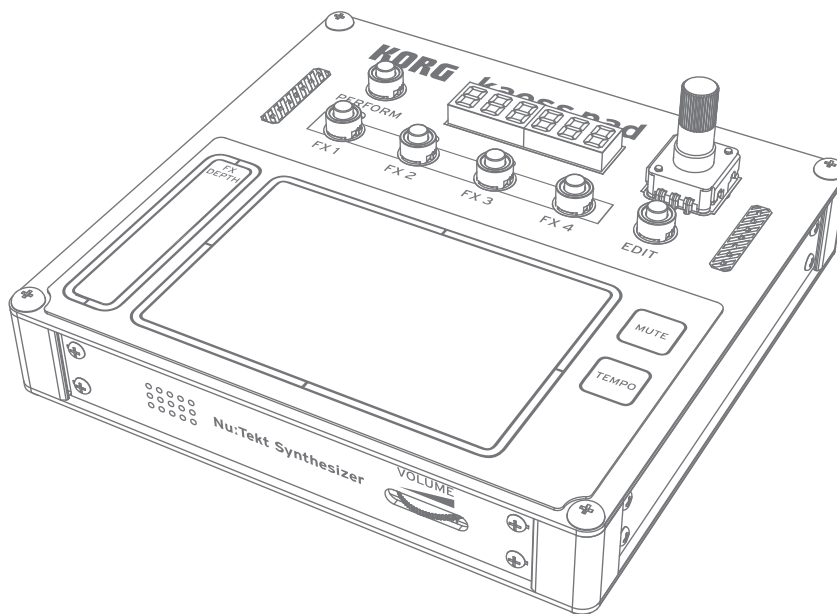


Nu:Tekt

NTS-3 kaoss pad kit

PROGRAMMABLE EFFECT KIT

Owner's Manual



*Before using the NTS-3 kaoss pad kit, please read the Assembly Instructions (PDF) carefully to ensure proper use.

Supplementary contents

- [PDF](#) Assembly Instructions
- [MOVIE](#) NTS-3 kaoss pad kit video manual
- [APP](#) NTS-3 software
- [HELP](#) logue SDK Custom Content Sound Librarian
- [Prod.](#) Product website

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Introduction

Thank you for purchasing the Nu:Tekt programmable effect kit, the NTS-3 kaoss pad kit.

The NTS-3 kaoss pad kit is a revolutionary effect unit that features a seamless integration of the XY pad touch interface that's symbolic of the KAOSS with characteristic KAOSS effects—a compact yet powerful and customizable DIY kit.

To take full advantage of this device's functionality and ensure years of trouble-free operation, please read this Owner's Manual carefully before use.

→ [Conventions in this manual](#)

→ [Main features](#)

Conventions in this manual

- The shape and displays shown by illustrations in this manual may differ in some ways from the actual product.
- The parameter values shown in the example screens of this manual are only for explanatory purposes, and may not necessarily match the values that appear in the display of your instrument.
- Symbols used in this manual:



Indicates an explanation you should heed to ensure that you can correctly utilize the capabilities or functionality of this unit.

Note

Indicates an explanation that requires your attention.

Tip

Indicates supplementary information that is useful to know.

“ ”

Parameters shown in the display are indicated in quotation marks.

Main features

- The NTS-3 kaoss pad kit is a compact DIY effect kit that's easy to assemble.
- This unit has four effect modules that give you simultaneous access to four different effects, which can be combined as you see fit and controlled with your fingertips.
- The outstanding freedom that this unit offers includes a wide range of effects that can be combined including filter, chorus, flanger, phaser, delay, reverb, looper, grain shifter and oscillator. Further, you can customize the effect routing as well as which parameters they control, all by touch.
- This product is compatible with the logue SDK, which lets you load effects designed by yourself or by a third party.

Connecting and getting ready to play

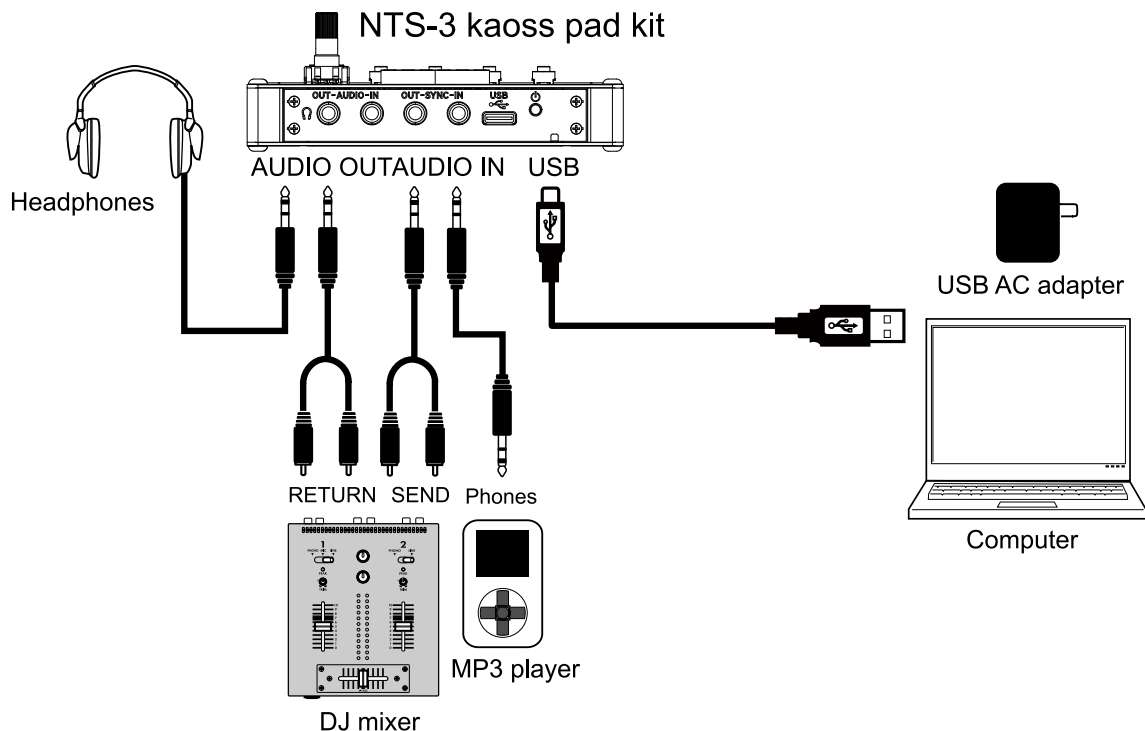
→ [Connecting and turning the power on/off](#)

→ [MIDI connectivity](#)

Connecting and turning the power on/off

- ⚠ Before connecting external devices to this instrument, make sure that all devices are turned off. If you connect these devices while they are still on, this may cause your powered monitor speakers or other external devices to malfunction, or cause damage.

Making connections and turning on the power



- 1 Refer to the connection diagram to connect your devices. Use the included USB cable to connect this unit to the USB port on your computer or to a commercially available USB 2.0 standards-compliant AC adapter (at least 5 V DC 550 mA).
- 2 Press the power button on the rear panel. The unit turns on and enters Play mode.

- ⚠ Make sure to use the included USB cable.
- ⚠ Use a cable that's no more than 3 m long when connecting your peripherals to this unit.
- ⚠ Make sure to use an AC adapter that's compliant with USB 2.0 standards. Note that some standards-compliant USB AC adapters might not operate correctly.

Turning off the power

- 1 Press the power button on the rear panel. This turns off the power.
- 2 Disconnect the USB cable from this unit.

| **Auto power-off function**

The NTS-3 kaoss pad kit has an auto power-off function that automatically turns the unit off after around three hours have elapsed without the knobs, buttons, touch pad or other controls being operated. The auto power-off function is enabled by factory default.

To disable the auto power-off function, set the Auto Power Off global parameter to "Off". → [Global parameters](#)

MIDI connectivity

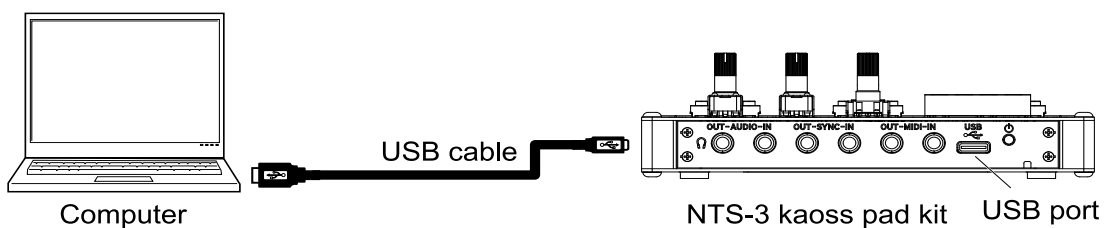
The NTS-3 kaoss pad kit uses the USB port to send and receive MIDI signals.

Connect the USB port of the NTS-3 kaoss pad kit to your computer to exchange data with KORG CONTROL EDITOR, as well as to transmit and receive MIDI data.

For details on MIDI data that can be transmitted and received, see the MIDI implementation chart.

→ [MIDI implementation chart](#)

Using MIDI data via the USB port



- 1 Connect the USB Type-C port on the NTS-3 kaoss pad kit to the USB A port on your computer with the included USB cable.

KORG USB-MIDI driver

The USB-MIDI driver that's pre-installed on Windows does not allow the NTS-3 kaoss pad kit to be accessed from multiple applications at the same time. If you want to use the NTS-3 kaoss pad kit with multiple applications simultaneously, you must install the Korg USB-MIDI driver.

Even if you are not using this unit with multiple applications, we recommend installing the KORG USB-MIDI driver, as it may offer improved operating stability.

Download the driver from the Korg website, and install the driver by following the accompanying documentation.

Note: See the Korg website for the latest information on OS support.
<https://www.korg.com/support/os/>

Note: When you first connect the NTS-3 kaoss pad kit to your computer, the USB-MIDI driver included with the operating system is installed automatically.

Configuring the MIDI settings on the NTS-3 kaoss pad kit

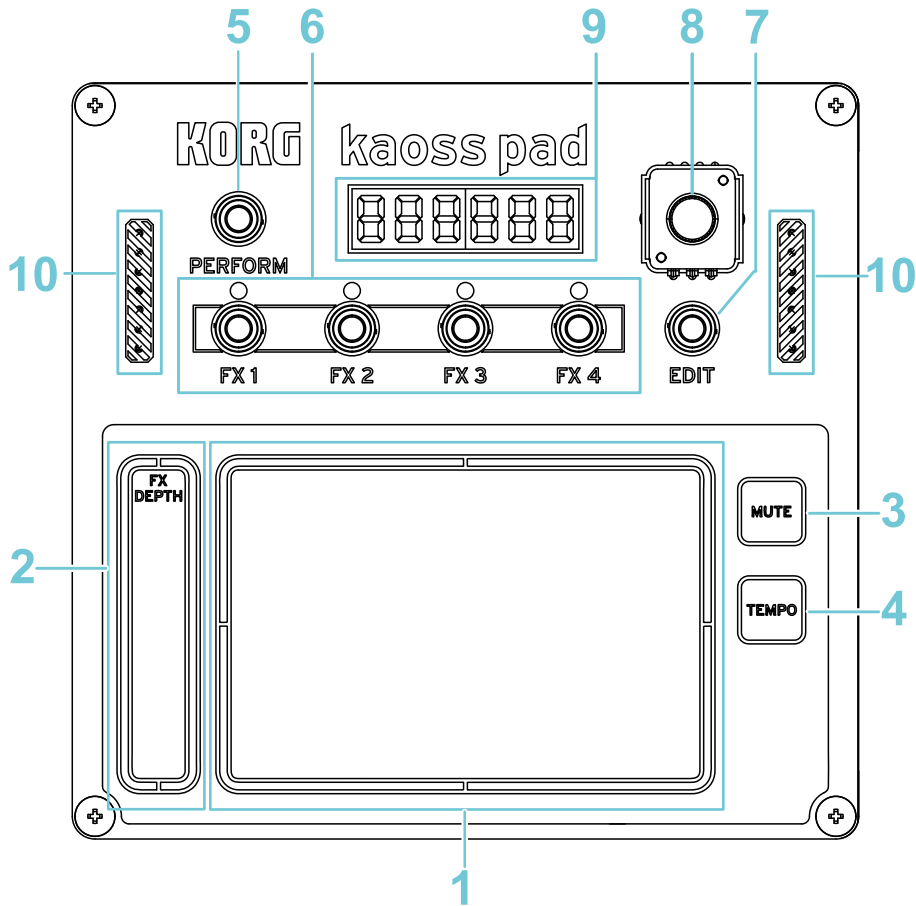
Configure the MIDI settings of the NTS-3 kaoss pad kit in the global parameters. → [Global parameters](#)

Part names and functions

- [Top panel](#)
- [Front panel](#)
- [Rear panel](#)

Features

| Top panel



1 Touch pad

Use your fingers to trace across the touch pad, to lightly tap the pad and to operate the effects. Press the PERFORM button while touching the touch pad to keep the touch pad in touch mode, which acts like a “hold” function.

Press the FX1-4 buttons while touching the touch pad to individually lock (freeze) the values of FX1-FX4. → [Perform mode](#)

2 FX DEPTH

You can control the parameters of the effect module that are assigned to FX DEPTH. → [Perform mode](#)

3 MUTE button

The signal that’s being input is muted (silenced) while you hold down the MUTE button. This lets you output only the effect portion of the delay, reverb or other effect.

4 TEMPO button

Tap this button in time with the beat of a song or other musical clip to set the tempo, if you don’t know the BPM (beats per minute). Press the TEMPO button three or more times in time with the beat. The unit detects the beats according to your button presses. The resulting BPM value is shown in the display, and the tempo is set to that BPM.

Tip: You can also use the following operations to set the BPM.

- Turn the knob while holding down the TEMPO button
- Touch the FX DEPTH while holding down the TEMPO button

5 PERFORM button

Press this button to enter Perform mode. → [Playing](#)

6 FX1-FX4 buttons

You can individually select the four effect modules from FX1 to FX4. → [Perform mode](#)

7 EDIT button

Press this to enter Program Edit mode. → [Program Edit mode](#)

You can also press the FX1-4 buttons while holding down the EDIT button to enter Effect Edit mode. → [Effect edit mode](#)

8 Knob

Turn this to select effects and parameters, and to edit the tempo and other values.

The LED blinks in time with the tempo you set.

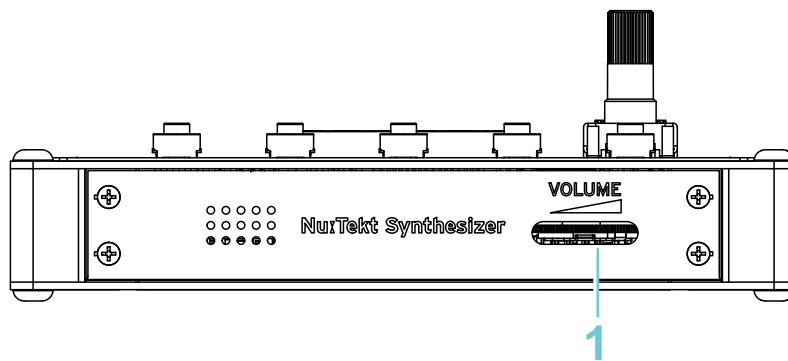
Also, the knob acts as a button when you press it.

9 Display

When you operate a knob or press a button, the parameter name and value appear in the display.

10 ⚠ Use caution, as the unit may short out and malfunction if these parts come into contact with metal objects.

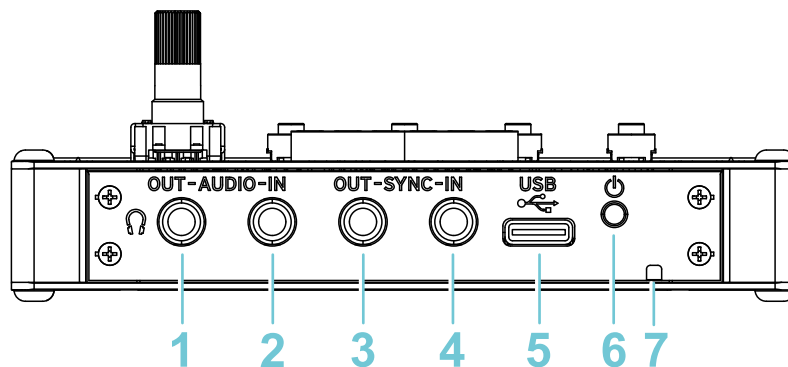
| Front panel



1 VOLUME

Adjusts the output volume of signal from the 🎧 (Headphones jack)/AUDIO OUT jack.

| Rear panel



1 🎧 (Headphones jack)/AUDIO OUT jack

Connect a speaker or a pair of headphones (stereo mini plug) here. No sound is heard from the built-in speaker when a device is connected to this jack.

2 **AUDIO IN jack**

Connect this to equipment such as a DJ mixer, a CD or MP3 player or an electronic musical instrument. Adjust the volume on the connected device. You can set the gain in the global parameters.

→ [Global parameters](#)

IN-SYNC-OUT (SYNC IN, SYNC OUT) jacks

Connect the NTS-3 kaoss pad kit to a device such as the volca series, an SQ-64 or a SQ-1 using a sync cable, which synchronizes both devices. Configure the polarity settings in the global parameters.

→ [Global parameters](#)

3 **SYNC OUT jack**

A 15 ms pulse at 3.3 V is output at the beginning of each step.

4 **SYNC IN jack**

Synchronizes the tempo of the NTS-3 kaoss pad kit with that of an external device you've connected.

5 **USB Type-C port**

Use the included USB cable to connect this unit to your computer or to a commercially available USB standards-compliant AC adapter.

6 **Power button**

Turns the power of the NTS-3 kaoss pad kit on/off.

7 **Anti-theft lock ()**

Tip: Connect a commercially available security wire to the anti-theft lock.

<http://www.kensington.com/>

Playing

- [Perform mode](#)
- [Selecting programs](#)
- [Playing the programs](#)
- [Selecting an effect module](#)
- [Effect types](#)
- [Editing effects in detail](#)
- [Saving the programs and editing the routings](#)

Perform mode

The NTS-3 kaoss pad kit launches in Perform mode when you turn on the power. This section shows you how to use Perform mode.

In Perform mode, you can select a “program” that consists of up to four effect modules (FX1-FX4), and use the touch pad to alter the signal from the AUDIO INPUT jack with a maximum of four effect modules at the same time. You can also change the effect type of each effect module and switch them on/off.

| Selecting programs

Each program consists of effect types and on/off switches for the four effect modules (FX1-FX4), freeze controls, routing (Program Edit mode), and the edit contents of Effect Edit mode.

Turn the knob: 1 (program name)-200 (program name)

Turn the knob to select a program to play.

The program number (1-200) and program name are shown in the display.

Note: The LEDs light up for the effect modules that are on.

| Playing the programs

You can use the programs to play and “hold”.

Touch pad

Slide your finger across or lightly tap the touch pad to control the sound. When you touch the touch pad, the effects of all the effect modules that are configured for the program are applied simultaneously.

FX DEPTH

This simultaneously changes the parameters assigned to FX DEPTH for all effect modules.

Touch pad + PERFORM button: hold

When you press the PERFORM button while touching the touch pad, the unit enters “hold” state. In this state, the state of the effect you were just using is maintained, even after you take your fingers off the touch pad.

“Hold (H O L D)” appears while blinking in the display during hold state.

If you long-press the PERFORM button while the unit is in hold state, the hold state is released once you take your finger off the button.

Touch pad + FX1-FX4 button: freeze

When you press the FX1-FX4 buttons while touching the touch pad, the effect module for the button you pressed enters “freeze” state. In this state, the state of the effect you’re using is maintained (frozen), even after you take your fingers off the touch pad.

The LEDs of the “frozen” effect modules blink.

If you long-press a blinking effect module button while the effect module is in “freeze” state, the freeze state is released once you take your finger off the button.

Note: Here’s a useful example: try using the touch pad to control the LPF (low-pass filter) of FX1 while the delay effect of FX2 is frozen.

Selecting an effect module

You can individually select the effect modules (FX1-FX4) and change their effect types or switch them on/off.

FX1–FX4 button: selects an effect module

Press the buttons from FX1 to FX4 to select one of the effect modules.

The effect name is shown on the display when the effect is on. "OFF (OFF)" is shown when the effect is off.

Press the knob: FX ON/OFF

Switches the effects on/off.

Turn the knob: EFFECT TYPE

Selects the effect type. → [Effect types](#)

Effect types

The effect types are arranged in this order: built-in effects (35), user effects (up to 50), silent effect (which mutes the input signal).

BUILT-IN EFFECTS

EFFECT TYPE	PARAMETER 1	PARAMETER 2	PARAMETER 3	PARAMETER 4	PARAMETER 5	PARAMETER 6	PARAMETER 7	PARAMETER 8
LPF	CUTOFF	RESONANCE	LFO RATE	LFO SYNC	LFO DEPTH	LFO WAVE	POLES	DRYWET
BPF	CUTOFF	RESONANCE	LFO RATE	LFO SYNC	LFO DEPTH	LFO WAVE	POLES	DRYWET
HPF	CUTOFF	RESONANCE	LFO RATE	LFO SYNC	LFO DEPTH	LFO WAVE	POLES	DRYWET
EQ3	LOW	MID	HIGH	LM XOVER	MH XOVER	SCALE		
Isolator	BAND	MODE	OUTPUT	LM XOVER	MH XOVER	DRYWET		
Chorus	RATE	DEPTH	DELAY	STEREO	DRYWET			
Ensemble	RATE	DEPTH	DRYWET					
Flanger	RATE	DEPTH	DELAY	FEEDBACK	POLARITY	STEREO	DRYWET	
Phaser	RATE	DEPTH	FEEDBACK	POLARITY	STEREO	DRYWET		
Tremolo	RATE	SYNC	WAVE	SHAPE	DRYWET			
Auto Pan	RATE	SYNC	WAVE	SHAPE	DRYWET			
Delay	TIME	SYNC	INPUT	FEEDBACK	HIGH DAMP	SPREAD	DRYWET	
Ping Pong Delay	TIME	SYNC	INPUT	FEEDBACK	HIGH DAMP	SPREAD	DRYWET	
High Pass Delay	TIME	SYNC	INPUT	FEEDBACK	CUTOFF	SPREAD	DRYWET	
Tape Echo	TIME	SYNC	INPUT	FEEDBACK	MOD DEPTH	HIGH DAMP	DRYWET	
Hall Reverb	TIME	DEPTH	TONE	DRYWET				
Room Reverb	TIME	DEPTH	TONE	DRYWET				
Space Reverb	TIME	DEPTH	TONE	DRYWET				
Riser Reverb	TIME	DEPTH	TONE	DRYWET				
Submarine Reverb	TIME	DEPTH	TONE	DRYWET				
Looper	NOTE	FWDBWD	SPEED	DRYWET				
Grain Shifter	GRAIN	CYCLE	DRYWET					
Vinyl Break	SPEED	SCRATCH	DRYWET					
Pitch Shifter	SHIFT	MODE	DRYWET					
Ring Modulator	FREQ	TONE	DRYWET					
Decimator	SAMPLE	BIT	TONE	DRYWET				
Soft Clip	GAIN	TONE	DRYWET	OUTPUT				
Hard Clip	GAIN	TONE	DRYWET	OUTPUT				
Sine Fold	GAIN	TONE	DRYWET	OUTPUT				
Fuzz	TONE	DEPTH	GAIN					
Compressor	THRESHOLD	RATIO	ATTACK	RELEASE	OUTPUT	MAKEUP	DRYWET	
Limiter	GAIN	KNEE	CEILING	DRYWET				
OSC Sustain	PITCH	WAVE	RELEASE	NOISEMIX	DRYWET			
OSC Drop	PITCH	WAVE	RELEASE	DROP	DRYWET			
OSC Wobble	PITCH	WAVE	LFO RATE	LFO DEPTH	LFO WAVE	DRYWET		
Silent								

Note: The silent effect completely mutes the input signal. This is useful when you're using the "1 PARA" or "2 by 2" routings. → [Program Edit mode](#)

| Editing effects in detail

EDIT button + FX1–FX4 buttons: selects the effect module to edit

Press the FX1-FX4 buttons while holding down the EDIT button to select one of the effect modules. The unit enters Effect Edit mode. → [Effect edit mode](#)

| Saving the programs and editing the routings

EDIT button: enters Program Edit mode

Press the EDIT button to enter Program Edit mode. → [Program Edit mode](#)

Parameter edit

- [Effect edit mode](#)
- [Program Edit mode](#)
- [Global parameters](#)
- [Factory reset](#)

Effect edit mode

This section explains how to use Effect Edit mode.

In Effect Edit mode, you can individually adjust how the effects of the FX1-FX4 effect modules are applied in response to the touch pad and FX DEPTH control.

| Editing the effect modules

1 Select the effect module to edit.

EDIT button + FX1–FX4 buttons: selects the effect module to edit

Press the FX1-FX4 buttons while holding down the EDIT button to select one of the effect modules. The unit enters Effect Edit mode.

2 Select the parameter to edit.

Turn the knob: selects a parameter

Press the knob: confirms the parameter and enters target selection

Turn the knob to select the parameter to edit.

The parameters depend on the effect type that's currently selected. See the effect type table for Perform mode. → [Effect types](#)

Press the knob to confirm.

3 Select the parameter target to edit, and set the value.

Turn the knob: selects the target

Touch pad X axis (horizontal): sets the value

FX DEPTH: sets the value

MUTE button: shows the currently set value in the display

Turn the knob: returns to step 2 (parameter selection)

Turn the knob to select the parameter target to edit.

Use the touch pad X-axis (horizontal) or the FX DEPTH control to set the value. → [Parameter target and value](#)

Tip: Press the MUTE button to show the currently set value in the display.

Tip: Press the knob to return to parameter selection (step 2), where you can check how the effect actually works with your settings by using the touch pad and FX DEPTH control.

| Parameter target and value

You can set six types of targets for each effect parameter.

ASSIGN (ASSIGN): nonE, X, Y, dEPtH

Selects where to assign the parameter change. "none (nonE)" means no setting, "X" means the X-axis (horizontal) of the touch pad, "Y" means the Y-axis (vertical) of the touch pad, and "depth (dEPtH)" means the FX DEPTH. Sets the parameter you want to change according to where you touch the touch pad (or set "none" for parameters you don't want to change).

VALUE (VALuE): the range depends on the parameter

This sets the default values for the parameters. Parameters that are set to "none" using ASSIGN are set to a fixed value with this VALUE setting.

MIN (MIn): the range depends on the parameter

Sets the minimum value used when changing the parameter values. For parameters to which ASSIGN is set to "X", "Y" or "FX DEPTH", this MIN value changes as the minimum value. If ASSIGN is set to "X", the left edge of the touch pad generates the minimum value. If ASSIGN is set to "Y", the bottom edge of the touch pad generates the minimum value. Lastly, if ASSIGN is set to "FX DEPTH", the bottom edge of the FX DEPTH control generates the minimum value.

MAX (MAX): the range depends on the parameter

Sets the maximum value used when changing the parameter values. For parameters to which ASSIGN is set to "X", "Y" or "FX DEPTH", this MAX value changes as the maximum value. If ASSIGN is set to "X", the right edge of the touch pad generates the maximum value. If ASSIGN is set to "Y", the top edge of the touch pad generates the maximum value. Lastly, if ASSIGN is set to "FX DEPTH", the top edge of the FX DEPTH control generates the maximum value.

Tip: When you set MIN to a greater value than MAX, the touch pad and FX DEPTH control work in the reverse direction when you touch them.

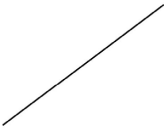
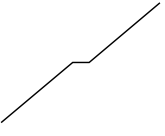
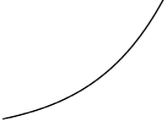
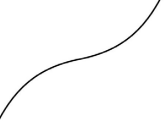
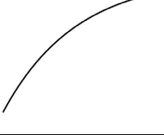
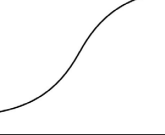
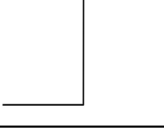
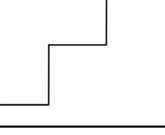
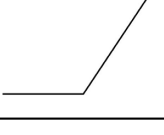
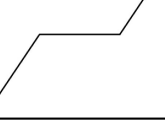
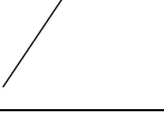
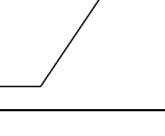
CURVE (CurVE): LinEar, EXP, LoG, toGGLE, MincLP, MaXcLP

Sets the curve used when changing the parameter values. For parameters to which ASSIGN is set to "X", "Y" or "FX DEPTH", the values change from minimum to maximum according to the curve you set here. Refer to the following table, "Curve types".

POLARITY (PoLARlty): unIPoL, biPoLA

Sets the polarity of the curve that's set in CURVE. For parameters to which ASSIGN is set to "X", "Y" or "FX DEPTH", the values change from minimum to maximum according to the curve you set here. Refer to the following table, "Curve types".

Curve types and polarities

CURVE \ POLARITY	UNIPOLARITY (uniPoL)	BIPOLARITY (biPoLA)
LINEAR (LinEar)		
EXP (EXP)		
LOG (LoG)		
TOGGLE (toGGLE)		
MIN CLIP (MincLP)		
MAX CLIP (MaXcLP)		

Editing module common parameters

1 Selects the module common parameter.

EDIT button + FX1–FX4 buttons (pressed twice): selects the module common parameters

Press one of the FX1 through FX4 buttons twice while holding down the EDIT button to select a module common parameter.

2 Select the parameter to edit.

Turn the knob: selects a parameter

Press the knob: confirms the parameter and enters target selection

Turn the knob to select the parameter to edit. → [Selecting the module common parameter and value](#)

Press the knob to confirm.

3 Select the parameter target to edit, and set the value.

MUTE button: shows the currently set value in the display

Touch pad: sets the value

FX DEPTH: sets the value

Turn the knob: returns to step 2 (parameter selection)

Use the touch pad or FX DEPTH to set the value. → [Selecting the module common parameter and value](#)

Tip: Press the MUTE button to show the currently set value in the display.

Tip: Press the knob to return to parameter selection (step 2), where you can check how the effect actually works with your settings.

| **Selecting the module common parameter and value**

There are six common parameters, as shown below.

In Select (In SELEct): Stereo, Mid , Side

Sets the format used for audio input to the effect module.

Release Mode (rEL ModE): Thru, Silent

When you are not touching the touch pad, this selects whether to output a dry signal without effects (thru), or to cut the dry signal and output only silence (silent).

Release Time (rEL tIME): 0–1023

Specifies how long it takes for the effect sound to gradually fade out after you take your finger off the touch pad.

Out Gain (out GAI)n): -12.0dB–+12.0dB

Sets the volume of audio output from the effect module.

FX Copy (FX CoPY): FX1–FX4

Copies the selected effect module to another effect module.

Press one of the FX1-FX4 buttons that are blinking to choose the copy destination and execute the copy operation.

FX Swap (FX SWAP): FX1–FX4

Swaps (exchanges) the selected effect module with another effect module.

Press one of the FX1-FX4 buttons that are blinking to choose the swap destination and execute the swap operation.

FX Clear (FX CLEAR)

Discards the edits you've made to the effect module parameters and module common parameters, and initializes the effect.

Press the knob to execute. Turn the knob if you wish to cancel.

FX Revert (FX rEVErt)

Discards the edits you've made to the effect module parameters and module common parameters, and restores the effect to the values it had when the program was last saved.

Press the knob to execute. Turn the knob if you wish to cancel.

Program Edit mode

This section shows you how to use Program Edit mode.

In Program Edit mode, you can save and initialize programs, as well as change the routing for the FX1-FX4 effect modules.

| Saving a program

SAVE PROG (SAVE ProG): saves the program

Here's how to save the selected program.

- 1 Press the EDIT button to enter Program Edit mode.
- 2 Turn the knob to select "SAVE PROG".
Once you see "SAVE ProG" in the display, press the knob.
- 3 Turn the knob to select the save destination program number and program name. The save destination program number and name blink in the display.
- 4 Press the knob to save the program you're currently editing.

Tip: When selecting the save destination program number, you can cancel the save operation by pressing the EDIT button, or by pressing another button to enter a different mode.

| Changing the program name

RENAME PROG (rEnAME ProG): changes the name of a program

Here's how to change the name of the selected program.

- 1 Press the EDIT button to enter Program Edit mode.
- 2 Turn the knob to select "RENAME PROG".
Once you see "rEnAME PROG" in the display, press the knob.
- 3 Turn the knob to select which character to edit. The characters you're editing blink.
- 4 Use the touch pad or FX DEPTH to change the character.
Touch pad X-axis (horizontal): chooses a character from A-Z or a space.
Touch pad Y-axis (vertical): changes the character to an uppercase letter (top half of the touch pad), or to a lowercase letter (bottom half of the touch pad).
FX DEPTH: chooses a number or symbol ("-", "_").
- 5 Repeat steps 3 and 4. You can use up to 16 characters for the name.
Press the knob to finish inputting and confirm the name.
To save the changed name, execute "SAVE PROG". → [Saving a program](#)

Tip: When inputting characters, you can cancel the edit operation by pressing the EDIT button or by pressing another button to enter a different mode.

| Initializing a program

CLEAR PROG (CLEAR ProG): initializes the program

Here's how to revert the selected program to its default state.

- 1 Press the EDIT button to enter Program Edit mode.
- 2 Turn the knob to select "CLEAR PROG".
- 3 Once you see "CLEARProG" in the display, press the knob.

- 4 "CLEAR" blinks in the display.
- 5 Press the knob again to initialize the program.

Tip: You can cancel the operation by turning the knob, pressing the EDIT button or by pressing another button to enter a different mode.

| Changing the routing of an effect module

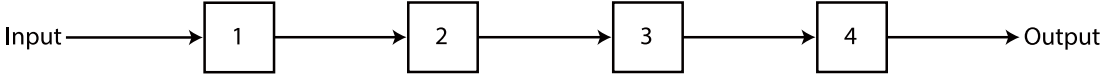
ROUTING (routInG) : SERIAL, SErPAR, PArSEr, 1 PArA, 2 by 2, 3 to 1

This shows how to change the routing of the four effect modules for the selected program.

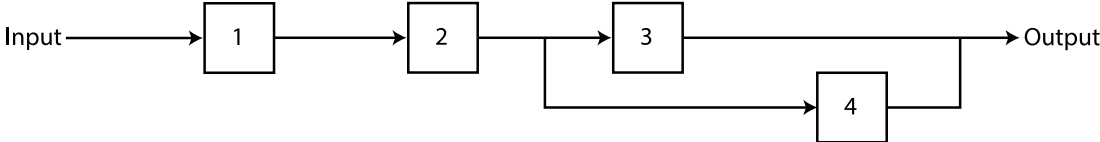
- 1 Press the EDIT button to enter Program Edit mode.
- 2 Turn the knob to select "ROUTING".
Once you see "routInG" in the display, press the knob.
- 3 Select the routing you wish to change, either "SErIAL", "SErPAR", "PArSEr", "1 PArA", "2 by 2" or "3 to 1".
- 4 Press the knob again to finish editing.

There are six different routings, as shown below.

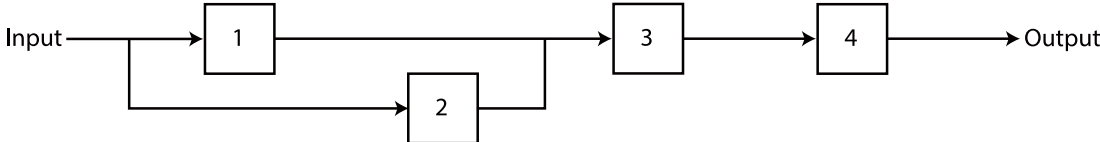
1. SERIAL (SErIAL)



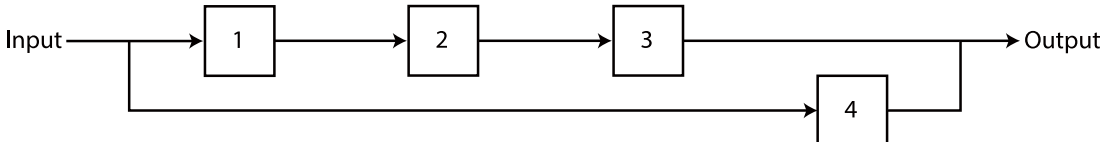
2. SERPAR (SErPAR)



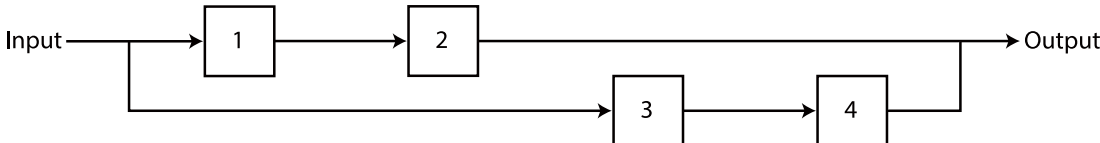
3. PARSER (PARSEr)



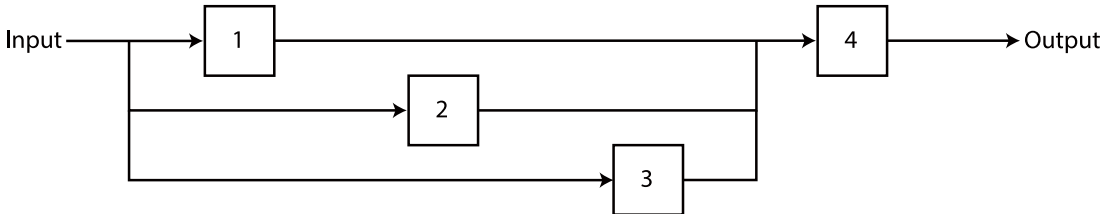
4. 1 PARA (1 PARa)



5. 2 by 2 (2 by 2)



6. 3 to 1 (3 to 1)



Global parameters

Use these parameters to configure the overall operations of the NTS-3 kaoss pad kit.

| Making the settings

- 1 Turn on the power while holding down the EDIT button.
- 2 Use the knob to select the global parameter to edit.
- 3 Use the touch pad or FX DEPTH to edit the value. The current value is shown on the right side of the display.
- 4 After you're finished with the settings, press the FX4 button. This saves the settings and the NTS-3 kaoss pad kit restarts.
Pressing the FX1 button during operations will make the NTS-3 kaoss pad kit restart (cancel) without saving the settings you edited.

Turn the knob: Input Gain (ɛβn)

Touch pad or FX DEPTH: -85-0-9

Sets the input gain (the volume of the external input that's connected to the AUDIO IN jack).

-85: -85 dB, -36: -36 dB, -24: -24 dB, -18: -18 dB, -12: -12 dB, -9: -9 dB, -6*: -6 dB, -3: -3 dB, -2: -2 dB, -1: -1 dB, 0: 0 dB, 1: +1 dB, 2: +2 dB, 3: +3 dB, 6: +6 dB, 9: +9 dB

Turn the knob: Monaural (nσn)

Touch pad or FX DEPTH: off, on

Sets whether to use the AUDIO IN in stereo or in monaural.

off*: stereo, on: monaural

Turn the knob: SYNC OUT Polarity (σγo)

Touch pad or FX DEPTH: hi, Low

Sets the polarity of the SYNC OUT jack.

hi*: Synchronizes at the peak of the waveform.

Low: Synchronizes at the trough of the waveform.

Turn the knob: SYNC IN Polarity (σγi)

Touch pad or FX DEPTH: hi, Low

Sets the polarity of the SYNC IN jack.

hi*: Synchronizes at the peak of the waveform.

Low: Synchronizes at the trough of the waveform.

Turn the knob: Tempo Range (εnp)

Touch pad or FX DEPTH: 0, 1

Sets the variable range for the tempo.

0*: narrow (56.0-240.0), 1: wide (10.0-600.0)


Turn the knob: MIDI Clock Source (ελκ)

Touch pad or FX DEPTH: 0, 1

Sets the clock to which this unit is synchronized.

0: Internal. Synchronizes to the internal clock.

1*: Auto. Synchronizes to the external clock when there is external clock input from the USB port, and synchronizes to the internal clock when there is no input.

 If a cable is connected to the SYNC IN jack, the unit synchronizes to the SYNC IN input, regardless of the clock settings.

Turn the knob: MIDI RX/short messages (5HR)

Touch pad or FX DEPTH: OFF, ON

Sets whether to receive MIDI short messages (such as program change, control change and so forth). Turn this off if you want to connect to a computer just to power this unit via USB, or if you don't want to receive messages when the unit is synchronized via MIDI clocks from the computer's software or another MIDI device.

OFF: Off, ON*: On

Turn the knob: MIDI NRPN messages (NRPN)

Touch pad or FX DEPTH: OFF, ON

Sets whether MIDI NRPN messages are transmitted and received.

OFF*: Off, ON: On

Turn the knob: MIDI route (NRTE)

Touch pad or FX DEPTH: 0, 1

Sets the routing for MIDI messages.

0*: USB+MIDI: Both kinds of message input are received from the USB and MIDI IN jacks, and both kinds of output are transmitted from these two jacks.

1: USB: Messages are only transmitted and received via the USB port. This setting is useful when you're using this unit as a USB MIDI interface.

Turn the knob: MIDI Channel (CHN)

Touch pad or FX DEPTH: 1-16

Specifies the MIDI channel.

1*: 1ch-16: 16ch

Turn the knob: SYNC IN/OUT Unit (STEP)

Touch pad or FX DEPTH: 0, 1

Sets how many steps the internal tempo advances for each pulse that's input to the SYNC IN jack, as well as how many steps are required for the tempo to advance before a single pulse is output from the SYNC OUT jack.

0*: 1 pulse = 2 steps

1: 1 pulse = 1 step

Turn the knob: Auto Power Off (APO)

Touch pad or FX DEPTH: OFF, ON

Switches the auto power-off function on/off.

OFF: The auto power-off function does not operate.

ON*: The auto power-off function operates.

Turn the knob: Touch sensor calibration (CAL)

Calibrates the touch sensor. The LEDs for FX1 and FX 4 blink. Press the FX4 button to begin calibration. After calibration is finished, "DONE (DONE)" is shown in the display. Don't touch the touch pad, FX DEPTH, MUTE and TEMPO controls during calibration.

Factory reset

| Restoring the factory default settings

- 1 Turn on the power while holding down the FX4 button.
The FX1 and FX4 buttons blink.
- 2 Press the FX4 button to show what is targeted for factory reset in the display.
Turn the knob to select which parameters are to be reset.
ALL (a l l): resets all of the following settings to their factory defaults
GLOB (g l o b): resets the global parameters to their factory defaults
PROG (p r o g): resets the programs to their factory defaults
FX (f x): deletes all of the user effects loaded into the NTS-3 kaoss pad kit and restores the factory defaults
To cancel the factory reset, press the FX1 button.
- 3 When you press the blinking FX4 button, the FX1 and FX4 LEDs blink alternately. When FX1 is blinking, "**CANCEL (c a n c e l)**" is shown in the display; and when FX4 is blinking, "**RESET (r e s e t)**" is shown in the display.
- 4 Press FX4 to execute the factory reset and restore the targeted data to the default settings. The FX4 button changes from blinking to continuously lit, and **RESET (r e s e t)** is shown in the display. The NTS-3 kaoss pad kit automatically restarts when the reset is finished. Press the FX1 button to cancel. If you do this, the factory reset is not executed, and the unit automatically restarts.

Appendices

- [Troubleshooting](#)
- [Specifications](#)
- [Operating requirements \(for USB connection\)](#)
- [MIDI implementation chart](#)

Troubleshooting

Power does not turn on

- Make sure that the included USB cable is correctly plugged in and connected. → [Making connections and turning on the power](#)
- Either the AC adapter you've connected or the amount of power supply from your computer may be insufficient. Connect this unit to a USB port that can supply sufficient power. → [Making connections and turning on the power](#)

No sound, volume is too low or too loud

- Adjust the VOLUME control on the front panel of the NTS-3 kaoss pad kit. → [Front panel](#)
- Adjust the volume of your external audio equipment.
- Check whether the audio output jacks (the AUDIO IN jack on the NTS-3 kaoss pad kit and the audio output jack of your external audio equipment) are correctly connected with a working cable. → [Making connections and turning on the power](#)
- Adjust the input gain on the NTS-3 kaoss pad kit. → [Global parameters](#)
- You may not hear sound if the Silent effect is used on one of the four effect modules, depending on the routing. → [Selecting an effect module](#), → [Effect types](#), → [Changing the routing of an effect module](#)

Sound is distorted or noisy

- Adjust the input gain on the NTS-3 kaoss pad kit. → [Global parameters](#)

Effects cannot be applied

- Make sure that the effects in question are not turned off. If they are off, turn them on and select an effect. → [Selecting an effect module](#)
- If you touch the lowest point of the FX DEPTH control in Perform mode, the effect's Dry:Wet parameter may be set to Dry=100%, which negates the effect. Touch the upper part of the FX DEPTH control while in Perform mode.

Cannot change the effect sound

- The freeze function may have been activated in Perform mode. Long-press the blinking buttons (FX1-FX4) for the effect module to release the freeze state. → [Playing the programs](#)
- The ASSIGN parameter for all effects in Effect Edit mode may have been set to "None". Try using the FX Clear function in Effect Edit mode to solve this. → [Selecting the module common parameter and value](#)

The touch pad, FX DEPTH, MUTE button and TEMPO button do not respond

- Try executing the Touch sensor calibration global parameter. → [Global parameters](#)

Specifications

Controllers

Touch pad, FX DEPTH slider, MUTE button, TEMPO button

Effects

Four assignable effect modules

Six routings

Total of 35 effects

FILTER: 5 (LPF, BPF, HPF, EQ3, ISOLATOR)

MODULATION: 6 (CHORUS, ENSEMBLE, FLANGER, PHASER, TREMOLO, AUTO PAN)

DELAY: 4 (DELAY, PING PONG DELAY, HIGH PASS DELAY, TAPE ECHO)

REVERB: 5 (HALL REVERB, ROOM REVERB, SPACE REVERB, RISER REVERB, SUBMARINE REVERB)

OTHERS: 5 (LOOPER, GRAIN SHIFTER, VINYL BREAK, PITCH SHIFTER, RING MODULATOR)

MASTERING: 7 (DECIMATOR, SOFT CLIP, HARD CLIP, SINE FOLD, FUZZ, COMPRESSOR, LIMITER)

OSC: 3 (OSC SUSTAIN, OSC DROP, OSC WOBBLE)

Performance programs

200 programs (100 preset and 100 user programs)

Input/output jacks and ports

⌚ (headphone jack)/AUDIO OUT jack (3.5 mm stereo mini-phone jack), AUDIO IN jack (3.5 mm stereo mini-phone jack), SYNC OUT jack (3.5 mm TRS mini-phone jack, output level: 5 V), SYNC IN jack (3.5 mm stereo TRS mini-phone jack, maximum input level: 20 V), USB Type-C port

Power supply

USB bus power

Current consumption

500 mA or less

Dimensions (W x D x H)

104 x 101 x 39 mm (4.09" x 3.98" x 1.54")

Weight

119 g (0.26 lb)

Included items

USB cable, Assembly Instructions

* Specifications and appearance are subject to change without notice for improvement.

Operating requirements (for USB connection)

See the Korg website for the latest information on OS support.

<https://www.korg.com/support/os/>

MIDI implementation chart

[PROGRAMMABLE EFFECT KIT]
 Model: NTS-3 kaoss pad kit

MIDI Implementation Chart

Date: 2023. 11.15
 Ver.: 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1-16	1-16	Memorized
	Changed	1-16	1-16	
Mode	Default	X	3	
	Messages	X	X	
	Altered	*****		
Note Number		X	X	
	True Voice	*****	X	
Velocity	Note On	X	X	
	Note Off	X	X	
After Touch	Key's	X	X	
	Channel	X	X	
Pitch Bend		X	X	
Control Change		o	o	BANK SELECT MSB, LSB *1
	0, 32	o	o	DATA ENTRY MSB, LSB *1 *2
	6, 38	o	o	MASTER VOLUME MSB, LSB *1
	7, 39	o	o	TOTAL FX PAD X, PAD Y, DEPTH (MSB) *1
	12, 13, 14	o	o	INPUT MUTE *1
	15	o	o	FX 1 PAD X, PAD Y, DEPTH (MSB) *1
	16, 17, 18	o	o	FX 2 PAD X, PAD Y, DEPTH (MSB) *1
	20, 21, 22	o	o	FX 3 PAD X, PAD Y, DEPTH (MSB) *1
	24, 25, 26	o	o	FX 4 PAD X, PAD Y, DEPTH (MSB) *1
	28, 29, 30	o	o	TOTAL FX PAD X, PAD Y, DEPTH (LSB) *1
	44, 45, 46	o	o	FX 1 PAD X, PAD Y, DEPTH (LSB) *1
	48, 49, 50	o	o	FX 2 PAD X, PAD Y, DEPTH (LSB) *1
	52, 53, 54	o	o	FX 3 PAD X, PAD Y, DEPTH (LSB) *1
	56, 57, 58	o	o	FX 4 PAD X, PAD Y, DEPTH (LSB) *1
	60, 61, 62	o	o	FX 1 SELECTION *1
	80	o	o	FX 2 SELECTION *1
	81	o	o	FX 3 SELECTION *1
	82	o	o	FX 4 SELECTION *1
	83	o	o	NRPN LSB, MSB *1 *2
	98, 99	o	o	TOTAL FX TOUCH, FREEZE *1
102, 103	o	o	FX 1 TOUCH, FREEZE, ON/OFF *1	
104, 105, 106	o	o	FX 2 TOUCH, FREEZE, ON/OFF *1	
108, 109, 110	o	o	FX 3 TOUCH, FREEZE, ON/OFF *1	
112, 113, 114	o	o	FX 4 TOUCH, FREEZE, ON/OFF *1	
116, 117, 118	o	o		
Program Change		o 0-99	o 0-99	
	True Number	*****	o 0-99	
System Exclusive		o	o	*3
System Common	Song Position	X	X	
	Song Select	X	X	
	Tune Request	X	X	
System Real Time	Clock	o	o	*4
	Commands	o	o	*4
Aux Messages	Local On/Off	X	X	*1
	All Notes Off	X	X	
	Active Sensing	o	o	
	System Reset	X	X	
Notes	*1: Received when global parameter MIDI RX ShortMessage is set to ON *2: Received/transmitted when global parameter MIDI NRPN Messages is set to ON *3: In addition to Korg exclusive messages, Inquiry is supported *4: Not received when global parameter MIDI Clock src is set to Internal; received when set to Auto			

Mode 1: Omni On, Poly
 Mode 3: Omni Off, Poly

Mode 2: Omni On, Mono
 Mode 4: Omni Off, Mono

O: Yes
 X: No

Consult your local Korg distributor for more information on MIDI implementation.

Preloaded program list

Display Name	Category	Program Name	X	Y	fx1	fx2	fx3	fx4	Routing
1	FLT LPF	Filter	Low Pass Filter	Cutoff Frequency	Resonance	LPF	-	-	SERIAL
2	FLT HPF	Filter	High Pass Filter	Cutoff Frequency	Resonance	HPF	LIMITER	-	SERIAL
3	FLT Reso	Filter	Resonator	Cutoff Frequency	Resonance	BPF	LPF	-	2 BY 2
4	FLT 16pole	Filter	16 pole LPF	Cutoff Frequency	Resonance	LPF	LPF	LPF	SERIAL
5	FLT Morph	Filter	Morphing Filter	Cutoff Frequency	Resonance	LPF	HPF	LIMITER	SERIAL
6	FLT LPF-Delay	Filter	LPF & Delay	Delay Time	Cutoff & Resonance	LPF	DELAY	-	SERIAL
7	FLT HPF-Delay	Filter	HPF & Delay	Delay Time	Cutoff & Resonance	HPF	HIGH PASS DELAY	-	SERIAL
8	FLT Reso-Delay	Filter	Resonator & Delay	Delay Time	Cutoff Frequency	BPF	DELAY	-	1 PARA
9	FLT LPF-Reverb	Filter	LPF & Reverb	Reverb Depth	Cutoff & Resonance	LPF	HALL REVERB	-	SERIAL
10	FLT HPF-Reverb	Filter	HPF & Reverb	Reverb Depth	Cutoff & Resonance	HPF	HALL REVERB	-	SERIAL
11	FLT Reso-Reverb	Filter	Resonator & Reverb	Reverb Depth	Cutoff Frequency	BPF	HALL REVERB	-	1 PARA
12	FLT Radio	Filter	Radio Filter	Isolator Width	Noise Level	OSC SUSTAIN	EQ3	LPF	1 PARA
13	FLT Cassette	Filter	Cassette Filter	Pitch Instability, Tone	Sample Rate, Isolator Width, Drive	DECIMATOR	CHORUS	EQ3	SOFT CLIP
14	FLT Isolator	Filter	Isolator	Low - Mid - Hi	Level & Drive	ISOLATOR	LIMITER	-	SERIAL
15	FLT BandCutter	Filter	Band Cutter	Low+Mid - Low+Hi - Mid+Hi	Level & Drive	ISOLATOR	LIMITER	-	SERIAL
16	FLT Iso-Distort	Filter	Isolator & Distortion	Low - Mid - Hi	Distortion	ISOLATOR	HARD CLIP	-	SERIAL
17	FLT Iso-Delay	Filter	Isolate & Delay	Low - Mid - Hi	Delay Depth	ISOLATOR	LIMITER	DELAY	SERIAL
18	FLT CenterCancel	Filter	Center Canceller	Cutoff Frequency	Level	HPF	LPF	SILENT	LIMITER
19	MOD PosJet	Modulation	Jet+ Flanger	Delay Time	Feedback	FLANGER	-	-	SERIAL
20	MOD NegJet	Modulation	Jet- Flanger	Delay Time	Feedback	FLANGER	-	-	SERIAL
21	MOD TalkFilter	Modulation	Talk Filter	1st Formant	2nd Formant	BPF	BPF	PING PONG DELAY	1 PARA
22	MOD Decimator	Modulation	Decimator	Sampling Frequency	Sampling Bit	DECIMATOR	-	-	SERIAL
23	MOD Dec-HPF	Modulation	Decimator & HPF	Sampling Frequency	Cutoff & Resonance	DECIMATOR	HPF	LIMITER	SERIAL
24	MOD Ring-HPF	Modulation	Ring Mod & HPF	Ring Mod Frequency	Cutoff & Resonance	RING MODULATOR	HPF	-	SERIAL
25	MOD Broken	Modulation	Broken Modulation	Frequency	Depth	FLANGER	SINE FOLD	-	SERIAL
26	MOD Distortion	Modulation	Distortion	Tone	Distortion	EQ3	HARD CLIP	-	SERIAL
27	MOD Fuzz	Modulation	Fuzz Distortion	Tone	Distortion	FUZZ	COMPRESSOR	-	COMPRESSOR
28	MOD BassDistort	Modulation	Bass Distortion	Cutoff Frequency	Distortion	LPF	HARD CLIP	HARD CLIP	1 PARA
29	MOD Comp	Modulation	Compressor	Sensitivity	Attack	COMPRESSOR	-	-	SERIAL
30	MOD LowComp	Modulation	LowBoost Compressor	Sensitivity	Attack	ISOLATOR	COMPRESSOR	COMPRESSOR	1 PARA
31	MOD Break	Modulation	Vinyl Break	Break Time	Scratch	VINYL BREAK	-	-	SERIAL
32	MOD Break-Reverb	Modulation	Break Reverb	Break Time	Scratch	VINYL BREAK	PING PONG DELAY	HALL REVERB	SERIAL
33	MOD Pitch-HPF	Modulation	Pitch Shifter & HPF	Pitch Shift	Cutoff Frequency	PITCH SHIFTER	HPF	LIMITER	SERIAL
34	MOD Pitch-Mid	Modulation	Mid Pitch Shifter	Pitch Shift	Mix Balance	ISOLATOR	PITCH SHIFTER	LPF	ISOLATOR
35	MOD Pitch-Delay	Modulation	Pitch Shifter & Delay	Pitch Shift	Delay Depth	PITCH SHIFTER	PING PONG DELAY	-	SERIAL
36	LFO LPF	LFO	LFO LPF	LFO Speed	Resonance	LPF	-	-	SERIAL
37	LFO HPF	LFO	LFO HPF	LFO Speed	Resonance	HPF	-	-	SERIAL
38	LFO RandomLPF	LFO	Random LFO LPF	LFO Speed	LFO Depth	LPF	-	-	SERIAL
39	LFO RandomReso	LFO	Random Resonator	LFO Speed	Resonance	BPF	LIMITER	LPF	1 PARA
40	LFO JagFilter	LFO	Jag Filter	LFO Speed	Reverse - Forward, LFO Depth	LPF	LPF	-	SERIAL
41	LFO Flanger	LFO	Flanger LFO	LFO Speed	Feedback	FLANGER	LIMITER	-	SERIAL
42	LFO DeepFlanger	LFO	Deep Flanger	LFO Speed	Feedback	FLANGER	-	-	SERIAL
43	LFO MidFlanger	LFO	Mid Flanger	LFO Speed	Feedback	ISOLATOR	FLANGER	-	ISOLATOR
44	LFO Flanger-LPF	LFO	Flanger & LPF	Flanger LFO Speed	LPF Cutoff & Resonance	FLANGER	LPF	-	SERIAL
45	LFO Phaser	LFO	Phaser LFO	LFO Speed	Resonance	PHASER	-	-	SERIAL
46	LFO Vibrato	LFO	Vibrato	LFO Speed	LFO Depth	CHORUS	-	-	SERIAL
47	LFO Ensemble	LFO	Ensemble	LFO Speed	LFO Depth	ENSEMBLE	-	-	SERIAL
48	LFO Tremolo	LFO	Tremolo	LFO Speed	LFO Depth	TREMOLO	-	-	SERIAL
49	LFO ComplexTrem	LFO	Complex Tremolo	LFO Speed 1	LFO Speed 2	TREMOLO	TREMOLO	LIMITER	SERIAL
50	LFO AutoPan	LFO	Auto Pan	LFO Speed	LFO Depth	AUTO PAN	LIMITER	LPF	1 PARA
51	LFO MidAutoPan	LFO	Mid Auto Pan	LFO Speed	LFO Depth	ISOLATOR	AUTO PAN	-	ISOLATOR
52	LFO Pumper-HPF	LFO	Pumper & HPF	LFO Speed	Cutoff Frequency	TREMOLO	TREMOLO	HPF	LIMITER
53	LFO Slicer	LFO	Slicer	LFO Speed	LFO Shape	TREMOLO	-	-	SERIAL
54	LFO MidSlicer	LFO	Mid Slicer	LFO Speed	LFO Depth	ISOLATOR	TREMOLO	LIMITER	ISOLATOR
55	LFO Slicer-LPF	LFO	Slicer & LPF	LFO Speed	Cutoff & Resonance	TREMOLO	LPF	-	SERIAL
56	LFO Slicer-HPF	LFO	Slicer & HPF	LFO Speed	Cutoff & Resonance	TREMOLO	HPF	-	SERIAL
57	LFO GrainShifter	LFO	Grain Shifter	Cycle Speed	Length	GRAIN SHIFTER	LIMITER	-	SERIAL
58	LFO BeatGrain	LFO	Beat Grain	Cycle Speed	Length	GRAIN SHIFTER	LIMITER	-	SERIAL
59	LFO MidGrain	LFO	Mid Grain Shifter	Cycle Speed	Length	ISOLATOR	GRAIN SHIFTER	LIMITER	ISOLATOR
60	DLY Delay	Delay	Delay	Delay Time	Delay Depth	DELAY	-	-	SERIAL
61	DLY Pingpong	Delay	Ping Pong Delay	Delay Time	Delay Depth	PING PONG DELAY	-	-	SERIAL
62	DLY LowCut	Delay	Low Cut Delay	Delay Time	Delay Depth	HIGH PASS DELAY	-	-	SERIAL
63	DLY TapeEcho	Delay	Tape Echo	Delay Time	Delay Depth	TAPE ECHO	-	-	SERIAL
64	DLY DubEcho	Delay	Dub Echo	Delay Time	Delay Depth	TAPE ECHO	CHORUS	LPF	1 PARA
65	DLY One	Delay	One Delay	Delay Time	Delay Tone	HIGH PASS DELAY	-	-	SERIAL
66	DLY 3band	Delay	3 Band Delay	Low - Mid - Hi	Delay Depth	ISOLATOR	DELAY	LPF	1 PARA
67	DLY Reverse	Delay	Reverse Delay	Delay Time	Delay Depth	LOOPER	DELAY	LPF	1 PARA
68	DLY Lofi	Delay	Lofi Delay	Delay Time	Sampling Frequency	HIGH PASS DELAY	DECIMATOR	LPF	1 PARA
69	DLY Harmonic	Delay	Harmonic Delay	4th Harmony Depth	5th Harmony Depth	PITCH SHIFTER	PITCH SHIFTER	HIGH PASS DELAY	1 PARA
70	DLY Echo-Break	Delay	Echo Break	Delay Time	Break Speed	VINYL BREAK	TAPE ECHO	-	SERIAL
71	DLY Reverb	Delay	Delay Reverb	Delay Time	Delay Depth, Reverb Depth	HIGH PASS DELAY	HALL REVERB	-	SERIAL
72	RVB Hall	Reverb	Hall Reverb	Reverb Time	Reverb Depth	HALL REVERB	-	-	SERIAL
73	RVB Room	Reverb	Room Reverb	Reverb Time	Reverb Depth	ROOM REVERB	-	-	SERIAL
74	RVB Space	Reverb	Space Reverb	Reverb Time	Reverb Depth	SPACE REVERB	TAPE ECHO	-	SERIAL
75	RVB Riser	Reverb	Riser Reverb	Reverb Time	Reverb Depth	RISER REVERB	-	-	SERIAL
76	RVB Submarine	Reverb	Submarine Reverb	Reverb Time	Reverb Depth	SUBMARINE REVERB	-	-	SERIAL
77	RVB Reverse	Reverb	Reverse Reverb	Reverb Time	Reverb Depth	LOOPER	HALL REVERB	LPF	1 PARA
78	RVB Lofi	Reverb	Lofi Reverb	Sampling Frequency	Reverb Depth	HALL REVERB	DECIMATOR	LPF	1 PARA
79	RVB Pump	Reverb	Pump Reverb	Reverb Time	Reverb Depth	RISER REVERB	TREMOLO	HPF	1 PARA
80	LOP Looper	Looper	Looper F/R	Looper Beat	Reverse - Forward	LOOPER	-	-	SERIAL
81	LOP LPF	Looper	LPF Looper	Looper Beat	Cutoff & Resonance	LOOPER	LPF	-	SERIAL
82	LOP HPF	Looper	HPF Looper	Looper Beat	Cutoff & Resonance	LOOPER	HPF	-	SERIAL
83	LOP Speed	Looper	Looper Slowed/Sped up	Looper Beat	Speed 0.5x - 1.0x - 2.0x	LOOPER	-	-	SERIAL
84	LOP Shuttle	Looper	Shuttle Looper	Looper Beat	Switch Rate	LOOPER	TREMOLO	LOOPER	LPF
85	LOP 3band	Looper	3 Band Looper	Looper Beat	Low - Mid - Hi	LOOPER	ISOLATOR	LIMITER	SERIAL
86	LOP Flanger	Looper	Flanger Looper	Looper Beat, LFO Speed	Flanger Tone (Delay Time)	LOOPER	FLANGER	-	SERIAL
87	LOP Pitch	Looper	Pitch Looper	Looper Beat	Pitch Shift	LOOPER	PITCH SHIFTER	LIMITER	SERIAL
88	LOP Decimate	Looper	Decimator Looper	Looper Beat	Sampling Frequency	LOOPER	DECIMATOR	-	SERIAL
89	LOP ReverseDelay	Looper	Looper & Reverse Delay	Looper Beat	Cutoff Frequency	LOOPER	BPF	PING PONG DELAY	SERIAL
90	LOP BreakRepeat	Looper	Break Repeater	Looper Beat	Break Time	VINYL BREAK	LOOPER	-	SERIAL
91	LOP Fermata	Looper	Loop Fermata	Looper Beat	Break Time	LOOPER	VINYL BREAK	-	SERIAL
92	SYN Bass	Synth	Detuned Bass	Synth Pitch	Waveform	OSC SUSTAIN	OSC SUSTAIN	PING PONG DELAY	1 PARA
93	SYN Bubble	Synth	Bubble SE	Synth Pitch, LFO Speed	LFO Depth, Noise Level	OSC WOBBLE	OSC SUSTAIN	PING PONG DELAY	1 PARA
94	SYN Siren	Synth	Siren	Synth Pitch, LFO Speed	Cutoff & Resonance	OSC WOBBLE	HPF	PING PONG DELAY	1 PARA
95	SYN SawLFO	Synth	LFO Saw	Synth Pitch, LFO Speed	Up - Down, LFO Depth	OSC WOBBLE	LPF	PING PONG DELAY	1 PARA
96	SYN ElectricPerc	Synth	Electric Perc	Pitch	Drop Depth, Release Time	OSC DROP	PING PONG DELAY	LPF	1 PARA
97	SYN DropBell	Synth	Drop Bell	Drop Bell	Release Time	OSC DROP	SPACE REVERB	-	1 PARA
98	SYN ResoNoise	Synth	Resonated Noise	Noise Tone	Resonance	OSC SUSTAIN	BPF	PING PONG DELAY	1 PARA
99	Assort 1	Assort	Assort 1	Kaoss	Kaoss	LPF	FLANGER	TAPE ECHO	DECIMATOR
100	Assort 2	Assort	Assort 2	Kaoss	Kaoss	HPF	CHORUS	SINE FOLD	SPACE REVERB

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