Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Roland SH-01A

Roland SH-01A Synthesizer User Manual

Model: SH-01A | Brand: Roland

Introduction

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your Roland SH-01A Synthesizer. The SH-01A is a meticulous reproduction of the iconic Roland SH-101, utilizing Analog Circuit Behavior (ACB) technology to faithfully recreate the original analog circuits. It offers classic sounds with modern enhancements, including new polyphonic capabilities and performance features.

Please read this manual thoroughly to ensure proper and safe use of your instrument. Keep this manual for future reference.

Safety Precautions

- Do not attempt to repair or modify the unit yourself. Refer all servicing to qualified Roland service personnel.
- Do not expose the unit to extreme temperatures, humidity, or direct sunlight.
- Avoid placing the unit near heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Use only the specified power supply (USB or AA batteries). Ensure correct battery polarity when inserting batteries.
- Keep the unit away from liquids. Do not spill any liquid on the unit.
- Handle cables carefully. Do not place heavy objects on cables or allow them to be walked on.

Setup

Unpacking and Initial Inspection

Carefully remove the SH-01A from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Ensure all included components are present, such as the SH-01A unit itself. Optional accessories like the K-25m Keyboard Unit are sold separately.

Powering the Unit

The SH-01A can be powered via USB or by 4 AA batteries.

- **USB Power:** Connect a standard USB cable (not included) from the SH-01A's USB port to a USB power adapter (5V DC) or a computer's USB port.
- **Battery Power:** Open the battery compartment on the underside of the unit. Insert 4 AA batteries, ensuring correct polarity (+/-). Rechargeable Ni-MH batteries are recommended for continuous use, providing approximately 6 hours of operation.

Connections

The SH-01A offers various connectivity options for integration into your setup.



Figure 1: Angled view of the SH-01A, highlighting its compact design and connectivity options.

This image displays the Roland SH-01A from an angled perspective, providing a clear view of its control panel and the various input/output ports located on the rear and side. These ports include USB, MIDI I/O, CV/Gate output, and audio output jacks, essential for connecting the synthesizer to other musical equipment or a computer.

- **Audio Output:** Connect the 1/8" audio output jack to your mixer, audio interface, or headphones.
- **MIDI I/O:** Use standard 5-pin DIN MIDI cables for MIDI control with external devices.
- **USB:** The USB port serves for both power and USB MIDI/Audio connectivity with a computer.
- **CV/Gate Output:** Connect to compatible modular or vintage gear for control.
- **EXT CLK IN:** External clock input for synchronization.

Operating the SH-01A

Overview of Controls

The SH-01A features a intuitive control panel designed for hands-on sound shaping.



Figure 2: Top-down view of the SH-01A control panel.

This image provides a detailed overhead view of the Roland SH-01A's control surface. It clearly displays the layout of the LFO, VCO, Source Mixer, VCF, VCA, and ENV sections, each with their respective sliders and knobs. The sequencer and arpeggiator controls are also visible, offering a comprehensive look at the instrument's user interface for sound design and performance.

The main sections of the synthesizer are:

- **LFO (Low Frequency Oscillator):** Controls modulation for vibrato, tremolo, and other effects.
- **VCO (Voltage Controlled Oscillator):** Generates the primary sound waves (Saw, Square, Pulse).
- **Source Mixer:** Blends the VCO output with sub-oscillator and noise.
- **VCF (Voltage Controlled Filter):** Shapes the timbre of the sound by cutting or boosting frequencies.
- **VCA (Voltage Controlled Amplifier):** Controls the overall volume of the sound.
- **ENV (Envelope Generator):** Shapes the sound's amplitude over time (Attack, Decay, Sustain, Release).

Basic Sound Synthesis

To create a basic sound:

1. Set the VCO waveform to Saw or Square.
2. Adjust the VCF CUTOFF and RESONANCE to shape the tone.
3. Set the ENV sliders (A, D, S, R) to control how the sound evolves after a key is pressed.
4. Adjust the VCA level for output volume.

Modes and Features

- **Polyphonic Modes:** The SH-01A expands on the original SH-101's monophonic nature with new Unison, Chord, and four-voice Polyphonic modes.
- **Sequencer:** Features a built-in sequencer with 64 patterns available for saving and recalling your musical ideas.
- **Arpeggiator:** An easy-to-use performance arpeggiator with three playback modes, note hold, and a three-way transpose switch.

Connecting to Other Gear

The SH-01A is designed for seamless integration:

- **CV/Gate Output:** Control modular or vintage synthesizers using the dedicated CV/Gate output.

- **MIDI I/O:** Connect to MIDI keyboards, sequencers, or other MIDI devices.
- **USB MIDI/Audio:** Use a single USB cable for both MIDI control and audio output to your computer, simplifying your studio setup.

Maintenance

Cleaning

To clean the unit, use a soft, dry cloth. For stubborn dirt, a slightly damp cloth may be used, followed by a dry cloth. Do not use abrasive cleaners, waxes, or solvents, as these can damage the finish and controls.

Storage

When not in use for extended periods, store the SH-01A in a cool, dry place, away from direct sunlight and extreme temperatures. If using batteries, remove them before long-term storage to prevent leakage.

Troubleshooting

Common Issues and Solutions

- **No Sound:**
  - Check power connection (USB or batteries).
  - Ensure volume knob is turned up.
  - Verify audio cables are correctly connected to output and receiving device.
  - Check VCA and ENV settings; ensure Sustain is not at zero if you expect a sustained sound.
- **Unit Not Powering On:**
  - If using batteries, check battery level and polarity. Replace if necessary.
  - If using USB, ensure the USB power source is active and providing sufficient power.
- **MIDI Not Responding:**
  - Verify MIDI cables are connected correctly (MIDI OUT to MIDI IN, and vice-versa).
  - Check MIDI channel settings on both the SH-01A and the external device.
  - Ensure USB MIDI drivers are installed if connecting to a computer.
- **Unexpected Sound Behavior:**
  - Reset parameters to default settings if possible (refer to Roland's official documentation for specific reset procedures).
  - Check if any modes (e.g., sequencer, arpeggiator) are active unexpectedly.

If you encounter issues not covered here, please refer to the official Roland support website or contact Roland customer service.

Specifications

Feature	Specification

Model Name	SH-01A
Dimensions (L x W x H)	16.14 x 14.57 x 8.66 inches
Item Weight	3.09 pounds
Body Material	Metal
Power Supply	4 AA batteries (rechargeable Ni-MH recommended) or USB powered
Expected Battery Life	Approx. 6 hours (continuous use with rechargeable Ni-MH)
Connectivity	USB, MIDI I/O (5-pin DIN), CV/Gate output, 1/8" Audio Output, EXT CLK IN
Included Components	SH-01A unit (CV/Gate output, MIDI I/O, K-25m Keyboard Unit, and other optional Roland Boutique accessories are mentioned as compatible, not necessarily included)
Polyphony	Four-voice Polyphonic modes (Unison, Chord)
Sequencer	Built-in, 64 patterns

Warranty and Support

For detailed warranty information regarding your Roland SH-01A Synthesizer, please refer to the warranty card included with your product or visit the official Roland website. Warranty terms and conditions may vary by region.

For technical support, product registration, or to download the latest drivers and software updates, please visit the Roland support section on their official website. You can also find FAQs and contact information for customer service there.

Roland Official Website: www.roland.com

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B074PKTNW8

More documents and user manuals: **https://manuals.plus/**