KR-55 KR-55 KR-55

KR-55

DIGITAL KEYBOARD

OWNER'S MANUAL





ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following.

- 1. Read all the instructions before using the product
- Do not use this product near water for example, near a bathtub, washbowi, kitchen sink, in a wet basement, or near a swimming pool, or the like.
- 3. This product should be used only with a cart or stand that is recommended by the manufacturer.
- 4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
- The product should be located so that its location or position does not interfere with its proper ventilation.
- The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
- 7. Avoid using the product where it may be effected by
- The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.

- The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
- 10. Do not tread on the power-supply cord.
- 11. Do not pull the cord but hold the plug when unplugging.
- 12. When setting up with any other instruments, the procedure should be followed in accordance with instruction manual.
- 13 Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 14. The product should be serviced by qualified service personnel when:
 - The power-supply cord or the plug has been damaged or
 - Objects have fallen, or liquid has been spilled into the product; or
 - C. The product has been exposed to rain; or
 - The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged
- 15. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

SAVE THESE INSTRUCTIONS

For the U.K. -

WARNING: THIS APPARATUS MUST BE EARTHED

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \bigoplus or coloured GREEN or GREEN-AND-YELLOW

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter Nor coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter Lor coloured RED.

The product which is equipped with a THREE WIRE GROUNDING TYPE AC PLUG must be grounded

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Introduction

Thank you for purchasing the Roland KR-55 Digital Keyboard.

The KR-55 contains an RS-PCM digital sound source that is able to produce a wide variety of high-quality sounds.

Features

High-quality RS-PCM sound source:

The KR-55 contains 64 different sounds (23 different instruments with variations of each).

Sounds include piano, organ, and a variety of sounds used in ensemble jazz classical, rock and fusion performances.

Additional sounds are available on PCM sound cards (SN-U110 series; sold separately).

Multi-timbral operation:

The KR-55 contains a multi-timbral sound source capable of producing 7 parts simultaneously. When used with a MIDI sequencer, a single KR-55 can play the sounds of an entire ensemble.

• Effects:

◆ Chorus: The chorus effect adds spacious depth to the sound

 Reverb: The reverb effect adds the acoustic ambience of a large concert hall.

 Three play modes; whole, dual, and split: You can layer two sounds together, or play different sounds in the high and low ranges of the keyboard.

- A Roland PAD-5 can be connected to play the rhythm instruments. This also allows you to enjoy the autorhythm patterns (such as rock or swing) that are built into the PAD-5.
- Other electronic instruments or mics can be connected and played through the built-in speaker

-Precautions — In addition to the items listed under Safety Precautions, on page 2,

Concerning the power supply

- Whenever you make any connections with other devices, always turn off the power to all equipment first.
 This will help in preventing malfunction, and damage to speakers.
- Do not force the unit to share the same power outlet as one used for distortion producing devices (such as motors, variable lighting devices). Be sure to use a separate power outlet.

Concerning placement

- Placing the unit near power amplifiers or other equipment containing large transformers may induce hum.
- Should the unit be operated nearby television or radio receivers, TV pictures may show signs of interference, and static might be heard on radios. In such cases, move the unit out of proximity with such devices.
- Avoid placing the unit where it may be subject to direct sunlight, or where near devices that may emanate heat. Avoid confining it within a tightly closed car or other such places. Otherwise, the unit may become deformed or discolored.

Maintenance

- For everyday cleaning, wipe the unit with a soft dry cloth, or one that is dampened slightly. To remove dirt that is more stubborn, wipe using a mild, neutral detergent. Afterwards, make sure to wipe thoroughly with a soft cloth.
- Never apply benzene, thinners, alcohol or any like agents, to avoid the risk of discoloration and deformation.

Other Precautions

- Protect the unit from a strong impact.
- Never apply strong pressure to the display, or strike it in any way.

The KR-55 contains a backup battery to preserve the settings when the power is turned off. The battery life is 5 years or longer, but we recommend that you change it every 5 years.

When the battery runs low, the following display will appear.

6*8*6

Please contact a Roland service center for replacement.

*The first replacement after purchase may become necessary in less than 5 years.

If the following display appears, it is possible that part or all of the data in memory has been lost. To return all data to the factory settings, refer to the explanation on page 12 "Restoring the Factory Settings".

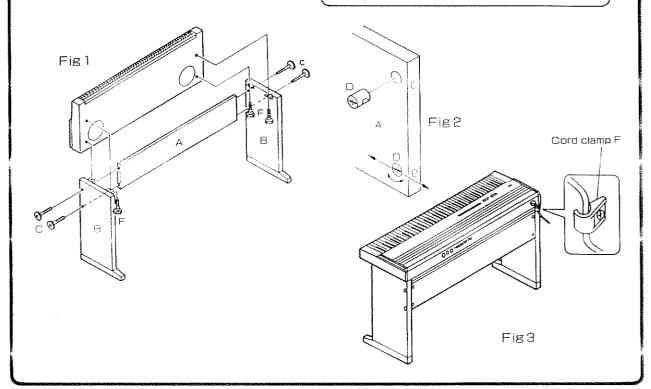
E - -

Assembling The KS-30 (Sold Separately)

Joint boit D STATE X4 Joint nut E X4 Knob boit F X4

Assembling Procedure

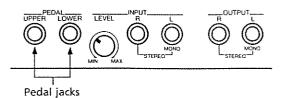
- ①Insert the Joint nuts D into the holes on the back panel A, and adjust the joint nuts D with the screwdriver provided as shown in Fig 2.
- ②Attach the back panel A to the side panels B, and tighten the joint bolts C.
- @Place the keyboard on the stand, and fix with the knob bolts E.



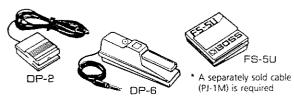
Attach the music stand as shown in the diagram. Before moving or transporting the unit, be sure to remove the music stand.

Function Guide Labels These labels indicate the function of each button when setting performance functions or making MIDI settings. Affix the labels as shown. Upper label t Lower label

Pedal Connections



Connect one or two of the following pedals to the pedal jack(s).



* When using only one pedal, connect it to the UPPER terminal. This will allow you to simultaneously control both UPPER and LOWER with a single pedal. (→ page 6 ☑)

When using a pedal to adjust the volume or pan

By connecting an expression pedal (EV-5, EV-10) to the pedal jack, you can control the volume or pan.



If you wish to use the pedal to control Volume, set the pedal function to "3".

If you wish to use the pedal to control Pan, set the pedal function to "4". (\rightarrow page 6 \bigcirc)

* With the factory settings, both pedals are set to function as damper pedals (to make the sound decay gradually).

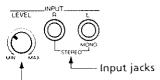
-External output



Use these jacks to connect the KR-55 to an external amp or recording device.

Connect these jacks to the AUX IN jacks of an audio amp, or the INPUT jack of a guitar amp

Connecting Another Electronic Musical Instrument Or Mic

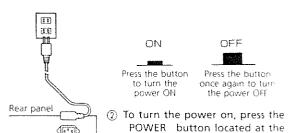


Input level knob Adjust the level of the INPUT jacks.

When another electronic musical instrument or microphone is connected, it can be heard through the built-in speakers of the KR-55

-Turning The Power On-

- Connect the power cable and insert it into an AC outlet.
 - * Be sure to use the correct AC voltage for your unit.

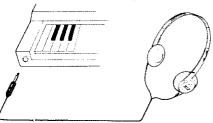


* Since the KR-55 contains a protection circuit, there will be a short delay before operation begins.

left side of the panel.

-Using Headphones

The headphone jack is located at the lower left on the front of the keyboard. When headphones are connected, the built-in speakers will not sound, allowing you to practice without disturbing others.



* In order to take advantage of the stereo capabilities of the KR-55, we recommend that you use stereo headphones (RH-12, RH-100, or similar sold separately).

Playing With The KR-55

How to adjust the VOLUME control

This slider controls the volume output from the internal speaker, headphone jack, and output jacks.

How to adjust the BRILLIANCE control

This slider modifies the tone. The tone will become brighter when this slider is moved toward "BRIGHT", and darker when moved toward "MELLOW".

▼ Tone select ▼ T

Press the TONE SELECT buttons to select Tones.

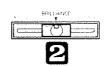
In addition, pressing the VARIATION buttons (A, V) will select variations of the Tone, allowing you to play the same Tone with slightly differing tonal nuances. The display will show the variation number. (The number of variations will depend on the Tone group.)

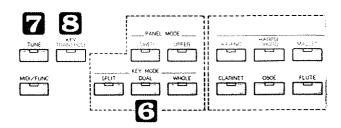
When a PCM card is inserted into the PCM CARD slot on the rear panel, you can press the CARD Tone select button and play Tones from the PCM card.

In addition, you can press the VARIATION button to select variations of the PCM card Tones.

The selected variation number will be stored for each Tone group.







7 Tuning (TUNE)

This allows you to adjust the pitch (tuning) to other instruments.

Press this button and the display will show the current frequency of middle $\boldsymbol{\mathsf{A}}$

When set to 440.0 Hz the hundreds place is not displayed.



Each time you press the VARIATION button the display will change in steps of 0.1 Hz. If you continue pressing, the value will change continuously. When you have set the desired tuning, press the TUNE button once again to return to normal operation.

EKEY TRANSPOSE

The Key Transpose function allows you to transpose your playing without changing the notes you play.

Press the KEY TRANSPOSE button and then use the VARIATION but tons to transpose in that deps over a range of 4.6 to 4.5.



+5



-6

Once the Key Transpose function has been set, pressing the KEY TRANSPOSE button will change the pitch from standard pitch to the specified transpose pitch, and back again. The indicator of the KEY TRANSPOSE button will light to indicate that the pitch is transposed to a setting other than 0.



Add reverb to the sound (REVERB button)

Press this button and the indicator will light, and Reverb will be added to simulate the acoustic ambience of a hall, etc.

Press this button once again and the indicator will go out, and the sound will return to normal.

By pressing the REVERB button while holding the VARIATION button, you can select 8 different Reverb variations.

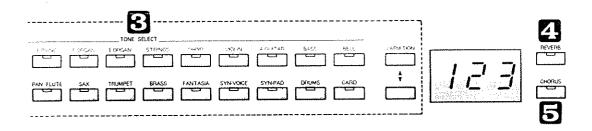
The display will indicate the selected reverb variation, and the REVERB button will store the selected variation.

Add depth to the sound (CHORUS button)

Press this button and the indicator will light, and a Chorus effect will be added, creating a spacious sound.

Press this button once again and the indicator will go out, and the sound will return to normal. By pressing the CHORUS button while holding the VARIATION button, you can select 8 different Chorus variations.

The display will indicate the selected Chorus variation number. The Chorus variation number is stored for each Tone and for each Key Mode.



Select the key mode (KEY MODE buttons)

The KR-55 has three key modes; whole, dual, and split. Press the SPLIT, DUAL, or WHOLE button to select the Key Mode.

WHOLE

Pressing this button will select the normal mode in which the entire keyboard will play a single Tone.

Select a Tone as explained in

The WHOLE button stores the currently selected Tone and the Chorus on/off.

DUAL

This allows you to play two layered Tones.

Press the UPPER button and select the Tone you wish to play in the range of 🔂 In the same way, press the LOWER button and select another Tone

The DUAL button stores the two Tones, and the Chorus on-off for each Tone

SPLIT

This function divides the keyboard into high and low note ranges, and allows you to play different Tones in each range. The upper range will play the UPPER Tone, and the lower range will play the LOWER Tone.

In the same way as for DUAL, select and play the UPPER and LOWER Tones. The SPLIT button stores the two Tones, and the Chorus on/off for each Tone.

The boundary (split point) between UPPER and LOWER can be storeds by pressing the SPLIT button and then pressing the note at which you want to split the keyboard. (The note you specify as the split point will belong to the UPPER range.)

 When shipped, the split point is set to middle C (C3) When you wish to select two Tones at once:

When the DUAL or SPLIT mode is selected, press and hold one TONE SELECT button and then press another to select two Tones at once in this case, the Tone you press first will be as signed to whichever PANEL MODE button (UPPER/LOWER) is currently lit. The Tone you press second will be assigned to the other but ton. The indicator of the button pressed second will blink, and then go out when you release it

Function Settings

Press the MIDI/FUNC button to enter this mode (the indicator will light). Press a TONE SELECT button to select the desired function, and use the VARIATION buttons to make settings. The display will show the value of the setting or whether the function is on or off.

* For some functions, select UPPER/LOWER before you use the VARIATION button to make settings.

When you have finished making settings, press the MIDI/ FUNC button to return to the Play mode (the indicator will go out).

About the Pitch Bend effect

The lowest four white keys of the KR-55 keyboard can be used to raise or lower the pitch of a played

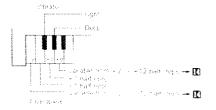
The pitch divisions of instruments such as piano or organ are fixed, and it is not possible to produce a pitch, for example, midway between E and F. However other instruments such as violin and guitar are able to change smoothly from one pitch to another

This performance technique is called "portamento" or "bending", and allows you to freely produce any pitch between (for example) E and F.

By pressing one of the four lowest white keys of the KR-55 keyboard, you can use this performance technique.

About the Vibrato effect

This effect adds a slight cyclic variation to the pitch of a played note. Vibrato is very important for a musically interesting performance for violin or guitar. It is especially effective to add vibrato after the sound has been sustaining for a while. The lowest two black keys of the KR-55 keyboard allow you to add a vibrato effect.



Selecting the function of the pedal (PEDAL)

This allows you to select the function of the pedal.

This function can be set independently for UPPER and LOWER. To make settings for UPPER, first press the UPPER button. To make settings for LOWER, first press the LOWER button.

Pedal off

The pedal will have no effect.

DAMPER pedal i

When you press the pedal, the sound will decay

SOSTENUTO pedal

Notes (keys) which are already pressed when the sostenuto pedal is pressed will be sutained, but notes played after the sostenuto pedal is pressed will sound normally.

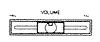
EXPRESSION pedal

The volume will change according to how the pedal is pressed. When using this function, connect a separately sold EV-5 or EV-10 to the pedal jack.

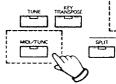
PAN pedal

The pan position will change according to how the pedal is pressed. When the pedal is fully depressed. the sound will move to the right, and when the pedal is fully upright the sound will move to the left. When using this function, connect a separately sold EV-5 or EV-10 to the pedal jack.

* With the factory settings this will be set to 1.







After pressing...

IB PITCH BEND and VIBRATO on/off





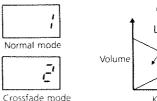
The Pitch Bend and Vibrato effects can be used. Playing dynamics (key velocity) will not

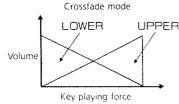
The Pitch Bend and There will be no Pitch Vibrato effects can be Bend or Vibrato effect used. Playing dynamics. (key velocity) will affect affect the Pitch Bend, the Pitch Bend Time. With normal key velocity (64), the Pitch Bendi Time will be the same.

10 Use playing dynamics to switch between sounds (VELOCITY MODE)

In the DUAL mode, when set to 1 (normal), softly played notes will have a low volume and strongly played notes will have a loud volume.

When set to 2 (crossfade), softly played notes will sound the LOWER Tone more loudly and strongly played notes will sound the UPPER Tone more loudly.





Example: Select DUAL mode, STRINGS for the LOWER tone, A.PIANO for the UPPER tone, and set VELOCITY MODE to Crossfade. When you play the keyboard strongly the piano will be louder, and when you play softly the strings will be louder This allows you to control the mix of the two Tones by playing dynamics

TOCTAVE SHIFT

The pitch can be shifted over a range of $\pm 1/-3$ octaves. This is set independently for UPPER and LOWER. To make settings for UPPER, first press the UPPER button. To make settings for LOWER, first press the LOWER button.



Normal

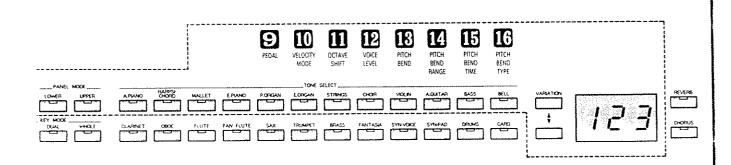
3 octaves

These settings will be stored for each Tone and also for each Key Mode.

12 VOICE LEVEL

The level of each Tone can be set over a range of $1 \sim 10$. The normal setting is 10.

This can be used to adjust the volume balance between two Tones you wish to play in the DUAL mode. In the DUAL or SPUT mode, this can be set independently for the Tones selected for UPPER and LOWER. To make settings for the UPPER Tone, first press the UPPER button. To make settings for the LOWER Tone, first press the LOWER button In the WHOLE mode there is no need to specify UPPER or LOWER



14 PITCH BEND RANGE

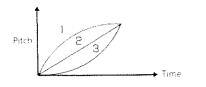
This determines the range of the Pitch Bend effect controlled by the lowest E and A keys over a range of [2] -- [12] (semi tones)

FPITCH BEND TIME

This determines the time [1] - [10] over which Pitch Bend will change the pitch.

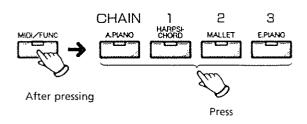
RPITCH BEND TYPE

This determines the type of change [1] - [3]produced by Pitch Bend.



How To Hear The Demo Songs

The KR-55 has 3 built-in demo songs.



Press buttons 1, 2, or 3, and the corresponding demo song will begin playback. If you press the CHAIN button, playback will repeat all songs. To stop demo playback, press any button other than CHAIN, 1, 2, or 3.

1	"Fossils" from "Carnival of the Animals", Saint-saëns	Composed by Saint-saëns, Arranged by Kaori Kamada
2	Street N'	Composed by Mitsuru Sakaue, Copyright © 1989 Roland Corp.
3	Waltz no. 14 in B minor.	Composed by Chopin

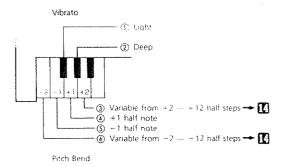
Mitsuru Sakaue

From his school days, Mr. Sakaue has been composing and arranging music for commercials and video, and is especially well known for his studio work. At present he is the chief producer of Ideos, Icn. In addition to producing commercials and FM station jingles, is active as an expert in computer music and instruments, and as an instructor in Roland Learning Centers and music schools in Japan. He is also a Roland demonstrator and product specialist, and is the composer of the Roland U-110 ROM demo song "T-Jazz#1".

Examples of how to use the Pitch Bendand Vibrato effects

<Preparation>

Select a Trumpet Tone, press the MIDI/FUNC button, and set PITCH BEND to 1, PITCH BEND RANGE to 12, PITCH BEND TIME to 6, and PITCH BEND TYPE to 1.



< Effective ways to use Vibrato>

While playing a note with the right hand, press key ① with the left hand, and light vibrato will be applied to the note being played in the right hand. When you press key ②, deep vibrato will be applied. When you press both ① and ②, even deeper vibrato will be applied. This is effective in adding life to a sustained sound.

<Effective ways to use Pitch Bend>

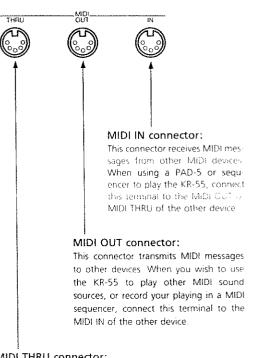
- I. While playing a note with the right hand, press key (§) with the left hand, and the pitch will change smoothly down a half step. When you release key (§), it will return to the original pitch. To raise the pitch a half step, press key (4).
 - This allows you to use the same performance techniques as a trombone-player or a guitarist when bending strings.
- II. Press key (5) with the left hand and then play a note in the right hand. Immediately release key (5). This will create an effect similar to the pitch change that naturally occurs when a wind instrument begins sounding.
- III. While holding a note with the right hand, you can trill keys (4) and (5) to create a vibrato-like effect.
- IV. While holding a note with the right hand, you can press key ③ or ⑥ to create an effect similar to portamento (where the pitch will smoothly change to meet the desired pitch).
 - * Try out various other settings in the < Preparation > section, and notice the different effects that are possible.

For those using MIDI

What is MIDI

MIDI (Musical Instrument Digital Interface) is a worldwide standard for exchanging musical data between electronic musical instruments and computers.

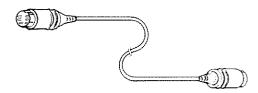
By connecting the KR-55 via MIDI to other electronic musical instruments, the other instruments can be controlled from the KR-55 keyboard, or the KR-55 can be controlled from other instruments.



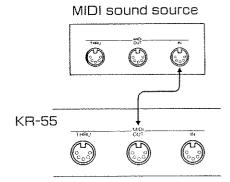
MIDI THRU connector:

This connector retransmits messages just as they are received at MIDLIN

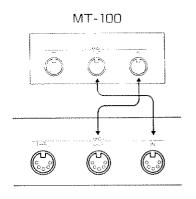
Use a MIDI cable such as shown below (MSC-15/25/50) sold separately) to connect MIDI connectors.



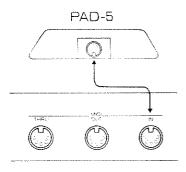
• When connecting a MIDI sound source



When connecting an MT-100



When connecting a PAD-5



* If you select PAD mode 1, 2, or 3 in 🖾 , a drum part will be available in addition to the UPPER and LOWER part, and you can connect and play a PAD-5 to play drum sounds.

MIDI Settina

The procedure for making these settings is the same as explained in "Function settings". First press the MIDI/FUNC button to enter this mode (the indicator will light). Then press a TONE SELECT button corresponding to MIDI function you wish to set, select LOWER/UPPER to specify the lower or upper Tone if necessary, and use the VARIATION buttons to modify the setting.

When you finish making settings, press the MIDI/FUNC button to return to Play mode.

By setting the MIDI channel of the transmitting device to be the same as the MIDI channel of the receiving device, you can select and play sounds of one instrument from the other.

SEND Program Change message

By transmitting a Program Change message (MIDI data that tells the receiving device to select a memory preset), you can select sounds on another device.

To transmit on the UPPER channel press the UPPER button. To transmit on the LOWER channel press the LOWER button. Use the VARIATION buttons to select the number (1 \sim 128) you wish to transmit. Then press the SEND PROG.C (CLARINET) button once again and a Program Change message of the selected number will be transmitted.

18 Transmit Channel Settings

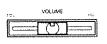
To make settings for the UPPER channel press the UPPER button. To make settings for the LOWER channel press the LOWER button. Use the VARIATION buttons to specify a channel (1 ~ 16)

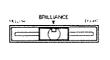
* In the WHOLE mode, the channel specified for UPPER will be used as the TX ch

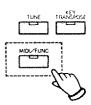
Receive Channel Settings

Make settings in the same way as for TX.ch.

- * It is not possible to set UPPER and LOWER to the same channel.
- * In the WHOLE mode, the channel specified for UPPER will be used as the







After pressing...

SEND PROG.C

22 MIDI mode

Select one of the following three modes.

Normal mode

Multi-timbre 1 mode

Multi-timber 2 mode (MT-32 mode)

G

This is the normal mode.

28 will be effective

14, 15, 16 will be received (for seven parts).

These receive channels cannot be modified. This means that the setting of **B** RX ch will not be used. To assign a Tone to each Part, set the UPPER or LOWER TX chito match the Part, and use the TONE SELECT buttons to select Tones.

The seven MIDI channels 1, 11, 12, 13, MIDI channels 1, 2, 3, 4, 5, 6, and 10 will be received simultaneously (for seven

- * Other details are the same as for Multi Embre 1 mode
- The transmitted and received Program Change messages will depend on for the Program Change numbers the MIDI Mode. Refer to table on page 14
- * When shipped, this is set to "0"

Program Change Transmission when selecting Tones from the front panel

If this is turned on, a Program Change message will be transmitted each time you select a Tone, a Control Change 93 (chorus) message will be transmitted each time you switch Chorus on/off, and System Exclusive messages will be transmitted each time you make other settings. If this is turned off, the above messages will not be transmitted.

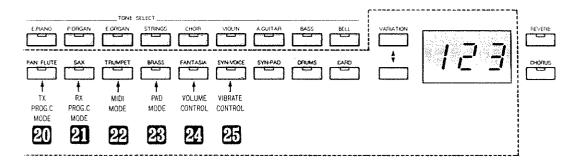
- * When shipped, this is turned off.
- * The relationship between the selected Tone and the transmitted Program Change Number will depend on the 🖾 MIDI Mode. Please refer to page 14.
- * For details of the transmitted messages, refer to the MIDI Implementation Chart.

21 Program Change Reception on/off

When a Program Change message is received, this setting determines whether the message will select a Tone or be ignored.

On: receive Off: ignore

- * When shipped, this is turned on
- * The setting of 22 MIDI receive MODE will determine how the received Program Change message will select of the All Tropes.
- * Please refer to page 14.



28 PAD MODE

By connecting a separately sold PAD-5 to the MIDI IN connector, you can play the DRUM Tones of the KR-55.

The Pad Mode can be set to OFF, 1, 2, or 3. When 1, 2, or 3 is selected, MIDI channel 10 will be specially received, and you can use a PAD-S etc. to play the DRUM Tones of the KR-55. By selecting 1, 2, or 3 you can select variations of the DRUM Tones.

- * This setting is effective only when MIDI MODE is set to Normal mode
- * If the UPPER or LOWER receive channel is set to 10, this PAD MODE cannot be used. If you cannot set PAD MODE to a setting other than OFF, first set the UPPER and LOWER receive channels to a setting other than 10, and then make PAD MODE settings.
- * When shipped, this is set OFF

24 VOLUME CONTROL VIA MIDI

Specify which type of MIDI message will be received to control the volume.

OFF: The volume will not be affected by incoming MIDI messages.

- Control change 11 (expression) messages will control the volume
- Control change 7 (volume) messages will control the volume.
- 3: Control change 2 (breath controller) messages will control the volume
- 4: Channel pressure (after touch) messages will control the volume
- * When shipped, this is set to 1

25 VIBRATO CONTROL VIA MIDI

Specify which type of MIDI message will be received to control vibrato.

OFF. Vibrato will not be affected by incoming MIDI messages.

- Control change 1 (modulation) messages will control the volume
- 2. Channel pressure (after touch) messages will control the volume
- * When shipped, this is set to 1

LOCAL ON/OFF SWITCH

LOCAL ON/OFF can be easily set using the switch on the rear panel of the KR-55.

Local On

This is the normal mode, in which the keyboard of the KR-55 is connected to its built-in sound source.

Local Off

In this mode, the keyboard of the KR-55 will not be connected to its built-in sound source, and playing the keyboard will not produce sound.

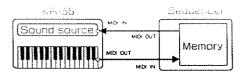


LOCAL



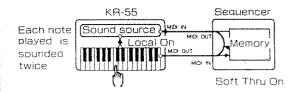


It is convenient to use local off when you wish to play only the connected MIDI sound source, or when a MIDI sequencer is connected



When the KR-55 is connected to a MIDI sequencer as shown above, you can record a musical performance played on the KR-55, and then play back the sequencer to trigger the sound source of the KR-55.

However if the MIDI sequencer is set to "soft thru" (i.e., when MIDI messages received at MIDI IN are re-transmitted from MIDI OUT), you will need to set the KR-55 to Local Off. If Local is On when you play a note, the message from the KR-55 keyboard and the message returned from the sequencer will both be played, which can cause the sound to be produced or to be cut off unnaturally.



The sequencer manual will explain how to check and make soft thru settings.

* If a MIDI cable is not connected to the MIDI IN terminal, the KR-55 will always be in Local On mode regardless of the position of the rear panel switch.

To restore the FACTORY SET data

This will restore all function and MIDI settings to the same condition as when the KR-55 was shipped.



The following message will be displayed.



Press and hold both the VARIATION (▲ and ▼) buttons for at least 5 seconds. All settings will be restored to the factory settings, and the following display will appear.



KR-55 internal Tones and PCM cards

The following PCM card Tones are identical to the internal Tones of the KR-55.

SN-U110-01	: 01 – 06 13 – 19	HARPSI 1 – 6 CHURCH 1 – 7
	20	CHURCH RVB
SN-U110-02	: 19	JINGLEBELL
SN-U110-06	: 01 – 06	OBOE 1 6
	12 - 17	CLARINET 1 – 6
SN-U110-08	: 01	FANTASIA
SN-U110-09	: 13 – 14	JP. BRASS 1 – 2
SN-U110-1	: 08	DOG

* Please be aware that; Since the KR-55 is able to receive MIDI Local On/Off messages, the actual Local On/Off condition may differ from the physical position of the rear panel switch.

LIST OF TONES

Number of Tone variations

- Number of Tone variations _TONE SELECT_ AGUITAR BASS BELL P.ORGAN E.ORGAN STRINGS VIOLIN 8 닏 3 5 5 2 <u>5</u>-3 3 4 Depends on the card Select variations

Keyboard/tone chart for each variation of DRUMS

	Variation Key number	1	2	3
81	35	Bass drum 1	Bass drum 1	Bass drum 1
	36	2	2	2
	# - Co - Select 37	Rim shot	Rim shot	Rim shot
	38	Snare 1	Snare 1	Dog 3
	39	Hand clap	Hand clap	Hand clap
	40	Snare 2	Snare 2	Snare 2
	41	Bass tom 1	Basstom !	Sheep 2
	42	Hi-hat (closed)	Hi-hat (closed)	Jingle bell 2
	43	Bass tom 2	Bass tom 2	Sheep 2
	185 mar # 44	Hi-hat (open 1)	Hi-hat (open 1)	Bird 2
	45	Mid tom 1	Mid tom 1	Dog 4
	46	Hi-hat (open 2)	Hi-hat (open 2)	Bird 2
	47	Mid tom 2	Mid tom 2	Dog 4
	48	High tom 1	High tem 1	Seal 2
	49	Crash cymbal	Crash cymbal	Cuckoo 3
	50	High tom 2	High tom 2	Seal 2
	51	Ride cymbal	Ride cymbal	Rìde cymbal
	52	China cymbal	China cymbal	Cat 3
	53			1' - 1 - 1 - 1 - 7
***************************************	54	Tambourine	Jingle bell 3	Jingle bell 3
	55			Cowbell
personner (1.5. 1911), there is a	56	Cowbell	Cowbell	Competi
	57	V4.5. VIV.		
	58			
	59		Bongo (high)	Bongo (high)
iter ->	60	Bongo (high) (low)	(low)	(low)
	61	Muted high conga	Muted high conga	Muted high conga
	62 63	Conga (high)	Conga (high)	Conga (high)
	64	(iow)	(low)	· · · · · · · · · · · · · · · · · · ·
	65	Timbales (high)	Cat 4	Cat 4
	66	(low)	Cat 5	Cat 5
	67	Agogo (high)	Dog 5	Dog 5
	68	(low)	Dog 2	Dog 2
	69	Cabasa	Bird 3	Bird 3
	70			
	71		,	
	72			
	73			
	74			
	75	Claves	Claves	Claves
	76	Jingle bell 1	Jingle bell 1	Jingle bell 1
	77	Dog 1	Dog I	Dog 1
	78	2	?	2
	79	CAT 1	CAT 1	CAT 1
	80	2.	2	2 ,
1	81	Cuckoo t	Cuckoo 1	Cuckoo 1
10000	96504(Clubby)78 82	2	2	2
	83	Bird 1	8 ird 1	Bird 1
- · ·	84	Sheep 1	Sheep 1	Sheep 1
C#6-	85	Seal 1	Seal 1	Seal 1

The range over which a Tone will sound

Some Tones have an upper limit beyond which they can not sound. If you attempt to play a note above this limit, the highest octave will be repeated.

Accoustic instruments have natural limits to the range of pitches they can produce, and these limits were observed when creating the sounds of the KR-55.

TONES AND PROGRAM CHANGE NUMBERS

When MIDI mode is Normal or Multi-timbre 1

Progam Change numbers transmitted and received

						TONE	SELECT					
VARIATIO NO.	A PIANO	HARPSI- CHORD	MALLET	EPIANO	P.ORGAN	EORGAN	STRINGS	CHOIR	VIOLIN	AGUITAR	BASS	BELL
1	3	4	6	7	12	15	18 .	22	24	26	28	36
2	5	9	10	8	13	16	19	23	25	27	29	37
3	1		11		14	17	50		•		30	
4	5	,				***************************************	51				31	
5								4			32	1
6											33	T
7											34	
8											35	

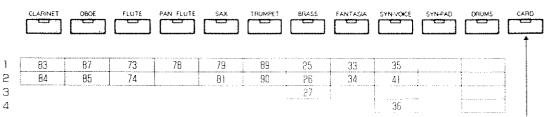
	CLARINET	080E	FLUTE	PAN FLUTE		TRUMPET	BRASS	FANTASIA	SYN-VOICE	SYNPAD	DRUMS	CARD
1	38	40	42	44	46	48	50	53	55	59	51	
2	39	41	43	45	47	49	51	54	56	60	62	
3							52		57		63	
4									58		64	

^{*} Card. Tones 1 \sim 64 correspond to program change numbers 65 \sim 128, it is not possible to select card Tones 65 or above using Program Change messages.

When MIDI mode is Multi-timbre 2

Program Change numbers transmitted when a Tone is selected

						TONE	SELECT					
	APIANO	HARPSI- CHORD	MALLET	E.PIANO	P.ORGAN	E.ORGAN	STRINGS	CHOIR	VIOLIN	AGUITAR	8455	BELL
VARIATIO NO)N											
+								,	,	,	v	••••
1	2	18	98	4	13	9	50		54	61	65	103
2	1	17	99	6	14	10	51		53	60	72	47
3-	3		105		15	12	49				71	
4	8	`		•	······································		52				29	:
5	·										32	1
6											30	
7											69	
8											70	ĺ
												,



Card Tones 1 ~ 64 correspond to program change numbers 65 ~ 128 lt s not possible to select card Tones 65 or above using Program Change messages

When MIDI mode is Multi-timbre 2

The Tone selected when a Program Change is received

	A DIANG G
	A. PIANO 2
5	A. PIANO 1
3	A. PIANO 3
4	E. PIANO 1
5	E. PIANO 1
6	E. PIANO 2
7	E. PIANO 2
8	A. PIANO 4
9	E. ORGAN 1
10	E. ORGAN 2
11	E. ORGAN 2
12	E. ORGAN 3
13	P. ORGAN 1
14	P. ORGAN 2
15	P. ORGAN 3
16	ACCORDION
17	HARPSICHORD 2
18	HARPSICHORD 1
19	HARPSICHORD 1
50	BASS 8
21	BASS B
22	BASS 8
53	E. PIANO 1
24	E. PIANO 1
25	BRASS 1
26	BRASS 2
27	
~~~~~	BRASS 3
28	BRASS 3
29	BASS 4
30	BASS 6
31	BASS 2
32	BASS 5
33	FANTASIA 1
34	FANTASIA 2
35	SYN VOICE 1
36	SYN VOICE 4
37	0.11701024
38	CTDINICO A
	STRINGS 4
39	FANTASIA 1
40	FUNNY·VOX
41	FANTASIA 2
42	
43	OBOE 1
44	
45	DOCTOR·SOLO
46	CLARINET 1
47	BELL 2
48	And how have been
49	CTOMICS T
	STRINGS 3
50	STRINGS 1
51	STRINGS 2
52	STRINGS 4
53	VIOLIN S
54	VIOLIN T
55	VIOLIN 2
56	VIOLIN 1
57	VIOLIN 1
58	A. GUITAR 1
	A. OUHAR I

ige is rece	
59	A. GUITAR 1
60	A. GUITAR 2
61	A. GUITAR 1
62	A. GUITAR 2
63	BASS 7
64	SITAR
65	BASS 1
66	-/
67	BASS 1
	BASS 2
68	BASS 2
69	BASS 7
70	BASS 8
71	BASS 3
72	BASS 2
73	FLUTE 1
74	FLUTE 2
75	FLUTE 1
76	FLUTE 2
77	PAN FLUTE 1
78	PAN FLUTE 1
79	
	SAX 1
80	SAX 1
81	SAX 2
85	SAX 2
83	CLARINET 1
84	CLARINET 2
85	080E 2
86	080E 1
87	OBOE 1
88	ACCORDION
89	TRUMPET 1
90	TRUMPET 2
91	TRUMPET 1
92	
	TRUMPET 2
93	TRUMPET 2
94	TRUMPET 2
95	TRUMPET 1
96	BRASS 1
97	BRASS 2
98	MALLET 1
99	MALLET 2
100	MALLET 2
101	BELL 2
102	MALLET 1
103	BELL 1
103	
	MALLET 3
105	MALLET 3
106	A.GUITAR 1
107	
108	PAN FLUTE 1
109	PAN FLUTE 1
110	PAN FLUTE 1
111	PAN FLUTE 1
112	PAN FLUTE 1
113	
114	
115	
116	

### **Roland Exclusive Messages**

### 1. Data Format for Exclusive Messages

Roland's MIDI implementation uses the following data format for all exclusive messages (type IV):

Byte	Description
FOH	Exclusive status
41H	Manufacturer ID (Roland)
DEV	Device ID
MDL	Model ID
CMD	Command ID
[BODY]	Main data
F7H	End of exclusive

### # MIDI status: FOH, F7H

An exclusive message must be flanked by a pair of status codes, starting with a Manufacturer-ID immediately after FOH (MID) version (I)

### # Manufacturer ID: 41H

The Manufacturer-ID identifies the manufacturer of a MIDI instrument that triggers an exclusive message. Value 41H represents Roland's Manufacturer-ID.

### # Device ID : DEV

The Device-ID contains a unique value that identifies the individual device in the multiple implementation of MIDI instruments. It is usually set to 00H ~ 0FH, a value smaller by one than that of a basic channel, but value 00H ~ 1FH may be used for a device with multiple basic channels.

### # Model ID : MDL

The Model ID contains a value that uniquely identifies one model from another. Different models, however, may share an identical Model ID if they handle similar data.

The Model (f) formal may contain 00H in one or more places to provide an extended data field. The following are examples of valid Model IDs, each representing a unique model:

01H 02H 03H 00H, 01H 00H, 02H 00H, 00H, 01H

### = Command ID : CMD

The Command-ID indicates the function of an exclusive message. The Command-ID format may contain 00H in one or more places to provide an extended data field. The following are examples of valid Command-IDs, each representing a unique function:

0:III 02:II 03:II 00:II, 01:II 00:II, 02:II 00:II, 01:II

### - Main data : BODY

This field contains a message to be exchanged across an interface. The exact data size and contents will vary with the Model ID and Command ID.

### 2. Address mapped Data Transfer

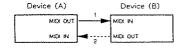
Address mapping is a technique for transferring messages conforming to the data format given in Section 1. It assigns a series of memory resident records waveform and tone data, switch status, and parameters, for example-to specific locations in a machine dependent address space, thereby allowing access to data residing at the address a message specifies.

Address mapped data transfer is therefore independent of models and data categories. This technique allows use of two different transfer procedures: one way transfer and handshake transfer.

### # One-way transfer procedure (See Section 3 for details.)

This procedure is suited for the transfer of a small amount of data. It sends out an exclusive message completely independent of a receiving device status.

### Connection Diagram

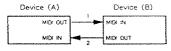


Connection at point 2 is essential for "Request data" procedures, (See Section 3.)

### #Handshake transfer procedure (See Section 4 for details.)

This procedure initiates a predetermined transfer sequence (handshaking) across the interface before data transfer takes place. Handshaking ensures that reliability and transfer speed are high enough to handle a large amount of data.

### Connection Diagram



Connection at points 1 and 2 is essential

### Notes on the above two procedures

- *There are separate Command-IDs for different transfer procedures.
- *Exhices A and B cannot exchange data unless they use the same transfer procedure, share identical Device-ID and Model ID, and are ready for communication.

### 3. One way Transfer Procedure

This procedure sends out data all the way until it stops and is used when the messages are so short that answerbacks need not be checked.

For long messages, however, the receiving device must acquire each message in time with the transfer sequence, which inserts intervals of at least 20 milliseconds in between.

### Types of Messages

Message	Command ID
Request data 1	BO1 (11H)
Data set 1	DT1 (12H)

### = Request data = 1 : RQ1 (11H)

This message is sent out when there is a need to acquire data from a device at the other end of the interface. It contains data for the address and size that specify designation and length, respectively, of data required.

On receiving an RQ1 message, the remote device checks its memory for the data address and size that satisfy the request.

If it finds them and is ready for communication, the device will transmit a "Data set 1" (DT1)" message, which contains the requested data. Otherwise, the device will send out nothing.

Byte	Description
F0∺	Exclusive status
419	Manufacturer (D (Roland)
DEV	Device ID
MOL	Model ©
116	Command ID
aaH	Address MSB
E C	Size MSB
SUM	Check som
F 7 H	End of exclusive

- *The size of the requested data does not indicate the number of bytes that will make up a DT1 message, but represents the address fields where the requested data resides.

  *Some models are subject to limitations in data format used
- *Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- *The same number of bytes comprises address and size data, which, however, vary with the Model-ID.
- *The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

### # Data set 1: DT1 (12H)

This message corresponds to the actual data transfer process. Because every byte in the data is assigned a unique address, a DT1 message can convey the starting address of one or more data as well as a series of data formatted in an address-dependent order.

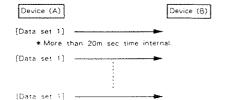
The MIDI standards inhibit non-real time messages from interrupting an exclusive one. This fact is inconvenient for the devices that support a "soft-through" mechanism. To maintain compatibility with such devices, Roland has limited the DTI to 256 bytes so that an excessively long message is sent out in separate segments.

Byte	Description
FOH	Exclusive
41H	Manufacturer (0 (Roland)
DEV	Device ID
MDL	Model ID
1.214	Command ID
Has	Address MSB
	LS8
2014	Data
sum	Check sum
F 714	End of exclusive

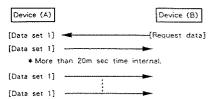
- *A DT1 message is capable of providing only the valid data among those specified by an RQ1 message.
- *Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- *The number of bytes comprising address data varies from one Model-ID to another.
- *The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

### = Example of Message Transactions

◆ Device A sending data to Device B Transfer of a DT1 message is all that takes place.



Device B requesting data from Device A Device B sends an RQ1 message to Device A. Checking the message, Device A sends a DT1 message back to Device B.



### 4. Handshake Transfer Procedure

Handshaking is an interactive process where two devices exchange error checking signals before a message transaction takes place, thereby increasing data reliability. Unlike one way transfer that inserts a pause between message transactions, handshake transfer allows much speedier transactions because data transfer starts once the receiving device returns a ready signal.

When it comes to handling large amounts of data-sampler waveforms and synthesizer tones over the entire range, for example-across a MIDI interface, handshaking transfer is more efficient than one way transfer.

Types of Messages

Message	Command ID
Want to send data	WSD (40H)
Request data	RGD (414)
Data set	DAT (42H)
Acknowledge	ACK (43H)
End of data	EOD (45H)
Communication error	ERR (4EH)
Rejection	RJC (4FH)
	l .

### #Want to send data: WSD (40H)

This message is sent our when data must be sent to a device at the other end of the interface. It contains data for the address and size that specify designation and length, respectively, of the data to be sent.

On receiving a WSD message, the remote device checks its memory for the specified data address and size which will satisfy the request. If it finds them and is ready for communication, the device will return an "Acknowledge (ACK)" message.

Byte	Description
= :	Electrosis de la Contractorio
4166	Manufacturer ID (Roland)
DEV	Device ID
MOL	Moder 10
40	Command (D
aa⊢ :	Address MSB LSB
55-4	Size MSB LSS
5	Creck sum
F7-4	End of exclusive

Otherwise, it will return a "Rejection (RIC)" message

- *The size of the data to be sent does not indicate the number of bytes that make up a "Data set (DAT)" message, but represents the address fields where the data should reside.
- *Some models are subject to limitations in data formal used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermines address fields before at is exchanged across the interface.

  *The same number of fixtes comprises address and size data.
- The same number of fixtus comprises address and size data which, however, vary with the Model ID.
- *The error effecting process uses a checkson that process a bit pattern where the least significant 7 bits are zero when cafees for an address, size, and that checkson are sommest.

### = Request data: RQD (41H)

This message is sent out when there is a need to acquire data from a device at the other end of the interface. It contains data for the address and size that specify designation and length, respectively, of data required.

On receiving an RQD message, the remote device checks its memory for the data address and size which satisfy the request. If it finds them and is ready for communication, the device will transmit a "Data set (DAT)" message, which contains the requested data. Otherwise, it will return a "Rejection (RJC)" message.

i compet		
Byte	Description	
F0H	Exclusive status	
41H	Manufacturer ID (Roland)	
DEV	Device ID	
MDL	Model ID	
41H	Command ID	
ваН	Address MSB	
ssH	Size MSB	
รนภา	Check sum	
F7H	End of exclusive	

- *The size of the requested data does not indicate the number of bytes that make up a "Data set (DAT)" message, but represents the address fields where the requested data writter.
- *Some models are subject to limitations in data format used for a single transaction. Requested data, for evantile, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- *The same number of bytes comprises address and size data, which, however, vary with the Model-ID.
- *The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

### # Data set : DAT (42H)

This message corresponds to the actual data transfer process. Because every byte in the data is assigned a unique address, the message can convey the starting address of one or more data as well as a series of data formatted in an address dependent order.

Although the MIDI standards inhibit non-real time messages from interrupting an exclusive one, some devices support a "soft-through" mechanism for such interrupts. To maintain compatibility with such devices, Roland has limited the DAT to 256 bytes so that an excessively long message is sent out in separate segments.

Byte	Description
FOH	Exclusive status
4114	Manufacturer ID (Roland)
DEV	Device ID
MDL	Model ID
42H	Command ID
ваН	Address MSB : : : : : : :
adH	Date
sum	Check sum
F7H	End of exclusive

- *A DAT message is capable of providing only the valid data among those specified by an ROD or WSD message.
- among those specified by an RQD or WSD message.

  *Some models are subject to fimiliations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- *The number of bytes commissing address data varies from one model HI to another.
- *The error checking process uses a checksom that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksom are summed

### # Acknowledge: ACK (43H)

This message is sent out when no error was detected on reception of a WSD, DAT, "End of data (EOD)", or some other message and a requested setup or action is complete. Unless it receives an ACK message, the device at the other end will not proceed to the next operation.

Byte	Description	
FOH	Exclusive status	
41H	Manufacturer ID (Roland)	
DEV	Device ID	
MDL	Model ID	
43H	Command ID	
F7H	End of exclusive	
	1	

### #End of data: EOD (45H)

This message is sent out to inform a remote device of the end of a message. Communication, however, will not come to an end unless the remote device returns an ACK message even though an EOD message was transmitted.

Ðγte	Description	
FOH	Exclusive status	
41H	Manufacturer ID (Roland)	
DEV	Device ID	
MDL	Model ID	
4514	Command ID	
F7H	End of exclusive	

### = Communications error ERR 4EH

This message warns the remote device of a communications fault encountered during message transmission due, for example, to a checksum error. An ERR message may be replaced with a "Rejection (RJC)" one, which terminates the current message transaction in midstream.

When it receives an ERR message, the sending device may either attempt to send out the last message a second time or terminate communication by sending out an RIC message.

Byte	Description	
F0H	Exclusive status	
41H	Manufacturer ID (Roland)	
DEV	Device ID	
MDL	Model ID	
4EH	Command ID	
E744	End of exclusive	

### # Rejection RJC (4FH)

This message is sent out when there is a need to terminate communication by overriding the current message. An RJC message will be triggered when:

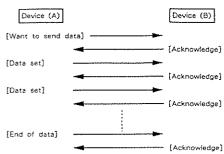
- a WSD or RQD message has specified an illegal data address or size.
- the device is not ready for communication.
- an illegal number of addresses or data has been detected.
- data transfer has been terminated by an operator.
- a communications error has occurred.

An ERR message may be sent out by a device on either side of the interface. Communication must be terminated immediately when either side triggers an ERR message.

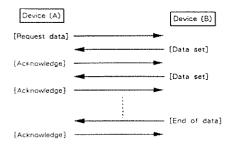
Byte	Description	
£0મ્ય	Exclusive status	
415	Manufacturer (D. (Roland)	
SEV	Device ID	
MDL	Model ID	
大川 い	Command ID	
5.7 m	End of exclusive	

### #Example of Message Transactions

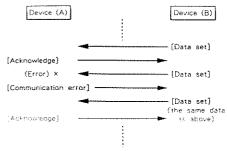
● Data transfer from device (A) to device (B).



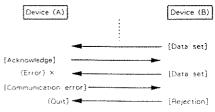
Device (A) requests and receives data from device (B).



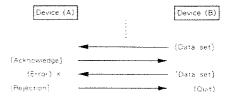
- Error occurs while device (A) is receiving data from device (B).
- 1) Data transfer from device (A) to device (B).



2) Device (B) rejects the data re-transmitted, and outs pate transfer.



3) Device (A) immediately quits data transfer.



### MIDI Implementation

Version : 1.00

Date: Dec. 6, 1989

### 1. RECOGNIZED RECEIVE DATA

### Channel Voice Message

### ● Note Off

 Status
 Second
 Third

 8nH
 kkH
 vvH

 9nH
 kkH
 00H

n=MIDF Channel :OH = FH (0 - 15) 0=ch. 1 15=ch. 16

kk=Note number :00H - 7FH (0 - 127) vv=Velocity :00H - 7FH (0 - 127)

* Velocity value is ignored

### ● Note On

 States
 Second
 Third

 9oH
 kkH
 vvH

ละพิโติเ Channel (0H - FH (0 - 15) 0-ch. 1 15-ch. 16

kk=Note number :00H - 7FH (0 - 127) vv=Velocity :01H - 7FH (1 - 127)

• The transpose function does not affect the recognized note numbers.

### Control Change

### Modulation depth

 The VIBRATO CONTROL is set to 1(Control change i) by panel, then this message is recognized as vibrato depth.

### Breath Control

 Status
 Second
 Third

 RSE
 02H
 vvE

n=M1Di Champel :8H FH (0 15) 0*ch.) (5-ch.)6 vv*Control Value :00H - 7FH (0 - 127)

vv-Control Value :00H - 7FH (0 - 127)

 The VOLEME CONTROL is set to 3(Control change 2) by panel, then this message is recognized to volume.

### O Main volume

in common Value 00H THIS CO 127:

 The YOLLWE CONTROL is set to 2 (Centrol change 7) by panel, then this message is recognized to volume.

### O Pan

 Status
 Second
 Third

 Bod
 9AH
 vvii

n:Wibi Channel 10H FH (6 (5) 0 ch. i 13 ch. 16

on Control Value (908) 788 (0) (27) Select Socienter (27)Right

### Expression

 Status
 Second
 Herd

 Bull
 088
 008

n  $V(\theta)$  (hanne) —  $O(r-f(\theta)(\theta)-15)$  — 0 of 1 is qu.  $f(\theta)$ 

A Control Value | 00B | 7FB (0 | 123)

• The NOLLMA CONTROL as set to illustrations and by panel, then thus weeding the operated to solube.

### O Hold 1

 Status
 Second
 Third

 BnH
 40H
 vvH

### ○ Sostenuto

 Status
 Second
 Third

 Boll
 42H
 vvH

### O Chorus

 Status
 Second
 Third

 Bolt
 5Dk
 vvll

### O Data Entry MSB

<u>Status</u> <u>Second</u> <u>Thir</u>

### O Data Entry LSB

<u>States Second Durat</u> Hold 268 118

### ORPN LSB

 Status
 Second
 Third

 Bolf
 64H
 will

n=MiDI Channel : 6H  $\times$  FH (0 = 15) = 0 ch. 1 = 15=ch. 16 vv=LSB of the parameter number controlled by RPK

### ORPN MSB

 Status
 Second
 Third

 RoF
 65H
 vvH

Master Fine Tune and Pitch Book Sensitivity are controllable by RPV on FE St

EPA	Data Entry	
MSB LSB	MSB FZB	Comments
00H 00H	ame H Hamma	Pitch Bend Sensitivity
	00H ignored	ignored
	DiH ignored	ignored
	02H ignored	200 cent
	. ignored	
-	0CH ignored	1290 cent
	908 ignered	ispored
	. ignored	ignored
	7fH Ignored	ignored

EPN		Data	Entry	
MSB	LSB	MSB	LSB	Comments
008	018	H	118	Master Fine Tune
		20H	OOH	-50 cent
		40H	00H	0 cent (A4=440.0Hz)
		60H	NOOH	+50 cent

### • Program Change

Status	Second
CnH	Hqq

 The relation of between the Program change number and Tone is different in each WIDI modes. (Refer to Section 3.)

### Channel Pressure

Status	Second
Dm1?	wh

\$\$ n=M101 Channel \$\$ (01 - FH (6 - 15) - 0=ch. 1 - 15=ch. 16 \$\$ vv=Pressare Value \$\$ (00H - 7FH (0 - 127) \$\$

- The VOLEME COVIED is set to ifChannel pressure) by pasel, then this message is recognized to volume.
- The VIBRATO CONTROL is set to ?(Channel pressure), then this message is recognized to vibrato depth.

### Pitch Bend Change

<u>Status</u> Enii	Second 11#	Therd and
n:Mill Chann	el	:08 - FB (0 - 15)
The Present Ben	d charge 158	1999 7579 76 1271
mm:Pitch ben	d change MSB	:00N 7FE (6 127)

### ■ Channel Mode Message

### Reset All controllers

Status	Second	Thist
Boff	79H	901

I when beset All controllers is recognized, each of the controller is set as fellows.

Controller	Value
Mikiggagger.	SB (6) WIN
Breath Greene	71 E (107) MAX
Volume	7FR (127) [MAX
Pan	40R (64) [center
Expression	7FH (127) [MAX]
Hold 1	OE (0) [014]
Sostenato	OH (0)  OFF
Channel Pressure	0B (0) "VIS"
Pitch Bend	LSB : 88 (5), WSB (64) - renter

### • Local Control

Status	<u>5econa</u>	ifican	
Bolt	748	eco	
n Milis Channel vv-Value		(3) Birth 1 ) (37) Birth 3	

- When the local off is transported, all the leternal motes which have been forced acousty interest Aryboard are target off.
- . Mean the large of  $\ell$  is recognized, GPDW and LORGE are not to long to be at the case of the

### All Notes Off

<u>Status</u>	Second	Third	
BnH	7BH	OOH	
n=WiDI Channel	:OH - FH (0 - 15	)	0=ch. 1 15=ch. 16

# When the All Notes Off is recognized, all the notes which have been turned on only by note on messages are turned off.

However, if the hold-1 on message has been recognized, these notes will not be turned off until the hold-1 off message is received.

### OMNI OFF

Status

Braff	7CH	H00	
n=M1D1 Channel	:08 · FH (0 - 15	}	0=ch. 1 15=ch.

Third

* The OMNI OFF message is also recognized as All Notes Off. * 1

### OMNI ON

<u>Status</u>	Second	<u>Third</u>	
Bolf	7DH	80#	
n-MIDI Channel	:0H FH (0	15}	0=ch. (-15=ch. (6

* The OMNI OFF message is also recognized as All Notes Off. * )

### • MONO

<u>Status</u> Boll	Second 7EH	<u>Third</u> enH	
n=Mibi Chaonel	:0H · FH (0 -	(5)	0-ch.
• The OMAL OFF a	resage is anso	File SyDS: Zind as Alli	i Nates vid. 💌

### • POLY

Status Rn#	Second 304	<u>Third</u>	
n-MIDI Channel	:OH · FH (0 -	15)	0=ch. 1 15=ch. 16

 ${\bf t}$  The OMNI OFF message is also recombined as AHI Notes Off  $|{\bf t}|$ 

### Note:

* I KR-55 is always set to MODE 3(OMNT OFF, POLY).

### ■ System Realtime Message

### Active Sensing

### Status FFH

Once receiving this message, it --- to expects to a cent states or but its sequence,
within 300 msec intervals. If the unit fails to receive a message within 300 msec
after previous one, it judges there is a problem somewhere in Wild path, muting the
current sound and setting each of controllers as below, then stopping 300 msec
interval monitoring of incoming signal.

### ■ System Exclusive Message

<u>Status</u> FOH FOH		
FOR	(System exclusive	

FTR (EDV. God of Exclassive/System common)

- You can set the Wibl Made. Partial reserve number and etc. if the Wistes Exclusive Wessage
- Befor to "Robert Larianism Messago" and sortion to

### 2. TRANSMITTED DATA

### Channel voice message

### ● Note off

 Status
 Second
 Third

 8oH
 kkH
 vvH

kk-Note number :16H - 6CH (22 - 108) vv=Velocity :01H - 7FH (1 - 127)

### Note on

Status Second Third

kk=Note number :16H = 6CH (22 = 166) vv=Velocity :01H = 7FH (1 = 127)

* The range may be changed by transposition.

* The transpose value can be set with in the range of -6 to +5 by panel operation.

The following chart shows the relation between the transmitted note range and transposed value.  $\ensuremath{\mathsf{N}}$ 

Transpose Value Transmitted note range

Transpose raids	Elbicone e econ more l'es
-6	22-97
-5	23-98
-4	24 99
3	25 100
- 2	26 - 101
- 1	27 102
0	28-103
• I	29-104
- 5	39 - 105
- 5	31-168
-4	32-107
•5	33-108

### ● Control Change

### O Modulation Depth

Status Second Third

vv=Control Value :00H - 60H (0 - 96)

 The PITCH BEND is set to 1 or 2 by panel, then when operate the key which assigned to Vibrato, this message will be transmitted.

### - Pan

 Status
 Second
 Third

 BoH
 -0AH
 vvH

 $(a) \, \Psi(b)$  (barge)  $(b) \, \Psi(b) \, \Psi(b) \, (b) \, h$  (cf.) is the He

vs-Control Value :00H 7FW (0 127)

* When the PED44 is set to 4(Pan) by panel, this message will be sent by operating the Pedal(Roland 4V.5).

### © Expression

 Status
 Second
 Ihird

 RoR
 OBR
 vvR

n Wille Charmel - .8H - FH (0 - 15) - 0 chul - 15 chul6

ex Constol Value (608 - 788 (5 107)

 The PIDAL is set to 3(Expression) by page), then when operate the Pearl Golden (V 5) this message will be transmitted.

### O Hold I

 Status
 Second
 Third

 BnH
 40H
 vvH

 The PEDAL is set to I(Duzper) by panel, then when operate the Pedal, this message will be transmitted.

### ○ Sostenuto

 Status
 Second
 Third

 BnH
 42H
 vvH

 The PEDAL is set to 2(Sostenuto) by panel, then when operate the Pedal, this message will be transmitted.

### ○ Chorus

 Status
 Second
 Third

 BoH
 5DH
 vvH

o-MIDI Channel (OH FB (0 15) 0 ch.1 15 cb.16 vv=Control Value (308, 7FB (0, 127) 0-OFF 127=08

 The IX PROC.C MODE is set to DV by pasel, then when operate the CHORD'S button, On or Off message will be transmitted.

### Program change

 Status
 Second

 Cell
 opili

pp=Program change number :00H - 7FH (0 - 127)

This massage can be transmitted by panel operation of SEND PROG.C.
 The TX PROG.C WHATE is set to 64 by panel, then the program change measure has be sent.

 The TK PROS C WINE is set to DA by user) then the program change measure member sent type and pressing fone Select button. Transwitted program change number is different from each WIDI mode. Refer to Section 3 (WIDI mode).

### • Pitch bend change

 Status
 Second
 Third

 EnH
 LIM
 mmH

- The PITCH BEND is set to 1 or 2 by panel, when operate the key assigned to Pitch Bend, this message will be transmitted.
- If the KFY MODE is DLAL or SPLIT, sent by both GPPFE and LOWER channel. If the WHOLF mode selected, sent by only 19949 channel.

### ■ System realtime message

### Active sensing

Status rva

* Active seasing transmits within the interval of 500 more

### System exclusive message

<u>\$18105</u> | Beta 0036 108 | E.E. 528. . | 676 109

 FGB
 System enclipsor

 0: 10 Number
 \$18,765

 0: 10 Number
 \$18,765

 0: 10 Number
 \$18,765

FOR First of European System Commons

• The IN PRODUCABLE set track by panel, then when operate as mention is shapement have approve table Geometrical Particle Reservoi by panel, this measure with technology  $\sigma$ 

### 3. MIDI MODE

KR-55 has three MIDI modes; Normal mode, Multi timbre 1 mode, and Multi timbre 2 mode. It's available three KEY modes (WHOLE, DUAL, and SPLIT) in which MIDI mode. When the both of Multi timbre mode, the setting of receive channel of UPPER and LOWER is invalidate.

### ■ Normal mode

Normal mode is the basic MIDI mode.

The KEY WODE is set to DDAL or SPLIT, then both UPPER and LOWER has different receive channel(transmit channel) in respectively. The WHOLE selected, receive channel(transmit channel) will use the UPPER channel.

The following chart shows the relation between the Program Change number and tone.

Program change number	tone
٥	A. PIANO 3
1	A. PIANO 2
2	A. PIANO 1
3	HARPSICHORD 1
4 5	A. PIANO 4
6	MALLET 1
7	E. PIANO I E. PIANO 2
8	HARPSICHORD 2
9	MALLET 2
16	MALLET 3
H	P. ORGAN 1
12	P. ORGAN 2
13	P. ORGAN 3
14	E. ORGAN 1
15	E. ORGAN 2
16	E. ORGAN 3
17	STRINGS 1
18 19	STRINGS 2
20	STRINGS 3
2)	STRINGS 4 CHOIR 1
7.2	CROIR 2
23	VIOLIN 1
24	VIOLIN 2
25	A. GUITAR I
26	A. GUITAR 2
27	BASS 1
28	BASS 2
29	BASS 3
30	BASS 4
31	BASS 5
32	BASS 6
33 34	BASS 7
35	BASS 6
36	BELL 1 BELL 2
37	CLARINET 1
3B	CLARINET 2
39	OBOE 1
40	OBOE 2
(I	FLUTE 1
42	FLUTE 2
13	PAN FLOTE 1
14	PAN FLUTE 2
15	SAX 1
16	SAX 2
17	TRUMPET I
18 19	TRUMPET 2
50	BRASS 1
51	BRASS 2 BRASS 3
52	FANTASIA I
3	FANTASIA 2
i4	SYX VOICE 1
55	SYN VOICE 2
16	SYN VOICE 3
17	SYN VOICE 4
18	SYN_PAU 1
9	SYN_PAD 2
10	DRUMS 1
1	DREMS 2
2	E ZW190
3	DROWS 4

- The member from 54 to 127 use to select the cones of PCM (188), for the select the St tomes of PCM CARD by sonding Program thomes research from pre-section by sonding Program thomes research from pre-section by state of contains more than 65 tomes, you can solve the paster for 64 to 122 by senting the System Factuation messages.

  * The PO PROCE Will is set to 60% by panel, the Program the pormansage os amone.

### 🗷 Multi timbre 1 mode

in Multi timbre 1 mode, there are 7 parts corresponding to receive channel 1,11,12,13, 14, 15 and 16.

These parts can have specific tones assigned to them.

If transmit channel not set 1, 11, 12, 13, 14, 15 and 16, the KR-55's keyboard can not to be connected to the part.

Each part's tone can change by receive the Program Change Message. The relation between the Program Change number and tone are the same as Normal mode. Tone setting of each part is menvolatile.

Each part's Partial reserve number can change by receive the System Exclusive Message. The maximum of total partial reserve count are 30.

### ■ Multi timbre 2 mode

This mode is considered of compatibility from Roland VE-32's receive channel and program

The explanation as follows is the different point from Multi timbre 1 mode.

In this mode, there are 7 independent parts, corresponding to receive channel 1,2,3,4,5,

The tone of the receive channel 10 is always DRUMSi. The program change message are ignored this channel.

The following chart shows the relation between the Program Change number and tone.

Program change number	1006
G <b>*</b>	A. PIANO 2
34	4. P14NO 1
24	4. FT4V0-3
34	E. PTANO 1
1	E. F13NO 1
51	E. PIASO 2
б	E. PIANO 2
74	4,95480-4
ă*	E. GROAVIII
91	E. ORGAN 2
10	E. ORGAN Z
11+	E. ORGAN 3
:3 <b>4</b>	P. ORGAN 1
	PUEREM E
44	P. ORGAN 3
15	ACCORDION
164	HARPSICHORD 2
17.	HARPS (CHORD 1
18	HARPSICHORD 1
19	BASS 8
26	BASS 8
21	BASS 8
22	E. PTANO 1
23	£. P14V0-1
100	PRAYS 1
25*	BRASS 0
26*	BRASS 3
27	BRASS 3
28*	8455 4
Д¥•	BASE F
.50	BASE I
31•	B455 3
32*	FANTASIA (
33•	FANTASIA 2
34#	51Y V61CE
351	SYN VOICE 4
36	
37	STRINGS 4
78	14 <b>\</b> T+F1\$  }
39	1740 CD
10	( * 7 * 5 )
13	
12	(e))
45	
14	D00119 (254)
15	[1] ## 1 # 2 T
16#	\$511 T
41	
4-4	TERROR S
\$9.	TRIN0
Ye.€	TRING!
[]]1	75 N (1)
7.*	• .
41	

Part * (Channel)	Tone	Partial reserve number
1 (1) (1)	PIANO 1	13
2(11) (2)	BASS 4	2
3(12) (3)	STRINGS 3	4
4(13) (4)	BRASS 1	3
5(14) (5)	SAX I	2
6(15) (6)	FANTASIA 1	2
7(16)(10)	DRUMS I	4

 $\blacksquare$  The following chart shows the relation between the tone and use partial number. (For all MIDI modes.)

Tone	Partial number
A. PIANO I	2
A. PIANO 2	2
A. PIANO 3	1
A. PTANO 4	2
HARPSICHORD 1	1
HARPSICHORD 2	2
MALLET 1	l
MALLET 2 MALLET 3	2
E. PIANO 1	1 2
E. PIANO 2	2
P. ORGAN 1	2
P. ORGAN 2	2
P. ORGAN 3	2
E. ORGAN 1	2
ELORGAN 2	2
EL ORGANI 3	š
STRINGS (	1
STRINGS 2	2
STRINGS 3 STRINGS 4	2 l
ranse i	1
CHO18 2	2
VIOLIN 1	1
VIOLIN 2	1
A. GUITAR I	1
A. GUITAR 2	2
BASS & MCGUSTIC	2
BASS 2 (FRETLESS BASS 3 (FRETLESS	
BASS 4 (SYNTH')	2
BASS 5 (SYNTH')	1
BASS G (SYNTH')	1
BASS 7 (SLAP)	1
BASS 8 (SLAP)	2
BELL 1	1
BELL 2	1
CLARINET 1	1
CHARISET 2 080E I	1
680E 2	1
FLUTE I	1
FLUTE 2	2
PAS CITIS 1	2
PAN FLUTE 2	2
SAX 1	1
SAX 2	1
TREMPET 1 TREMPET 2	1 2
BRASS 1	1
BRASS 2	2
BRASS 3	2
PANTASTA 1	2 2
FANTASIA Z	
SYN VOTCE 1	1
SAZ ADTOR 3	2
SYN VOICE 3 SYN VOICE 4	2 2
SYS_PAD 1	3
SYN_PAD 2	3
DRIMS 1	1
ORINS 3	!
DRUMS 3	}
BRUMS &	\$

VIOLIN 1 56 VIOLIN 1 57 A. GUITAR I A. GUITAR 1 58 594 A. GUITAR 2 66* A. GUITAR 1 13 A. GUITAR 2 62 63 RASS T SITAR 64# BASS 1 65 BASS 1 86 BASS 2 BASS 2 67 68* BASS 7 BASS 8 69 • 70 ¢ BASS 3 714 BASS 2 72# FLUTE 1 FLUTE 2 734 FLUTE 1 74 75 FLUTE 2 76 PAN FLOTE 1 771 PAN FLUTE 1 7E+ SAX I SAX 1 79 SAX 2 80* 81 SAX 2 824 CLARINET 1 83+ CLARINET 2 84+ OBOE 2 OBOE 1 85 OBOE 1 #38 87 ACCORDION 881 TREMPET 1 89 • TRUMPET 2 99 TRUMPET 1 TRUMPET 2 91 TRUMPET 2 92 43 TRUMPET 2 TRUMPET 1 95 BRASS 1 BRASS 2 96 97+ HALLET 1 MALLET 2 964 99 MALLET 2 100 BELL 2 101 MALLET 1 RELL 1 1024 MALLET 3 163 164+ A. GUITAR 1 106 PAN FLUTE 1 197 PAN FLUTE 1 108 PAN FLUTE 1 109 PAS FLITE 1 110 311 PAN FLUTE 1 112 113 314 115 116 117 118

The PA 2906.C WOLE is set to OFF by panel. then Program Change massage is imposed.

- t When the recognized the program change number which has no tone name, the key event sessages are ignored.
- The II PRGC C MODE is set to ON by panel, then the program change number marked " $\star$ " ran be sent to only pressing lone Setect button.
- The program change message can not be sent by prossing tone select button which no listed tone name, in the TX PROG.C MODE is set to 00 by page; Also it can not be sent by pagential of select the CARD's tone.

### 4. EXCLUSIVE COMMUNICATION

You can set the parameter by the Exclusive Communication. The Partial Reserve massage recognized only Multi timbre mode. The PAD mode message recognized only Normal Mode.

The KR-55's Model ID is 1AH and Device ID is 10H.

### ■ One-way transfer procedure

<ul> <li>Data set 1</li> </ul>	DT1	(12H)
Byte	Description	
FOH	Exclusive Status	
419	Manufacturer 10	(Roland)
10H	Device 1D	
148	Model 1B	(KR-55)
1211	Command ID	(DT1)
aaH	Address WSB	
Hdd	Address LSB	
<b>₫₫</b> ₩	Data	
:	:	
ddH	Data	
SUB	Check Sum	
F7H	EOX	(End of exclusive)

### 5. PARAMETER ADDRESS MAP

(Model ID-TAE)

The address is expressed by 7bit becadecimal number.

Address MSB Binary Оваа ваза Obbb bbbb Rexadecima! AA 88

### ■ Parameter base address

		ress			escription
1					MIDT Mode
i	•		i	0000 4000	1 0 : Normal Mode
					1 Moist Eimbro 1
					: 2 : Wuiti Timbre 2
I	00	1F	ì	0000 00dd	I PAD Mode :
I			į		0 : off :
į			ŧ		i 1 : Variation 1
i			Š		2 : Variation 2
I			ş		3 : Variation 3
ļ	90	20		0000 00dd	-
ì			1		f 0 : Whole Mode
1			ì		1 : Dual Mode
:	0.5	0.1	1	0000 0004	2 : Split Mode
	ug	41		0050 9998	Velocity Wode
					6 : Vermal Wode 1 : Reverse Wode
ì	00	22		Bada dada	Split Point
ì			i		28 - 163 (key number) *1
	00	23			Pitch Red or off
					8 moff
					: 1 : 1 on
			:		2 : 2 on
	ÒÜ	24	i	0000 dddd	i Pitch Bend Range
:			i		! 2 - 12 : Range (x100ccn1)
:	00	25	÷	0000 dd <b>d</b> d	Reverb Variation
					0 ; off
					1 8 : Reverb Variation
	UO	26		naan qaqa	- Chorus Variation
	n.s	27		0080 Oddd	1 8 : Chorus Variation Pedal Mode (EPPER)
	0.0	11		oove vada	0 : Not Assign
					1 : Pampor Pedal (Rojd 1)
					2 . Sostemuto Pedal (Sostemuto)
					3 : Expression Fedal (Expression)
					4 : Pan (Pan)
	06	28		0000 0ddd	- Pedal Mode (LOWER)
					9 : Not Assign
					l Basper Pedal (Hold !)
					<ol> <li>Sostemate Pedal (Sostemata)</li> </ol>
					3 : Expression Pedal (Expression)
					4 : Pan (Pan)
	30	29		0000 04nd	
					8 · OFF
					1 Control Croops of Tappessioni

1		,		D. Contract Change 2 (Value)
1		í		i 2 : Control Change 7 (Volume) ; i 3 : Control Change 2 (Breath) ;
i		i		i 4 : Channel Pressure
İ	00 2A		0000 00dd	Vibrate Centrol
1		1		1 0 : OFF
İ		ł		1 1 : Control Change 1 (Modulation)
}		ŧ		1 2 : Channel Pressure
	00 2B		OXXX XXXX	ignored
1	00 2C		OXXX XXXX	
ì	00 2E		Oxxx xxxx Oxxx xxxx	
i	00 2F			
i	00 30			Expanded Program Change for ch. 1
i	00 31			Expanded Program Change for ch. 2
ŧ	00 32	-		Expanded Program Change for ch.3
i	00 33	į	0000 රජරර	Expanded Program Change for ch.4
1	00 34			Expanded Program Change for ch.5
1	00 35			f Expanded Program Change for ch. 5
!	00 35			Expanded Program Change for ch. 7
1	00 37 00 38			Expanded Program Change for ch. 8
i	00 38			Expanded Program Change for ch. 9  1 Expanded Program Change for ch. 10
i	00 3A		00dd dddd	
i	00 3B			
i	00 3C	3	bbbb bb00	Expanded Program Change for ch. 13
1	00 30	5	DDDD DDGG	Expanded Program Change for ch. 14
1	00 3E		0004 4444	! Expanded Program Change for ch. 15
1	00 3F		00dd dddd	
!		- 5		0 - 63 : Card Tone (65 128)
	DD 40		8000 0ddd	Octave Shift for ch. l
-	00 41		0000 0ddd	Octave Shift for ch.2 Octave Shift for ch.3
٤	00 42		0900 0000	Octave Shift for ch.:
	00 44		0000 8ddd	
***	00 45			Octave Shift for ch.6
Í	00 46	!		
1	00 47	- 1	8686 6ddd	Octave Shift for ch.8
Į	00 48	i	0000 Odad	Octave Shift for ch.9
	60 49		0000 0333	Octave Shift for ch. 10
	00 43		0000 0daa	Schave Shift for CL 11
i	00 4B		0000 0ddd	Octave Shift for ch. 12   Octave Shift for ch. 13
4	00 40			Octave Shift for ch. 14
í	B0 4E			
	00.10		0008 0000	Octave Shift for ch.16
				6 : 3
i		į		. 1 : -2
İ				. 2 : -1
1		- 1		3: 0
1		-		4:1
1				5 1 -2
	00 50		0000 dddd	6: -3 Voice Inval. for ab 1
i	00 51		0000 0000 0000 0000	Voice Level for ch. 1 Voice Level for ch. 2
	00 52		0000 dddd	Voice Level for ch. 3
	90 53		0000 6745	Voice Lovel for ch 4
	89 54		0000 dada	voice revel for cala
÷	00 55	i	0000 dada	Voice Level for ch. 6
1	00 5£			Voice Level for ch. 7
:			0000 dadd	Voice Level for ch. 8
	00 58		0000 dodd	since texel for this
	89 39		0000 adas	
	00 5A		0000 dddd	
	00 59 00 50		0000 aded 0000 daed	
	00 50		0000 dadd	Voice Level for ch. 14
	00 SE		0000 0000	
	00 5F		6000 dddd	Foice Level for ch. 15
				5 - 5 : Voice level (1 - 10)
	00 F0		800d dddd	Partial Reserve for part 1
	00 61		600d dddd	
	00 62		0000 0000	Partial Reserve for part 3
	00 63		000d dddd	Partial Reserve for part t
	00 64		0000 0000	Partial Ecserve (or part )
	90 65		0001 1503	
	00 66		000a esse	Facilial Poscove for part 7
				5 70 : Partial Rosenic Number € 2
4.				

- 1 The Trunspose (sing the out affect Spirit Page)
  2 The partial colors science (single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-single-si

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### MIDI Implementation Chart

Date : Dec. 6, 1989

Version: 1.00

	Function •••	Transmitted	Recognized	Remarks
Basic Default Channel Changed		1 1-16 *3	1 1-16 *2	
Default Mode Messages Alterd		Mode 3 × *******	Mode 3	
Note Number	True Voice	22 - 108 ******	0 - 127 0 - 127	
Velocity	Note ON Note OFF	0	O ×	
After Touch	Key's Ch's	× ×	× *1	
Pitch Bende	<b>∍</b> r	0	0	
Control Change	1 2 7 10 11 64 66 93 6、38 100、101	* 1  ×  * 1  * 1  * 1  * 1  * 1  * 1  *	*1 *1 *1 O *1 O O	Modulation Breath Volume Pan Expression Hold 1 Sostenuto Chorus depth Data entry MSB,LSB RPN MSB,LSB
Prog	121	*1 (0 - 127)	*1 (0 - 127)	Reset all controllers
Change	True #	*******	0 – 127	
System Exc	clusive 	0	0	
System Common	Song Pos Song Sel Tune	× × ×	× × ×	
System Real Time	Clock Commands	×	×	
Aux Messages	Local ON/OFF All Notes OFF Active Sense Reset	× × (123) ○ ×	○ ○ (123 - 127) ○ ×	
Notes				S.

Mode 1: OMNLON, POLY

Mode 2: OMNI ON, MONO Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO ○ : Yes × : No

### **SPECIFICATIONS**

Keyboard	76 keys
Maximum polyphony	30 voice polyphonic
Preset sounds	23 groups, 64 tones
Effects	Chorus, reverb
Connectors	Output (mono, stereo)
	Input (mono, stereo)
	Pedal (upper, lower)
	MIDI IN connector
	MIDI OUT connector
	MIDI THRU connector
Switches	Power switch, local ON/OFF switch
Speakers	16cm × 2
Output Coppession	10W × 2
Finish	Hairline finish
External dimensions	1158 (W) × 394 (D) × 108 (H) mm
	45-5/8 × 15-1/2 × 4-1/4 inch
Weight	Main unit 16 kg/35 lb 3 oz
Power consumption	35W (117V), 70W (220V/240V)
Included items	Music stand
	Power cable
Options	Special stand (KS-30, 9 kg)
	Pedal switch (DP-2, DP-6)
	Handypad (PAD-5)
	Expression Pedal (EV-5, EV-10)

^{*}Specifications and appearance are subject to change without notice.

### МЕМО

### Apparatus containing Lithium batteries

### ADVARSEL!

Lithiumbatteri. Eksplosionsfare. Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanual.

### ADVARSEL!

Lithiumbatteri. Fare for eksplotion. Må bare skiftes av kvalifisert tekniker som beskrevet i servicemanualen.

### **VARNING!**

Lithiumbatteri. Explosionsrisk. Får endast bytas av behörig servicetekniker. Se instruktioner i servicemanualen.

### **VAROITUS!**

Lithiumparisto, Rajahdysvaara. Pariston saa vaihtaa ainoastaan alan ammottimies.

For West Germany

### Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

Roland DIGITAL KEYBOAD KR-55

(Gerät. Typ. Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

Amtsbl. Vfg 1046/1984

(Amtsblattverlügung)

funk-entstort ist

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

### Roland Corporation Osaka/Japan

Name des Herstellers/Imponeurs

For the USA -

### RADIO AND TELEVISION INTERFERENCE

This equipment has been verified to compty with the limits for a Class 8 computing device, pursuant to Suppart J, of Part 15, of FCC rules. Operation with non-certified or non-verified equipment is tikely to result in interference to radio and TV reception

The equipment described in this manual generates and uses radio frequency energy. If it is not installed and used properly, that is, in strict accordance with our instructions If may cause interference with radio and television reception. This equipment has been tested and found to compay with the terris for a Class 6 compating device in accordance with the specifications in 5up; and 1 of PCC Rives. These radio are designed to provide reasonable protection again and only an analysis of the provided reasonable protection again and only an approximation of the provided reasonable protection again and only a territorial and only a secondary of the provided reasonable protection against the provided reasonable protection against the provided reasonable protection against the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and the provided reasonable protection and t

- can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by the following measure:

  Disconnect other devices and their input/output cables one at a time. If the interference stops, it is caused by either the other device or its I/O cable.

  These devices usually require Rolland designated shielded I/O cables. For Rolland devices, you can obtain the proper shielded cable from your dealer. For non Rolland devices contact the manufacturer or dealer for assistance.
- If your equipment direct clause interference to radio or receivation receipant, you can by to correct the interference to, using the review it make at the following measures. Turn the TV or radio antenna until the interference stops.
- . Move the equipment to one side or the other of the TV or radio
- Move the equipment is one subsection to the EV or radio
   Move the equipment affects away from the TV or radio
   Plug the equipment into an outlet that is on a different circuit than the TV or radio (That is, make certain the equipment and the radio or television set are on circuits con: trolled by different circuit breakers or fuses.)
- trofled by different outcut breakers or fuses.)

  Consider installing a rooftop felevision antienna with coaxial cable lead-in between the antenna and TV: It necessary, you should consult your dealer or an experienced radiotelevision technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission

  "How to identify and Resolve Radio TV Interference Problems"

  This booklet is available from the U.S. Government Printing Office. Washington, D.C., 20402, Stock No. 004-000-00345.4

For Canada:

### CLASS B

### NOTICE

This digital apparatus does not exceed the Class B limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications

### CLASSE B

### AVIS

Cet appareil numerique ne depasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixes dans le Reglement des signaux parasites par le ministere canadien des Communications

### **Roland**

KR-55 KR-55 KR-55 KR-55