Roland

MIDI KEYBOARD CONTROLLER

MKB-200

Owner's Manual
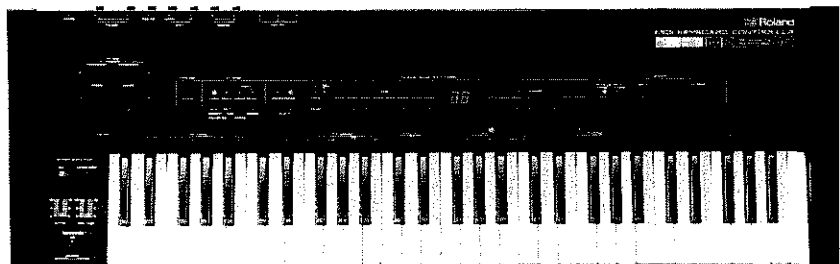
Radio and television interference

1 PANEL DESCRIPTION

<Rear Panel>

㉖ Damper Jack (L)
㉕ Shift Jack (UP)
㉔ Shift Jack (DOWN)
㉓ Modulation Jack
㉒ Volume Jack (L+U)
㉑ Volume Jack (L)
⑳ Power Switch

㉗ Damper Jack (L+U)
㉘ MIDI OUT Connectors

Roland

<Front Panel>

⑧ Number Buttons
⑨ Program Change Button
⑩ Patch Change Button
⑪ Write Button
⑫ Memory Cartridge Holder

⑤ Group Button
⑥ Bank Buttons
⑦ Display

④ U/L Selector Buttons
③ Key Mode Buttons
② Function Button
① Volume Knobs

⑬ Key Transpose Indicator
⑭ After Touch Indicator

⑮ Bender Lever

⑲ Upper Only Button
⑱ All Button
⑰ Depth Knob
⑯ Rise Time Knob

3

■ The MKB-200 is a keyboard controller which can drive MIDI equipped Sound Modules and instruments. It transmits various MIDI messages such as Dynamics and After Toutch as well as Note On/Off and Program Change. Some MIDI instruments can receive all the messages sent from the MKB-200, but some cannot, depending on the functions featured in each instrument. For the details, refer to the separate volume "MIDI" and the owner's manual of the relevant MIDI device.

IMPORTANT NOTES

Power Supply

● Be sure the line voltage in your country meets the one shown on the name plate on the rear panel of the MKB.

● Do not use the same socket that is used for any noise generating device, such as a motor, or variable lighting system.

● This unit might not work properly if turned on immediately after turned off, or if the power cable is plugged in with the unit turned on. If this happens, simply turn the unit off, and turn it on again a few seconds later.

● This unit might get hot while operating, but there is nothing to worry about .

● When setting up the MKB, be sure that all the units are turned off. Then switch the connected units on and finally the MKB.

Location

● Operating the MKB near a neon or fluorescent lamp may cause noise interference. If so, change the angle or position of the MKB.

● Avoid using the MKB in extreme heat or humidity or where it may be affected by dust.

Cleaning

● Use a soft cloth and clean only with a mild detergent.

● Do not use solvents such as paint thinner.

CONTENTS

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2 CONNECTION

* All of the three
  MIDI OUT's send
  exactly the same
  signals.

DP-6   DP-2
(Pedal Switch)

EV-5
(Expression Pedal)
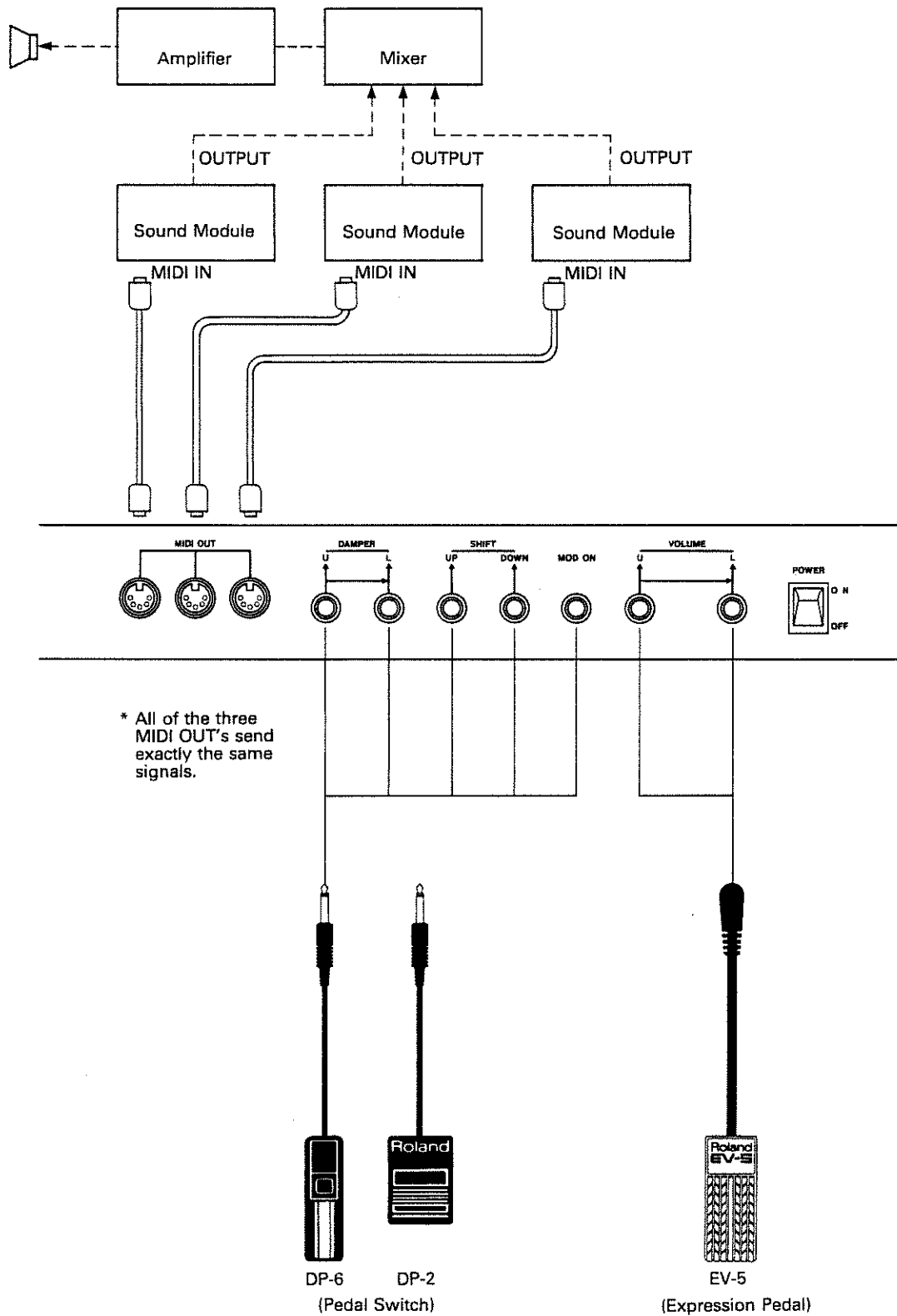
③ PERFORMANCE CONTROL FUNCTIONS

1. Outline

• The MKB can simultaneously use 2 MIDI Channels thereby control two Sound Modules at a time.	→	**MIDI Channel setting (P. 9)**
• Each of 2 MIDI channels can be assigned to the Key Mode you like (Whole U, Whole L, Split, Dual).	→	**Key Mode setting (P. 7)**
• The MKB can select any patch program in the connected Sound Modules.	→	**Program Change message (P. 10)**
• Mode messages (Poly or Mono, OMNI ON or OFF) can be set for each MIDI channel.	→	**Mode messages (P. 11)**
• There are 5 different level settings of Velocity Sensitivity available for the palyer to choose.	→	**Dynamics (P. 11)**
• After Touch messages can be transmitted.	→	**After Touch (P. 12)**
• Key Transposition is easily done.	→	**Key Transpose (P. 13)**
• The volume of the connected device can be changed.	→	**Volume Control (P. 16)**
• The MKB transmits Pitch Bender and Modulation messages.	→	**Controller (P. 14)**
• Some MIDI messages can be sent with the Foot Switch or Foot Volume.	→	**Remote Control (P. 15)**
• The MKB features Auto Tune function.	→	**Tune Request (P. 16)**
• The MKB-200 can store up to 128 different patch programs which are combinations of MIDI Channel, Program Change etc.	→	**Patch Change (P. 16)**
• Control Change and System Exclusive messages can be transmitted.	→	**Other Useful Functions (P. 18)**

2. Operation

a. Setting Key Mode

The MKB-200 can use two MIDI channels, therefore can play two sound modules simultaneously (Dual mode) or separately (Whole L, U). Also, the keyboard of the MKB-200 can be divided into two sections used separately for different channels (Split mode).

1) Dual Mode

In the Dual mode, exactly the same MIDI messages are simultaneously sent to the two MIDI channels assigned by the Upper and Lower sections of the keyboard. To turn to this mode, simply push the **DUAL** of the Key Mode Buttons **❸**.

```
 ☀    O    O    O
┌────┬────┬────┬────┐
│    │    │    │    │
└────┴────┴────┴────┘
DUAL SPLIT  L    U
```

```
                    ┌─OUT──────────────IN─────────────IN─┐
         ┌──────────┤            ┌─────────────┐  ┌─────────────┐
         │      1  2 │           │          1  │  │          2  │
         │ MKB  L  U │           │ Sound Module 1│ │ Sound Module 2│
         │ LOWER CH1 │           │ MIDI CH 1     │ │ MIDI CH 2     │
         │ UPPER CH2 │           │   (Operating) │ │   (Operating) │
```
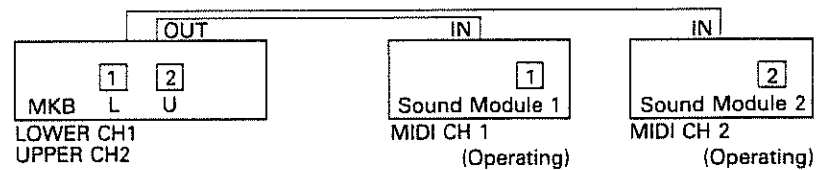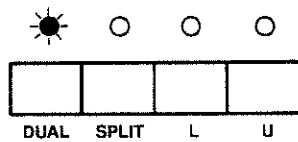
2) Split Mode

In the Split mode, MIDI messages are sent separately to the MIDI channels assigned by Upper and Lower sections of the keyboard. Where the keyboard is divided into the Upper and Lower sections is called "Split Point". The Upper section includes the key of the split point, but the Lower section does not. To turn to this mode, simply push the **SPLIT** of the Key Mode Buttons **❸**.

```
 O    ☀    O    O
┌────┬────┬────┬────┐
│    │    │    │    │
└────┴────┴────┴────┘
DUAL SPLIT  L    U
```

```
                    ┌─OUT──────────────IN─────────────IN─┐
         ┌──────────┤            ┌─────────────┐  ┌─────────────┐
         │      1  2 │           │          1  │  │          2  │
         │ MKB  L  U │           │ Sound Module 1│ │ Sound Module 2│
         │ LOWER CH1 │           │ MIDI CH 1     │ │ MIDI CH 2     │
         │ UPPER CH2 │           │   (Operating) │ │   (Operating) │
```

7
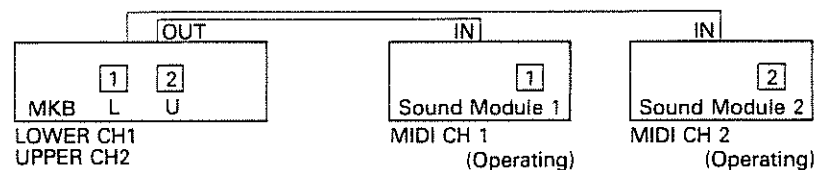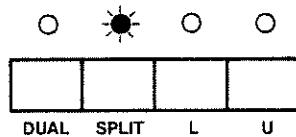
Changing the Split Point

① Hold the Split Button ❾ down.
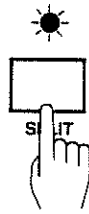
The Display Window shows the split point currently set.

```
5P  ───────▶  C4
 ↑              ↑
Split Point   Split Point is set to C4.
```

② Without releasing the Split Button, press the key for the new split point.

The Display shows the new split point.
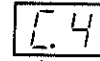
```
C.4
 ↑
```
Split Point is set to C♯.
"." represents #.

③ Release the Split Button.

---

3) Whole L Mode

In the Whole L mode, MIDI messages are sent only to the MIDI channel assigned by the Lower section. To turn to this mode, simply push the L of the Key Mode Buttons ❸.


```
O    O    ✳    O
┌────┬────┬────┬────┐
│    │    │    │    │
└────┴────┴────┴────┘
DUAL  SPLIT  L    U
```

```
        ┌OUT
┌───────────────┐
│   1   2       │
│ MKB  L   U    │
│ LOWER CH1     │
│ UPPER CH2     │
```

```
        IN
┌───────────────┐
│           1   │
│ Sound Module 1│
│ MIDI CH 1     │
│ (Operating)   │
```

```
        IN
┌───────────────┐
│           2   │
│ Sound Module 2│
│ MIDI CH 2     │
│ (Not operating)│
```

---
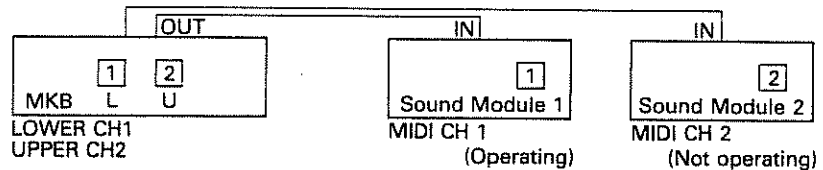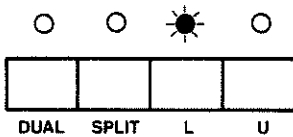
4) Whole U Mode

In the Whole U mode, MIDI messages are sent from the MKB only to the MIDI channel assigned by the Upper section. To turn to this mode, simply push the U of the Key Mode Buttons ❸.

```
O    O    O    ✳
┌────┬────┬────┬────┐
│    │    │    │    │
└────┴────┴────┴────┘
DUAL  SPLIT  L    U
```

```
        ┌OUT
┌───────────────┐
│   1   2       │
│ MKB  L   U    │
│ LOWER CH1     │
│ UPPER CH2     │
```

```
        IN
┌───────────────┐
│           1   │
│ Sound Module 1│
│ MIDI CH 1     │
│ (Not operating)│
```

```
        IN
┌───────────────┐
│           2   │
│ Sound Module 2│
│ MIDI CH 2     │
│ (Operating)   │
```
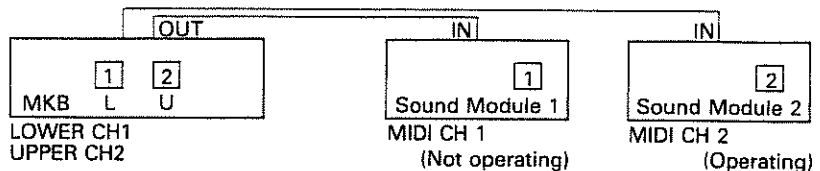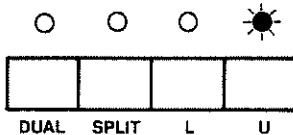
b. Setting MIDI Channel

To control the receive device (sound module) by the transmit device (MKB-200), it is necessary to set the MIDI channels of the both devices to the same number. The MKB-200 can have two different MIDI channels at a time, therefore can control two sound modules simultaneously. The following is how to set the MIDI channel number.

① Push the Program Change Button ❾.

PROGRAM
CHANGE

The indicator lights up.

② To set the MIDI channel of the Lower section, push the L of the U/L Selector Buttons ❹, and for setting the Upper channel, push the U button.

To select the Lower Channel Mode
○ ○ ● ○   ● ○

DUAL SPLIT L   U   L   U

To select the Upper Channel Mode
○ ○ ○ ●   ○ ●

DUAL SPLIT L   U   L   U

③ Hold the Function Button ❷ down.

The Display will show the current MIDI channel number.

Flashing

Current Program
Change Number

Current MIDI
Channel
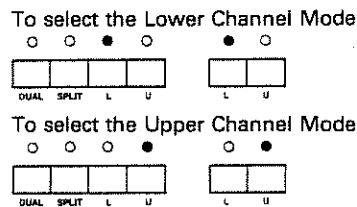
④ While still holding the Function Button ❷ down, press the appropriate key for the new MIDI channel. (See the picture shown on the bottom of this page to find the appropriate key.)

The Display will show the MIDI cahnnel number you have set.

⑤ Release the Function Button.

The Display now shows the Program Change number.

MIDI CHANNEL

2 4   7 9 11   14 16

1 3 5 6 8 10 12 13 15

c. Program Change

The MKB-200 sends Program Change messages which serve to change the tone colors of the connected sound modules. By using the Group Button ❺ and appropriate Bank Button ❻ and the Number Button ❽, any of the Program Change messages 1 to 128 can be transmitted.

PROGRAM CHANGE

OUT	IN
MKB	Sound Module

Tone Color Changes
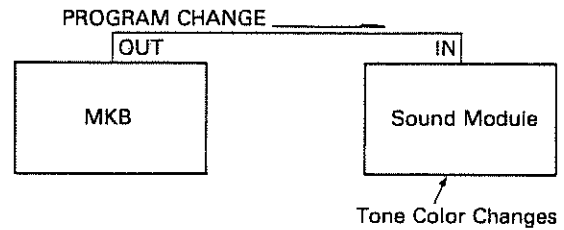
■ Program Change Number Table
● Group A

Bank \ No.	1	2	3	4	5	6	7	8
1	1	2	3	4	5	6	7	8
2	9	10	11	12	13	14	15	16
3	17	18	19	20	21	22	23	24
4	25	26	27	28	29	30	31	32
5	33	34	35	36	37	38	39	40
6	41	42	43	44	45	46	47	48
7	49	50	51	52	53	54	55	56
8	57	58	59	60	61	62	63	64

● Group B

| Bank \ No.	1	2	3	4	5	6	7	8
1	65	66	67	68	69	70	71	72
2	73	74	75	76	77	78	79	80
3	81	82	83	84	85	86	87	88
4	89	90	91	92	93	94	95	96
5	97	98	99	100	101	102	103	104
6	105	106	107	108	109	110	111	112
7	113	114	115	116	117	118	119	120
8	121	122	123	124	125	126	127	128

① Push the Program Change Button ❾.

② Push either of the U/L Selector Buttons ❹.

* To select the Lower Channel

○ ○

L   U
SELECT

* To select the Upper Channel

③ Push the Group Button ❺, Bank Button ❻ and the Number Button ❽ which correspond to the desired Program Change number. (See the Program Change Number Table.)

* When the Key Mode and the U/L Selector are set differently as shown below (U and L or L and U), you cannot recognize the Program Change sent to the sound modules.

Flashing

The Program Change number in the Display flashes.

* The Program Change number cannot be set simultaneously for the Upper and Lower channels.

d. Mode Messages

The MKB-200 can transmit the Mode messages (Poly or Mono, OMNI ON or OFF). Use the Function Button ❷ and the appropriate key on the keyboard. (See the picture shown below.)

| POLY ON | MONO ON | OMNI ON | OMNI OFF |
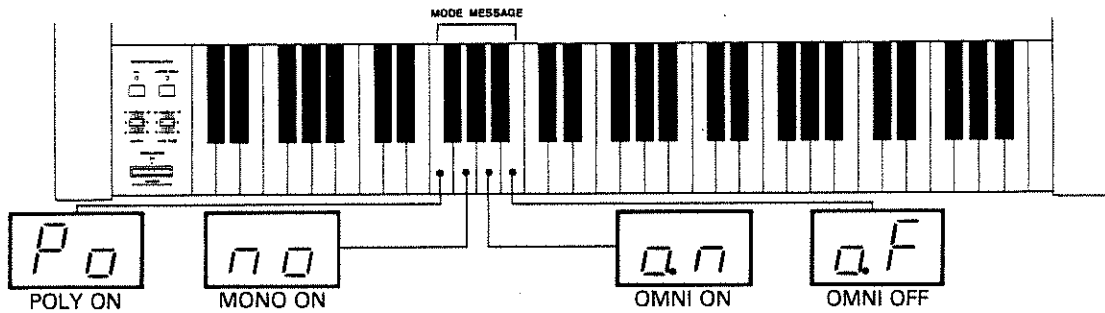
The following is how to send the Mode messages.

① While holding the Function Button ❷ down, push the key that corresponds to the desired Mode message.

② Now, release the Function Button.

The Display returns to the indication of the Bank and Number.

---

e. Dynamics

Five different levels for Dynamics are optional. Use the Function Button and the appropriate key on the keyboard for selecting the dynamics you like. (See the picture below to find out the appropriate key.)

The range of Dynamics is narrow. ←——————————→ The range of Dynamics is wide.
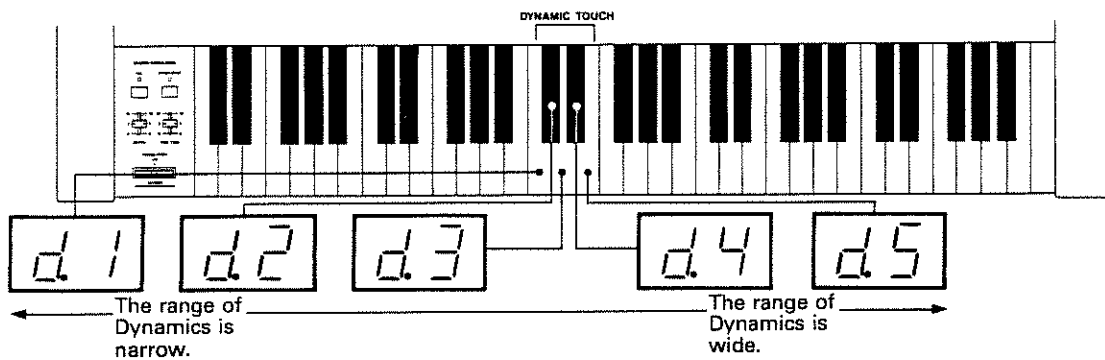
① While holding the Function Button ❷ down, press the key that corresponds to the level you like.

② Release the Function Button.

The Display now returns to the indication of the Bank and Number.

f. After Touch

The MKB-200 can transmit After Touch messages. Moreover, instead of the After Touch, the MKB-200 can send the Modulation messages by using the After Touch function. Use the Function Button ❷ and the appropriate key on the keyboard. (See the picture shown below.)

| After Touch OFF | After Touch ON (Modulation Message) | After Touch ON |
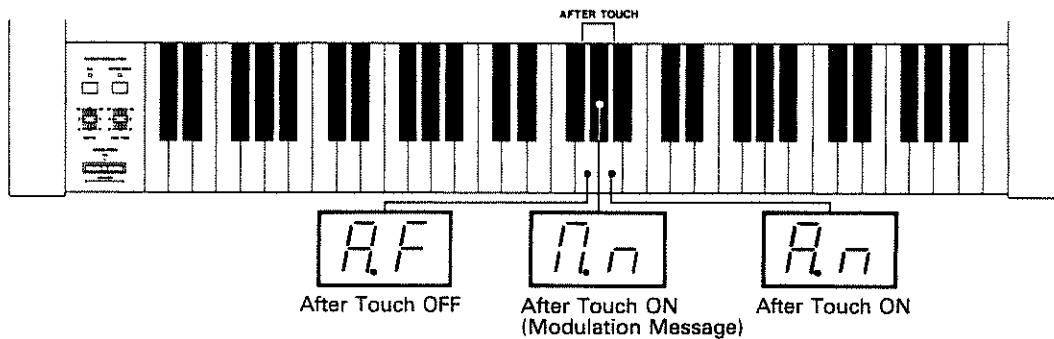
① While holding the Function Button ❷ down, press the key which corresponds to the desired function.

When After Touch function is ON

The Display reacts as shown below, and the After Touch Indicator ❿ lights up.

AFTER TOUCH

When Modulation is ON

The Display reacts as shown below, and the After Touch Indicator ❿ lights up.

AFTER TOUCH

When After Touch (Modulation) is OFF

The Display reacts as shown below, and the After Touch Indicator ❿ goes out.

AFTER TOUCH

Indicator goes out
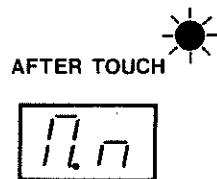
② Release the Function Button.

The Display returns to the indication of the Bank and Number.

g. Key Transpose

The MKB-200's Key Transpose function allows
you to transpose the entire keyboard in semi-tone
steps within ± one octave. Use the Function But-
ton ❷ and the relevant key on the keyboard. (See
the picture below.)

This represents "−".
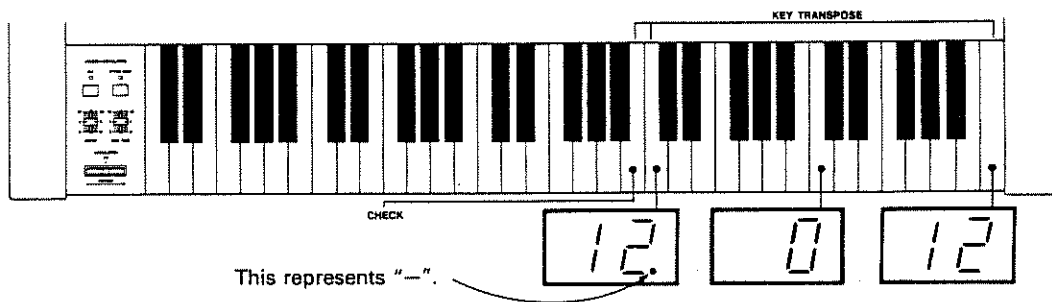
① While holding the Function Button ❷
down, press the key that corresponds to
the transpose value you want.

The Key Transpose Indicator lights up and the
Display shows the transpose value.

② Release the Transpose Button.

The Display now returns to the Bank and Number
indication.

● While in the Key Transpose mode (when the
Key Transpose Indicator is lighted), you can
always see the key of the current transposition
in the Display by taking the following operation.

① While holding the Function Button ❷
down, press the CHECK key. (See above
picture to find out the CHECK key.)

The Display shows the current transpose value.

② Release the Function Button.

The Display now returns to the Bank and Number
indication.

Dispaly	Transpose Value
12	+12
11	+11
10	+10
9	+ 9
8	+ 8
7	+ 7
6	+ 6
5	+ 5
4	+ 4
3	+ 3
2	+ 2
1	+ 1
0	0
1.	− 1
2.	− 2
3.	− 3
4.	− 4
5.	− 5
6.	− 6
7.	− 7
8.	− 8
9.	− 9
10.	−10
11.	−11
12.	−12

(A semi-tone transpostion)

* When the Key Mode is Split, the Key Transpose
function does not affect the Split Point set on
the keyboard.

h. Controller

The MKB-200 can transmit the Pitch Bender and/
or Modulation messages on two channels at a
time, or only to the channel assinged by the
Upper section.

⑱ All Button
⑲ Upper Only Button
⑰ Depth Knob
⑯ Rise Time Knob
⑮ Bender Lever
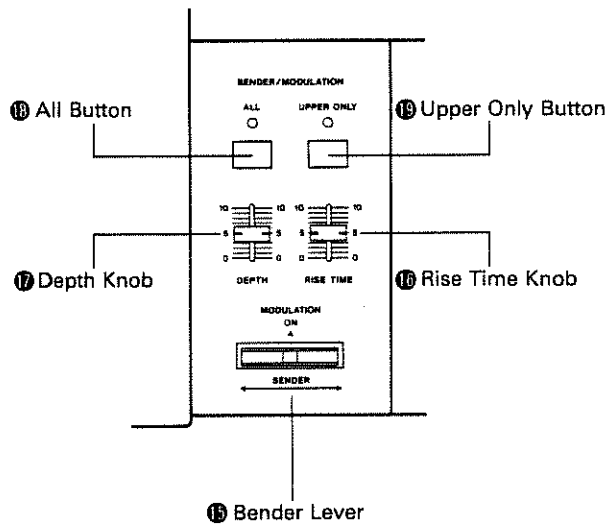
1) Bender Lever ⑮

Bend the Bender Lever to the left or right, and
Pitch Bender message is transmitted. Also,
pushing the lever forward, you can send Mod-
ulation message.

MODULATION

ON

▲

Push

BENDER

◄──────────►
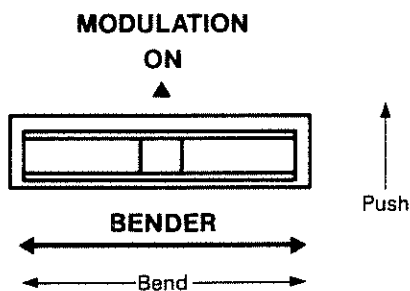
◄──── Bend ────►

2) Rise Time Knob ⑯

This knob sets the rise time of the modulation.
Longer rise time setting allows smoother
elevation.

3) Depth Knob ⑰

This knob controls the depth of modulation.

4) All Button ⑱

Press this button to send the Pitch Bender
and/or Modulation message to both channels
assigned by the Upper and Lower sections.

ALL

Both Modules take on the Pitch
Bender and the Modulation effects.
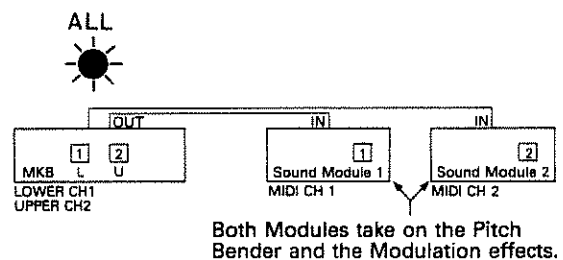
* At power up, the MKB defaults to All Button On.

5) Upper Only Button ⑲

Press this button to send the Pitch Bender
and/or Modulation message to only the chan-
nel assigned by the Upper section.

UPPER ONLY

Only the Module for Upper section
takes on the Pitch Bender and the
Modulation effects.
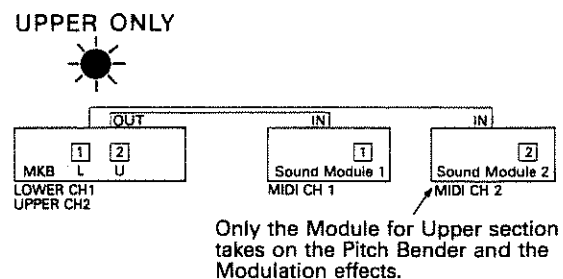
* **Adjust the sensitivity of Pitch Bender effect with
the relevant controls on the Sound Modules or
MIDI instruments connected to the MKB.**

i. Remote Control
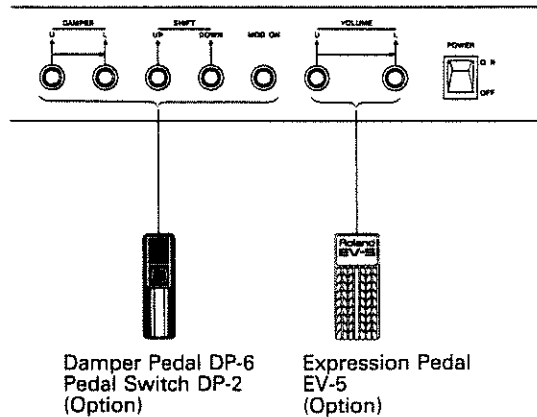
Damper Pedal DP-6
Pedal Switch DP-2
(Option)

Expression Pedal
EV-5
(Option)

1) Volume Jack (L) ㉑

By connecting the Expression Pedal (EV-5) to this jack, the Volume messages can be transmitted on the channel assigned by the Lower section.

2) Volume Jack (L + U) ㉒

By connecting the Expression Pedal (EV-5) to this jack, the Volume messages can be sent on the both channels assinged by Lower and Upper sections.

* These Volume Jacks can work at a time, the pedal connected to the jack ㉑ transmits the Volume message to the Lower channel, the pedal connected to the jack ㉒ transmits to the Upper channel separately.
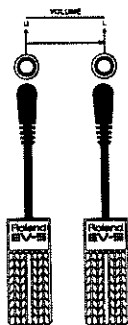
* When the Expression Pedal is connected to the Volume Jack, the Volume Knob on the MKB-200 does not work. That is, pedal operation has priority.

3) Modulation Jack ㉓

Connect a Pedal Switch to this jack, and Modulation message can be transmitted by pressing the pedal, without using the Bender Lever.

4) Shift Jack ㉔, ㉕

Connect the Pedal Switch DP-2 or DP-6 to the Shift Jack UP, or to the DOWN, or connect two Pedal Switches to the both jacks, and the patch numbers 1 to 8 can be sequencially called just by pressing the pedal(s). Pressing the pedal will advance or back up one number.

5) Damper Pedal Jack (L) ㉖

Connect a Pedal Switch to this jack, and Damper Pedal message can be sent on the channel assigned by the Lower section, by pressing the pedal.

6) Damper Pedal Jack (L + U) ㉗

Connect a Pedal Switch to this jack, and Damper Pedal message can be sent on both channels assigned by the Lower and Upper sections, by pressing the pedal.

* These jacks ㉖ and ㉗ can work at the same time, transmitting Damper Pedal message independently on each channel.

15

j. Volume Control

The MKB-200 can transmit the Main Volume messages. Use the Volume Knob ❶.

For Upper Channel

For Lower Channel
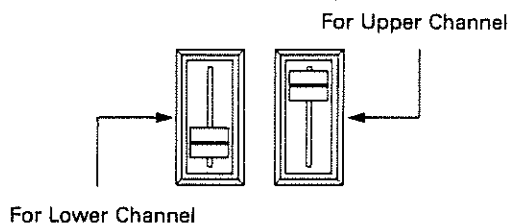
* The MKB-200's memory can retain the Main Volume messages. When, however, the Slide Volume is used for other function than the volume control (refer to "OTHER USEFUL FUNCTIONS"), the level set before the Slide Volume is turned to other function will be memorized, therefore cannot be changed any longer. So, it may be a good idea to write the setting of the Main Volume to the Memory Cartridge before changing the function of the Slide Volume.

k. Tune Request

Tune Request message from the MKB works only on the synthesizer featuring the Auto Tune function. To send the Tune Request message, set the memory Protect Switch to the ON position and press the Write Button.

(When the Memory Cartridge is not used, simply push the Write Button.)

4 PATCH CHANGE

1. Outline

By using the Memory Cartridge, the MKB-200 can retain up to 128 different patch change programs. Any of these programs can be easily called and even modified during live performance.

Each Patch Change Program consists of:

1. Main Volume (for L and U)
2. Key Mode (DUAL, SPLIT, WHOLE U, L)
3. Split Point
4. Program Change (for L and U)
5. MIDI Channel (for L and U)
6. Dynamics
7. After Touch (On/Off)
8. Key Transpose

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* Please note that the MKB-200 has no memory capacity for patch change programs without the supplied Memory Cartridge (M-16C) connected.

CARTRIDGE
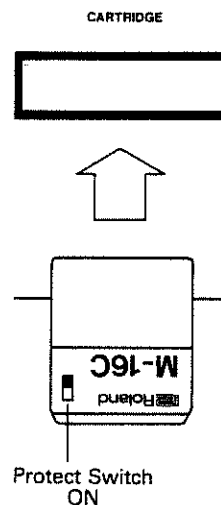
Protect Switch
ON

* Please be sure to set the Protect Switch to the ON position except for rewriting the patch programs.

16

2. Operation

a. Writing onto the Cartridge

① Push the Program Change Button ❾.

The indicator lights up.

② Set each of the functions 1 to 8 (shown on page 16) as you like.

③ Push the Patch Change Button ❿.

The indicator lights up.

PATCH
CHANGE
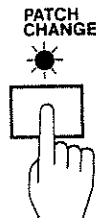
④ Set the Protect Switch on the Memory Cartridge to the OFF position.

⑤ Push the Write Button ⓫.

The indicator lights~up.

* If you wish to leave the writing mode here, simply push the Write Button again, or return the Protect Switch to the ON position.

⑥ By using the Group Button ❺, the Bank Button ❻ and the Number Button ❽, select the patch change program you wish to write.

The Indicator of the Write Button goes out.

* Unless the Nubmer Button is pushed, writing is not done. That is, even if the Number of the patch change program you want is the same as before, you cannot skip pressing the Number Button. This, however, does not apply to the Group or Bank Buttons.

⑦ Return the Protect Switch on the Memory Cartridge to the ON position.

b. Selecting a Patch Change

① Push the Patch Change Button ❿.

The indicator lights up.

② By using the Group Button ❺, the Bank Button ❻ and the Number Button ❽, call the patch change program you wish to use.

* If the MKB-200 is switched on with the Cartridge connected, the patch change program of Group A, Bank 1 and Number 1 will be automatically called.

c. Edit

You can call any patch change program from the Memory cartridge then change the setting of the functions 1 to 8. When any alteration is made, the Display shows a dot.

Bank ———————┐   ┌——————— Number

A dot lights up
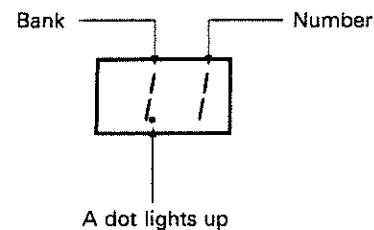
* The editing operation does not automatically rewrite the existing patch change program unless an appropriate writing procedure is taken.

* To recall the original patch change program, simply push the Patch Change Button ❿ then the appropriate Number Button. (When the Patch Change Button has been already on, just push the Number Button.)

5 OTHER USEFUL FUNCTIONS

The MKB-200 can also transmit the MIDI Control Change messages and the System Exclusive messages (for MKS-7 and JUNO-106).

1. Control Change

MIDI Control Change messages from 0 to 121 can be transmitted. By using the Function Button ❷, Group Button ❺, Bank Button ❻ and Number Button❽, select one of the messages. The value of each function can be changed by using the Volume Knob ❶.

① Hold the Function Button down.

The Display shows the current MIDI channel number.

② Push the Group Button ❺, and the appropriate Bank Button ❻ then the Number Button ❽. (See the Control Change Number Table.)

* Any of the above three buttons ❺, ❻ or ❽ can be pushed first.

③ Release the Function Button.

The Display returns to the indication of the Bank and the Number (Program Change or Patch Change).

* To turn to the Main Volume mode, push the Group A, Bank 1 and Number 8 (Control Change 7) Buttons.

■ Control Change Number Table

● Group A

Bank \ No.	1	2	3	4	5	6	7	8
1	0	1	2	3	4	5	6	7
2	8	9	10	11	12	13	14	15
3	16	17	18	19	20	21	22	23
4	24	25	26	27	28	29	30	31
5	32	33	34	35	36	37	38	39
6	40	41	42	43	44	45	46	47
7	48	49	50	51	52	53	54	55
8	56	57	58	59	60	61	62	63

● Group B

Bank \ No.	1	2	3	4	5	6	7	8
1	64	65	66	67	68	69	70	71
2	72	73	74	75	76	77	78	79
3	80	81	82	83	84	85	86	87
4	88	89	90	91	92	93	94	95
5	96	97	98	99	100	101	102	103
6	104	105	106	107	108	109	110	111
7	112	113	114	115	116	117	118	119
8	120	121						

2. System Exclusive

The MKB-200 can transmit 16 kinds of System Exclusive messages (for MKS-7 and Juno-106), which are the functions to edit the tone color. Use the Function Button ❷, Bank Button ❻ and the Number Button ❽ to assign the function and change its value by using the Volume Knob. the following is the necessary operation.

① While holding the Function Button ❷ down, turn the MKB-200 on.

POWER
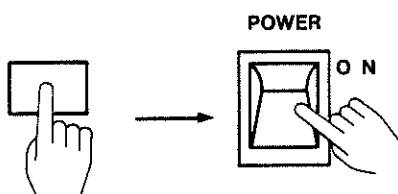
The Display shows the current MIDI channel number.

② While still holding the Function Button down, assign the function you want by pushing the relevant Bank Button ❻ or the Number Button ❽. (Refer to the table shown right. For example, pushing the Bank Button 1 will select the LFO Rate function.)

The Display shows the function you have selected.

③ Release the Function Button.

④ Move the Volume Knob to change the value of the selected function.

* **To return to the usual Volume mode, push the Group Button ❺ while holding the Function Button ❷ down.**

The Display will respond with:

* **The Exclusive messages sent to the Lower channel and the Upper channel are exactly the same. It is not possible to send different messages separately.**

		Display	Description	Parameter Number
Bank Buttons	1	$L\ r$	LFO Rate	0
	2	$L\ d$	LFO Delay Time	1
	3	$d\ L$	DCO LFO Depth	2
	4	$d\ P$	DCO PWM	3
	5	$d\ A$	Dynamics Affection (MKS-7) Noise Level (JUNO-106)	4
	6	$F\ c$	VCF Cutoff Frequency	5
	7	$F\ r$	VCF Resonance	6
	8	$F\ E$	VCF ENV Depth	7
Number Buttons	1	$F\ L$	VCF LFO Depth	8
	2	$F\ b$	VCF Keyboard Follower	9
	3	$A\ L$	VCA Level	10
	4	$E\ A$	ENV Attack Time	11
	5	$E\ d$	ENV Decay Time	12
	6	$E\ 5$	ENV Sustain Level	13
	7	$E\ r$	ENV Release Time	14
	8	$5\ L$	Sub Oscillator Level	15

* For the details, refer to the MIDI Implimentation chart of the MKS-7 or JUNO-106.

■ Patch Change Memoe

No.	Main Volume		Key Mode	Split Point	Program Change		MIDI Channel		Dynamics	After Touch	Key Transpose
	LOWER	UPPER			LOWER	UPPER	LOWER	UPPER			

MODEL MKB-200 MIDI Implementation Chart

	Function··········	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 – 16 1 – 16	× ×	memorized
Mode	Default Messages Altered	3 OMNI, POLY, MONO **************	× ×	
Note Number	True voice	24 - 108 **************	× ×	
Velocity	Note ON Note OFF	○ 9n v = 1–127 × 9n v = 0	× ×	
After Touch	Key's Ch's	× ○	× ×	
Pitch Bender		○	×	9 bit reso
Control Change	1 7 64 0 - 63 64 - 121	○ ○ ○ ○ ○	× × × × ×	modulation volume damper pedal * **
Prog Change	True #	○ 0–127 **************	× ×	
System Exclusive		○	×	***
System Common	Song Pos Song Sel Tune	× × ○	× × ×	
System Real Time	Clock Commands	× ×	× ×	
Aux Mes- sages	Local ON/OFF All Notes OFF Active Sense Reset	× ○ ○ ×	× × × ×	
Notes		* assignable control change number (v=0-127) ** assignable control change number (v=0, 127) *** MSK-7 parameter change		

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO ○ : Yes
Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO × : No

MODEL **MKB-200 MIDI Implementation**

1. TRANSMITTED DATA

Status	Second	Third	Description	
1001 nnnn	0kkk kkkk	0000 0000	Note OFF	
1001 nnnn	0kkk kkkk	0vvv vvvv	Note ON	*1
			vvvvvvv = 1 thru 127	
1011 nnnn	0000 0001	0vvv vvvv	Modulation	
			vvvvvvv = 0 thru 127	
1011 nnnn	0100 0000	0000 0000	Hold OFF	
1011 nnnn	0100 0000	0111 1111	Hold ON	
1011 nnnn	0ccc cccc	0vvv vvvv	Control Change	*2
1100 nnnn	0ppp pppp		Program Change	*3
1101 nnnn	0vvv vvvv		Channel Pressure	
1110 nnnn	0bbb bbbb	0mmm mmmm	Pitch Bender	*4
1011 nnnn	0111 1011	0000 0000	ALL NOTES OFF	*5
1011 nnnn	0111 1100	0000 0000	OMNI OFF	
1011 nnnn	0111 1101	0000 0000	OMNI ON	
1011 nnnn	0111 1110	0000 0001	MONO ON	
1011 nnnn	0111 1111	0000 0000	POLY ON	
1111 0000			Exclusive	*6
1111 0111			End Of Exclusive	
1111 0110			Tune Request	*7
1111 1110			Active Sensing	*8

notes : *1 kkkkkkk = 24 thru 108.
   If TRANSPOSE is at "0", kkkkkkk = 36 thru 96.

  *2 ccccccc = 0 thru 63 are continuous controllers.
    vvvvvvv = 0(minimum) to 127(maximum)
   ccccccc = 64 thru 121 are switches.
    vvvvvvv = 0(off) or 127(on)

  *3 ppppppp = 0 thru 127

  *4 0bbbbbbb, 0mmmmmmm = LSB, MSB of value.

  *5 When all notes are turned OFF on the MKB-200's keyboard,
   ALL NOTES OFF message is sent.

  *6 Refer to section 2 TRANSMITTED EXCLUSIVE MESSAGE.

  *7 When the "WRITE" button is pressed at "PROGRAM CHANGE" mode
   or in "PROTECT ON" of memory cartridge at "PATCH CHANGE" mode.

  ** When the power is first applied, following messages are
   transmitted.
    a. OMNI OFF message for all channel.
    b. Cartridge data (Program Change and Volume data),
     if Memory Cartridge is set.
    c. Program Change(C0 00, C1 00) and Volume data (B0 07
     VV, B1 07 WW), if Memory Cartridge is not set.

  ** When the "KEY MODE" is changed, following messages are
   transmitted.
    a. Notes OFFs for keys that are held down.
    b. Damper OFF for previous channel and damper ON for
     new channel, if damper pedal is tread.
    c. Modulation 00 if its value is not 00, and the value
     is sent for new channel.
    d. Pitch Bender Center if its value is not center, and
     the value is sent for new channel.
    e. Channel pressure 00 if its value is not 00, and
     the value is sent for new channel.

  ** When the "Patch Number" is changed, following message are
   transmitted.

    a. OMNI OFF message for all channel.
    b. Program Change (only in the active channel)
    c. Volume data (only in the active channel)
    e. Notes OFFs for keys that are held down.
    f. Damper OFF for previous channel and damper ON for
     new channel, if damper pedal is tread.
    g. Modulation 00 if its value is not 00, and the value
     is sent for new channel.
    h. Pitch Bender Center if its value is not center, and
     the value is sent for new channel.
    i. Channel pressure 00 if its value is not 00, and
     the value is sent for new channel.

2. TRANSMITTED EXCLUSIVE MESSAGE

This function is available when the power switch is
turned ON while holding "FUNC" button down.

The messages will be recognized by MKS-7, JUNO-106,
JUNO-106S and HS-60 for tone parameter change.

For function, refer to MIDI Implementation of the above
instruments.

	Byte	Description	
a	1111 0000	Exclusive status	
b	0100 0001	Roland ID #	
c	0011 0010	Operation code = Tone parameter change	
d	0000 nnnn	Unit # = MIDI basic channel. nnnn = 0 thru 15	
		where nnnn + 1 = channel #	
e	0000 yyyy	Parameter number	*1
		yyyy = 0 thru 15	
f	0zzz zzzz	Value	*2
		zzzzzzz = 0 thru 127	
g	1111 0111	End of Exclusive	

  *** Example ***
   a b c d e f g
   F0 41 32 00 03 40 F7

*1 yyyy is set when the "BANK" or "NUMBER" button is pressed
while holding the "FUNC" button down.

*2 When "VOLUME" knob is slid, the value (0zzz zzzz) is set and
the message is sent.

6 SPECIFICATIONS

MKB-200: MIDI Keyboard Controller

Keyboard: 61 keys (with After Touch)

[Buttons and Switches]
Function Button
Key Mode Buttons
  (WHOLE U, WHOLE L, SPLIT, DUAL)
U/L Selector Buttons (U, L)
Group Button (A/B)
Bank Buttons (1 to 8)
Number Buttons (1 to 8)
Program Change Button
Patch Change Button
Write Button
All Button
Upper Only Button

[Controls]
Volume Knobs (UPPER, LOWER)
Bender Lever
Depth Knob
Rise Time Knob

Display Window (7 segment LED, 2 figures)

Memory Cartridge Holder

[Rear Panel]
Volume Jacks (L+U, L)
Damper Jacks (L+U, L)
Shift Jacks (UP, DOWN)
Modulation Jack
MIDI OUT Connectors (×3)
Power Switch

Dimensions: 990(W) × 320(D) × 120(H) mm
             39"(W) × 12-5/8"(D) × 4-3/4"(H)

Weight: 10kg/22 lb 1 oz

Consumptions: Shown on its name plate

Accessories: Memory Cartridge
              Power Cable

[OPTIONS]
Expression Pedal EV-5
Pedal Switch DP-2
Damper Pedal DP-6
Stand KS-5
Hard Case AB-2
Memory Cartridge M-16C
MIDI/SYNC Cable MSC-07, 15, 25, 50, 100

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