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KORG NTS-1

Korg Nu:Tekt NTS-1 Digital Synthesizer Kit Instruction Manual

Model: NTS-1

1. INTRODUCTION

The Korg Nu:Tekt NTS-1 is a unique digital synthesizer kit designed for enthusiasts to build and customize. This compact and portable instrument features a powerful sound engine with analog modeling and digital effects, offering a wide range of sonic possibilities. It is compatible with Korg's logue-SDK for custom oscillators and effects, providing extensive creative freedom.

Key features include:

- Easy-to-assemble DIY digital synthesizer kit.
- Compact and portable design for music creation anywhere.
- Powerful sound engine with analog modeling and digital effects.
- Versatile oscillator section for diverse sounds and textures.
- Integrated arpeggiator for dynamic and rhythmic patterns.
- Logue-SDK compatibility for custom oscillators and effects.
- Single-oscillator monosynth with a distinctive sound profile.
- Built-in multimode filter for precise sound shaping.
- Multiple modulation sources, including LFO and envelope generator.
- Onboard effects section with reverb, delay, and modulation effects.

2. SETUP AND ASSEMBLY

The Korg Nu:Tekt NTS-1 is a DIY kit that requires assembly. Follow these steps to build your synthesizer:

2.1. Parts List

Before you begin, ensure all components are present:

- Main PCB (Printed Circuit Board)
- Front Panel
- Back Panel

- Side Panels (metal)
- Corner Pieces (metal)
- Touch Keyboard Ribbon Cable
- Screws (various sizes)
- Screwdriver
- USB Cable
- Owner's Manual

An overview of the kit components is shown below:

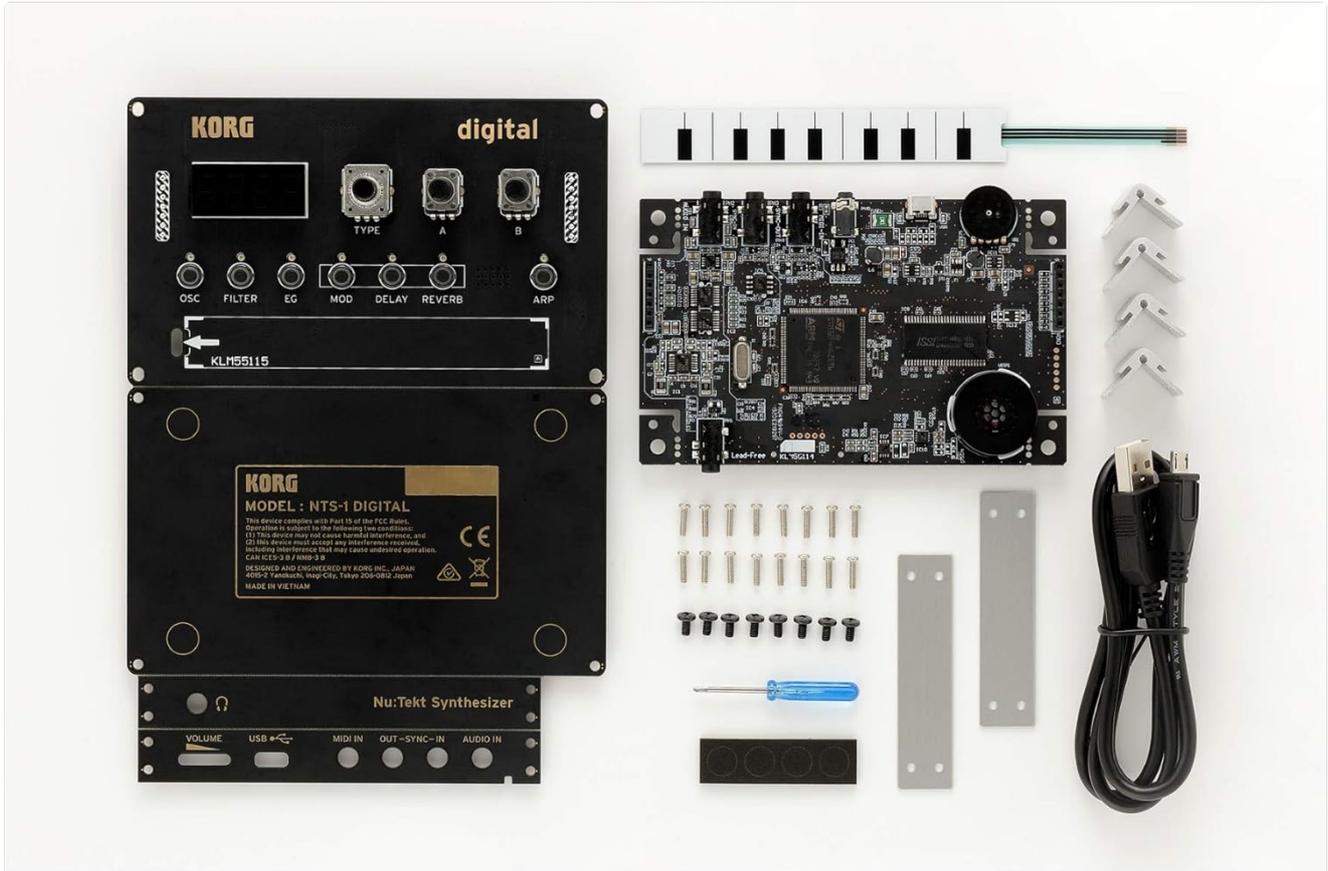


Figure 2.1: All components included in the Korg Nu:Tekt NTS-1 kit, laid out on a flat surface. This includes the main circuit board, front and back panels, metal side and corner pieces, screws, screwdriver, USB cable, and the touch keyboard ribbon cable.

2.2. Assembly Steps

1. **Prepare the Chassis:** Carefully detach the front, back, and side panels from their perforated sheets. Ensure all edges are smooth.
2. **Assemble Side Panels:** Attach the metal side panels to the main PCB using the provided screws.
3. **Connect Touch Keyboard:** Secure the touch keyboard ribbon cable to the designated connector on the main PCB.
4. **Attach Front Panel:** Align the main PCB with the front panel, ensuring all knobs and buttons fit correctly. Secure with screws.
5. **Attach Back Panel:** Place the back panel onto the assembled unit and secure it with the remaining screws.
6. **Add Rubber Feet:** Apply the self-adhesive rubber feet to the designated spots on the bottom of the back panel for stability.

Once assembled, your Korg Nu:Tekt NTS-1 will resemble the image below:



Figure 2.2: The fully assembled Korg Nu:Tekt NTS-1 Digital Synthesizer, showcasing its compact design with controls and keyboard.

2.3. Powering the Device

The NTS-1 can be powered via USB. Connect the included USB cable to the USB port on the device and to a compatible USB power source (e.g., a computer, USB wall adapter, or power bank).



Figure 2.3: The Korg Nu:Tekt NTS-1 connected to a portable USB power bank, demonstrating its portability and flexible power options.

3. OPERATING INSTRUCTIONS

The NTS-1 offers a range of controls for sound synthesis and manipulation. Familiarize yourself with the layout and functions:

3.1. Controls Overview



Figure 3.1: A detailed top-down view of the Korg Nu:Tekt NTS-1, highlighting the various knobs, buttons, and the LED display for sound shaping and control.

- **OSC (Oscillator):** Controls the primary sound source. Adjust TYPE, A, and B knobs to select and modify oscillator types and parameters.
- **FILTER:** Shapes the tonal characteristics of the sound. Use the dedicated knob to adjust the multimode filter.
- **EG (Envelope Generator):** Controls the amplitude envelope of the sound.
- **MOD (Modulation):** Adjusts modulation sources and destinations, including LFO.
- **DELAY:** Controls the delay effect parameters.
- **REVERB:** Controls the reverb effect parameters.
- **ARP (Arpeggiator):** Activates and controls the arpeggiator for rhythmic patterns.
- **Touch Keyboard:** A ribbon controller for playing notes and inputting sequences.
- **LED Display:** Shows current parameter values and settings.

3.2. Basic Operation

1. **Power On:** Connect the NTS-1 to a USB power source. The LED display will light up.
2. **Play Notes:** Use the touch keyboard to play notes. Experiment with different pressure and slide techniques.
3. **Adjust Oscillator:** Turn the OSC TYPE knob to select different oscillator types. Use knobs A and B to modify their characteristics.
4. **Apply Filter:** Adjust the FILTER knob to change the cutoff frequency and resonance, shaping the sound.
5. **Use Effects:** Experiment with the DELAY and REVERB knobs to add spatial effects to your sound.
6. **Arpeggiator:** Press the ARP button to activate the arpeggiator. Adjust its parameters for varied rhythmic patterns.

3.3. Connectivity



Figure 3.2: A side view of the Korg Nu:Tekt NTS-1, illustrating its various input and output ports including USB, MIDI IN, OUT/SYNC-IN, and AUDIO IN.

- **USB:** For power and MIDI communication with a computer.
- **MIDI IN:** Connect external MIDI controllers or sequencers.
- **OUT/SYNC-IN:** Audio output and synchronization input for other Korg Volca series devices.
- **AUDIO IN:** Input for processing external audio signals through the NTS-1's effects.

3.4. Official Product Videos

Watch these official videos from the seller for more insights into the Korg Nu:Tekt NTS-1:

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Video 3.1: Introducing the Nu:Tekt NTS1. This video provides an overview of the Korg Nu:Tekt NTS-1, showcasing its features and capabilities as a compact digital synthesizer.

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Video 3.2: Nu:Tekt NTS-1 Unboxing Video. This video demonstrates the unboxing process of the Korg Nu:Tekt NTS-1, showing all included components and initial setup steps.

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Video 3.3: Sync and sculpt. This video highlights the synchronization capabilities and sound sculpting features of the Korg Nu:Tekt NTS-1.

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Video 3.4: Nu:Tekt x Volca Keys. This video demonstrates the Korg Nu:Tekt NTS-1 being used in conjunction with Volca Keys, showcasing their combined musical potential.

4. MAINTENANCE

To ensure the longevity and optimal performance of your Korg Nu:Tekt NTS-1, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the surface of the synthesizer. Avoid abrasive cleaners or

solvents, as they may damage the finish.

- **Storage:** Store the NTS-1 in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the device with care to prevent physical damage. Avoid dropping it or exposing it to excessive force.
- **Power:** Always use the recommended USB power source. Disconnect power when the device is not in use for extended periods.

5. TROUBLESHOOTING

If you encounter issues with your Korg Nu:Tekt NTS-1, try the following troubleshooting steps:

- **No Power:** Ensure the USB cable is securely connected to both the NTS-1 and a working power source. Try a different USB cable or power source.
- **No Sound:** Check that the volume is turned up. Ensure headphones or speakers are properly connected to the output jack. Verify that an oscillator type is selected and the filter cutoff is open.
- **MIDI Issues:** Confirm that MIDI cables are correctly connected. Check MIDI settings on both the NTS-1 and your external device/software.
- **Unexpected Behavior:** Try resetting the device to its factory settings (refer to the owner's manual for specific instructions).

6. SPECIFICATIONS

| Feature | Detail |
|-------------------------|------------------------------|
| Item Weight | 10.2 ounces (290 Grams) |
| Product Dimensions | 5.08 x 3.07 x 1.54 inches |
| Body Material | Aluminum, Carbon Fiber |
| Finish Type | Polished |
| Color | Black |
| Power Source | Corded Electric (USB Type B) |
| Voltage | 9 Volts (AC) |
| Number of Keyboard Keys | 49 (virtual ribbon keyboard) |
| Manufacturer | KORG |
| Date First Available | September 3, 2019 |

7. WARRANTY AND SUPPORT

KORG offers various protection plans for your Nu:Tekt NTS-1 Digital Synthesizer Kit:

- **3-Year Protection Plan:** Available for a one-time payment of \$21.99.
- **4-Year Protection Plan:** Available for a one-time payment of \$29.99.
- **Complete Protect:** A monthly plan covering all eligible past and future purchases for \$16.99.

For returns, a 30-day refund/replacement policy is typically available. For detailed warranty information and technical support, please refer to the official KORG website or contact their customer service.