	121	0	28
E. Guitar 2	1	8	121	1	28
E. Guitar 3	1	9	121	2	29
Muted Electric	1	10	121	0	29
Cutting Guitar	1	11	121	1	29
Country Lead	1	12	121	3	29
OverdriveGuitar	1	13	121	0	30
Dynmic Ov.drive	1	14	121	1	30
Distortion	1	15	121	0	31
Dist Feedback	1	16	121	1	31
Dist Rhythm	1	17	121	2	31
E.Gtr Harmonics	1	18	121	0	32
Guitar Feedback	1	19	121	1	32
OTHERS : BASS					
Wood Bass 2	1	20	95	2	33
Wood Bass 3	1	21	95	4	33
Wood Bass 4	1	22	95	5	33
Electric Bass 2	1	23	95	5	34
Electric Bass 3	1	24	95	6	34
FingerSlap Bass	1	25	121	1	34
Pick Bass	1	26	121	0	35
Slap Bass	1	27	121	0	37
Slap Bass 2	1	28	121	0	38
Synth Bass	1	29	121	0	39
Synth Bass 2	1	30	121	0	40
Synth Bass 3	1	31	121	2	39
Synth Bass 4	1	32	121	1	40
Warm Synth Bass	1	33	121	1	39

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Clavi Bass	1	34	121	3	39
Hammer Bass	1	35	121	4	39
Rubber Bass	1	36	121	2	40
Attack Bass	1	37	121	3	40
OTHERS:STRINGS&ORCHINST					
Violin	1	38	121	0	41
Slow Violin	1	39	121	1	41
Viola	1	40	121	0	42
Cello	1	41	121	0	43
Contrabass	1	42	121	0	44
Tremolo Strings	1	43	121	0	45
Strings & Brass	1	44	121	1	49
60's Strings	1	45	121	2	49
Strings sf.	1	46	95	9	49
StringEnsemble2	1	47	121	0	50
Synth Strings	1	48	121	0	51
Synth Strings 2	1	49	121	0	52
Synth Strings 3	1	50	121	1	51
Pizzicato	1	51	121	0	46
Harp	1	52	121	0	47
Celtic Harp	1	53	121	1	47
Timpani	1	54	121	0	48
OTHERS : CHOIR & HIT					
Choir 3	1	55	121	1	53
Voice Oohs	1	56	121	0	54
Humming	1	57	121	1	54
DoReMi #	1	58	95	51	54
DoReMi b	1	59	95	52	54
Synth Vocal	1	60	121	0	55
Analog Voice	1	61	121	1	55
Orchestra Hit	1	62	121	0	56
Bass Hit Plus	1	63	121	1	56
6th Hit	1	64	121	2	56
Euro Hit	1	65	121	3	56
OTHERS : BRASS					
Trumpet	1	66	121	0	57
Solo Trumpet	1	67	121	1	57
Flugel Horn	1	68	95	1	57
SentimentalBone	1	69	95	7	58
Trombone	1	70	121	0	58
Trombone 2	1	71	121	1	58
Bright Trombone	1	72	121	2	58
Tuba	1	73	121	0	59
CupMute Trumpet	1	74	95	1	60

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
CupMuteTrombone	1	75	95	2	60
Muted Trumpet	1	76	121	0	60
Muted Trumpet 2	1	77	121	1	60
French Horns	1	78	121	0	61
Warm FrenchHorn	1	79	121	1	61
Brass Section	1	80	121	0	62
Brass Section 2	1	81	121	1	62
Synth Brass	1	82	121	0	63
Synth Brass 2	1	83	121	0	64
Synth Brass 3	1	84	121	1	63
Synth Brass 4	1	85	121	1	64
Jump Brass	1	86	121	3	63
Analog Brass	1	87	121	2	63
Analog Brass 2	1	88	121	2	64
OTHERS : REED					
Oboe & Strings	1	89	95	5	69
Soprano Sax	1	90	121	0	65
Alto Sax	1	91	121	0	66
Soft Tenor Sax	1	92	95	2	67
Tenor Sax	1	93	121	0	67
Baritone Sax	1	94	121	0	68
Oboe	1	95	121	0	69
English Horn	1	96	121	0	70
Bassoon	1	97	121	0	71
Clarinet	1	98	121	0	72
OTHERS : PIPE					
Flute & Strings	1	99	95	8	74
Piccolo	1	100	121	0	73
Jazz Flute	1	101	95	1	74
Big Band Winds	1	102	95	2	74
OrchestralWinds	1	103	95	3	74
Flute	1	104	121	0	74
Ballad Flute	1	105	95	13	74
Recorder	1	106	121	0	75
Pan Flute	1	107	121	0	76
Blown Bottle	1	108	121	0	77
Shakuhachi	1	109	121	0	78
Whistle	1	110	121	0	79
Ocarina	1	111	121	0	80
OTHERS : SYNTH LEAD					
Square	1	112	121	0	81
Square 2	1	113	121	1	81
Sine	1	114	121	2	81
Classic Synth	1	115	121	0	82

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Classic Synth 2	1	116	121	1	82
Lead	1	117	121	2	82
Classic Synth 3	1	118	121	3	82
SequencedAnalog	1	119	121	4	82
Caliope	1	120	121	0	83
Chiff	1	121	121	0	84
Charang	1	122	121	0	85
Wire Lead	1	123	121	1	85
Voice	1	124	121	0	86
Fifth	1	125	121	0	87
Bass & Lead	1	126	121	0	88
Soft Wire Lead	1	127	121	1	88
OTHERS : SYNTH PAD					
Itopia	1	128	121	1	92
New Age 2	2	1	95	1	89
New Age 3	2	2	95	2	89
New Age 4	2	3	95	3	89
Warm Pad	2	4	121	0	90
Sine Pad	2	5	121	1	90
Bright Warm Pad	2	6	95	1	90
Polysynth	2	7	121	0	91
Choir Pad	2	8	121	0	92
Bowed Pad	2	9	121	0	93
Metallic Pad	2	10	121	0	94
Halo Pad	2	11	121	0	95
Sweep Pad	2	12	121	0	96
Multi Sweep	2	13	95	1	96
OTHERS : SYNTH SFX					
Rain Pad	2	14	121	0	97
Soundtrack	2	15	121	0	98
Crystal	2	16	121	0	99
Synth Mallet	2	17	121	1	99
Brightness	2	18	121	0	101
Brightness 2	2	19	95	1	101
Goblin	2	20	121	0	102
Echoes	2	21	121	0	103
Echo Bell	2	22	121	1	103
Echo Pan	2	23	121	2	103
Sci-Fi	2	24	121	0	104
OTHERS : ETHNIC					
Sitar	2	25	121	0	105
Sitar 2	2	26	121	1	105
Banjo	2	27	121	0	106
Shamisen	2	28	121	0	107

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Koto	2	29	121	0	108
Taisho Koto	2	30	121	1	108
Kalimba	2	31	121	0	109
Bag Pipe	2	32	121	0	110
Fiddle	2	33	121	0	111
Shanai	2	34	121	0	112
OTHERS : PERCUSSION					
Tinkle Bell	2	35	121	0	113
Agogo	2	36	121	0	114
Steel Drums	2	37	121	0	115
Woodblock	2	38	121	0	116
Castanet	2	39	121	1	116
Taiko Drums	2	40	121	0	117
Concert BD	2	41	121	1	117
Melodic Toms	2	42	121	0	118
Melodic Toms 2	2	43	121	1	118
Synth Drum	2	44	121	0	119
Rhythm Box Tom	2	45	121	1	119
Electric Drum	2	46	121	2	119
Reverse Cymbal	2	47	121	0	120
Gtr Fret Noise	2	48	121	0	121
GtrCuttingNoise	2	49	121	1	121
CuttingNoise 2	2	50	95	1	121
Ac Bass Slap	2	51	121	2	121
OTHERS : SFX					
Breath Noise	2	52	121	0	122
Flute Key Click	2	53	121	1	122
Seashore	2	54	121	0	123
Rain	2	55	121	1	123
Thunder	2	56	121	2	123
Wind	2	57	121	3	123
Stream	2	58	121	4	123
Bubble	2	59	121	5	123
Bird Tweet	2	60	121	0	124
Dog Barking	2	61	121	1	124
Horse Gallop	2	62	121	2	124
Bird Tweet 2	2	63	121	3	124
Cat&Dog&Harp	2	64	95	12	124
Telephone	2	65	121	0	125
Telephone 2	2	66	121	1	125
Door Creak	2	67	121	2	125
Door Slam	2	68	121	3	125
Scratch	2	69	121	4	125
Wind Chime	2	70	121	5	125

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Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Helicopter	2	71	121	0	126
Car Engine	2	72	121	1	126
Car Stopping	2	73	121	2	126
Car Passing	2	74	121	3	126
Car Crash	2	75	121	4	126
Siren	2	76	121	5	126
Train	2	77	121	6	126
Jet Plane	2	78	121	7	126
Starship	2	79	121	8	126
Burst Noise	2	80	121	9	126
Applause	2	81	121	0	127
Laughing	2	82	121	1	127
Screaming	2	83	121	2	127
Punch	2	84	121	3	127
Heartbeat	2	85	121	4	127
Foot Step	2	86	121	5	127
Gunshot	2	87	121	0	128
Machine Gun	2	88	121	1	128
Laser Gun	2	89	121	2	128
Explosion	2	90	121	3	128
OTHERS : DRUMKIT					
Standard Set	2	91	120	0	1
Room Set	2	92	120	0	9
Power Set	2	93	120	0	17
Electronic Set	2	94	120	0	25
Analog Set	2	95	120	0	26
Jazz Set	2	96	120	0	33
Brush Set	2	97	120	0	41
Orchestra Set	2	98	120	0	49
SFX Set	2	99	120	0	57

MIDI Exclusive Data Format

1st byte	2nd byte	3rd byte	4th byte	5th byte	6th byte	7th byte	8th byte	9th byte	10th byte
1	2	3	4	5	6	7	8	9	10

Byte	ID	Description
1	F0	Start code
2	40	Kawai ID number
3	00 - 0F	MIDI channel
4	10, 30	Function code (30 when setting Multi-timbre On/Off)
5	04	Indicates that the instrument is an electric piano
6	13	Indicates that the piano is a CN39 model
7	data 1	
8	data 2	See table below
9	data 3	
10	F7	End code

data 1	data 2	data 3	Function
00	00	-	Multi-timbre Off
02	00	-	Multi-timbre On 1
01	00	-	Multi-timbre On 2
0F	15 - 6C	-	Split Point A0-C8
14	00 - 7F	-	Dual/Split balance
16	1F - 60	-	Tune, 40 : 440 Hz
17	00, 7F	-	00 : Program Change Off, 7F : Program Change On
18	00 - 07	-	00 : Light, 01 : Normal, 02 : Heavy, 03 : Off, 04 : Light +, 05 : Heavy +, 06 : User1, 07 : User2
19	00 - 03	-	Lower Octave Shift
20	00 - 7F	00 - 7F	Dual, data 2 : Main sound, data 3 : Layer sound
21	00 - 7F	00 - 7F	Split, data 2 : Upper sound, data 3 : Lower sound
22	00 - 7F	00 -7F	Four Hands, data2 : Right sound, data3 : Left sound
25	00 - 09	00 - 0B	data2 : Temperament 00 : Equal, 01 : Pure Major, 02 : Pythagorean, 03 : Meantone, 04 : Werkmeister, 05 : Kirnberger, 07 : Pure Minor, 09 : User data3 : Key
26	00, 7F	00 - 0F	Multi-timbre, data 2 : 00 (Mute), 7F (Play), data 3 : Channel
27	00 - 02	00 - 02	Dual/Split, Right (Upper)/Left (Lower), sound Bank LSB

MIDI Implementation Chart

■ **Kawai CN39 digital piano**

Date: February 2019   Version: 1.0

Function		Transmit	Receive	Remarks
Basic channel	At power-up	1	1	
	Settable	1 – 16	1 – 16	
Mode	At power-up	Mode 3	Mode 1	* The default for the OMNI mode is On. Specifying MIDI channels automatically turns it Off.
	Message	X	Mode 1, 3	
	Alternative	*********	X	
Note number		9 – 120**	0 – 127	** The value depends on the Transpose setting.
	Range	*********	0 – 127	
Velocity	Note on	O	O	
	Note off	O	O	
After touch	Key specific	X	X	
	Channel specific	X	O	
Pitch bend		X	O	
Control change	0, 32	O	O	Bank Select *1
	1	X	O	Modulation
	5	X	O	Portament Time
	6, 38	X	O	Data Entry
	7	X	O	Volume
	10	X	O	Panpot
	11	X	O	Expression Pedal
	64	O(Right pedal)	O	Sustain Pedal
	65	X	O	Portament
	66	O(Center pedal)	O	Sostenuto Pedal
	67	O(Left pedal)	O	Soft Pedal
	69	O	O	Hold 2
	70	X	O	Sustain Level
	71	X	O	Resonance
	72	X	O	Release Time
	73	X	O	Attack Time
	74	X	O	Cuttoff
	75	X	O	Decay Time
	76	X	O	Vibrato Speed
	77	X	O	Vibrato Depth
	78	X	O	Vibrato Delay
	84	X	O	Portament Control
	91	X	O	Reverb Send Level
	93	X	O	Chorus Send Level
	98, 99	X	O	NRPN LSB, MSB
	100, 101	X	O	RPN LSB, MSB
Program change		O 0–127	O	*1
	True	*********		
Exclusive		O	O	On/Off Selectable
Common	Song position	X	X	
	Song selection	X	X	
	Tune	X	X	
Real time	Clock	X	X	
	Commands	X	X	
Other functions	All sound Off	X	O(120)	
	Reset all controller	X	O(121)	
	Local On / Off	X	O	
	All notes Off	X	O(123 – 127)	
	Active sensing	X	O	
	Reset	X	X	

*1 Please refer to the Program Change Number List on page 9.

Mode 1: omni mode On, Poly   Mode 2: omni mode On, Mono   O : Yes
Mode 3: omni mode Off, Poly   Mode 4: omni mode Off, Mono   X : No

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