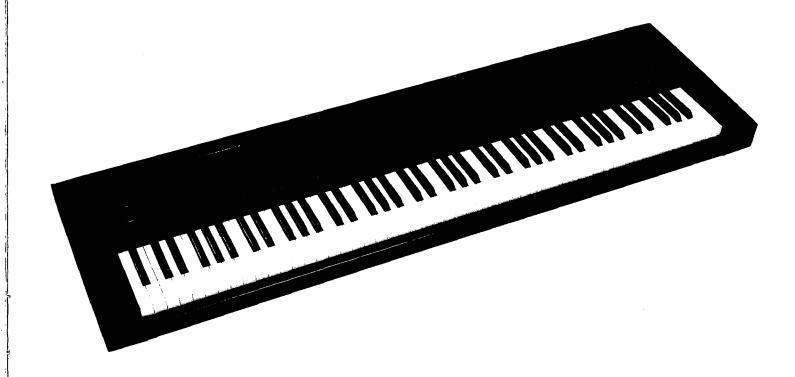
SAMPLING GRAND OWNER'S MANUAL



KORG®

Thank you and congratulations on your choice of the KORG SG-1D/SG-1 Sampling Grand. To obtain optimum performance and long service life from your new SG-1D/SG-1, please read this owners manual carefully before use.



MAIN FEATURES OF THE SG-ID/SG-I

The SG-1D and SG-1 utilize high resolution 12 bit sampling, allowing extremely realistic sound performance not possible with conventional electronic pianos. Four preset piano voices ... 2 acoustic and 2 electric ... are built in. A fifth preset voice is accessed via easily changed optional ROM Memory Cards, for virtually unlimited sound reproduction capabilities.

The SG-1D/SG-1's weighted touch sensitive keyboard rivals that of an actual acoustic piano. Dynamic response can be varied over 8 different settings, to match the keyboard's response to your own touch.

Features a built-in Pitch Bend and Modulation wheels. Also transmits Velocity, Program Change, Sustain and Aftertouch (SG-1D only), making the SG-1D/SG-1 a highly versatile master keyboard in a MIDI setup.

Features built-in 3-band EQ plus Brilliance control, allowing fine-tuning of timbre and tone quality. Built-in Stereo Digital Chorus adds full, rich ambience.

SPECIFICATIONS AND OPTIONS

Specifications

• **Keyboard** : SG-1D 88 keys-full keyboard SG-1 76 keys-E1 to G7

• Sound Source : 12 bit Sampling stored in ROM

memory : 12

Number of notes

• Controls : MIDI (Pitch Bend, Modulation),

Volume, Equalizer (Bass, Mid-Range, Treble), MIDI (SG-1D) or MIDI/TRANSPOSE (SG-1), Preset Sound Select (Piano I, Piano II, E. Piano I, E. PianoII, Card), Brilliance, Chorus (On/Off, Depth, Speed), Tune, Dynamics,

MIDI Channel

(Receive/Transmit).

• Output jacks : Output (L/Mono, R-Low/High

Switch), Headphones

• Control Inputs : Damper, MIDI (In-Out-Thru),

ROM Memory Card Slot

Supplied Accessories

Dimensions

Weight

: Connection Cord, Damper Switch

(DS-1), AC Voltage Cord : (SG-1D) 1370mm(W) ×

400mm(D) × 123mm

(SG-1) 1205mm(W) × 400mm

(D) × 123mm

: (SG-1D) 33.7kg. (SG-1) 29kg. Options

: ROM Memory Card (SGC-01 Harpsichord, SGC-02 Clavinette, SGC-03 Guitar/Bass, SGC-05 Harp), Headphones (KH-1000),

Hard case: HC-SGD (SG-1D), HC-SG (SG-1), MIDI Cable (7m, 10m,

12m)

* Specifications subject to change without notice.

N O T I C E

Korg products are manufactured under strict specifications and voltages required by each country. These products are warranted by the Korg distri-

butor only in each country. Any Korg product not sold with a warranty card or carrying a serial number disqualifies the product sold from the manufacturer's/distributor's warranty and liability. This requirement is for your own protection and safety.

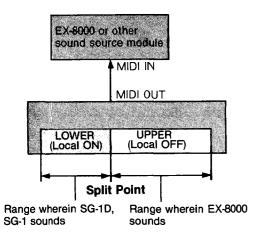
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■SPLIT KEYBOARD FUNCTION

The SG-1D/SG-1 allows you to play different sounds from different parts of the keyboard using both internal sounds and external MIDI units via the SPLIT KEYBOARD and LOCAL CONTROL ON/OFF functions. The split point can be set anywhere on the keyboard. The user can also select which section (s) play internal sounds and which play external units. In the following example, the Upper section is set to LOCAL CONTROL Off, and thus controls the connected EX-8000 synthesizer module via MIDI only. The Lower section plays the SG-1D/SG-1's internal sounds, and does NOT transmit data over MIDI.

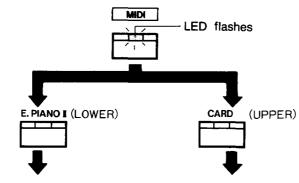
Split Example (Upper unit is at Local Off)



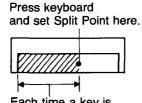
 The relationship between internal sounds and external MIDI units is shown in the following diagram:

OPERATING PROCEDURE FOR SPLIT KEYBOARD FUNCTIONS

① Press and hold together MIDI (MIDI/TRANSPOSE) button and either E. PIANO II (Lower section) or CARD (Upper section) button. MIDI LED indicator will flash; E. PIANO II/CARD LED indicator will change status.

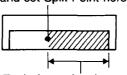


- ② Set the desired Split Point by pressing a key. (This will also cause the E. PIANO or CARD LED Indicator to change back to its original status)
- When pressing E. PIANO II
 When pressing CARD (Upper),



Each time a key is depressed, the Local On/Off mode is alternated.





Each time a key is depressed, the Local On/Off mode is alternated.

INTERNAL SG-1D SOUNDS	MIDI TRANSMISSION	LEDS	EXPLANATION OF DIFFERENT LOCAL ON/OFF MODES
U + L Output from both Upper and Lower	U + L Upper and Lower both transmit	-Lights-	Both sections play internal sounds AND transmit to external MIDI devices. (This mode is automatically selected when the SG-1D/SG-1 is first turned on.)
U Output from Upper only	L Only Lower transmits	Lights—	Upper section is playing internal sounds ON- LY; Lower section is transmitting to external MIDI devices ONLY:
L Output from Lower only	Only Upper transmits	Lights	Lower section is playing internal sounds ON- LY; Upper section is transmitting to external MIDI devices ONLY.
No output	U + L Upper and Lower both transmit	No Lights	Both sections transmit to external MIDI devices ONLY (no internal sounds are produced by playing SG-1 keyboard).

NOTE:

Internal sounds can always be played by external devices over MIDI, regardless of LOCAL On/Off settings. Keyboard and Damper Footswitch will have No effect on sounds thus produced.

SG-1D/SG-1

IMPORTANT SAFETY PRECAUTIONS

■ LOCATION:

To avoid malfunction, do not use this unit in the following locations for long periods of time.

- In direct sunlight.
- Exposed to extremes of temperature or humidity.
- in sandy or dusty places.

■ POWER SUPPLY:

- Use only with rated AC voltage. If you will be using this unit in a country having a different voltage, be sure to obtain the proper transformer to convert to the rated voltage.
- To help prevent noise and degraded sound quality, avoid using the same outlet as other equipment or branching off extension cords shared by other equipment.

■ PREVENTING ELECTRICAL INTERFERENCE:

The SG-1D and SG-1 uses sophisticated digital microcomputer circuitry. Like all such devices it is subject to interference from nearby electrical devices (TV, radio, etc.). For best performance, operate the SG-1D/SG-1 at a distance from these other devices.

■ HANDLE WITH CARE:

All controls are designed to provide positive operation with a gentle touch. Do not use force.

CLEANING:

If necessary, wipe the exterior of this unit with a soft, dry cloth. Never use volatile cleaning agents such as benzine, alcohol, or flammable polishes.

■ KEEP THIS MANUAL:

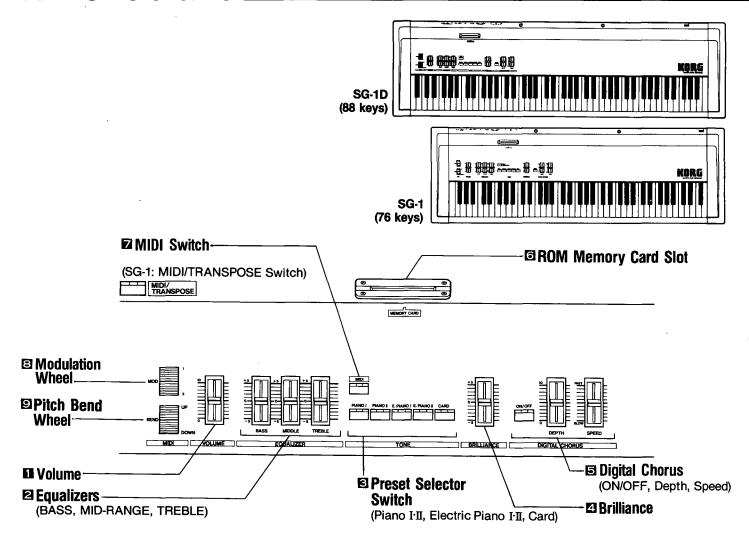
For future reference, please keep this manual in a safe place.

CONTENTS

FEATURES

1. Front Panel	4
2. Rear Panel/Connections Procedures	6
THE SG-ID, SG-1 MIDI FUNCTIONS	8
SPECIFICATIONS AND OPTIONS	11

1. Front Panel.



III VOLUME

Slider

EQUALIZERS (BASS, MID-RANGE, TREBLE)

- Sliders
- Bass: controls low frequencies.
- Mid-range: controls mid range frequencies.
- Treble: controls high frequencies.

EI PRESET SELECTOR SWITCHES (PIANO I. II. ELECTRIC PIANO I. II, CARD)

Pressing one of these buttons activates the corresponding internal or ROM card voices.LED indicator confirms selection.

23 BRILLIANCE

DIGITAL CHORUS (ON/OFF, DEPTH, SPEED)

Controls the "ambience" of the SG-1 sounds.

- Controls brightness and clarity of sounds.
- Transmits Pitch Bend information to external devices via ON/OFF: Turns the chorus effect ON and OFF.

- DEPTH: Controls depth of modulation of chorus
- SPEED: Determines the modulation speed of the chorus effect.

図 ROM MEMORY CARD SLOT

Specially designed Korg SG-1D/SG-1 Memory Cards are inserted in this slot to change sounds

MIDI (SG-1: MIDI/TRANSPOSE) SWITCH

Accesses SG-1D/SG-1 internal MIDI functions. (Also transposes keyboard on SG-1). Additionally, resets all internal functions in case of interference by external MIDI devices.

B MODULATION WHEEL

Transmits Modulation Information (two types) to external devices via MIDI. (Internal sounds are not affected.)

PITCH BEND WHEEL

MIDI. (Internal sounds are not affected.)

SETTING THE MIDI TRANSMIT/RECEIVE CHANNELS

TRANSMIT CHANNEL

This switch determines which MIDI channel (1-16) the SG-1D/SG-1 will transmit MIDI data on. Only the designated channel will be used.

• RECEIVE CHANNEL

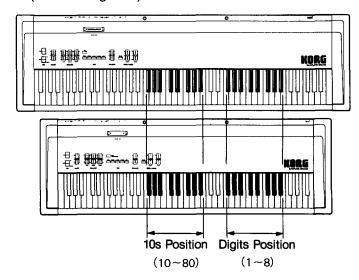
This switch determines which MIDI channel the SG-1D/SG-1 will receive MIDI data on when in the OMNI OFF mode. Only the designated channel will be recognized (in OMNI Off). In OMNI On mode, the SG-1D/SG-1 will receive MIDI data on all channels, regardless of the setting of the RECEIVE CHANNEL switch.

NOTE:

Immediately after turning power source On, the Omni Mode goes ON.

■TRANSMITTING PROGRAM CHANGE **INFORMATION**

The SG-1D/SG-1 can select programs of external devices over MIDI. Selection is accomplished by depressing keys on the keyboard, as described below (see also diagram...)



NOTE:

The Korg SG-1D/SG-1 supports program numbering systems based on "8," which is compatible with many different synthesizer manufacturers. Other types of synthesizers may use different program numbering systems, such as decimal numbering systems. Program numbers 11-88 on Korg equipment translate to program number 1—64 on decimal systems.

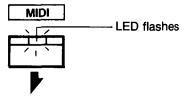
MIDI CHANNEL **TRANSMIT**





HOW TO SELECT PROGRAMS OVER MIDI (Example: to select Program # 27 on an **EX-8000)**

① Press and hold the MIDI (MIDI/TRANSPOSE) Button (LED flashes).



2 Select the Bank Number (left hand digit) corresponding to "2" by pressing the designated key (see diagram).



3 Select the Program Number (right hand digit) corresponding to "7" by pressing the designated key (see



Program "27" on any attached MIDI devices is selected

THE SG-1D, SG-1 MIDI FUNCTIONS

■ SG-1D/SG-1 MIDI DATA

TRANSMITTED DATA	RECEIVED DATA
Note Off	Note Off
Note On	Note On
Control Change	Control Change
No. 1 Modulation 1 (Vibrato)	No. 7 Volume
No. 2 Modulation 2 (Filter Tremolo)	No. 64 Damper Pedal (Sustain) Footswitch
No. 64 Damper Pedal (Sustain) Footswitch	No. 66 Sostenuto
Program Change	No. 67 Soft Pedal
Channel Pressure (Aftertouch SG-1D only)	Program Change
Pitch Bend	All Notes OFF
	Local On/Off
	Omni Mode Off
·	Omni Mode On
Active Sensing	Active Sensing

■ MIDI PARAMETERS/FUNCTIONS

The follwing SG-1D/SG-1 MIDI related functions can be accessed by pressing one of the PRESET SOUND SELECTOR Buttons while holding the MIDI (MIDI/TRANSPOSE) button:

PROGRAM CHANGE

Determines whether program change information from external MIDI devices will be accepted. (The SG-1D/SG-1 recognizes program numbers 1 through 5 only.)

OMNI MODE

Determines whether the SG-1D/SG-1 will receive MIDI information from all MIDI channels (OMNI On) or from one specific channel (OMNI Off).

DAMPER PEDAL OUTPUT

Determines whether the SG-1D/SG-1's Damper pedal status will be transmitted over MIDI or not.

●LOCAL CONTROL ON/OFF (UPPER, LOWER)

Determines whether the SG-1D/SG-1's Keyboard will control the internal sounds (LOCAL On) or whether the internal sounds will be controlled exclusively over MIDI (LOCAL Off). These switches also allow a split keyboard function, with separate control of each section.

NOTE

The MIDI (MIDI/TRANSPOSE) Switch will not operate when keys are pressed or when the Damper Footswitch is held down.

SETTING MIDI PARAMETERS

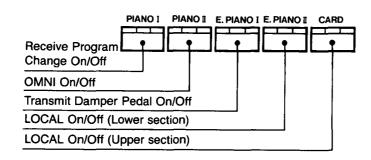
① Depress and hold the MIDI (MIDI/TRANSPOSE) button.
The LED indicator flashes.

MIDI



LED flashes

② Press one of the five PRESET SOUND BUTTONS to turn on or off the desired MIDI function (see table below). The corresponding LED indicates the status of the selected function.



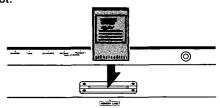
★ When power is first turned on, all of the above MIDI functions are set to their "On" status.

EROM MEMORY CARDS

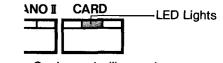
Korg's exclusive ROM Memory Card system allows the user to access any number of sounds in addition to those built-in. A large and growing library of new sounds for your SG-1D and SG-1 can be found at your Korg dealer.

OPERATION OF ROM MEMORY CARD

① Insert ROM Memory Card firmly into the Memory Card slot.



② Depress the "CARD" Preset Selector Button.



Memory Card sound will now play.

■KEY TRANSPOSE (SG-1 only)

The SG-1 allows the user to transpose the Keyboard above and below Cover a total range of one octave. Key Transpose affects both internal sounds and instruments interfaced via MIDI.

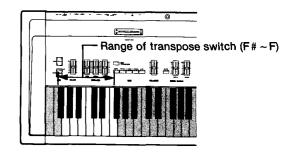
OPERATION OF KEY TRANSPOSE

① Depress and hold the MIDI/TRANSPOSE Button.
The LED indicator flashes

LED flashes

MIDI/
TRANSPOSE

2 Press a key in the indicated keyboard range.



③ MIDI/TRANSPOSE LED lights steadily, indicating transposition.

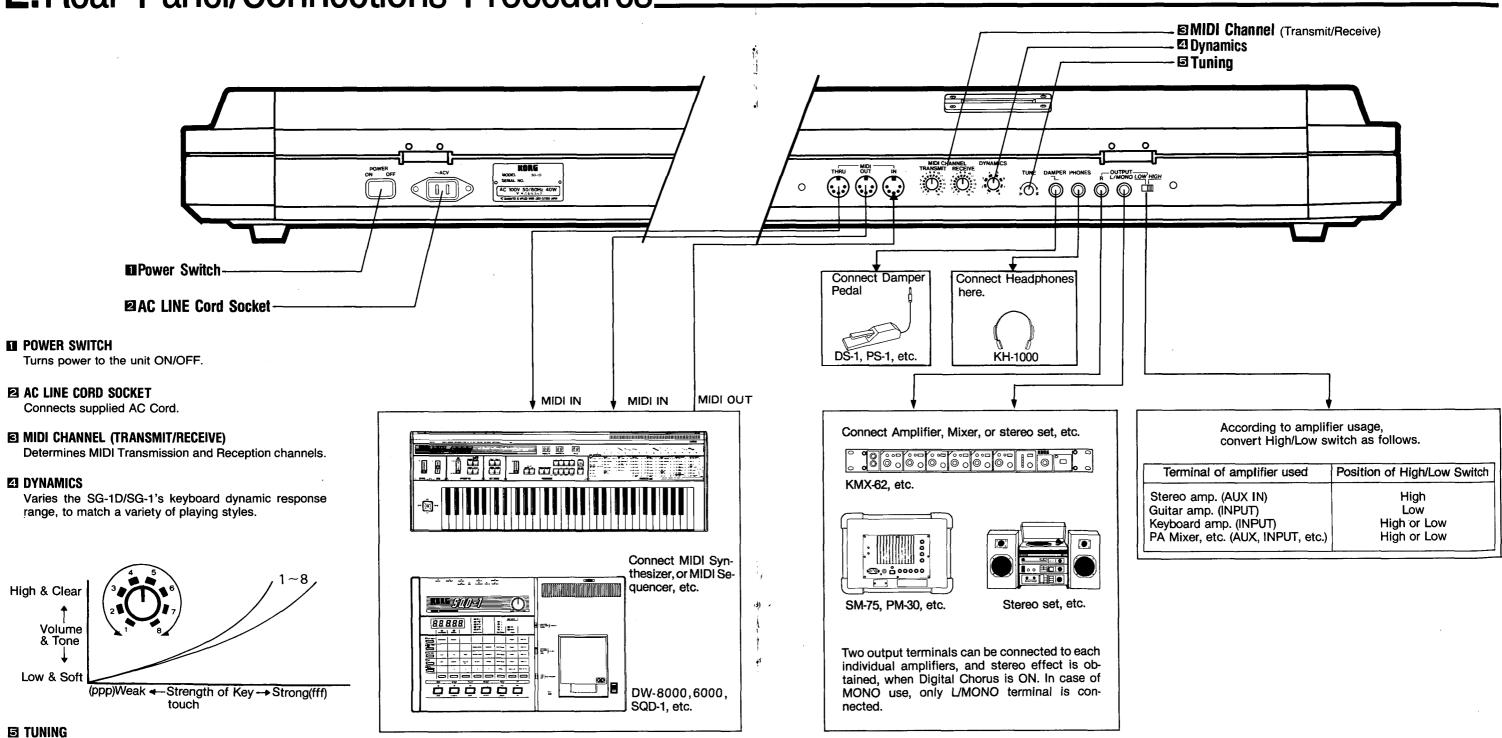


To discontinue Transpose function, depress MIDI/TRANSPOSE and "C" simultaneously. Transpositions are relative to C.

Thus, to transpose the SG-1 up three semitones, Eb is depressed; to transpose down 5 semitones, G is depressed.

8

2. Rear Panel/Connections Procedures



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Low

High

Controls the SG-1D/SG-1's overall tuning. Turning it to the left lowers pitch; turning it to the right raises pitch.

SAMPLING GRAND SG-1D MIDI IMPLEMENTATION CHART

FI	Unction	Transmitted	Recognized	Remarks	
Basic	Default			Depends on Ch sw setting	
Channel	Changed	1~16 1~16	1~16 1~16	Depends on on sw setting	
	Default	3	1	+	
Mode	Messages	×	OMNI ON/OFF		
	Altered	******			
Note		21—108	0—127		
Number:	True voice	********	21—108		
Velocity	Note ON	○ 9nH v=1—127	\circ v=1-127		
	Note OFF	× 8nH v=64	×		
After	Key's	×	×		
Touch	Ch's	0	×		
Pitch Bende	er 	0	×		
Control	1	0	×	MOD1	
Change	2	0	×	MOD2	
	7 .	×	0	VOLUME	
	64	0	0	DAMPER See Note 1	
	66	×	0	SOSTENUTO	
	67	×	0	SOFT PEDAL	
Prog		○ 0—63	O 0—4	See Note 2	
Change	:True #	*****	0—4		
System Exc	lusive	×	×		
System	: Song Pos	×	×		
	: Song Sel	×	×		
Common	: Tune	×	×		
System	: Clock	×	×		
Real Time	: Commands	×	×		
Aux	: Local ON/OFF	×	0		
	: All Notes OFF	×	\circ		
Messages	: Active Sence : Reset	O ×	O ×		
Notes	1	Transmitted when DAMPER is	ENABLED.		
3.3.00	2	Received when program change is ENABLED.			
			· ·		

Mode 1: OMNI ON, POLY Mode 3: OMNI OFF, POLY Mode 2: OMNI ON, MONO Mode 4: OMNI OFF, MONO O: Yes x: No

SAMPLING GRAND SG-1 MIDI IMPLEMENTATION CHART

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1~16 1~16	1~16 1~16	Depends on Ch sw setting
Mode	Default Messages Altered	3 × *******	1 OMNI ON/OFF	
Note Number :	True voice	22108	0—127 21—108	
Velocity	Note ON Note OFF	9nH v=1—127× 8nH v=64	○ v=1—127 ×	
After Touch	Key's Ch's	×	× ×	
Pitch Bend	er	0	×	
Control Change	1 2 7 64 66 67		× × 0 0 0	MOD1 MOD2 VOLUME DAMPER See Note 1 SOSTENUTO SOFT PEDAL
Prog Change	:True #	O63 ******	○ 0—4 0—4	See Note 2
System Exc	clusive	×	×	
System	: Song Pos : Song Sel : Tune	× × ×	× × ×	
Common		,		1
Common System Real Time	: Clock : Commands	×	×	ţ }
System		1		·

Mode 1: OMNI ON, POLY Mode 3: OMNI OFF, POLY Mode 2: OMNI ON, MONO Mode 4: OMNI OFF, MONO