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" is a registered trademark of the Association of Manufacturers of Electronic Instruments (AMEI).

■ MIDI Terminals

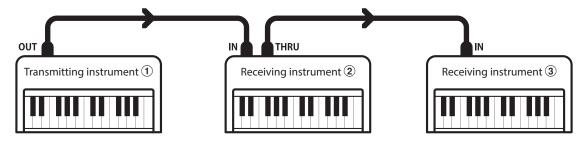
The MIDI has two types of terminals: MIDI IN and MIDI OUT. These terminals must be connected via dedicated cables.

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.



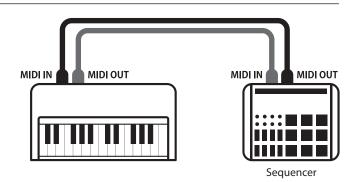
Transmitting instrument ① sends transmit channel and keyboard information to receiving instruments 2/3. The information arrives at the receiving instruments 2/3.

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 ES520 digital piano can be used to record and playback multi-track songs, with separate sounds playing simultaneously on each channel.



MIDI Settings

■ MIDI Functions

The ES520 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 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.

Transmit/receive program change information

Transmit/receive program change data to/from a MIDIconnected musical instrument or device.

Transmit/receive pedal data

Transmit/receive sustain, sostenuto, and soft pedal data to/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 10 for further information regarding the MIDI capabilities of the ES520 digital piano.

■ MIDI Settings

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

^{*} Default settings will be shown in the first OLED 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 OLED display:

Press the \vee or \wedge MENU buttons to select the MIDI Settings menu, then press the VALUE \wedge button to enter the menu.

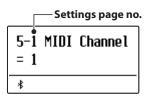
The first page of the MIDI Settings menu will be shown in the OLED display.

5 MIDI Settings →Press VALUE^

■ Selecting the desired setting

After entering the MIDI Settings menu:

Press the \vee or \wedge MENU buttons to cycle through the different settings pages.



MIDI Settings

5-1 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).

■ Changing the MIDI Channel value

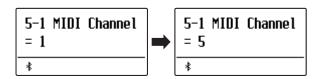
After entering the MIDI Settings menu (page 2):

The MIDI Channel setting will be selected automatically.

Press the \vee or \wedge VALUE buttons to decrease or increase the value of the MIDI Channel setting.

- * The MIDI Channel setting can be adjusted within the range of 1~16.
- * 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 ES520 Owner's Manual page 58 for more information.

Press the EXIT button to exit the MIDI Channel setting and return to the main settings menu.



■Omni mode

When the ES520 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".

Press the \vee and \wedge VALUE buttons simultaneously to reset the set channel and return to "omni mode on".

■ Multi-timbral mode and Split/Dual mode

Using Split 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.

Using Dual mode with Multi-timbral mode enabled

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

5-2 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.

■ Specifying and transmitting a Program Change Number

After entering the MIDI Settings menu (page 2):

Press the \vee or \wedge MENU buttons to select the Send Program Change Number function.

Press the \vee or \wedge VALUE buttons to decrease or increase the Program Change Number.

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

Press the \vee and \wedge VALUE buttons simultaneously to send the specified Program Change Number.

Press the EXIT button to exit the Program Change Number function and return to the main settings menu.



MIDI Settings

5-3 Local Control

The Local Control setting determines whether the instrument will play an internal sound when the keys are pressed. This setting is useful when using the ES520 digital piano to control an external MIDI device.

■ Local Control settings

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.

■ Changing the Local Control setting

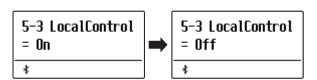
After entering the MIDI Settings menu (page 2):

Press the \vee or \wedge MENU buttons to select the Local Control setting.

Press the \bigvee or \bigwedge VALUE buttons to turn the Local Control setting on or off.

* Any changes made to the Local Control setting will remain until the power is turned 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 ES520 Owner's Manual page 58 for more information.



MIDI Settings

5-4 Transmit Program Change Numbers

The Transmit Program Change Numbers setting determines whether the ES520 digital piano will transmit program change information via MIDI when the instrument's panel buttons are pressed.

■ Transmit Program Change Numbers settings

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 8.

■ Changing the Transmit Program Change Numbers setting

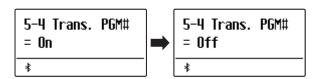
After entering the MIDI Settings menu (page 2):

Press the \vee or \wedge MENU buttons to select the Transmit Program Change Numbers setting.

Press the \vee or \wedge VALUE buttons to turn the Transmit Program Change Numbers setting on or off.

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

The preferred Transmit Program Change Numbers setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to ES520 Owner's Manual page 58 for more information.



■ Program Change Numbers and Dual/Split 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 Multitimbral mode is set to On1 or On2.

MIDI Settings

5-5 Multi-timbral Mode

The Multi-timbral Mode setting determines whether or not the ES520 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 settings

Multi-timbral Mode	Effect on sound heard
Off (default)	Only data received from the designated system channel will be sent to the panel setting. The sound shown in the left column is selected*.
On1 Data received from all MIDI channels (ch1~ch16) will be sent to 16 multi timbral to The sound shown in the left column is selected*.	
On2	Data received from all MIDI channels (ch1~ch16) will be sent to 16 multi timbral tracks. The sound shown in the right column is selected*.

^{*} Please refer to the "Program Change Number List" on page 8.

■Changing the Multi-timbral Mode setting

After entering the MIDI Settings menu (page 2):

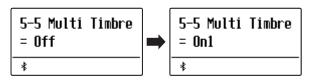
Press the \vee or \wedge MENU buttons to select the Multi-timbral Mode setting.

Press the \vee or \wedge VALUE buttons to change the Multi-timbral Mode setting.

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

The preferred Multi-timbral Mode setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to ES520 Owner's Manual page 58 for more information.

Press the EXIT button to exit the Multi-timbral Mode setting and return to the main settings menu.



Program Change Number List

SK ConcertGrand 1 1 121 0 EX ConcertGrand 2 1 95 27 Jazz Clean 3 1 121 1 Warm Grand 4 1 121 2 PIANO2 Upright Piano 5 1 95 25 Pop Grand 6 1 95 28 Modern Piano 7 2 121 0 Rock Piano 8 2 121 1 E.PIANO Classic E.Piano 9 5 121 0 Classic E.Piano 9 5 121 1 60's E.Piano 11 5 121 3 60's E.Piano 2 12 5 95 7 Modern E.Piano 13 6 121 0		Multi-timbral mode = off/on1	Multi-tim	Multi-timbral mode = on2			
SK ConcertGrand 1 1 121 0 EK ConcertGrand 2 1 95 27 Jazz Clean 3 1 121 1 Warm Grand 4 1 121 2 PANOC Upright Piano 5 1 95 28 Modern Piano 7 2 121 0 Rock Piano 8 2 121 0 Rock Piano 9 5 121 0 Classic E.Piano 9 5 121 0 Classic E.Piano 9 5 121 1 60's E.Piano 11 5 121 1 60's E.Piano 11 5 121 3 60's E.Piano 11 5 121 0 OREAM 3 6 121 0 OREAN 3 6 121 0 OREAN 3 16	Sound Name	Program Number	Program Number	Bank MSB	Bank LSB		
EX ConcertGrand 2 1 1 95 27 Jazz Clean 3 1 1 121 1 Warm Grand 4 1 1 121 2 PIANO2 Upright Plano 5 1 1 95 25 Pop Grand 6 1 95 28 Modern Plano 8 2 121 1 EPIANO Classic E.Plano 9 5 121 0 Classic E.Plano 11 5 121 1 60's E.Plano 11 5 121 1 60's E.Plano 11 5 121 3 60's E.Plano 11 5 121 1 60's E.Plano 11 5 121 3 60's E.Plano 11 5 121 1 60's E.Plano 11 5 121 3 60's E.Plano 11 5 121 3 60's E.Plano 10 5 121 1 EDEPLATE 1 1 1 1 EDEPLATE 1 1 1 EDEPLATE 1 1 1 EDEPLATE 1 1 1 EDEPLATE 1 1 1 1 EDEPLATE 1 1 1 EDEPLATE 1 1 1 EDEPLATE 1 1 1 1 EDEPLATE 1 1 1 EDEPLATE 1 1 1 1 EDEPLATE	PIANO1		_	-	-		
Jazz Clean 3	SK ConcertGrand	1	1	121	0		
Warm Grand 4 1 121 2 PIANOZ Variable Piano Upright Piano 5 1 95 25 Pop Grand 6 1 95 28 Modern Piano 7 2 121 0 Rock Piano 8 2 121 0 Classic E.Piano Classic E.Piano Classic E.Piano 9 5 121 0 Classic E.P. 2 10 5 121 1 60°S E.Piano 11 5 121 3 3 6 121 0 Classic E.Piano 11 5 121 1 1 5 121 2 1 2 0 <td></td> <td>2</td> <td>1</td> <td>95</td> <td>27</td>		2	1	95	27		
PIANO2 Upright Plano 5	Jazz Clean	3	1	121	1		
Upright Piano 5 1 95 25 Pop Grand 6 1 95 28 Modern Piano 7 2 121 0 Rock Piano 8 2 121 1 EIPIANO Use Incompan="2">Use	Warm Grand	4	1	121	2		
Pop Grand 6 1 95 28 Moder Piano 7 2 121 0 Rock Piano 8 2 121 0 REPIANO Classic E.Pano 9 5 121 0 Classic E.Pano 10 5 121 1 60's E.Piano 11 5 121 3 60's E.Piano 12 5 95 7 Modern E.Piano 13 6 121 0 ORGAN Jazz Organ 14 18 121 0 ORGAN Jazz Organ 16 17 121 0 Drawbar Organ 15 17 121 0 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPS/IMALLETS Vibraphone <td>PIANO2</td> <td></td> <td></td> <td></td> <td></td>	PIANO2						
Pop Grand 6 1 95 28 Moder Piano 7 2 121 0 Rock Piano 8 2 121 0 REPIANO Classic E.Pano 9 5 121 0 Classic E.Pano 10 5 121 1 60's E.Piano 11 5 121 3 60's E.Piano 12 5 95 7 Modern E.Piano 13 6 121 0 ORGAN Jazz Organ 14 18 121 0 ORGAN Jazz Organ 16 17 121 0 Drawbar Organ 15 17 121 0 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPS/IMALLETS Vibraphone <td>Upright Piano</td> <td>5</td> <td>1</td> <td>95</td> <td>25</td>	Upright Piano	5	1	95	25		
Modern Piano 7 2 121 0 Rock Piano 8 2 121 1 E.PIANO Classic E.P. 2 10 5 121 0 Classic E.P. 2 10 5 121 1 60's E.Piano 11 5 121 3 60's E.Piano 11 5 121 0 Modern E.Piano 13 6 121 0 ORGAN 14 18 121 0 ORGAN 14 18 121 0 Drawbar Organ 15 17 121 0 Drawbar Organ 16 17 95 5 Church Organ 18 20 121 0		6	1	95	28		
E.PIANO Classic E.Piano 9 5 121 0 Classic E.P. 2 10 5 121 1 60's E.Piano 2 11 5 121 3 60's E.Piano 2 12 5 95 7 Modern E.Piano 13 6 121 0 ORGAN 0 0 0 13 6 121 0 ORGAN Jazz Organ 14 18 121 0 0 0 0 0 121 0 0 0 0 0 0 12 0 0 0 0 12 0 0 0 12 0 0 12 0 0 12 0 0 12 0 0 12 0 0 12 0 0 12 12 0 0 12 12 0 0 12 12 0 0 12	<u> </u>	7	2	121	0		
Classic E.Piano 9 5 121 0 Classic E.P. 2 10 5 121 1 60's E.Piano 11 5 121 3 60's E.Piano 2 12 5 95 7 Modern E.Piano 13 6 121 0 ORGAN *** ORGAN Jazz Organ 14 18 121 0 Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS *** 4 12 0 Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 String Ensemble 23 49 121 0 String Pad <td>Rock Piano</td> <td>8</td> <td>2</td> <td>121</td> <td>1</td>	Rock Piano	8	2	121	1		
Classic E.P. 2 10 5 121 1 60's E.Piano 11 5 121 3 60's E.Piano 2 12 5 95 7 Modern E.Piano 13 6 121 0 ORGAN Wastern France Jazz Organ 14 18 121 0 Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Warimba 22 13 121 0 STRINGS/CHOIR 23 49 121 0 String Ensemble 23 49 <t< td=""><td>E.PIANO</td><td></td><td></td><td></td><td></td></t<>	E.PIANO						
60's E.Piano 11 5 121 3 60's E.Piano 2 12 5 95 7 Modern E.Piano 13 6 121 0 ORGAN Jazz Organ 14 18 121 0 Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Wibraphone 20 12 121 0 Vibraphone 20 12 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 Choir 27 53	Classic E.Piano	9	5	121	0		
60's E.Piano 11 5 121 3 60's E.Piano 2 12 5 95 7 Modern E.Piano 13 6 121 0 ORGAN Jazz Organ 14 18 121 0 Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Strings 24 <td>Classic E.P. 2</td> <td>10</td> <td>5</td> <td>121</td> <td>1</td>	Classic E.P. 2	10	5	121	1		
60's E.Piano 2 12 5 95 7 Modern E.Piano 13 6 121 0 ORGAN Jazz Organ 14 18 121 0 Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Frincipal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 3	60's E.Piano			121	3		
Modern E.Piano 13 6 121 0 ORGAN Jazz Organ 14 18 121 0 Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS HARPSI/MALLETS Harpsichord 19 7 121 0 Clavi 20 12 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir<	60's E.Piano 2	12		95	 		
ORGAN Jazz Organ 14 18 121 0 Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble Stow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0	Modern E.Piano	13	6	121	0		
Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marinba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BELectric Bass 30 34 121	ORGAN						
Drawbar Organ 15 17 121 0 Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 1 String Pad 25 49 95 1 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 29 89 121	Jazz Organ	14	18	121	0		
Ballad Organ 16 17 95 5 Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BECtric Bass Electric Bass 30 34 121 0 Electric Bass 3 32 34 <td></td> <td>15</td> <td>17</td> <td>121</td> <td>0</td>		15	17	121	0		
Principal Oct. 17 20 95 24 Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0		16	17	95	5		
Church Organ 18 20 121 0 HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS 20 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 <		17	20	95	24		
HARPSI/MALLETS Harpsichord 19 7 121 0 Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0		18	20	121	0		
Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS 26 34 121 0 Electric Bass 30 34 121 0 BASS 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0							
Vibraphone 20 12 121 0 Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS 26 34 121 0 Electric Bass 30 34 121 0 BASS 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Harpsichord	19	7	121	0		
Clavi 21 8 121 0 Marimba 22 13 121 0 STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Vibraphone	20	12	121	0		
STRINGS/CHOIR String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Clavi	21	8	121	0		
String Ensemble 23 49 121 0 Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Marimba	22	13	121	0		
Slow Strings 24 45 95 1 String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	STRINGS/CHOIR						
String Pad 25 49 95 8 Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	String Ensemble	23	49	121	0		
Warm Strings 26 49 95 1 Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Slow Strings	24	45	95	1		
Choir 27 53 121 0 Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	String Pad	25	49	95	8		
Square Pad 28 90 95 5 New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Warm Strings	26	49	95	1		
New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Choir	27	53	121	0		
New Age Pad 29 89 121 0 BASS Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Square Pad	28	90	95	5		
Electric Bass 30 34 121 0 Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0		29	89	121	0		
Electric Bass 2 31 34 95 4 Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0							
Electric Bass 3 32 34 95 5 Wood Bass 33 33 121 0	Electric Bass	30	34	121	0		
Wood Bass 33 33 121 0	Electric Bass 2	31	34	95	4		
	Electric Bass 3	32	34	95	5		
W. Bass & Ride 34 33 95 1	Wood Bass	33	33	121	0		
	W. Bass & Ride	34	33	95	1		

MIDI Exclusive Data Format

1st by	e 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	20	Indicates that the piano is a ES520 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		
01	00	-	Aulti-timbre On 1		
02	00	-	Multi-timbre On 2		
0F	00 - 7F	-	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 Chage On		
19	00 - 03	-	Lower Octave Shift		
20	00 - 21	00 - 21	Dual, data 2: Right sound, data 3: Left sound		
21	00 - 21	00 - 21	Split, data 2: Upper sound, data 3: Lower sound		
22	00 - 21	00 -21	Four Hands, data2: Upper sound, data3: Lower sound		
25	00 - 08	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		

MIDI Implementation Chart

■Kawai ES520 digital piano

Date: May 2020 Version: 1.0

Fu	unction	Transmit	Receive	Remarks
	At power-up	1	1	
Basic channel	Settable	1 - 16	1 - 16	
	At power-up	Mode 3	Mode 1	* The default for the OMNI
Mode	Message	×	Mode 1, 3	mode is On. Specifying MIDI channels
	Alternative	******	×	automatically turns it Off.
		9 - 120**	0 - 127	** The value depends on the
Note number	Range	******	0 - 127	Transpose setting.
	Note on	0	0	
Velocity	Note off	0	0	
A.C	Key specific	×	×	
After touch	Channel specific	×	×	
Pitch bend		×	×	
	0, 32	0	0	Bank Select *1
	7	×	0	Volume
	10	×	0	Panpot
Control change	11	×	0	Expression Pedal
	64	0	0	Sustain Pedal
	66	○*2	0	Sostenuto Pedal
	67	○*2	0	Soft Pedal
Program change		O 0-127	0	*1
r rogram change	True	******		
Exclusive		0	0	On/Off Selectable
	Song position	×	×	
Common	Song selection	×	×	
	Tune	×	×	
Real time	Clock	×	×	
Real time	Commands	×	×	
Other functions	Local On / Off	×	0	
	All notes Off	×	O (123 - 127)	
	Active sensing	×	0	
	Reset	×	×	

^{*1} Please refer to the Program Change Number List on page 8.

Mode 1: omni mode On, Poly Mode 3: omni mode Off, Poly Mode 2: omni mode On, Mono Mode 4: omni mode Off, Mono ○:Yes

×:No

^{*2} Applicable only when the optional GFP-3 or F-302 triple pedal unit is connected.