



THOR

QUICK START GUIDE

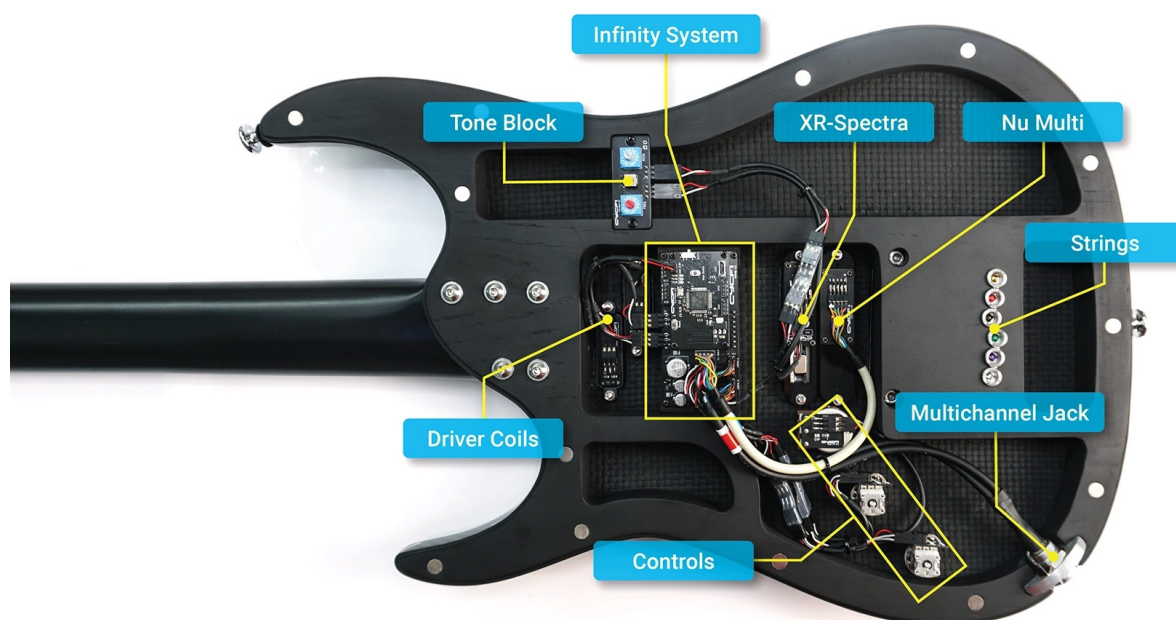
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Overview

The Thor Infinity guitar incorporates the Infinity System, a polyphonic sustainer that allows all vibrating strings to sustain indefinitely until physically muted. It combines a multichannel pick-up and sustain drivers controlled by a microcontroller for precise control of sustain. The Infinity system is designed with a focus on natural, clean sustain across all strings. It is compact, fits the size of a PAF humbucker, and is modular for easy integration.

The Thor guitar features a multichannel setup, enabling discrete outputs for each string, thanks to the integration of the Nu Multi pickup system. These pickups are designed for multichannel audio processing on guitars and other stringed instruments, enabling a wide range of independent effects and enhancements—such as distortion, EQ, compression, delay, pan, pitch-shift, and more for each string. This capability opens up new dimensions in sound sculpting and performance.

Thor MKII Infinity System



The optional XR-Spectra pickup can be included to facilitate straightforward connectivity with traditional guitar amplifiers and effects. The XR Spectra is a low-impedance pickup that captures the full frequency range of a guitar string without adding coloration. Like its sibling the Nu Multi, it offers a uniform frequency response from 20 Hz to 20 kHz. This pickup allows for extensive tonal flexibility, enabling musicians to shape their sound using post-EQ.

Additionally, the Tone Block is available to complement the XR-Spectra pickup. This compact and versatile device enhances the tonal capabilities of the XR-Spectra pickup. It is a small, second-order resonant RLC filter with variable frequency and Q (resonance), allowing users to emulate the unique tonal qualities of various guitar pickups.

Controls

The Thor MKII features controls for master volume along with two additional MIDI controls. These are control potentiometers that do not directly control anything inside the guitar but instead generate control voltages that are converted to MIDI CC messages that are sent to control external processors, your DAW, etc., through the MIDI 5-pin DIN at the back of the Nexus-GK. The master volume also sends Roland Synth Volume (SY-VOL) via the 13-Pin, Roland compatible DIN also at the back of the Nexus-GK.

The Infinity system is a polyphonic sustainer. All vibrating strings will keep on sustaining until they are muted. A single sustain potentiometer controls the sustain level.



Mono Setup

If you have the XR-Spectra pickup installed, the quickest way to get started is to set up a mono system. That way, you can easily connect to any guitar amplifier and your effects chain. It's a straightforward path to getting started quickly with Thor, without the complexity of a multi-channel setup.

1. Connect the multichannel cable into Thor.
2. Connect the other end to the Nexus box.
3. Connect a 1/4" mono jack to channel 9/10 on the back of the Nexus to an amplifier. This would be the Mono out (XR-Spectra out).
4. Set your amplifier's master volume to zero to avoid any pop.
5. Connect to the provided 18V DC power supply.

Nexus GK Back Panel



Multichannel setup

Connecting your guitar to a Digital Audio Workstation (DAW) and routing each string's output to a different track offers the most versatility. This configuration provides complete control over each discrete output, enabling complex, intricate per-string sound shaping and effects processing, such as distortion, EQ, compression, delay, and pitch shifting. It's ideal for those looking to fully explore and exploit the potential of the instrument in a studio or live setting.

It is also the most complex to set up, however. You will need a multichannel audio interface, a computer, and of course, a DAW. This path is for the tech-savvy, the power-user, the enthusiast and the pioneer, and those who embrace the cutting-edge without hesitation.

Alternatively, you can direct the multichannel outputs to various amplifiers or through effects processors—one effects chain per string. To streamline the setup, you can use multi-effects processors capable of stereo processing. Thus, only three stereo units are needed to manage three string pairs, significantly reducing complexity.

1. First make sure power is unplugged (as a precaution).
2. Connect channels 1/2, 3/4, and 5/6 to a multichannel audio interface, amplifiers, or effects processors via 1/4" TRS cables.
3. (Optional) Connect the MIDI output to your a MIDI interface.
4. To avoid any pop, set your amplifier's master volume to zero.
5. Connect to the provided 18V DC power supply.

Roland setup

This use-case is for a studio or live setup using GK compatible devices using the 13-Pin, Roland compatible DIN. These devices offer sophisticated processing capabilities. These devices enable the use of each string's output for diverse effects processing and synthesis. The Nexus-GK device integrated with Thor is specifically designed to support the 13-Pin Roland connector including the GK Volume (SY-VOL) control (via the master volume potentiometer).

1. First make sure power is unplugged (as a precaution)
2. Connect a 13-Pin cable to the 13-pin connector at the back of the Nexus to a Roland device.
3. To avoid any pop, set your amplifier's master volume to zero.
4. Plug in the power from the included 18V DC power supply.

