

BEST SOUNDS - KOHLER DIGITAL PIANO

KOHLER

KOHLER

DIGITAL PIANO

KD-26/27
Owner's Manual

KOHLER



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"Best Sounds"

KOHLER DIGITAL PIANO

KOHLER DIGITAL PIANO

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

Power supply & power requirements

Please connect the designated AC cord 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.

USA and CANADA : 120V, 60Hz

Europe(except UK) : 230V, 50Hz

UK and Australia : 240V, 50Hz

Interference with other electrical devices

This product contains a microcomputer. 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 cord from the wall outlet. Then contact your nearest Samick dealer or the store where the equipment was purchased.

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

DISCLAIMER

The information contained in the this manual has been carefully revised and checked through.

Due to our constant efforts to improve our products, the specifications might differ to those in the manual. Samick is not responsible for any eventual differences found between the specifications and the contents of the instruction manual - the specifications being subject to change without prior notice.

WARRANTY

Samick products are manufactured according to the stricted electrical and mechanical regulations that exist in various countries of the world. These products are warranted by the Samick distributor only in each country. Any Samick product that is not sold with the manufacturer's or distributor's warranty, or without a serial number, cannot benefit from servicing under the warranty. This regulation is for the consumer's own protection.

ASSISTANCE AND SERVICE FOR MUSICIANS

For repairs, contact your nearest Authorized Samick Service Center. For more information on Samick products, and to find software and accessories for your piano, please contact your local Authorized Samick distributor.

DATA RESET

When the instrument is turned off, all parameters are reset. The recorded song is, therefore, deleted from the memory.

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"Best Sounds" KOHLER DIGITAL PIANO

INTRODUCTION

MAIN FEATURES

Wide range of sounds.

Thirty different and expressive high-quality sounds, including a Stereo Concert Grand Piano. You can exploit the Layer function to simultaneously play two sounds.

Effects.

The KD-26/27 provides built-in digital effects that can simulate natural ambience of a concert hall (Reverb) and add richness to the sound (Chorus).

Pedal effects

The damper pedal simulates the string resonances of an acoustic piano. Both the damper pedal and soft pedal let you adjust the amount of effect by the depth to which you press the pedal. The sostenuto pedal functions just like on an acoustic piano.

Metronome.

The built-in metronome allows you to select the time signature, tempo, and volume, and even use a bell sound as the accent.

Touch control.

You can choose from three different settings to adjust how the sound will respond to your keyboard playing dynamics.

Temperaments.

In addition to the Equal temperament, the KD-26/27 allows you to select two alternative classical temperaments (Kimberger and Werchmeister) for historically accurate performance of classical music. When selecting an acoustic piano sound, the typical Stretched Tuning is automatically selected.

Adjustable pitch.

The Transpose function lets you change the pitch of the piano, and the Pitch Control function allows you to make fine tune adjustments.

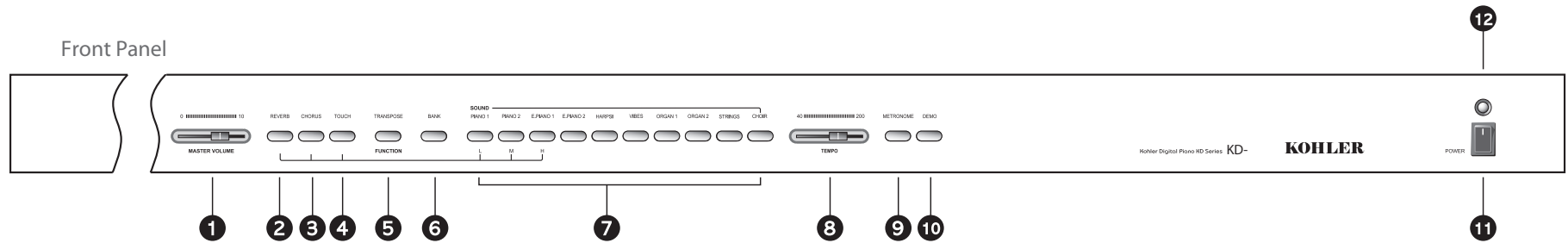
MIDI capabilities.

The KD-26/27 supports the MIDI protocol, the standard that allows music data to be transferred between musical instruments and computers. MIDI allows two or more devices to control or be controlled by each other, and also allows you to use the KD-26/27 as a 16-part multitimbral tone generator.



1. PANELS

Front Panel

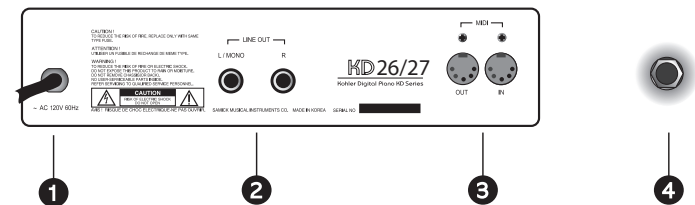


1. Master volume slider : Adjusts the volume for the Output and the Phones connectors.
2. Reverb button : Turns the reverb on/off. This adds ambience to the sound.
3. Chorus button : Turns the chorus on/off. This makes the sound richer.
4. Touch button : Lets you select the keyboard sensitivity.
5. Transpose/function button : Multifunction button to be used in order to modify the transpose and fine tuning functions, to program the MIDI parameters and to carry on other adjustments.

■ NOTE: When the instrument is turned off, all parameters are reset.

6. Bank Button : Selects one of the 3 available banks of sounds.
7. Sound selection buttons : Press a button to select a sound (Single mode).
You can press two buttons at the same time, to play two sounds at the same time on the keyboard (Layer mode).
8. Tempo slider : Adjusts the metronome tempo.
9. Metronome button : Turns the metronome click on/off.
10. Demo button : Turns the demo mode on/off, to listen to the demo songs.
Select the songs with the sound selection buttons (see number 7 above).
11. Power switch : On/Off switch.
12. Power lamp : LED indicates when power switch is on.

Rear Panel



1. AC cord : AC cord, supplies AC power
@power requirements
230V, 50Hz for Europe(except the UK)
240V, 50Hz for UK and Australia
120V, 60Hz for USA and Canada
2. Output(L/Mono, R) connector : Audio output. Connect these connectors to an external amplifying system.(With a hi-fi system use the AUX or TAPE connectors, not the PHONO connector). To amplify the KD-26/27 in mono, connect the single L/MONO connector. Use the MASTER VOLUME slider to set the output volume.
3. MIDI(IN, OUT) connectors : Connectors that are used to connect other MIDI devices(sequencer, keyboards, etc.). OUT:Data output (to beconnected to the MIDI IN connector of another MIDI device). IN:Data input (to beconnected to the MIDI OUTconnector of another MIDI device).
4. Pedal connector : Connect the supplied pedal to this connector.

2. BEFORE YOU BEGIN

Using the headphones

For playing or practicing during night hours, or when you don't want to be heard by others in the same room, connect a pair of high-quality headphones (32 Ohms impedance suggested) to the appropriate connector under the keyboard. The connector is a standard 1/4" phone jack. If your headphones have a mini-jack adapter, grasp the adapter when plugging in or out the headphones.

If you need to connect two sets of headphones, please contact your Samick reseller to ask for one of the many headphones distributors available on the market.

WARNING: When using headphones, protect your hearing by avoiding extended listening at high volumes.

Turning the instrument on

Connect the AC plug to a wall socket; then press the POWER switch. When the instrument is on, the LEDs on the control panel will light up. To turn the instrument off, press the POWER switch again.

NOTE: When the instrument is turned off, all parameters are reset.

Adjusting the volume

Move the MASTER VOLUME slider towards the right to increase the volume; towards the left to decrease the volume. The maximum is "10"; the minimum (silence) is "0". This control adjusts the output level of the headphones and of the OUTPUTS.

NOTE: It is always better to start with a low volume and then increase gradually.

Listening to the Demo

The KD-26/27 contains 30 pre-recorded demo songs. Listen to them to experience the rich sound and expressive potential of this instrument.

Listen to all songs at once.

You can listen to all demo songs with a single command.

1. Press the DEMO button (or keep the TRANSPOSE/FUNCTION button pressed, and press E1 of the keyboard). The sound selection buttons LED will blink sequentially from left to right. After a few seconds, playback will begin. All demo songs will be played back. After the last song, the playback will begin again from the first song.
2. During playback, you can press a sound selection button to repeat just the current bank of ten demo songs. (There are three banks of ten demo songs each: 1-10, 11-20, 21-30). For example, if you press the CHOIR button while song number 1 is playing, song number 10 will immediately start playing, and the playback will cycle from song 1 through song 10.
3. Press the DEMO button to stop the playback and exit the demo mode.

Listen to a specified song.

You can select just one demo song to be played back.

1. First of all, you must select one of the three demo song banks.
 - To select the first bank (1-10), press the DEMO button once. The LEDs will blink sequentially, from left to right.
 - To select the second bank (11-20), press the DEMO button a second time. All LEDs will blink at the same time.
 - To select the third bank (21-30), press the DEMO button a third time. Adjacent LEDs will blink alternately.
2. Press one of the sound selection buttons to select the corresponding song in the selected bank. The LED on the selected demo button will stay on, while the other LEDs will turn off.

After the end of the selected song, all the songs of the selected bank will be played back in cycle.



3. BASIC FUNCTIONS

DEMO SONG LIST

Button	Bank 1 (1-10)	Bank 2 (11-20)	Bank 3 (21-30)
PIANO 1	F. Mendelssohn-Bartholdy: Prelude Op. 104a, no.2	Korg Original(M.Tempia) : Reflection	C. A. Debussy: Arabesque no.1
PIANO 2	F. Chopin : Nocturne Op.9, no.2	S. Joplin : The Entertainer	J. S. Bach : Two-voice invention no.13
E.PIANO 1	C. A. Debussy : Clair de lune	Korg Original (M. Tempia) : Jumper	F. Chopin : Fantasie- Impromptu Op.66
E.PIANO 2	Korg Original(M. Tempia) : Lullaby for a Little Star	Korg Original(M. Tempia) : All the Ones You Don't Know	J. S. Bach : Prelude in C major(from Das Wohltemperierte Klavier)
HARPSI /CLAV	L. van Beethoven : Fur Elise	J. S. Bach : Italian Concerta	Korg Original(M. Tempia) : Rubber Bob
VIBES /GUITAR	F. Chopin : Etude Op.10, no.3	Korg Original(M. Tempia) : Jazz in Spain	R. Schumann : Traumerei, Op.15, no.7
ORGAN 1	W. A. Mozart : A la turque (from the Sonata in A-major K.331)	Korg Original(M. Tempia) : Cool "B"	F. Mendelssohn-Bartholdy:Spring Song, Op.62, no.6
ORGAN 2	F. Chopin : Valse no.6 in D ♭ -major Op.64, no.1	F. Mendelssohn - Bar - Tholdy : Wedding March	Korg Original(M. Tempia) : Sunflowers
STRINGS /PAD	Korg Original(M. Tempia) : Old Feather Blues	J. S. Bach : Air on the G sting	P. D. Paradisei : Toccata in A major
CHOIR	Korg Original(M. Tempia) : Noise of time	Korg Original(M. Tempia) : Voice Texture	Korg Original(M. Tempia) : Wet Raccoon Rag

- Press the DEMO button to stop the playback and exit the demo mode.

■ NOTE : During the demo playback you can't use the sound selection buttons to select sounds, or the REVERB and CHOURS buttons.

Adjusting the tempo of the demo songs.

Use the TEMPO slider to change the tempo of the selected demo song. Normally, the playback tempo of the demo song will not match the markings of the TEMPO slider.

■ NOTE: You can't use the metronome during the demo playback.

■ NOTE: When a demo is selected, its original tempo is recalled.



PLAYING A SINGLE SOUND(SINGLE MODE)

You can select a sound from the thirty sounds supplied with the instrument.

- Press one of the sound selection buttons in order to select a sound. The LED on the button you pressed will light.
- Use the BANK button to select one of the three available bank (1-10, 11-20, 21-30). Pressed a first time it selects Bank 2 ; pressed a second time it selects Bank 3 ; pressed a third time it selects Bank 1 again.

Button	Bank 1	#	Bank 2	#	Bank 3	#
PIANO 1	Grand Piano 1	2	Bright Piano	2	Grand Piano 2	1
PIANO 2	Classic Piano	2	Honky-Tonky	2	E. Grand Piano	1
E.PIANO 1	Stage E. Piano	1	Club E. Piano	2	Thin E. Piano	2
E.PIANO 2	Digital E. Piano	1	60's E. Piano	1	Vintage E. Piano	2
HARPSI /CLAV	Harpichord	1	Clav.	1	Wah Clav.	1
VIBES /GUITAR	Vibraphone	1	Marimba	1	Acoustic Guitar	1
ORGAN 1	Jazz Organ 1	2	Jazz Organ 2	2	Jazz Organ 3	2
ORGAN 2	Church Organ 1	3	Church Organ 2	1	Church Organ 3	1
STRINGS /PAD	Strings	1	Slow Strings	2	Warm Pad	2
CHOIR	Choir Hoo	1	Choir Doo	2	Choir Pad	2

(#) These columns show the number of oscillators per voice exploited by each sound

PLAYING TWO SOUNDS AT THE SAME TIME (LAYER MODE)

You can play two sounds at the same time on the keyboard. This is called the Layer mode.

■ NOTE: When selecting the Layer mode, the total number of voices that can play at the same time is reduced, depending on the total number of oscillators exploited by the selected sounds.

■ NOTE: You can't select two sounds included under the same button.



1. Press one of the sound selection buttons in order to select the first sound. The LED on the button you pressed will light. Use the BANK button to select a sound in one of the other banks.
2. Press another sound selection button to select the second sound. The LED on the button you pressed will light. Use the BANK button to select a sound in one of the other banks.
3. Press both buttons at the same time to select the sounds. Both LEDs will light.

■ NOTE: Steps 1 and 2 are not required, if the right banks are already selected.

Returning to the Single mode

To return to the Single mode, just press a single sound selection button.

Adjusting the volume of sounds in Layer mode.

To adjust the balance between the sounds in Layer mode, hold down the button of the sound whose level you wish to decrease, and repeatedly press the button of the sound whose level you wish to raise.

■ NOTE: This setting will be memorized even after turning the Layer mode off, but will be lost when turning the instrument off. To save these settings, save them using the Data Dump function(see "MIDI Data Dump" on page 29).

CHOOSING THE REVERB AND THE CHORUS

The KD-26/27 has two effects : reverb and chorus. The reverb simulates the sound reverberation in a room, while the chorus simulates a modulating effect that makes the sounds richer. The effect settings will be remembered even when selecting a different sound.

■ NOTE: Effect settings made in Single mode are memorized even when selecting the Layer mode, but no change made in Layer mode will be preserved. When the instrument is turned on, the effect settings are reset to the factory settings. To save these settings, save them using the Data Dump function (see MIDI Data Dump* on page 29).

1. Hold down the REVERB or CHORUS button, and press either the PIANO 1/L, PIANO 2/M, or E.PIANO 1/H sound selection button to select the reverb or chorus depth.

Button	Reverb depth	Chorus depth
PIANO 1/L	Light reverb	Light chorus
PIANO 2/M	Normal reverb	Normal chorus
E.PIANO 1/H	Deep reverb	Deep chorus

2. To check the currently selected reverb or chorus depth, hold down the REVERB or CHORUS button, and look at which of the above LEDs turned on.
3. To turn the reverb or chorus off, press the REVERB or CHORUS button. The LED on the button will turn off.

THE PEDALS

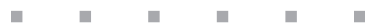
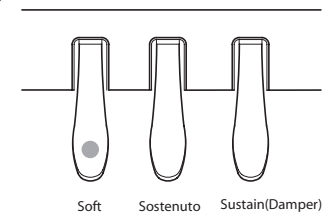
The Pedals

The 3 pedals are Soft, Sostenuto and Sustain pedals.

These work in the same manner as it you were playing an acoustic piano.

Soft Pedal

Notes played while this pedal is down will sound softer.

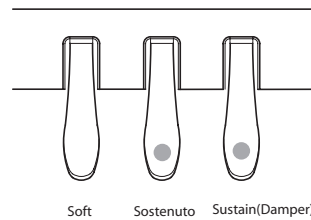


Sustain Pedal(Damper pedal)

Pressing this pedal causes notes to sustain even when you lift your fingers from the keys.

Sostenuto Pedal

Pressing this pedal immediately after playing a note or chord, will sustain those until the sostenuto pedal is held down.



THE METRONOME

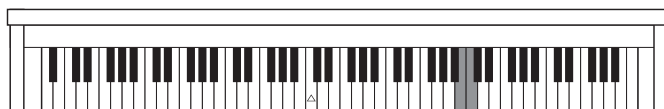
The KD-26/27 incorporates a metronome, with which you can set tempo during practice.

Starting and stopping the metronome.

Press the METRONOME button to make the metronome start or stop. When tuning on, the metronome is set according to the slider position, but you can adjust it with the procedure described below. After having listened to the demo, the tempo will be that of the last demo that had been listened to.

Adjusting the metronome volume.

While the metronome is playing, keep the METRONOME button pressed and repeatedly press the STRINGS/PAD button (or the B5 Key) to lower the volume, or the CHOIR button (or the C6 Key) to raise it. To reset the volume, simultaneously press the STRINGS/PAD and CHOIR buttons (or the B5 and C6 Keys on the keyboard) while holding the METRONOME button.



Key	Effect
B5	Lower volume
C6	Higher volume

Adjusting the tempo using the TEMPO slider.

Use the TEMPO slider to adjust the tempo. The range is =40'200.

Numeric tempo input.

In some cases, the tempo may not exactly match the marking on the TEMPO slider. If you need to specify a precise tempo value, you can use the numeric input.

1. Hold down the METRONOME button.
2. Use the keyboard to input the three-digit tempo value (insert "0" before a two-number value).



Key	Number
C5	0
C#5	1
D5	2
D#5	3
E5	4
F5	5
F#5	6
G5	7
G#5	8
A5	9

For example, to select a tempo value of 168, keep the METRONOME button pressed, then press C#5(1), F#5, G#5(8). To select a tempo value of 85, keep the metronome button pressed, then press C5(0), G#5(8), F5(5).



4. OTHER FUNCTIONS

Selecting the time signature.

You can add an accent to the first beat of a measure.

Button	Time signature
PIANO 1	2 movements (2/4, 2/8 ...)
PIANO 2	3 movements (3/4, 3/8 ...)
E.PIANO 1	4 movements (4/4, 4/8 ...)
E.PIANO 2	6 movements (6/4, 6/8 ...)

1. While the metronome is working, keep the METRONOME button pressed and press the button that corresponds to the time signature you wish to use (see table above). The first movement of the measure will be accented.
2. To deactivate the accent, keep the METRONOME button pressed and press the sound selection button whose LED is lit.

■ NOTE: When the instrument is turned on, the accent is automatically disabled.

Selecting a bell for the accent.

The accented beat can be changed to a bell sound.

1. While the metronome is playing, hold down the METRONOME button, then press the VIBES/GUITAR sound selection button. The LED on the button will light, and a bell sound will be heard on the first beat of the bar.
2. To return to the normal accent, hold down the METRONOME button and press the HARPSI/CLAV sound selection button to switch on the LED on the HARPSI/CLAV button.

■ NOTE: When the instrument is turned on, the bell is automatically disabled.

TOUCH SETTINGS

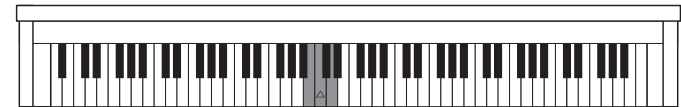
The keyboard sensitivity, or touch, can be programmed. Keep the TOUCH button pressed, and press the appropriate button to select one of the available touch settings.

Button	Touch sensitivity
PIANO 1/L	Light. Loud notes can be produced even by play lightly.
PIANO 2/M	Normal. Normal piano touch
E.PIANO 1/H	Heavy. Loud notes can be produced only by playing very hard.

To check the currently selected setting, hold down the TOUCH button, and look at which of the above LEDs is turned on.

■ NOTE: When the instrument is turned on, the touch setting is reset to Normal.

Alternatively, you can use the TRANSPOSE/FUNCTION button and the keyboard. Hold the TRANSPOSE/FUNCTION button, and press the key on keyboard that corresponds to the touch setting you wish to carry out (see table).



Button	Touch sensitivity
B3	Light. Loud notes can be produced even by play lightly.
C4	Normal. Normal piano touch
D4	Heavy. Loud notes can be produced only by playing very hard.

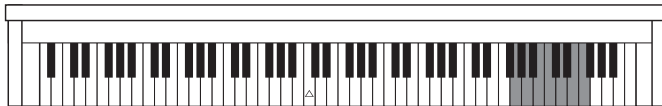


TRANPOSE

You can transpose the pitch of the instrument by one or more semitones higher or lower. This transposing allows you to easily tune the KD-26/27 to another instrument played together, or to simplify a music with too many sharps or flats.

NOTE: When the instrument is turned on, the transposing is reset.

1. Hold the TRANSPOSE/FUNCTION button, and press the key on keyboard that corresponds to the transpose you wish to carry out (see table). The TRANSPOSE/FUNCTION LED will remain lit up, to indicate that the transpose function is active.



Key	Effect
F#6 - B6	6 - 1 semitones below
C7	Standard pitch
C#7 - F7	1 - 5 semitones higher

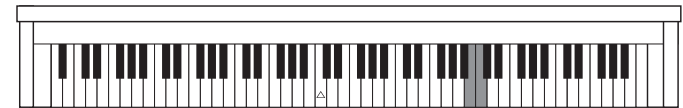
2. To get back to standard pitch, hold the TRANSPOSE/FUNCTION button and press the C7 key. The TRANSPOSE/FUNCTION LED will turn off.

FINE TUNING

In order to adapt the KD-26/27 pitch to that of another instrument you can adjust the pitch in steps of 0.5Hz over a range of A4=427.5 - 452.5Hz. The standard tuning is A4 = 440Hz.

NOTE: The pitch will go back to standard level (A4=440Hz) when the instrument is turned off, then on again.

1. Hold the TRANSPOSE/FUNCTION button, and press the corresponding key to change the pitch. Each time the B5 or C6 key is pressed, the pitch will be raised or lowered by 0.5Hz.
2. To get back to standard pitch, hold the TRANSPOSE/FUNCTION button and press the B5 and C6 buttons at the same time.



Key	Fine tuning
B5	Lowers the pitch by 0.5Hz
B5 + C6	Standard pitch (A4=440Hz)
C6	Raises the pitch by 0.5Hz



5. MIDI

SELECTING A TEMPERAMENT

There are numerous classical compositions that were composed using temperaments that differ from the "equal temperament" commonly used today. In order to reproduce the original sound of such compositions, the KD-26/27 provides Kirberger and Werckmeister classical temperaments, in addition to the equal temperament, allowing you to select from a total of three temperaments.

To select one of the available temperaments, hold down the TOUCH button, then press the button corresponding to the desired temperament. To return to the equal tuning hold down the TOUCH button, then press the sound selection button whose LED is lit.

Button	Temperament
HARPSI/CLAV	Werckmeister. This is the Werckmeister III Scale invented by Andreas Werckmeister, the German organist and music theoretician. This scale was created in the later Baroque period to allow relatively free transposition.
VIBES/GUITAR	Kirberger. This is the Kirberger III scale invented by Johann Phillip Kirberger in the early 18th century, and is used mainly for tuning harpsichords.
Both LEDs turned off	Equal temperament. Nearly all keyboard instruments today use equal temperament. This temperament spaces all semitones at equal distances, and allows identical scales to be played in any key.

To check the currently selected temperament, hold down the TOUCH button, and look at which of the above LEDs is turned on.

NOTE: When the power is turned on, the equal temperament will be automatically selected.

About stretched tuning.

In order to produce the most natural resonance, PIANO 1 and PIANO 2 sounds use a "stretched tuning" that makes the notes of the lower range slightly flatter than equal temperament, and the upper range slightly sharper. This is how an acoustic piano is normally tuned by professional tuners.

WHAT IS MIDI?

MIDI, is the abbreviation of Musical Instrument Digital Interface. It is an international standard that was created to connect and transfer data between electronic musical instruments, computers and other devices.

WHAT CAN YOU DO WITH MIDI?

Thanks to MIDI, you can use the KD-26/27 to control other instruments or use other instruments to control the KD-26/27, and use a sequencer to create complex musical pieces.

When you use the KD-26/27 keyboard or pedal, or select a sound, notes, pedal activation and change in sound are transmitted to another instrument, or are recorded by a sequencer.

CONNECTIONS

Always connect the MIDI OUT connector of the instrument to the MIDI IN connector of another instrument. Never connect two connectors of the same instrument to each other.

Connect the MIDI OUT connector of the transmitting (master) device to the MIDI IN connector of the receiving (slave) device.

To connect the KD-26/27 to a computer, you need a MIDI interface, the computer, sequencing or musical notation software, and two Standard MIDI cables. Connect the KD-20 MIDI OUT connector to the MIDI IN connector of the computer. Connect the KD-26/27 MIDI IN connector to the MIDI OUT connector of the computer.



STANDARD MIDI SETTINGS

When turning the instrument on, the MIDI parameters of the KD-26 are programmed as follows :

Parameter	Setting
Transmission channel	1
Reception channel(s)	All 16 (1-16)
Local	ON
Omni	ON

■ NOTE: When the power is turned on, channel 1 will automatically be selected.

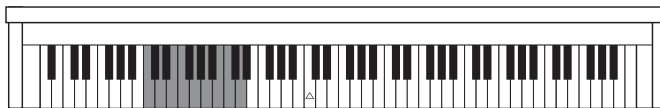
■ NOTE: By default, channel 10 will automatically be assigned to the metronome sound (notes D#5 - E5).

■ NOTE: In Layer mode, the second sound transmits on the following channel. For example, if you select channel 7, the first sound will transmit on channel 7, while the second sound will transmit on channel 8. If you select channel 16, the first sound will transmit on channel 16, while the second sound will transmit on channel 1 (cycling back to the first channel).

SELECTING THE TRANSMISSION CHANNEL

The standard MIDI has 16 separate channels available for transmission and reception of data. KD-26/27 always receives on all 16 channels, and transmits on a single channel. To transmit data from the KD-26/27, you need to choose which of the channels you wish to transmit data on.

Hold down the TRANSPOSE/FUNCTION button, and press the note in the range C2 - D#3 corresponding to the desired MIDI channel.



Key	Channel	Key	Channel
C2	1	C#2	2
D2	3	D#2	4
E2	5	F2	6
F#2	7	G2	8
G#2	9	A2	10
A#2	11	B2	12
C3	13	C#3	14
D3	15	D#3	16

USING THE KD-26/27 AS A MULTITIMBRAL TONE GENERATOR

When KD-26/27 is controlled from an external MIDI device, it can work as a 16-part multi-timbral tone generator. You can select a different sound on each of the 16 MIDI channels.

1. Use a MIDI cable to connect the KD-26/27's MIDI IN to the MIDI Out of a sequencer etc.
2. Transmit MIDI data from the connected sequencer (or other device). See "Program Change" on page 25 for instructions on how to select a sound using the MIDI Program Change message. Program Change reception should be activated of the KD-26/27.

Read the other devices user's manual for details on sending Program Change messages.

LOCAL ON/OFF

Local is the parameter that allows you to establish whether the keyboard has to play the internal sounds and transmit MIDI data at the same time (Local On), or whether it just has to transmit MIDI data and not play the internal sound (Local Off).

Local Off should be chosen when you wish to use the KD-26/27 as a remote keyboard, to play another instrument. It should be chosen also when KD-26/27 is connected to a sequencer via its MIDI IN and MIDI OUT connectors. This will avoid the notes to be played twice, by the keyboard and by the sequencer, producing an annoying "echo" effect.



Normally, you will choose Local On (automatically selected when turning the KD-26/27 on), so that playing the keyboard will produce sound.
 Hold down the TRANSPOSE/FUNCTION button, and press the PIANO 1 sound selection button. The Local setting will alternate to On/Off each time you press this button.

Local status	PIANO 1 LED status
Local On	Lit
Local Off	Dark

■ NOTE: When the power is turned on, the Local will be automatically set to On.

PROGRAM CHANGE

The sound of the KD-26/27 can be selected via MIDI, by sending a Program Change message on the channel where you wish to assign the sound. The table enlists the Program Change numbers (numbering from 0-29; if the transmitting device uses numbers from 1-30, you will need to increment the number by one).

Transmitting Program Channel messages.

You can send a MIDI Program Change message to a MIDI device connected to the KD-20 MIDI OUT, to change its sound. When selecting one of the internal sounds of the KD-20 by using the sound selection buttons, a MIDI Program Change number will be transmitted, as shown in the table below.

Receiving Program Change messages.

When a Program Change message is received from an external device, the corresponding internal sound will be selected on the KD-26/27, as shown in the following table. Only Program Change (PC) numbers in the range 0-29 have effect on the KD-26/27, while other numbers (30-127) are ignored.

PC#	Button	Bank	Sound
0	PIANO 1	1	Grand Piano 1
1		2	Bright Piano
2		3	Grand Piano 2
3	PIANO 2	1	Classic Grand Piano
4		2	Honky-Tonky
5		3	E. Grand Piano
6	E.PIANO 1	1	Stage E.Piano
7		2	Club E.Piano
8		3	Thin E.Piano
9	E.PIANO 2	1	Digital E.Piano
10		2	60's E.Piano
11		3	Vintage E.Piano
12	HARPSI/CLAV	1	Harpichord
13		2	Clav.
14		3	Wah Clav.
15	VIBES/GUITAR	1	Vibraphone
16		2	Marimba
17		3	Acoustic Guitar
18	ORGAN 1	1	Jazz Organ 1
19		2	Jazz Organ 2
20		3	Jazz Organ 3
21	ORGAN 2	1	Church Organ 1
22		2	Church Organ 2
23		3	Church Organ 3
24	STRINGS/PAD	1	Strings
25		2	Slow Strings
26		3	Warm Pad
27	CHOIR	1	Choir Hoo
28		2	Choir Doo
29		3	Choir Pad



Program Change enable/disable.

To transmit and receive this kind of data, you must enable Program Change messages transmission and reception. Otherwise, you can disable Program Changes data.

Hold down the TRANSPOSE/FUNCTION button, and press the PIANO 2 sound selection button. Each time you press the switch, the setting will alternate between Enabled and Disabled.

Program Change status	PIANO 2 LED status
Enable	Lit
Cancel	Dark

■ NOTE: When the power is turned on, program changes will be enabled for all MIDI channels.

CONTROL CHANGE

When you operate the damper pedal, adjust the balance in Layer mode, or make other adjustments on the control panel, a Control Change message is sent to a connected external MIDI device. At the same time, KD-26/27 can receive a Control Change message from an external MIDI device connected to its MIDI IN, to control the damper pedal, volume adjustment, and other data.

Control Change enable/disable.

To transmit and receive this kind of data, you must enable Control Change messages transmission and reception. Otherwise, you can disable Control Changes data.

Hold down the TRANSPOSE/FUNCTION button, and press the E.PIANO 1 sound selection button. Each time you press this button, the setting will alternate between Enabled and Disabled.

Control Change status	E.PIANO 1 LED status
Enable	Lit
Disabled	Dark

■ NOTE: When the power is turned on, Control Change messages will be enabled on all MIDI channels.

MIDI DATA DUMP

You can save the current sound settings(Single or Layer mode) on an external MIDI storage device, like a sequencer or a MIDI data file. You can later reload these data into the KD-26/27 to restore a saved set of data.

■ WARNING: To avoid losing data, read carefully read the owner's manual of your MIDI data file.

■ HINT: To avoid any trouble, don't forget to deactivate System Exclusive data reception on the connected device.

The following table shows which data are saved with the Data Dump.

Category	Data
Single mode	Reverb and chorus settings(on/off status, send level)
Layer mode	Reverb and chorus settings(on/off status, send level), balance between sounds, damper pedal on/off status for each sound.



6. APPENDIX

Saving data to the data filer.

Here is how to save the data of the KD-26/27.

1. Use a MIDI cable to connect the KD-26/27 MIDI OUT to the MIDI IN of the data filer.
2. Prepare the data filer to receive MIDI data.
3. On the KD-26/27, hold down the TRANSPOSE/FUNCTION button, and **pre**se VIBES/GUITAR sound selection button. The LEDs of the TRANSPOSE/FUNCTION and VIBES/GUITAR buttons will blink, indicating that the KD-26/27 is ready to **trans**mit the data dump.
4. Press th TOUCH button. The data dump will begin, and the sound setting data will be transmitted to the data filer.

During a data dump operation, the KD-26/27 will not produce sound and no other function will work. When the data dump is completed, you will return to normal playing condition. You may cancel a data dump operation before the data dump begins, by pressign the TRANSPOSE/FUNCTION or VIBES/GUITAR button.

Loading data from the data filer.

You can load into the KD-26/27 data you previously saved on a **data** filer.

1. Use a MIDI cable to connect the MIDI IN of the KD-26/27 to the **MIDI** OUT of the data filer.
2. On the KD-26/27, hold down the TRANSPOSE/FUNCTION button and **pre**se VIBES/GUITAR sound selection button. The LEDs of the TRANSPOSE/FUNCTION and VIBES/GUITAR buttons will blink, and the KD-26/27 will wait to receive the **data** dump.
3. Set the data filer to send the sound setting data that were previously saved from the KD-26/27. Please read the data filer owner's manual for details **data** transmission.

The KD-26/27 will receive the data.

When the data dump is finished, the KD-26/27 will return to the **normal** status it was before the data dump.

During a data dump operation, the KD-26/27 will not produce sound and no other function will work. When the data dump is completed, the LED of the TOUCH button will go dark, and you will return to normal playing condition.

You may cancel a data dump operation before the data dump begins, by pressing the TRANSPOSE/FUNCTION or VIBES/GUITAR button.

TROUBLESHOOTING

If during use any of the following problems should occur, carefully examine the instrument to see if you can find out what the problem is, and try resolving it by following the suggestions below. If the instrument will still not function properly refer to your dealer or to an Authorized Samick Service Center.

Problem	Possible remedy	Page
The instrument will not turn on.	Check that the AC cord is correctly connected to the piano and the outlet.	9
No sound.	(1) Make sure that the volume is not set on 0. If it is, bring it up to an adequate level.	11
	(2) Make sure that the MIDI Local function is not set on OFF. If it is, set it to ON (or turn the instrument off and then on again).	24

POLYPHONY

The KD-26/27 contains sampled sounds, which have been recorded, **analy**zed and processed from the actual sounds of the original musical instruments. These sounds usually consist of one or more different samples reproduced by pressign a key.

Sounds made of just one samples have a full polyphony of max. 60 voices, while sounds made of two samples have a limited polyphony of max. 30 notes. Therefore, when the number of sounding notes exceeds the limits, the sound will become discontinud.

Furthermore, when playing in Layer mode with more than two notes, the max. polyphony depends on how many samples are used in total. Using the REVERB, CHORUS further reduces the polyphony, respectively, by 10 and 3 notes.



TECHNICAL SPECIFICATIONS

Specifications	KD-26/27
Keyboard	88 notes, velocity sensitive, with weighted hammer-action simulation
Touch selection	Light, Normal, Heavy
Tuning	Transpose, fine tuning, temperament (Equal, Kimberger, Werckmeister)
Sound generation	Stereo PCM System
Polyphony	60 notes(max). The use of 2-oscillator sounds, the Layer mode and/or the reverb or chorus reduces the maximum number of simultaneous notes.
Sounds	30 Sounds in ROM
Effects	Reverb, Chorus (3 levels each)
Demo	30 incorporated demos
Metronome	Tempo, Time signature, Accent and Volume controls
Pedal	Soft, Sostenuto and Sustain
Connections	Line output(L/MONO, R), Headphones, MIDI (IN, OUT)
Controls	Power switch, Master Volume, Reverb, Chorus, Touch, Transpose/Function, Bank, Sound selector, Tempo, Metronome, Demo
Power supply	AC local voltage
Power consumption	50 Watt
Dimensions (WxDxH)	1377 x 484 x 850mm
Weight	55kg
Main amp power output & speaker	KD-26: 25W x 2 (Stereo), 2 Speakers (5" x 2) 30W 8 Ohm KD-27: 40W x 2 (Stereo), 2 Speakers (8" x 2) 60W 8 Ohm

Sounds processed with INFINITY™.

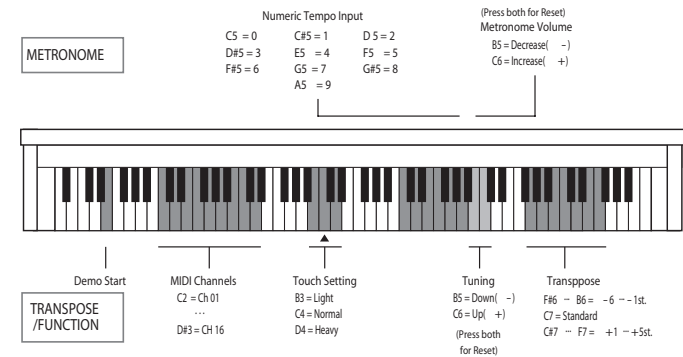
Samick reserves the right to change the specifications without notice.

CONTROL PANEL SHORTCUTS

<small>while pressing this one Keep this button pressed.</small>	PIANO 1	PIANO 2	E.PIANO 1	E.PIANO 2	HARPSI/CLAV
REVERB	Depth=Low	Depth=Medium	Depth=High		
CHORUS	Depth=Low	Depth=Medium	Depth=High		
TOUCH	Light	Normal	Heavy		Werckmeister
METRONOME	Time:2/4	Time:3/4	Time:4/4	Time:6/4	Accent
TRANPOSE/FUNCTION	Local On/Off	Prq.Change Rx/Tx	CrI.Change Rx/Tx		
<small>while pressing this one Keep this button pressed.</small>	VIBES/GUITAR	ORGAN 1	ORGAN 2	STRINGS/PAD	CHOIR
REVERB					
CHORUS					
TOUCH	Kimberger				
METRONOME	Bell sound			Metro Vol. Dec.	Metro Vol. Inc.
TRANPOSE/FUNCTION	Data Dump				

CONTROL PANEL AND KEYBOARD

The following diagram shows the various functions you can access by holding the METRONOME or TRANPOSE/FUNCTION button down, while pressing one of the notes on the keyboard.



7. ASSEMBLING THE KD-26/27 STAND

MIDI IMPLEMENTATION CHART

KOHLER KD-26/27 Digital Piano
May. 11. 2002

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1-16	-- 1-16	
Mode	Default Messages Altered	X *****	X	
Note Number	True Voice	15-113 *****	0-127 21-108	
Velocity	Note On Note Off	O 9n, V=1-127 X	O 9n, V=1-127 X	
Aftertouch	Poly(Key) Mono(Channel)	X X	X X	
Pitch Bend		X	μ	
Control Change	7	μ	μ	Volume
	11	X	μ	Expression
	64	μ	μ	Sustain Pedal *1, *3
	66	X	μ	
	67	X	μ	Soft Pedal *1
	91	μ	μ	Reverb send, *1
	93	μ	μ	Chorus send *1
120, 121	X	μ	All Sound Off, Reset All Ctrl's	
Program Change	True #	0-99 *****	0-29 0-29	*2
System Exclusive		μ	μ	Device Inquiry Sound Data Dump
System Common	:Song Position	X	X	
	:Song Select	X	X	
	:Tune	X	X	
System Real Time	:Clock	X	X	
	:Commands	X	X	
Aux Messages	:Local On/Off	X	μ	
	:All Notes Off	μ	X	
	:Active Sensing	μ	μ	
	:Reset	X	X	
Notes	*1 : Transmitted/received when Control Changes are enabled *2 : Transmitted/received when Program Changes are enabled *3 : Half-pedal input/output value(0, 38, 74, 127)			

Mode 1 : OMNI ON, POLY
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO
Mode 4 : OMNI OFF, MONO

μ : Yes
X : No

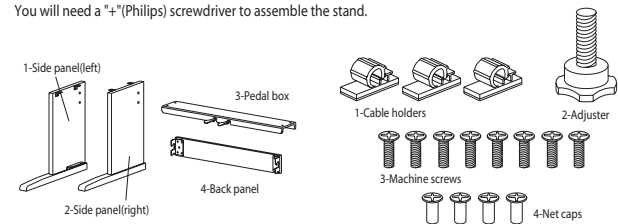
CAUTION

- Use two or more people to place the piano on the stand.
- When placing the piano on the stand, be careful not to pinch your hand.
- Be sure that the correct parts are assembled in the correct orientation, and follow the steps in the order that they are given.
- If you apply weight to the front edge of the piano before tightening the screws, the piano may fall down.

1. Open the packing carton and remove the contents.

Check that all of the following items are present.

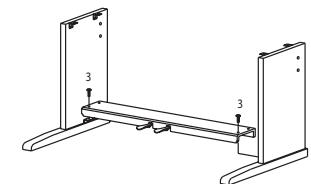
You will need a "+"(Philips) screwdriver to assemble the stand.



2. Attach the 1-Side panel(left) and 2-Side panel(right) to the 3-Pedal box, and use four 3-Machine screws, to fasten them.

Screw the 2-Adjuster all the way into the 3-Pedal box.

Pull out the pedal cable.

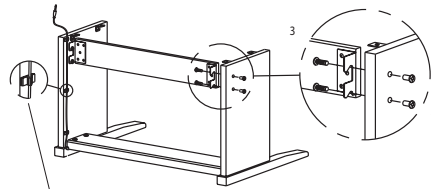


3. Attach the back panel

Check that all of the following items are present.
You will need a "+"(Philips) screwdriver to assemble the stand.

Use four 3-Machine screws and four 4-Net cap to fasten the 1-Side panel(Left), 2-Side panel(Right) and the 4-Back panel.

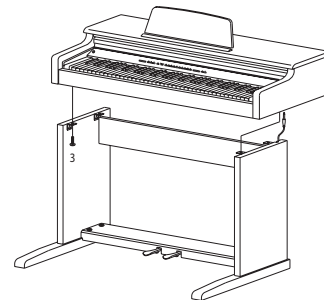
At this time, make sure that there are no gaps in the stand, and that it does not tilt.



Use the three 1-Cable holders to fasten the pedal cable.

4. Attach the piano.

Place the piano on the stand so that the wood feet on the bottom of the piano fit into the holes in the side panel brackets. From below, use four 3-Machine screw to fasten the piano to the stand.

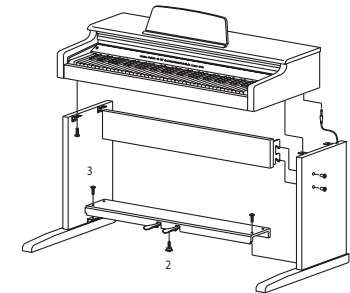


- Rotate the adjuster so that it firmly contacts the floor.
If the adjuster is not in firm contact with the floor, the pedal will wobble and cause malfunctions.

5. Connect the pedal cable, and fasten them.

Insert the pedal cable connector into the pedal connector located on the bottom of the piano. Be sure that the connector is inserted in the correct orientation.

Use the three 1-Cable holders to fasten the pedal cable.



- Place the piano at a distance from the wall, so that the powersupply cable on the back panel is not strained.

CHECK AFTER ASSEMBLY

- Are any parts left over?
If any parts are left over, check the diagrams to see where they should be used.
- Are any of the assembly screws loose?
Make sure that all screws are tight.

CAUTION

- **Caution when moving**
Take the piano off the stand, and transport the stand and piano separately. After moving them refer to this manual, and re-assemble the stand and piano.
- **Loosened screws**
After the stand and piano are assembled, the screws of the stand may become loose after extended use, causing the stand to wobble. If this occurs, re-tighten each of the screws in the stand.
- **Disassembly**
To remove the piano and disassemble the stand, reverse the order of assembly. After disassembly, store all parts such as the screws so that they will not be lost.



Notes

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