NuːTekt

NTS-1 digital kit

PROGRAMMABLE SYNTHESIZER KIT

Owner's Manual

EFGSJ 2

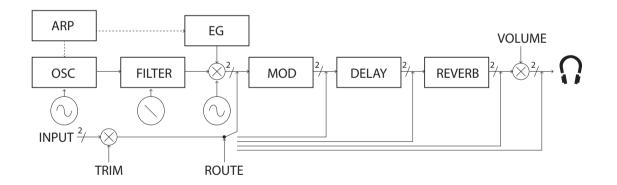
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The video assembly tutorial for the NTS-1 digital kit is available here:



For more information: https://www.korg.com/nts_1/



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En Precautions During Assembly

- Before assembly, discharge the static electricity from your body by touching the ground wire of a grounded device or similar methods. Failure to do so will cause a malfunction.
- Carefully handle the circuit boards to avoid injuries that could be inadvertently caused by protruding parts. In addition, be sure to wash your hands with soap when finished with the assembly procedure.
- Be sure to align screws properly before tightening them. In addition, be careful not to tighten screws with excessive force or over tighten them, otherwise the parts may be damaged.
- Provide a sufficiently large work space to complete the assembly procedure, and prepare work mats so parts will not be scratched.
- Carefully handle the included screws so they will not be lost. In addition, do not use screws other than those included for assembly, and do not use the included screws for any other purpose.

Checking package contents

Before beginning the assembly process, make sure that all of the parts are available. Extra screws are included. Use them as spares. If any part is missing or damaged, contact your local Korg distributor.

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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

Close to magnetic fields

Power supply

Please connect the designated AC adapter 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

Precautions

Handling

To avoid breakage, do not apply excessive force to the switches or controls. Do not rub your eves or lick your hands after you have touched the circuit boards. There may be protruding parts left on the circuit boards from the assembly process. Be careful not to injure yourself on these parts when operating this unit.

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

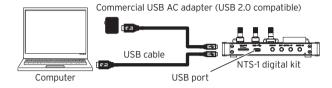
Never set any container with liquid in it near this equipment. If liquid gets into the equipment, it could cause a breakdown, fire, or electrical shock. Be careful not to let metal objects get into the equipment. If something does slip into the equipment, unplug the AC adapter from the wall outlet. Then contact your nearest Korg dealer or the store where the equipment was purchased.

Introduction

Thank you for purchasing the Nu:Tekt programmable synthesizer kit NTS-1 digital kit

The NTS-1 digital kit is a compact DIY synthesizer kit that can be assembled without any soldering. It features a digital oscillator inspired by the prologue and minilogue xd; an analog modeled multimode filter: an analog modelled envelope generator; as well as modulation, delay and reverb effects. It is compatible with the logue SDK, making it possible to load your own custom oscillators and effects, or those created by third parties.

Connections and power



Use the included USB cable to connect the USB port of the NTS-1 digital kit to computer or a commercial AC adapter conforming to USB standards (DC5V 550 mA or higher).

- Power will turn on, and the device will enter play mode.
- Use only the USB cable provided.
- Be sure to use an AC adapter that conforms to USB2.0 standards. However. there may be cases where, depending on the USB AC adapter used, it will not function normally even when compatible with the standards.

Turning off the power

Disconnect the USB cable from the NTS-1 digital kit. Once disconnected all LEDs will go dark (unlit).

SLEEP MODE

After 15 minutes of inactivity the device will enter sleep mode. Press the OSC button to wake up the device and return to normal operation.

Parts and their functions

Display: When operating knobs and buttons, the parameter name or value will be displayed.

Ribbon keyboard: Press with your fingers to play sounds.

 Ω (Headphone) jack: Connecting your headphones to this 3.5mm stereo mini jack will mute the NTS-1 digital kit internal speaker and allow you to create music in private.

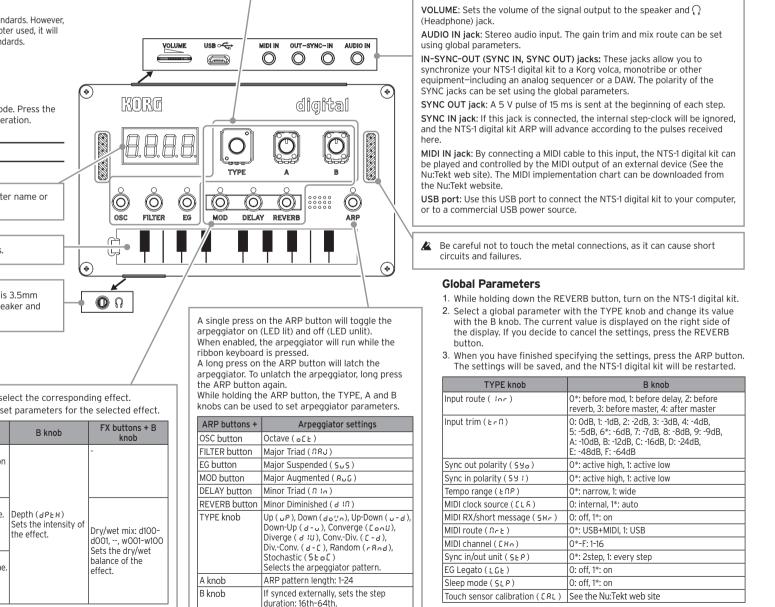
FX buttons	TYPE knob	A knob	B knob	FX buttons + B knob
MOD	OFF (oFF), Chorus (EHorus), Ensemble (EnSERble), Phaser (PHRSEr), Flanger (FLRnGEr) Selects the modulation effect.	Time (E INE) Sets the modulation speed.		-
DELAY	OFF (oFF), Stereo (SEErEo), Mono (floro), Ping Pong (PinG Pong), High Pass (HiGHP35), Tape (ERPE) Selects the delay effect.	Time (٤ :៣ᢄ) Sets the delay time.	Depth (שפנא) Sets the intensity of the effect.	Dry/wet mix: d100- d001,, w001-w100 Sets the dry/wet balance of the effect.
REVERB		Time (E INE) Sets the reverb time.		

1. Pressing the OSC, FILTER and EG buttons will select the corresponding element.

2. The TYPE knob, and A, B knobs can then be used to set parameters for the selected element.

MODE buttons	TYPE knob	A knob	B knob	MODE buttons +	
		A KIIOD		A knob	B knob
	Sawtooth (ናጸ''), Triangle (ሬር ፣), Square (ናዓር), VPM (ሀደብ), User OSC* Selects the waveform.		Alternate (RL E) Alternate parameter (varies per oscillator).	Sets the LFO frequency.	Pitch/shape LFO depth: P100-P001,, S001-S100 Sets the amount of pitch or shape modulation.
	<pre><when osc*="" selecting="" user=""> OSC+TYPE selects edit parameters (varies per oscillator).</when></pre>		<pre><when osc*="" selecting="" user=""> Sets the value of the selected edit parameter.</when></pre>		
	Low pass-2 pole (LP 2), Low pass-4 pole (LP 4), Band pass-2 pole (LP 2), Band pass-4 pole (LP 4), High pass-2 pole (HP 2), High pass-4 pole (HP 4), OFF (_GFF) Selects the filter type.	Sets the cutoff frequency, altering the brightness of the	Resonance (- E S o) Adds emphasis to the overtones occuring at the cutoff frequency.	Sets the cutoff sweep frequency.	Cutoff sweep depth: u100-u001,, d000-d100 Sets the direction (up/ down) and depth of the cutoff sweep.
EG	ADSR (אפר), AHR (אאר), AR (אר), AR (אר), AR loop (אר גססף), Open (ספר) Selects the amplitude EG type.	Sets the time required for the EG to reach it's maximum level once		Sets the tremolo	Tremolo depth: d000- d100 Sets the tremolo depth.

* User OSC: Comes preloaded with " unues". For details about User OSC see the Nu:Tekt web site (www.nutekt.org).



Otherwise, sets the tempo: 56.0-240.0

*: Factory default setting

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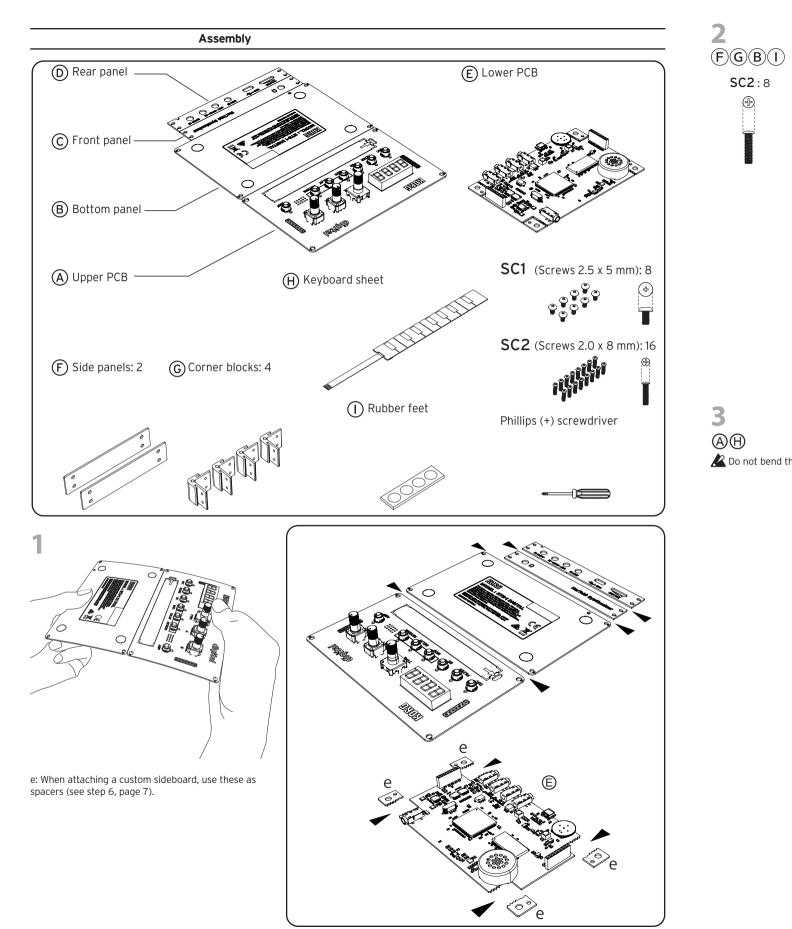
Specifications

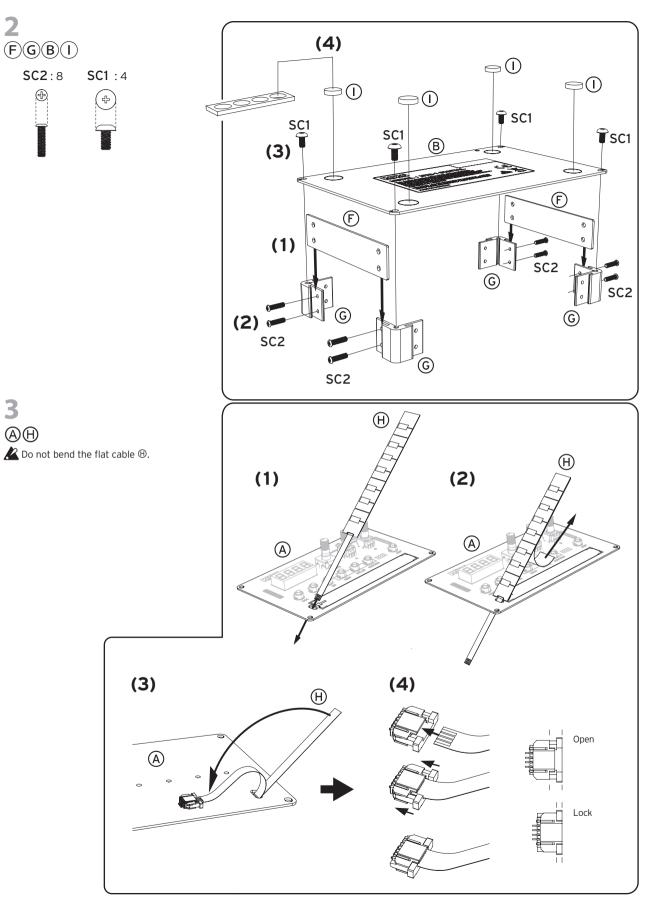
Keyboard: Ribbon keyboard, Sound generator system: 1 VCO, 1 Multimode filter, 1 EG. 3 LFO. Effects: MOD (CHORUS, ENSEMBLE, PHASER, FLANGER). REVERB, DELAY, Input/output jacks: Headphone jack (3.5 mm stereo mini-phone jack), AUDIO IN jack (3.5 mm stereo mini-phone jack), SYNC IN jack (3.5 mm TRS mini-phone jack, 20V maximum input level), SYNC OUT jack (3.5 mm TRS mini-phone jack, 5V output level), MIDI IN jack (3.5 mm TRS mini-phone jack), USB port (micro B type),

Power supply: USB bus power mode, Current consumption: 500 mA or less, Dimensions (W \times D \times H): 129 mm \times 78 mm \times 39 mm / 5.08" \times 3.07" \times 1.54", Weight: 124 g/4.37 oz, Included items: USB cable, Owner's manual

* Specifications and appearance are subject to change without notice for improvement

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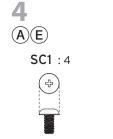


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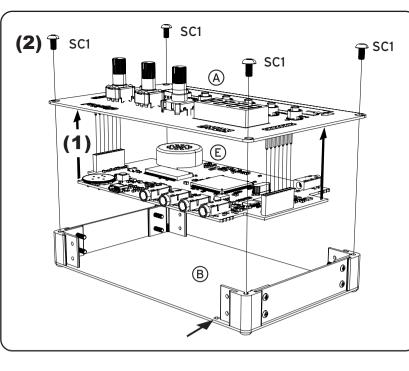
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АH



Make sure that the circuit boards for (1) are not misaligned when inserting. The section on B with holes indicated by an arrow \swarrow is the rear side.



En Checking after assembly

After assembling the kit and before turning on the power, make sure to check the following.

- Are the parts mounted in the correct direction?
- Is the kit built securely, without wobbling?

Troubleshooting

Extra parts remaining, or parts missing.

 \rightarrow There are more screws than the number that will be used.

 \rightarrow If any parts are missing, contact your local Korg distributor. \rightarrow If any parts are damaged or missing before beginning the assem-

bly procedure, contact your local Korg distributor.

The unit makes an abnormal sound when tilted or shaken after assembly.

 \rightarrow A loose screw or other part might have been left inside the unit. Open the unit and check the inside.

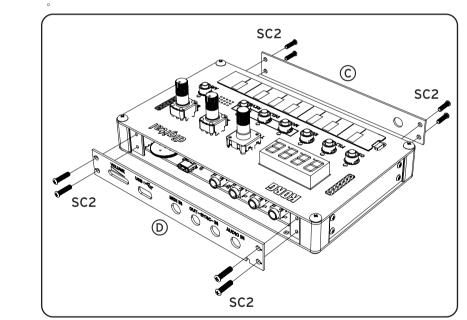
The device does not turn on.

 \rightarrow In step 4 (1), the pin positions may be misaligned when inserting the circuit board. Make sure that the pins are in the proper position when inserting.

 \rightarrow In step 3 (3), the flat cable may not be inserted correctly into the connector. Make sure that the flat cable is inserted into the connector.



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Refer to the following when attaching a custom sideboard.

