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SPECIFICATIONS

Keyboard:	32 keys, F-scale
VCO:	Range; 16', 8', 4', 2' Pulse width modulation; 50% to Min. PWM mode switch; ENV/MANUAL/LFO Modulation depth Tune; ±50 cents
Source Mixer:	⊓ level ◿ level Sub-oscillator level Sub-oscillator waveforms; 1 OCT DOWN⊓/2 OCT DOWN⊓/2 OCT DOWN⊓ Noise level
VCF:	Cut-off frequency; 10Hz to 20kHz Resonance; 0 to Self-oscillation ENV depth Modulation depth Key follow; 0 to 100%
VCA:	Control signal selector switch; ENV ◺ /GATE ⊓
ENV:	Attack time; 1.5ms to 4s Decay time; 2ms to 10s Sustain level; 0 to 100% Release time; 2ms to 10s Gate trigger selector switch; GATE + TRIG/GATE/LFO
Modulator:	LFO/CLK Rate; 0.1Hz to 30Hz LFO/CLK Rate indicator Waveforms: ∿ /⊓/RANDOM/NOISE
Controller:	Volume Portamento time; 0 to 3s Portamento mode switch; AUTO/OFF/ON
	Octave transpose; L/M/H Bender sensitivity (VCO) Bender sensitivity (VCF) LFO∿Modulation depth Bender lever (LFO Modulation switch)
Sequencer: (100 Steps MAX)	Load button and indicator Play button and indicator
Arpeggio:	UP button and indicator U and D buttons and indicator DOWN button and indicator
HOLD:	HOLD button and indicator
Key Transpose:	Key Transpose button and indicator
Power Source:	Power switch Indicator
Connection Jacks:	Output jack; 0dBm MAX. Headphone jack; Stereo 8Ω to 15Ω CV output jack; 1V/1 OCT. 0.415V to 5V GATE output jack; OFF: 0V, ON: 12V CV input jack; 1V/1 OCT. 0 to 7V GATE input jack; ON at +2.5V over Pedal HOLD jack (DP-2) External clock input jack; Step at more than +2.5V pulse DC input jack (9V to 12V/exclusive adaptor PSA series) Connecting jack for Modulation Grip
Power supply:	9VDC (6 UM-2 or PSA series adaptor)
Dimensions:	570(W) x 80(H) x 311(D)mm (22.4" x 3.15" x 12.2")
Weight:	4.1kg (9.02 lbs.) (w/o batteries)
Accessories:	2.5m connection cord, BR-2 x 3

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

OPTIONS

MGS-1 (SH-101 Modulation Grip Set)

To play the SH-101 while standing up, attach the strap pins to the SH-101. When the MG-1 is used, the Bender and LFO modulation can be controlled at a single touch.



●BENDER
With this option, you can use the Bender only in an upward direction, as you might when "choking" a guitar. The degree of Bender effect is controlled by the "Bend Sensitivity" of the SH-101. The bender lever of the SH-101 can also be used.

● ∿ LFO Modulation Button
When this button is pressed, LFO waveform modulates the VCO and VCF. Combined use of this button with the Bender can produce a choking and vibrato effect.

●Contents: MG-1 (Modulation Grip) x 1, Strap x 1, Strap pins x 2

AC ADAPTOR
PSA series



BATTERY
BR-2
(UM-2 x 2)



UM-2 Dry cell battery

HEADPHONES
RH-10



PEDAL SWITCH
DP-2



CONNECTION CORD
PCS-4



(Mini plug ↔ Standard plug)
Convenient for connection with other musical instruments of standard plug specifications.
1.6m x 2 (Green: 1, Brown: 1)

CARRYING CASE
SC-101



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Roland

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WE DESIGN THE FUTURE

SH-101
MONOPHONIC SYNTHESIZER



Electronic Musical Instruments

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MONOPHONIC SYNTHESIZER SH-101

Despite its small size, the high cost-performance SH-101 Monophonic Synthesizer has outstanding features comparable to those of larger synthesizers.

- The Source Mixer is capable of mixing ⊓⊔, ⟋1, sub-oscillator, and noise at any rate you desire for sound creation well beyond the scope of a single VCO.
- The built-in Digital Sequencer allows automatic playing of up to 100 steps. The SH-101 doubles as a synthesizer and digital sequencer.
- The auto-arpeggio function performs arpeggios by a simple press of the chord.
- The Key Transpose function lets the player transpose to any key, so the range of performance is substantially expanded.
- Octave Transpose can shift the range by one octave higher or lower.
  By combined use of the Key Transpose, VCO, and sub-oscillator range, a sound range of more than 11 octaves is obtained.
- In addition to the conventional portamento, an automatic portamento is provided, which operates only during legato playing.
  Portamento control while playing is easy.
- There are also CV/GATE Input/Output jacks and an external Clock Input jack which make possible a variety of performances in combination with other musical instruments.
- The 2-way (DC/AC) power supply system enables you to play the SH-101 anywhere.
- It's also compact, lightweight (4.1kg), and easy to carry.
- With an optional MGS-1 (Modulation Grip Set designed exclusively for the SH-101), Bender operation and LFO Modulation ON/OFF are easy to control. Playing is also possible in a standing position using Strap Pins.

●VCO Section

This section constantly oscillates two kinds of waveforms (⊓⊔, ⟋1) and offers four different sound ranges: 2', 4', 8' and 16'. The waveform ⊓⊔ can be controlled by "LFO", "MANUAL" and "ENV" signals. When MANUAL mode is selected, pulse width can be fixed at a certain level. When set to LFO or ENV, pulse width is controlled by the corresponding signal from the LFO or envelope generator. When PWM mode switch is set to MANUAL, this knob controls the pulse width, and when it is set to LFO or ENV, it controls the intensity of the modulation.

●SOURCE MIXER Section

The Source Mixer section allows you to mix the outputs from the VCO section in any way you want. Sliders are provided to set the desired level. The SUB OSC switch in this section lets you choose from three kinds of output waveforms from the sub-oscillator (⊓⊔1 OCT DOWN, ⊓⊔ 2 OCT DOWN and ⊓⊔ 2 OCT DOWN).

●VCF Section

Cut-off point control is controlled by the "ENV. MOD", and is adjusted by sliders. When the cut-off point is controlled by the KCV (Keyboard CV), Key follow adjusts the KCV level. It prevents the harmonic content from becoming unstable due to pitch alternation. This knob is usually set to the maximum.

●VCA Section

The VCA section can be controlled by either the "ENV" or "GATE" signal. A wider range of sound is thus reproduced.

●ENV Section

Three different signals — GATE + TRIG, GATE and LFO — can control the ENV section. Each signal can be easily selected by a simple switching operation. Attack and delay time, sustain level, and release time can also be freely set using the sliders.

●MODULATOR Section

The Modulator section has four waveforms: ⋀⋁, ⊓⊔, RANDOM and NOISE. The rate of the waveform selected is controlled by the slider. The LED flashes to indicate the set rate.

●KEYBOARD Section

This 33-key, 2-1/2-octabe keyboard provides a range of more than 11 octaves in combination with the VCO, Sub-Oscillator range, and Key Transpose settings.

●TUNE Section

The Tune section is capable of tuning by ±50 cents.

●PORTAMENTO

In addition to the conventional Portamento ON/OFF control, the SH-101 has an Auto Portamento feature which lets you turn Portamento on or off depending on legato playing. Selecting from three modes is mode easy by a simple switch operation. Portamento time can be adjusted between 0 and 3 seconds.

●TRANSPOSE

Transpose to any keys is possible. By using the same keys, you can enjoy the performance in different keys, or you can play the piece with many #s and ♭s with C major (A minor) key.

●BENDER

The variable range of the VCO and VCF can be set using the slider. Further, the Bender allows control of the VCO and VCF by the LFO output. The effective depth of the LFO can be also freely set by using the slider.

●ARPEGGIO

The SH-101 gives you three different arpeggio modes UP, UP & DOWN, and DOWN. The rate can be controlled using the LFO/CLK RATE slider in the Modulator section. Since arpeggio is on only at the time of non-legato performance, it can be turned on or off depending on the execution. An external clock enables free control of arpeggio.

●SEQUENCER

The SH-101 comes with an integrated digital sequencer which can store up to 100 steps. The sequencer can also load tenutos and slurs. The LFO/CLK slider controls the tempo. In addition, the SH-101 can be synchronized with the clock of an external musical instrument.

●HOLD

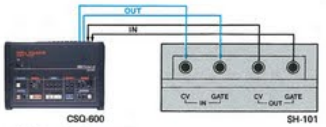
In addition to button-controlled Hold ON/OFF, Hold control by hooking up a pedal is possible. It can also hold the Arpeggio pattern. The held arpeggio changes to a new pattern when a different key is pressed.

●KEY TRANSPOSE

Transposition to any key is instantaneous. Press the key you want to transpose while pushing the button. When the LED lights up, the operation is completed. Even if you play in the same key, you can get the same effect produced by other keys. Also, sequencer play and arpeggio performance in "hold" condition can be transposed.

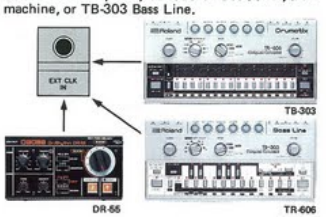
●CV/GATE-IN & OUT

When a CSQ-600/100 digital sequencer or MC-4 microcomposer is connected to the SH-101 through these terminals, sequence play of more added steps can be enjoyed. With an additional synthesizer hooked up, you can control the synthesizer through the SH-101's keyboard, or you can control the SH-101 through the keyboard of the synthesizer.



●EXT. CLOCK IN

SH-101's built-in sequencer and arpeggio can be controlled to the clock of an externally connected musical instrument such as a digital sequencer, MC-4 microcomposer, TR-606 or DR-55 rhythm machine, or TB-303 Bass Line.



●OUTPUT

More effective sounds can be produced by connecting an external amp such as CK-60/40 keyboard amp or chorus effect unit that adds a dimension to the sound.



●HOLD

When the supplied pedal switch (DP-2) is connected, HOLD ON/OFF can be controlled by your foot.

●OUTPUT

Connection with special effect units, such as echo chamber and chorus, produces an even greater number of effects.

●DC IN

The SH-101 operates on AC power supply with a Boss PSA series AC adaptor, or on dry cell batteries (6 UM-2 batteries) anytime, anyplace. Data back-up is simultaneous, too. Even during AC power operation, data back-up is done by 3 UM-2 batteries.

●PHONE

By connecting stereo headphones to the jack, you can play the SH-101 without bothering others.

MGS-1 OPTION

With an optional MGS-1 Modulation Grip Set, you can perform in a standing position. This lets you control the Bender and LFO modulation as you would with a guitar.



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