

## MIDI Settings MIDI Settings

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.

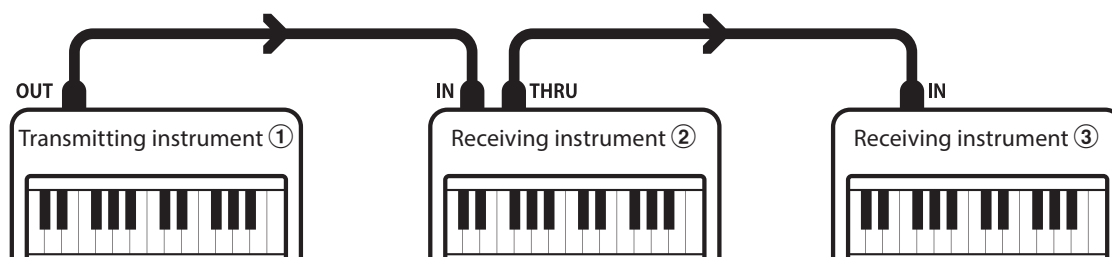
### ■ MIDI terminals

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.

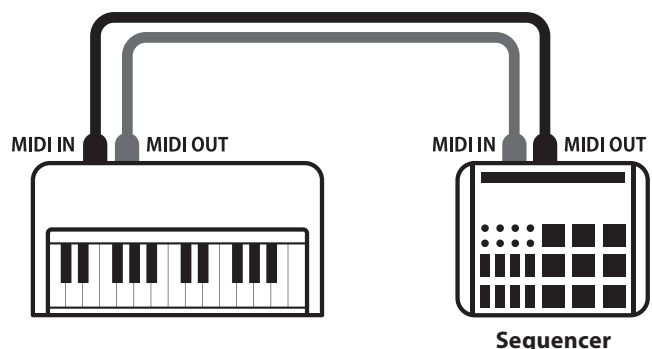
Receiving instruments ②/③ will respond to MIDI data that is sent if their receive channel is the same as the transmit channel of the transmitting instrument ①.

If the channels do not match, then 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, the CA49 digital piano can be used to record and playback multi-track songs, with separate sounds playing simultaneously on each channel.



# CA49 MIDI Settings Manual

## MIDI Settings

### ■ MIDI functions

The CA49 digital piano supports the following MIDI functions:

#### Transmit/receive note information

Transmit/receive note information 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 exclusive data

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

#### Multi-timbral mode setting

Receive multiple channel MIDI data from a MIDI-connected musical instrument or device.

\* Multi-timbral mode setting must be enabled.

#### Transmit/receive Program Change number

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

#### Transmit/receive pedal data

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

#### Receive volume data

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

\* Please refer to the "MIDI Implementation Chart" on page 9 for further information regarding the MIDI capabilities of the CA49 digital piano.

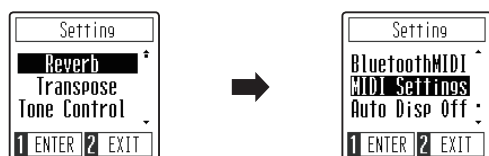
### ■ MIDI settings

Function name	Description	Default setting
MIDI Channel	Specify the channel used to transmit/receive MIDI information.	01
Send Program	Send a MIDI program change number from 1 to 128.	-
Local Control	Specify whether or not internal sounds will be heard when the keyboard is pressed.	On
Transmit Program Chg.	Specify whether or not program change information is sent when sounds are changed.	On
Multi-timbral Mode	Specify whether or not MIDI information can be received on more than one channel.	Off

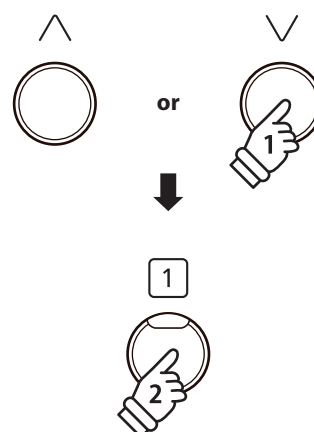
### ■ Entering the MIDI Settings sub-menu, selecting a setting

After entering the Settings menu:

Press the [UP] or [DOWN] buttons to move the selection cursor over the MIDI Settings sub-menu, then press the [1] function button (ENTER).



Press the [UP] or [DOWN] buttons to move the selection cursor over the desired MIDI setting, then press the [1] function button (ENTER).



## MIDI Settings

### MIDI Channel (transmit/receive)

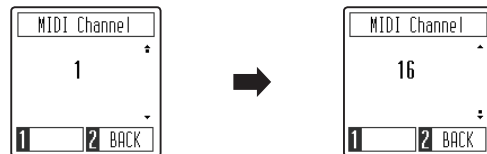
The MIDI Channel setting allows the transmit/receive channel to be specified. The selected channel will function as both the transmit and receive channel (separate transmit/receive channels cannot be specified).

#### 1. Changing the MIDI Channel setting

After entering the MIDI Channel setting:

Press the [UP] or [DOWN] buttons to increase or decrease the value of the MIDI Channel setting.

- \* The MIDI Channel can be adjusted within the range of 01~16.
- \* The preferred MIDI Channel setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to Owner's Manual page 50 for more information.
- \* To reset this setting to the default value, press the [UP] and [DOWN] buttons simultaneously.



#### 2. Exiting the MIDI Channel setting

Press the [2] function button (BACK) to exit the MIDI Channel setting and return to the MIDI Settings menu.



### Send Program Change

The Send Program Change function allows a program change number (ranging from 1 to 128) to be sent to a MIDI device in order to change external device's sound.

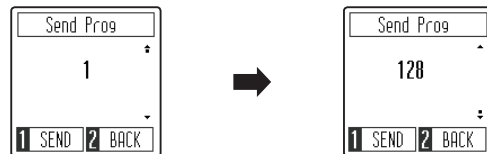
#### 1. Sending a Program Change number

After entering the Send Program Change function:

Press the [UP] or [DOWN] buttons to increase or decrease the value of the Program Change number.

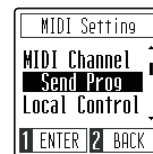
\* The Program Change number can be adjusted within the range of 001~128.

Press the [1] function button (SEND) to send the selected Program Change number to the connected MIDI device.



#### 2. Exiting the Send Program Change function

Press the [2] function button (BACK) to exit the MIDI Channel setting and return to the MIDI Settings menu.



## MIDI Settings

### 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 CA49 digital piano to control an external MIDI device.

#### Local Control settings

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

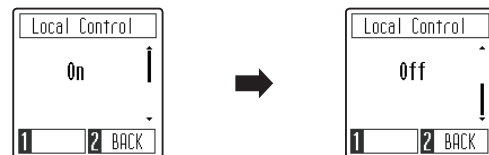
#### 1. Changing the Local Control setting

After entering the Local Control setting:

Press the [UP] or [DOWN] buttons to turn the Local Control setting on or off.

\* The preferred Local Control setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to Owner's Manual page 45 for more information.

\* To reset this setting to the default value, press the [UP] and [DOWN] buttons simultaneously.



#### 2. Exiting the Local Control setting

Press the [2] function button (BACK) to exit the Local Control setting and return to the MIDI Settings menu.



## MIDI Settings

### Transmit MIDI Program Change

The Transmit Program Change Number setting determines whether or not the CA49 digital piano will transmit program change information when sounds are changes.

#### ■ Transmit MIDI Program Change settings

Transmit PGM#	Description
On (default)	The instrument will transmit program change numbers when changing sounds.
Off	The instrument will NOT transmit program change numbers when changing sounds.

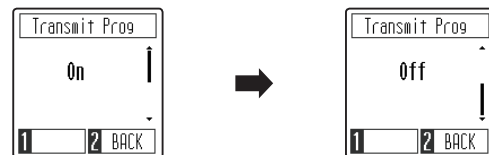
#### 1. Changing the Transmit MIDI Program Change setting

After entering the Transmit MIDI Program Change setting:

Press the [UP] or [DOWN] buttons to turn the Transmit MIDI Program Change setting on or off.

\* The preferred Transmit MIDI Program Change setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to Owner's Manual page 45 for more information.

\* To reset this setting to the default value, press the [UP] and [DOWN] buttons simultaneously.



#### 2. Exiting the Transmit MIDI Program Change setting

Press the [2] function button (BACK) to exit the Transmit MIDI Program Changes setting and return to the MIDI Settings menu.



## MIDI Settings

### Multi-timbre

The Multi-timbre setting determines whether or not the CA49 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-timbre settings

Multi-timbre	Description
On	Multi-timbre enabled*
Off (default)	Multi-timbre disabled

\* Please refer to the "Program Change Number List" on page 8.

#### 1. Changing the Multi-timbre setting

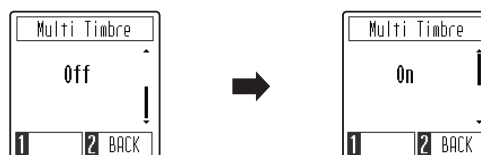
After entering the Multi-timbre setting:

Press the [UP] or [DOWN] buttons to turn the Multi-timbre setting on or off.

\* The preferred Multi-timbre setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to Owner's Manual page 45 for more information.

\* MIDI data received through channel 10 will not be performed when Multi-timbre is enabled.

\* To reset this setting to the default value, press the [UP] and [DOWN] buttons simultaneously.



#### 2. Exiting the Multi-timbre setting

Press the [2] function button (BACK) to exit the Multi-timbre setting and return to the MIDI Settings menu.



## Program Change Number List

### ■ Program Change Number List

Sound name	Multi-timbral mode Off	Multi-timbral mode On		
	Program number	Program number	Bank MSB	Bank LSB
SK Concert Grand	1	1	121	0
EX Concert Grand	2	1	95	27
Upright Piano	3	1	95	25
Studio Grand	4	1	121	1
Studio Grand 2	5	1	95	28
Mellow Grand	6	1	121	2
Mellow Grand 2	7	1	95	29
Modern Piano	8	2	121	1
Classic E.Piano	9	5	121	0
Modern E.Piano	10	6	121	0
Jazz Organ	11	18	121	0
Church Organ	12	20	121	0
Harpsichord	13	7	121	0
Vibraphone	14	12	121	0
String Ensemble	15	49	121	0
Slow Strings	16	45	95	1
Choir	17	53	121	0
New Age Pad	18	89	121	0
Atmosphere	19	100	121	0



# CA49 MIDI Settings Manual

## MIDI Implementation Chart

### ■ Kawai CA49 digital piano

Date : March 2019 Version : 1.0

Function	Transmit	Receive	Remarks	
Basic channel	At power-up Settable	1 1 - 16	1 1 - 16	
Mode	At power-up Message Alternative	Mode 3 X *****	Mode 1 Mode 1, 3** X	** Omni mode is on at power-up. Omni mode can be turned off through MIDI channel setting operations.
Note number	Range	15 - 113* *****	0 - 127 0 - 127	* 15 - 113, including transpose
Velocity	Note on Note off	O O	O O	
After touch	Key specific Channel specific	X X	X X	
Pitch bend		X	X	
Control change	7 64 66 67	X O (Right pedal) O (Middle pedal) O (Left pedal)	O O O O	Volume Damper pedal Sostenuto pedal Soft pedal
Program change	settable range	O (0 - 127) *****	O	(Please refer to the "Program Change Number List")[page 8]
Exclusive		O	O	Transmission can be selected
Common	Song position Song selection Tune	X X X	X X X	
Real time	Clock Commands	X X	X X	
Other functions	Local On / Off All notes Off Active sensing Reset	X X X X	O O O X	
Remarks				

Mode 1: omni mode On, Poly  
Mode 3: omni mode Off, Poly

Mode 2: omni mode On, Mono  
Mode 4: omni mode Off, Mono

O : Yes  
X : No