

## OWNER'S MANUAL





## Precautions

#### Location

Using the unit in the following locations can result in a malfunction.

- In direct sunlight
- · Locations of extreme temperature or humidity
- · Excessively dusty or dirty locations
- Locations of excessive vibration
- Close to magnetic fields

#### Power supply

Please connect the designated AC adapter to an AC outlet of the correct voltage. Do not connect it to an AC outlet of voltage other than that for which your unit is intended.

Interference with other electrical devices

Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

#### Handling

To avoid breakage, do not apply excessive force to the switches or controls.

#### Care

If the exterior becomes dirty, wipe it with a clean, dry cloth. Do not use liquid cleaners such as benzene or thinner, or cleaning compounds or flammable polishes.

#### Keep this manual

After reading this manual, please keep it for later reference.

## Keeping foreign matter out of your equipment

Never set any container with liquid in it near this equipment. If liquid gets into the equipment, it could cause a breakdown, fire, or electrical shock.

Be careful not to let metal objects get into the equipment. If something does slip into the equipment, unplug the AC adapter from the wall outlet. Then contact your nearest Korg dealer or the store where the equipment was purchased.

## THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

#### CE mark for European Harmonized Standards

CE mark which is attached to our company's products of AC mains operated apparatus until December 31, 1996 means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

And, CE mark which is attached after January 1, 1997 means it conforms to EMC Directive (89/336/EEC), CE mark Directive (93/68/EEC) and Low Voltage Directive (73/23/EEC).

Also, CE mark which is attached to our company's products of Battery operated apparatus means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

#### IMPORTANT NOTICE TO CONSUMERS

This product has been manufactured according to strict specifications and voltage requirements that are applicable in the country in which it is intended that this product should be used. If you have purchased this product via the internet, through mail order, and/or via a telephone sale, you must verify that this product is intended to be used in the country in which you reside.

WARNING: Use of this product in any country other than that for which it is intended could be dangerous and could invalidate the manufacturer's or distributor's warranty.

Please also retain your receipt as proof of purchase otherwise your product may be disqualified from the manufacturer's or distributor's warranty.

## Introduction

Thank you for purchasing the KP2 KAOSS PAD dynamic effect/controller. For trouble-free enjoyment of the KP2's fullest potential, please read this manual carefully and use the product correctly.

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### Parts of the KP2 and their functions

#### Top panel

- 1. [INPUT SELECT] switch
- 2. [PEAK] indicator
- 3. [INPUT VOLUME] knob
- 4. [FX DEPTH] knob
- 5. [PROGRAM/BPM] display
- 6. [PROGRAM/BPM] knob
- 7. [PROGRAM MEMORY 1-8] keys
- 8. [TAP/BPM] key
- 9. Touch pad
- 10. [PAD MOTION/MUTE] lever
- 11. [REC/STOP] key
- 12. [SAMPLE 1, 2] keys
- 13. [HOLD] key

#### 2 5 6 3 KORG KAOSS PAD 7 ő 888 4 8 000000000 9 03+03 + /ktisk 10-15 + MOD 20-25 + deLAY 30-35 + MVKK 10 12 P 11 50-65 • 80% FX 30-8% • 57%80 25-85 90-991 13

#### Front panel

- 1. [PHONES VOLUME] knob
- 2. [PHONES] output jack
- 3. [MIC TRIM] knob
- 4. [MIC] input jack



#### **Rear panel**

- 1. [GROUND] connector
- 2. [PHONO IN] jacks
- 3. [LINE IN] jacks
- 4. [LINE OUT] jacks
- 5. [CONNECTION] switch
- 6. [MIDI IN], [MIDI OUT] connectors
- 7. DC 12V jack
- 8. [POWER] switch



### Connections

#### **Basic connections**

Use these connections when you want to apply effects to the sound from a device connected to the KP2's input jacks, and output the processed sound from the Line Out jacks. The KP2 has three types of input jacks. Use the jacks that are appropriate for your situation.



#### Care of the touch pad

Never press the touch pad with excessive force, or place heavy objects on it. It may crack or break if handled roughly. Press the touch pad only with your finger, since rubbing or pressing the touch pad with a sharp object will scratch it. To clean the touch pad, wipe it lightly with a soft dry cloth. Do not use solvents such as thinner, since this may cause deformation.

#### **DJ** mixer connections

To use the KP2 as an external effect processor, connect the effect send jack of your DJ mixer etc. to the Line In jacks of the KP2, and connect the Line Out jacks of the KP2 to the effect return jacks of your mixer.

#### When using a connection via the effect send/return jacks

Set the KP2's Connection switch to **FX LOOP**. With this setting, the output signal from the KP2's Line Out jacks will consist only of the sound processed by the KP2, and will not include the original sound that is being input to the KP2.

If you want to use the KP2's FX/Depth knob to adjust the effect depth during use, set this switch to the **DIRECT** position.



#### **MIDI** connections

Use these connections when you want to connect MIDI devices to the KP2 and use it along with sequence data.



## Operation

#### 1. Turning on the power

(1) Connect the KP2 to your other equipment as shown in the diagram, and connect the AC adapter to an electrical outlet.

(2) Press the Power switch to turn it on. The Program/BPM display will light.

**To turn off the power,** press the Power switch once again to turn it off.

#### 2. Inputting audio

(1) Use the Input Select switch to select the input jacks of the connected device to which you want to apply an effect.



**MIC:** The effect will be applied to the mic input.

**PHONO:** The effect will be applied to the phono inputs.

**LINE:** The effect will be applied to the line inputs.

#### 3. Adjusting the volume

(1) Adjust the input level.

While outputting audio from the connected device, use the Input Volume knob to adjust the input level so that the peak indicator does not light red.

If you are using the mic jack, adjust the MIC Trim knob as appropriate for the sensitivity of the mic, so that the sound is not distorted.

(2) **If you are using headphones**, use the Phones Volume knob to adjust the level.

#### 4. Selecting a program

(1) The Program/BPM display will indicate the number of the currently selected program.

Use the Program/BPM knob to select a program (00–99).

(2) Use the FX/Depth knob to adjust the depth of the effect.

No effect will be applied if the knob is

turned to the far left, and the maximum effect will be applied if the knob is turned to the far right.

#### About the Program/BPM display

This display shows the number of the currently selected program, the specified BPM, and the point (position) at which you are touching the touch pad.

While you are operating the touch pad: The display will indicate the position at which you are touching the pad (1.1–9.9; 5.5 is the center).



Vertical position (1-9)
Horizontal position (1-9)

When selecting programs: The display will show the program number (00–99).

When setting the BPM: When you are pressing the Tap/BPM key to set the BPM, the display will indicate the BPM value. In Auto BPM mode, three dots will light. **MIDI Edit mode:** The display will show the MIDI channel or control number, etc.

#### 5. Operating the touch pad

(1) Control the sound by rubbing your finger across the touch pad or tapping it.

note Use the included protective sheet.

(2) If you turn on the Hold key while operating the touch pad, the KP2 will hold the effect sound as it was the moment before you took your finger away from the pad.

#### 6. The Mute function

If you move the Pad Motion/Mute lever to MUTE (toward yourself), the input signal, sample sound, or synth/drum sound will be silenced. When using delay or reverb, this lets you output only the effect sound (i.e., the delayed sound or reverberation).

#### transformer

By using the Pad Motion/Mute lever to rapidly switch MUTE on/off, you can create rhythms using a sustained input sound. This is a DJ technique known as "transformer."

#### 7. Pad motion

The KP2 lets you record your touch pad operations, and move the the Pad Motion/ Mute lever to the PAD MOTION position to play back these operations.

#### Recording

Recording will begin when you hold the the Pad Motion/Mute lever in the PAD MO-TION position and touch the touch pad.

Even when you take your finger away from the touch pad, this state will continue to be recorded as part of your operation. This means that you can also record operations that include tapping on the touch pad. Recording will end when you move thethe Pad Motion/Mute lever back to its original position. Recording will also end when you reach the maximum recording time (approximately 3.2 seconds).

#### Playback

If you have recorded a pad motion, move the the Pad Motion/Mute lever to the PAD MOTION position, and the recorded motion will play back. As long as you leave the the Pad Motion/Mute lever in the PAD MOTION position, the same motion will be played back repeatedly as long as you do not touch the touch pad.

If you touch the touch pad during playback, recording will begin. Recording will be reset if you change programs.

The Hold key on/off state is not recorded as part of the pad motion. Also, if you turn on the Hold key and play back a pad motion, the motion will be held at the point where you stopped playback.

#### 8. Specifying the BPM

If you specify the BPM, you will be able to apply effects in synchronization to the BPM when an effect program from the "BPM FX/ PTN" group is selected. For details on the effect parameter to which this effect will be applied, refer to the effect program list (@separate sheet).

#### What is BPM?

BPM (Beats Per Minute) is the tempo of the song expressed as the number of beats (quarter notes) that occur in one minute. A higher BPM value means a faster tempo.

#### To set the BPM

If you know the BPM, press the Tap/BPM key and use the Program/BPM knob to set the value. The normal display will reappear if ten seconds pass without any operation being performed.

#### Tap Tempo function

If you do not know the BPM, press the Tap/ BPM key twice or more in rhythm with the beat of the song. The beat will be detected, and the BPM will appear in the Program/ BPM display.

#### Auto BPM function

If you press and hold down the Tap/BPM key for an extended time, three dots will appear in the Program/BPM display, and the beat of the audio input will be detected automatically. (Auto BPM mode)

While the Program/BPM display is blinking, the BPM is being detected.

Press the Tap/BPM key once again to end automatic detection.

note You can set the BPM in a range of 80–160.

#### MIDI Sync function

The BPM of the KP2 can be specified by MIDI Timing Clock messages from an external MIDI device. Connect the [MIDI IN] connector of the KP2 to the [MIDI OUT] connector of the external MIDI device (such as a sequencer) that is transmitting the timing clock messages.

This function does not synchronize sequence data with the KP2's rhythm pattern programs. If you want to synchronize to sequence data, you will either have to insert a Touch Pad On message into the beginning of each measure of your sequence data, or touch the touch pad at the beginning of each KP2 phrase to start the pattern.

note If you want the KP2 to receive Timing Clock and Touch Pad On messages, go to MIDI Edit mode (*P.8*), and make "MIDI message transmission/reception settings" (*P.8*) so that these messages will be received.

Note: You can not use the Tap Tempo or Auto BPM functions while the KP2 is receiving Timing Clock from an external MIDI device

#### 9. Storing settings in the Program Memory key

The current state of the KAOSS PAD can be stored in one of the Program Memory 1–8 keys, so that it can be instantly recalled whenever you want.

#### Stored contents

Effect program

— On/off state of the Hold key and the held position (coordinates)

- FX/Depth knob setting

 For the "BPM FX/PTN" group, the specified BPM value

 For the "SAMPLE/PLAY" group, the Sample 1, 2 key used

**Effect** programs 60 and 90–99 do not store the state of the Hold key.

#### To store settings

(1) Press the Program Memory 1–8 key that you want to assign.

(2) Use the Program/BPM knob to select the effect program that you want to assign.

If you want to store the setting of the Hold key, select the program and then turn on the Hold key and touch the touch pad to specify the position. If you want to store other settings, make them at this time.

(3) Press and hold down the Program Memory 1–8 key you selected in step (1) for approximately two seconds, and the settings will be stored.

When the settings have been stored, the Program/BPM display will stop blinking.

#### To recall settings

(1) Press a Program Memory 1–8 key, and the settings stored in that key will be recalled.

## 10. Sampling and playing back a phrase

A phrase from the audio input can be recorded into one of the Sample 1, 2 keys. Then when you have selected a program from the "SAMPLE/PLAY" group (programs 90–99), you can play back the sample while using the touch pad to control the playback speed or reverse-playback. If you have selected a program from other than the "SAMPLE/PLAY" group, pressing the Sample 1, 2 keys will play back the phrase that was recorded in that key.

You can record for approximately six seconds in each of the two keys.

The recorded phrases will be lost when the power is turned off. It is not possible to save the recorded phrases.

#### Recording

 Press the Rec/Stop key, and the Rec/ Stop key LED will blink to indicate that you are in record-ready mode.

(2) Press the Sample 1, 2 key into which you want to record. At this time, you will not hear the playback sound.

(3) When you press the Rec/Stop key, the Rec/Stop key LED will light, and recording will begin. Recording will stop when you press the Rec/Stop key once again.

**Recording will stop automatically when** you reach the maximum recording time.

TO For programs of other than the "SAMPLE/ PLAY" group, you can operate the touch pad while you record, and the sound processed by the effect will be recorded.

#### Auto recording (AUTO REC)

You can cause recording to begin automatically when audio is input. This is convenient when recording voice from a mic.

(1) In step (2) of the Recording procedure, hold down the Sample 1, 2 key to which you want to record, and press the Rec/Stop key. The Rec/Stop key and Sample 1, 2 key LEDs will blink simultaneously, indicating that you are in record-ready mode.

(2) Recording will begin automatically

when audio is input. Recording will stop when you press the Rec/Stop key once again.

#### Playback

The playback method will differ depending on the effect program that you have selected.

#### For a program from the "SAMPLE/ PLAY" group

(1) Select a program from the "SAMPLE/ PLAY" group (90–99).

(2) Press the Sample 1, 2 key that you want to play. The playback will not yet be output at this time.

(3) When you touch the touch pad, the sound will play back according to the position that you touch.

The way in which the phrase plays will depend on the program. (@separate sheet: Effect program list)

(4) Use the FX Depth knob to adjust the playback volume.

When the FX Depth knob is positioned in the center, the playback sound and the input sound will be output in a 1:1 proportion. When the knob is at the maximum position, only the sample sound will be output during playback, and you will not hear the input sound.

## For a program from other than the "SAMPLE/PLAY" group

(1) Select a program from other than the "SAMPLE/PLAY" group.

(2) Press a Sample 1, 2 key, and the recorded phrase will play at normal speed. If you continue pressing the key, the phrase will play back as a loop.

To adjust the volume, continue pressing the Sample 1, 2 key and use the FX Depth knob to make adjustments.

rease You can apply effects to the playback by operating the touch pad while the sound plays back.

In the second se

## **MIDI** functions

#### What is MIDI?

MIDI stands for Musical Instrument Digital Interface, and is a world-wide standard for exchanging a variety of performance-related information between electronic musical instruments and computers.

#### **MIDI** connections

Commercially available MIDI cables are used to transmit and receive MIDI messages. Connect these cables between the MIDI connectors of the KP2 and the MIDI connectors of the external MIDI device with which you want to transfer data.

MIDI IN connector: This connector receives MIDI messages from another MIDI device. Connect it to the MIDI OUT connector of the external device.

**MIDI OUT connector:** This connector transmits messages from the KP2. Connect it to the MIDI IN connector of the external device.

#### Using MIDI

In addition to using the KP2 as an effect processor, you can transmit MIDI messages from the KP2 to use it as a realtime controller for a synthesizer or other external MIDI device.

You can also connect the KP2 to a MIDI sequencer, and record the MIDI messages that are transmitted when you operate the touch pad. By playing back the recorded MIDI messages you can reproduce your touch pad operations.

#### About MIDI channels

In order to independently transmit information to multiple MIDI devices over a single MIDI cable, MIDI uses sixteen channels (1– 16). If the transmitting device is set to MIDI channel "1," the MIDI messages will not be received unless the receiving device is also set to MIDI channel "1."

#### About the MIDI implementation chart

The owner's manual of each MIDI device includes a "MIDI implementation chart." This chart lets you check the types of MIDI message that can be transmitted or received. When you use two (or more) MIDI devices together, compare their MIDI implementation charts to see which types of MIDI message they are able to transmit and receive between themselves.

\* Details on the MIDI functionality are provided in the separate MIDI implementation. To obtain the MIDI implementation, please contact Korg distributor.

#### MIDI Edit mode

Hold down the Tap/BPM key and press the Rec/Stop key. After approximately one second, you will enter MIDI Edit mode, and the MIDI channel will be displayed blinking in the Program/BPM display.

#### Setting the MIDI channel

In MIDI Edit mode, the Program/BPM display will show the MIDI channel. At this time you can use the Program/BPM knob to change the MIDI channel.

#### MIDI message transmission/ reception settings

Transmission and reception of each type of MIDI message can be turned on/off by pressing one of the keys listed below. Transmission and reception are enabled when the corresponding LED is lit. Transmission and reception are disabled when the LED is dark.(@p.9: Messages that can be transmitted and received)

**Some** parameters can only be transmitted, and others can only be received.

#### Changing the control number

By holding down one of the Program Memory 3–8 keys and turning the Program/BPM knob, you can change the control number setting. Although it is possible to select a control number that is already in use, it is not possible to simultaneously turn on transmission and reception for MIDI messages of the same control number.

The MIDI messages transmitted and received by the KP2 can be changed in the range of CC#1– CC#31 and CC#64–CC#95.

#### To store the settings you modified

In MIDI Edit mode, press and hold the Rec/ Stop key for one second or longer, and the MIDI settings you modified will be stored. If you turn off the power without storing the modified settings, they will revert to their previous state.

#### To exit MIDI Edit mode

You will return to the normal state if you touch the touch pad or leave the KP2 for ten seconds without performing any operation.

#### Saving your settings

You can save the contents of program memory and the control number settings of MIDI edit mode by transmitting them as exclusive messages, and saving them on an external MIDI device.

For details on the exclusive messages that the KP2 can transmit and receive, refer to the separate MIDI implementation.

#### Messages that can be transmitted and received

Data operations transmitted	MIDI messages transmitted	ON/OFF key settings transmitted
Touch pad X-axis	Effect control 1 (CC#12) *1, *2	Program Memory 4
Touch pad Y-axis	Modulation depth 1 (CC#1) Y=5-9	Program Memory 1
	Modulation depth 2 (CC#2) Y=5-1	Program Memory 2
	Effect control 2 (CC#13) *1, *2	Program Memory 5
Touch pad X+Y-axis	Effect depth 3 (CC#93) *1	Program Memory 3
Touch pad on/off	Effect depth 2 (CC#92) *1, *2	Program Memory 6
FX DEPTH	Effect depth 4 (CC# 94) *1, *2	Program Memory 7
MUTE	Effect depth 5 (CC# 95) *1, *2	Program Memory 8
Program change	Program change (00–99) *2	Hold

With the factory settings, the following MIDI messages can be transmitted and received.

Data operations received	MIDI messages received	ON/OFF key settings received
Touch pad X-axis	Effect control 1 (CC#12) *1, *2	Program Memory 4
Touch pad Y-axis	Effect control 2 (CC#13) *1, *2	Program Memory 5
Touch pad on/off	Effect depth 2 (CC#92) *1, *2	Program Memory 6
FX DEPTH	Effect depth 4 (CC# 94) *1, *2	Program Memory 7
MUTE	Effect depth 5 (CC# 95) *1, *2	Program Memory 8
Program change	Program change (00–99) *2	Hold
BPM	Timing clock	Sample 1

\*1: The MIDI messages transmitted and received can be changed in a range of CC#1–CC#31, CC#64–CC#95, and PITCH BEND. () is the factory setting.

\*2: Ena/Dis and CC# settings are the same for both transmission and reception.

The control changes for touch pad Y-axis Y-5–9 and Y-5–1, and for touch pad X+Y axis can be transmitted but not received. For this reason when you record control changes into a sequencer, use MIDI Edit mode to turn PROGRAM MEMORY 1–3 off, so that unnecessary MIDI messages are not transmitted. Previously-specified control numbers cannot be specified again elsewhere.

#### **Specifications**

Number of programs: 100 Input: Mic input jack / monaural phone jack, Phono input jacks / RCA phono jacks, Line input jacks / RCA phono jacks Output: Line output jacks / RCA phono jacks, Headphone jack / stereo phone jack MIDI: IN, OUT Power supply: DC 12V, 700 mA Included items: AC adapter, touch pad protection sheet Weight: 1.1kg Dimensions: 204(W) X 207(D) X 48(H)mm

- Appearance and specifications are subject to change without notice for improvement.

## **MIDI** Implementation Chart

2002.4.1

F	unction	Transmi	tted Reco	gnized	Remark:
Basic	Default	1–16	1–16	Memorized	
Channel:	Changed	1–16	1–16		
Ma da	Default		3		
Mode	Messages Altered	*********	X X		
Note	Allered	×	X		
Number:	True Voice	×	×		
Velocity:	Note On	×	×		
	Note Off	×	×		
Aftertouch:	Key's	×	×		
	Channel	X	X		
Pitch Bend		0	0	As control source	*C
	1– 31, 64–95 121	⊖ ×	0	As control source Reset All Controllers	*C
Control					
Change					
Program		<b>○ 0–99</b>	<b>○ 0–99</b>		*P
Change:	Variable Range	****	0–99		-
System Excl	usive	$\bigcirc$	0		
Culatara	Song Position	×	×		
System Common:	Song Select	×	× ×		
Suctor	Tune Request Clock	×			*Т
System Real Time:	Commands	×	×		
ι	Local On/Off	×			
Aux	All Notes Off	×	×		
Messages:	Active Sensing System Reset	××			
*P	Transmitted/receiver and are enabled. Transmitted/receiver Received when timin	d when control nu d when program c	mbers or pitch be hanges are enabl		
	le 1: OMNI ON, POLY	Mode 2: OMN		-	: Yes
Cons	de 3: OMNI OFF, POLY sult your local Korg distribute llez vous adresser à votre rev	or for more information	on MIDI Implementatio	on.	: No

Veuillez vous adresser à votre revendeur Korg pour une copie de l'équipement MIDI. Weitere Informationen über die MIDI IMPLEMENTATION erhalten Sie bei Ihrem Korg-Vertrieb.

	KAOSS PAD
NES D' EFFETS	i



49	48	47	46	45	44	43	42			38	37	36	35	34	33	32		30 REVERR	00 87	2/	26	25	24	23	22		► 10 DELAY	10	17	16	15	14	13	12		10 MOD	09	80	07	06	07	PA C	03	02		_	No FEFECT GROUP
Aqua	High Speed Modulation	Ring + Del ay	Broken Modul at i on	Reverse + Pitch Shifter	Tremolo+Delay	Dual Pitch Shift	Ring Modulation + Filter	Stop Modulation	3D Pan	Filter + Reverb	Talk Mod + Reverb	Delay + Reverb	3 Band Gate Rever b	3 Band Hall Reverb	Gat e Rever b	RoomRever b	Spring Reverb	Hall Reverh	hiter + Deiay	Ial KMod + Del ay	Ping Pong Del ay	Special Echo	Multi Tap Del ay	Feedback Delay	Hi-Fi Delay	Del ay		LFO Wah Harmonic Ditch Shiftor	St ep Phaser	Slicer	Flanger + Filter	Pitch Shifter	Aut o Pan	Phaser	Vi br at o		Voice Filter	High Pass Filter + Distor	Radio	Manual Dhasar	Distortion 1 leol ator	Multi leolator	High/Low Pass Filter + Par	Fuzz Distortion	3 Band Isol at or	Low Pass Filter	
Speed	Frequency	Delay Time	Frequency	Pitch	Delay Time, Speed		Ring Frequency	Mod Dopth	L-R Pan	Cutoff Frequency	Vowel	Delay Time	Low-Mid-Hi	Low-Mid-Hi	Tone	Tone	Tone	Tone	Delay Time	Vowel	Delay Time	Delay Time	Tone	Delay Time	Delay Time	Delay Time	Delay Time	Speed Root-min3rd-Mai3rd-4th-5th	Mod Step	Speed	Speed	Pitch	Speed	Speed	Speed	Delav Time		- <b>N</b>			Low-Mid-Hi	low_Hi	<b>-</b> 1	Low-Mid	Low-Mid-Hi	Cutoff Frequency	X AXIS
FX Level	Phaser-Tremolo Balance	Ring-Delay Balance	Depth	Delay Time	Tremolo-Delay Balance	R Ch Pitch	Cutoff Frequency	EX Level	Reverb Level	Reverb Level	Over Drive	Reverb Level	Reverb Level	Reverb Time	Reverb Level	Reverb Level	Reverb Time	Reverb Level	Tone		Feedback	Delay Level	Feedback	Feedback, Input Attenuation	Feedback		Delay Level. Feedback	Beverb	Resonance	Depth	Cutoff Frequency	Reverb	Depth	Frequency		Resonance. Reverb	Overdrive	Distortion	Overdrive	Deconance	Distortion	Midleval	Cutoff Frequency	Hi Level		Resonance	
5	6	97	96	95	94	93	92	0 0			- -	<u>~</u>	85	84	83	82	<u>%</u>	8	70		16	75	74	73	72	7	2	80	67	66	65	64	63	62	61	60	59	58	7 4	лс	7,4	л	ភ្ជ	52	510	3	7
99	86	7	10	G	4	ω	92	90 SAMPLEPLAT		88	87	86	5 VOCODER	4	3	2				<u> </u>			<u></u>	<u></u>	2		SYNTH		1	10,	5	_	( BPM PATTERN )	2 BPM PTN				<u>~</u>	10	<u> </u>	<u>л</u>  4	<u>- r</u>	-				No FEFECT GROUP
		Z Loop + Pan				Scratch + Filter	For ward Reverse	SAMPLEFLAT					VOCODER					Saw OSC					Drop	Cosmi c			SYNTH	Hard Sync Synth			5 El ectro		(BPM PATTERN)	BPM PTN				BPM SI i c.e				_		Tempo Del av + Isol ator		BPM FX	
	For ward Reverse + Pan L		Scratch + BPM Delay	For ward Reverse + Del ay	Loop 2	Scratch + Filter	_		Root and 5t h	Aut o Tuning Pentatonic	Aut o Tuni ng 12	Low Pitch	VOCODER High Pitch	Pad Dr um2	Pad Dr um1	Voi ce OSC	Si ne OSC		Si ran	Horror	Spacy	El ectric Bird	Drop	Cosmic	Ambient	Sci-Fi	SYNTH Laser Sword		5th Dimension Synth	Octave Bass Synth	Electro	Tr i bal	(BPM PATTERN) Beat Box	BPM PTN House	BPM RhythmGate	BPM Looper	BPM Step Phaser		RDM FL apper		RDM Filter	Gate Bever h Tempo Del av	Feedback Tempo Del av	ator	3 Band Tempo Del av	BPM FX Termon Del av	

## About the effect programs

from the input jacks. operating the touch pad, even if no audio is being input With programs 62–84, you can produce sound simply by

## voice when using these programs. — **60.BPM LOOPER:** If the BPM is "59" or lower, 2BEAT general, we recommend that you use a mic to input a human changes a human voice into a robot-like character. In The VOCODER of programs 85–89 is an effect that

location will change to 1BEAT.

where you first pressed the touch pad will be maintained, and touch pad operations will not change the effect.

## A propos des programmes d'effets

2BEAT passera à 1BEAT. des données de voix humaine en utilisant ces programmes. transforme une voix humaine en une voix semblable à celle d'un robot. En général, nous conseillons d'utiliser un micro pour entrer donnée audio n'est transmise par les bornes d'entrée. simplement en touchant le panneau sensible, même si aucune - Les programmes 62 à 84 permettent de produire des sons — 60.BPM LOOPER: Si BPM est "59" ou inférieur, la position Le VOCODEUR des programmes 85 à 89 est un effet qui

sensible au toucher a d'abord été pressé sera maintenu, et les operations au panneau ne modifieront pas l'effet.

# Informationen zu den Effektprogrammen

Generell empfehlen wir, ein Mikrofon für die Eingabe einer menschliche Stimme in eine roboterartige Stimme verwandelt. anliegt, indem Sie einfach das Touch Pad bedienen. erzeugen, wenn kein Audiosignal an den Eingangsbuchsen - 60. BPM LOOPER: Wenn BPM "59" oder weniger ist, ändert Stimme zu verwenden, wenn Sie diese Programme benutzen. - Der VOCODER der Programme 85-89 ist ein Effekt, der die Bei den Programmen 62–84 können Sie Klänge auch dann

- 88. Auto Tuning Pentatonic: Die Wirkung an der Position, an sich 2BEAT zu 1BEAT.

der Effekt wird durch Betätigung des Touch Pad nicht geändert. der Sie zuerst das Touch Pad berührt haben, wird beibehalten, und