NTS-2.1 Eurorack Conversion Kit

for Korg Nu:Tekt NTS-2 Oscilloscope

INSTALLATION & REFERENCE MANUAL / 26HP / REV 1.0 / NOVEMBER 2026

The NTS-2 belongs in a rack. This kit was built to put it there, designed specifically for the Korg Nu:Tekt NTS-2 Oscilloscope with full integration and nothing left out.

With the kit installed, you get four inputs, each with its own THRU jack, both function generator outputs, and a buffered 1-to-3 multiple. All of that in a clean 26HP format. Scope, analyze, tune and generate signals without leaving your rack.

The PCB Assembly powers the NTS-2 straight from your rack's bus board. Everything you need for installation is included.

VIDEO INSTALLATION GUIDE

Watch the full install, start to finish.

youtu.be/geM7Ds02jcA



NTS-2.1 EURORACK CONVERSION KIT. INSTALLED AND READY TO PATCH.

01 WHAT'S IN THE BOX

ITEM	QTY
Faceplate with PCB Assembly (pre-attached)	1
Power Activator Tab	1
90-degree USB-C to USB-C Cable	1
90-degree 3.5mm TRS Cables	6
10-16 Pin IDC Power Cable	1
M3 Rack Mounting Screws	4

NOTE

The 4 screws used to attach the NTS-2 to the faceplate are the original Phillips head screws from the front of your Korg NTS-2. The 2 screws for the power activator tab are the 1.5mm screws from the back plate of your NTS-2. Both sets are reused during installation. Do not discard them.

02 TOOLS REQUIRED

- Phillips head screwdriver with a thin tip (not included). The thin tip is needed for the small screws on the NTS-2 back plate.
- USB power for setup: a computer or USB power adapter, plus the USB cable that came with your NTS-2.

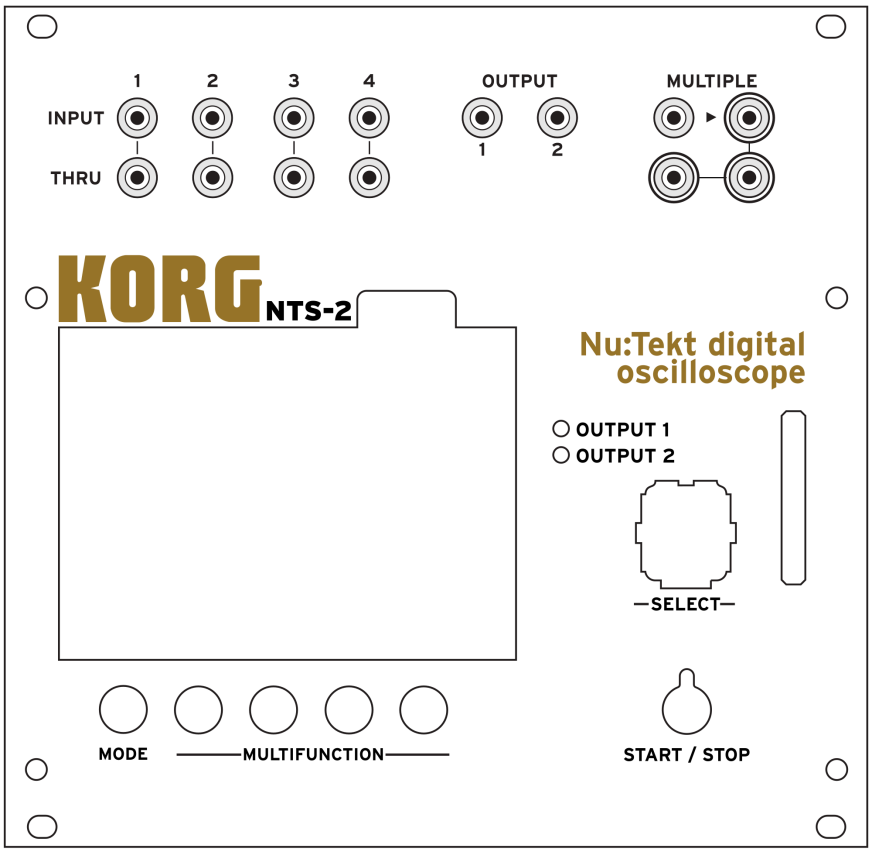
03 BEFORE YOU BEGIN

⚠ READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

1. Power off your Eurorack system completely before connecting the IDC power cable.
2. Handle the PCB Assembly and faceplate with care. Avoid touching PCB components directly.
3. Do not overtighten any screws. Finger-tight plus a quarter turn is sufficient. Over-tightening can damage the faceplate or the NTS-2 chassis.
4. Verify that all cable connections are fully seated before powering on.
5. Ensure your Korg NTS-2 is fully assembled before beginning this installation.
6. Remove the AAA batteries from your NTS-2 and leave them out. The kit powers the NTS-2 from your rack, and batteries left inside can leak and corrode the contacts over time.

04 FRONT PANEL REFERENCE

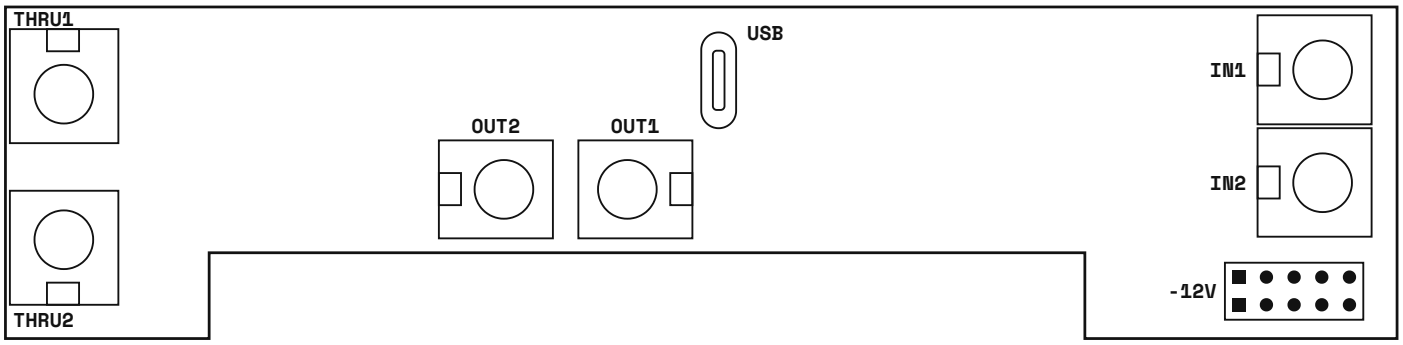
Faceplate layout and jack reference.



LABEL	TYPE	FUNCTION
INPUT 1–4	3.5mm	Inputs to the NTS-2. Patch any audio or CV signal here to view it on the NTS-2 in SCOPE, FFT or TUNER mode. INPUT 1 and 2 appear on screen as 1L and 1R; INPUT 3 and 4 appear as 2L and 2R.
THRU 1–4	3.5mm	Sends out the signal from the INPUT jack directly above it, so you can watch a signal and keep patching it onward.
OUTPUT 1, 2	3.5mm	Function generator outputs. Choose each output's waveform in WAVE mode (Oscillator, LFO, Noise, Pulse or Envelope) and press START/STOP to start output. The two outputs are fully independent.
MULTIPLE	3.5mm × 4	Buffered multiple. Patch any signal into the top-left jack (next to the arrow). A buffered copy appears at each of the three ringed jacks.
NTS-2 CONTROLS	Buttons / knob	MODE, MULTIFUNCTION, SELECT and START/STOP, plus the OUTPUT 1 / 2 indicators, are the NTS-2's own controls, reached through the faceplate. See the Korg NTS-2 owner's manual for full operation.

05 PCB ASSEMBLY REFERENCE

Underside of the PCB Assembly. Port labels match the cable connections in Part 1, Steps 07 and 08.



ISOGRID NTS-2.1 PCB ASSEMBLY, UNDERSIDE

PCB PORT	CONNECTS TO	NOTES
USB	NTS-2 USB-C port (90° USB-C cable)	Powers the NTS-2 from your rack. Press until it snaps in.
IN1 / IN2	NTS-2 INPUT 1 / INPUT 2	
THRU1 / THRU2	NTS-2 THRU 1 / THRU 2	
OUT1 / OUT2	NTS-2 OUTPUT 1 / OUTPUT 2	
-12V (POWER)	10-pin end of the IDC power cable	The -12V side is marked. Red stripe goes to -12V, facing the inside of the board.

06 PART 1. ATTACH YOUR NTS-2 TO THE FACEPLATE

STEP 01

Set up your NTS-2 before installation

With the batteries removed, power the NTS-2 over USB. Set it up exactly how you want it to start every time your rack powers on:

- Select the screen it should start on (SCOPE, WAVE, FFT or TUNER). We like to leave ours on SCOPE.
- Set Auto Power Off (USB) to infinite so the NTS-2 doesn't switch itself off in your rack. See Recommended settings on page 6.
- Adjust any other settings you want now.

Then turn the NTS-2 off. Each time it powers up, it returns to the screen it was on.

> ⚠ **DO THIS STEP FIRST**
> Once the power activator tab is installed, these startup settings are very difficult to change.

STEP 02

Install the power activator tab

With the NTS-2 still fully assembled, use a thin-tip Phillips screwdriver to remove the 2 x 1.5mm screws from the back plate. Place the power activator tab so the small indent sits directly over the power button, covering it. Re-insert the 2 screws so they're snug but not tight. Don't worry about the tab pressing the button yet. It gets seated in Step 06.

PART 1 / CONTINUED

STEP 03

Connect cables to the NTS-2

Plug the six 3.5mm cables and the USB-C cable into the NTS-2 before removing any screws. Take note of which cable goes where (INPUT 1 and 2, THRU 1 and 2, OUTPUT 1 and 2). A quick photo helps. Leave the opposite ends loose for now. They connect to the PCB in Step 08.

STEP 04

Remove the four front screws

Using a Phillips head screwdriver, remove the 4 screws from the front of the NTS-2. Set them aside. They are reused in Step 05.

STEP 05

Fit the faceplate

Slide the faceplate down over the front of the NTS-2 and check that no cables are pinched or binding. Re-insert the 4 screws from Step 04, but leave them loose for now so the power activator tab can be seated in the next step.

STEP 06

Seat the power activator tab

The tab now needs to hold the power button down. Working from the front, place your thumbs on the faceplate and your fingers on the sides of the NTS-2. Push the NTS-2 down with your fingers while holding the faceplate up with your thumbs. You'll hear a click when the power button is pressed. Keep holding it there and tighten the 4 screws. The screws now hold the button down through the tab.

> **TIP**
> Having trouble getting the button to stay pressed? Connect the NTS-2 to a USB power adapter while you seat the tab. You'll see it turn on when the button is held down correctly.

STEP 07

Connect the power cable to the PCB

Plug the 10-pin end of the IDC power cable into the power header on the PCB. The -12V side is marked and faces the inside of the board. The red stripe on the cable goes on the -12V side. Bend the cable out of the way. Read the IDC cable warning on page 6 before powering on.

STEP 08

Connect cables to the PCB

Connect each cable to its matching labeled port on the PCB. Route the cables however you like. You can tidy them with zip ties once everything is connected.

USB-C cable	USB
INPUT 1 cable	IN1
INPUT 2 cable	IN2
THRU 1 cable	THRU1
THRU 2 cable	THRU2
OUTPUT 1 cable	OUT1
OUTPUT 2 cable	OUT2

07 PART 2. INSTALL INTO YOUR RACK

STEP 01

Connect power

With your rack powered off, plug the 16-pin end of the IDC cable into your rack's bus board.

> ⚠ **IDC CABLE ORIENTATION**
>
> The red wire on the IDC cable marks Pin 1 and must line up with -12V. Reversing it will damage the PCB, the NTS-2, and potentially other modules. Check both ends: red stripe to -12V on the PCB Assembly and on your bus board.

STEP 02

Test the power

Before screwing anything down, power on your rack and confirm the NTS-2 turns on. If it doesn't, power off and recheck the IDC cable, the USB-C cable, and the power activator tab (Part 1, Step 06).

STEP 03

Mount to rack rails

Align the faceplate with your rack rails (the kit occupies 26HP). Using a Phillips head screwdriver, secure the unit with the 4 included M3 screws. You're set to go. Make some music.

08 RECOMMENDED SETTINGS

Set these in Part 1, Step 01, before the power activator tab goes on. Press MODE until GLOBAL appears, use the MULTIFUNCTION buttons to pick a settings page, and turn SELECT to change a value.

GLOBAL › SETTINGS (POWER)

Auto Power Off (USB)

Set to **INFINITE**. Korg's default switches the NTS-2 off after 1 hour without use.

GLOBAL › SETTINGS (DISPLAY)

Off time (USB)

Set to **INFINITE** to keep the screen on, or choose a time if you'd rather it sleep.

BEFORE YOU POWER OFF

Startup screen

Leave the NTS-2 on the mode you use most (**SCOPE**, **WAVE**, **FFT** or **TUNER**). It starts there every time.

09 SETUP TIPS & FAQ

TOPIC	ANSWER
Batteries	Remove the AAA batteries and leave them out. The kit powers the NTS-2 from your rack, and batteries left inside can leak and corrode the contacts over time.
NTS-2 switches off by itself	Auto Power Off is still on (factory default is 1 hour). Set Auto Power Off (USB) to infinite. See Recommended settings, page 6.
NTS-2 won't power on	Check that the IDC cable's red stripe is on -12V at both ends and that the USB-C cable is seated at both ends. If it still won't start, the power activator tab may not be holding the button down. Re-seat it (Part 1, Step 06).
Which input is which on screen?	INPUT 1 and 2 appear as 1L and 1R. INPUT 3 and 4 appear as 2L and 2R.
No signal on the display	Check that all cables are fully seated at both ends. In SCOPE mode, use DISPLAY (first MULTIFUNCTION button) to choose which inputs are shown, and press START/STOP if measurement is stopped.
No signal from OUTPUT 1 or 2	In WAVE mode, press START/STOP to start waveform output, and check the CYCLE MODE setting (Cont., 1-Shot or Push).
How the multiple works	Patch any signal into the top-left MULTIPLE jack (next to the arrow). Three buffered copies appear at the ringed jacks.
10-pin bus board only	Use a standard 10-to-10 pin IDC cable (not included) in place of the included one.
Compatible with other NTS models?	No. This kit is designed exclusively for the Korg Nu:Tekt NTS-2 Oscilloscope.
Warranty	If the kit does not function as expected after troubleshooting with support, a replacement part or unit will be sent.
Support contact	Email hello@isogrid.io or visit isogrid.io. Support is for current kit owners only.

10 SAFETY & LEGAL DISCLAIMER

⚠ IMPORTANT SAFETY INFORMATION

Eurorack modular systems operate at ±12V and 5V. Always power off your rack completely before connecting or disconnecting the IDC power cable. Failure to do so may damage your rack, bus board, or other modules.

Installation should be done by someone with basic Eurorack knowledge. ISOGRID assumes no liability for damage caused by improper installation or use.