PRODUCT OVERVIEW

TOLRED PEDAL

FX PROCESSOR

A wide range of effects, a free signal chain
and stage-ready control in a single device.



24-bit / 44.1 kHz
Audio resolution

150 Presets
100 user + 50 factory

8 Slot
Free effect order

www.tolred.com

Build your own tone chain

The effect order isn't fixed; shape your sound to your needs.

The TolRed FX Processor is a guitar effects processor that processes your guitar signal digitally and brings a large number of effects together in a single device. From drive, distortion and fuzz tones to modulation, delay, reverb, amp and cabinet simulations, you can combine different characters in the same chain.



FREE EFFECT CHAIN

8 slots per preset: assign any pedal to any slot and arrange the effects in any order you like.

150 PRESET SLOTS

Start with 50 factory presets; save your own tones to the 100 user preset slots.

STAGE CONTROL

Assign effects or quick preset access to the A/B/C footswitches. Switch between presets with UP/DOWN.

FLEXIBLE CONNECTIVITY

Serial/parallel Send / Return, Aux In via Return, 7-band Global EQ and relay-controlled True Bypass.

Effect library

21	22	26	2
Drive	Modulation, Delay & Reverb	Amp	Cabinet

Technical specifications

Connections and core hardware



Audio resolution	24-bit / 44.1 kHz
Processor	200 MHz, 32-bit ARM M4 MCU
Display	3.5” color TFT • 480 × 320 px
Presets	150 total • 100 user • 50 factory
Effect chain	Max. 8 effect slots per preset
Input	1 × mono 6.35 mm TS Guitar Input
Output	1 × mono 6.35 mm TS Amp Out
Send / Return	1 × Send + 1 × Return • Serial / Parallel
Headphones	1 × stereo 3.5 mm TRS output
Aux In	Via Return input
USB	USB Type-B (no USB Audio)
Power	12 V DC / 1 A • center positive
Dimensions	26 × 16 × 6 cm
Weight	1.3 kg

Note: The USB connection is for programming / firmware operations only; it is not designed for audio transfer over USB.

150
Presets

8
Effect slots

7
Band Global EQ

50
Drum pattern

On stage and in the studio

Control, connectivity and practical tools

Footswitch layout



A / B / C footswitch

Directly control the effect slots in the selected preset. You decide which effect is assigned to which switch.

Preset Mode

Use the A/B/C switches for quick access to your chosen presets instead of toggling effects on and off.

Drum Machine

Build a rhythmic backing while you play with 50 rhythm patterns plus BPM and Mix settings. A separate metronome mode offers 4, 8 and 16-beat options.

Tuner

Switch to tuning mode with the True Bypass / Tuner footswitch; follow the note, frequency and tuning deviation on the display.

Relay-controlled True Bypass

In bypass, the DSP path is taken out of the circuit; Guitar Input and Amp Out are physically connected through the relay.

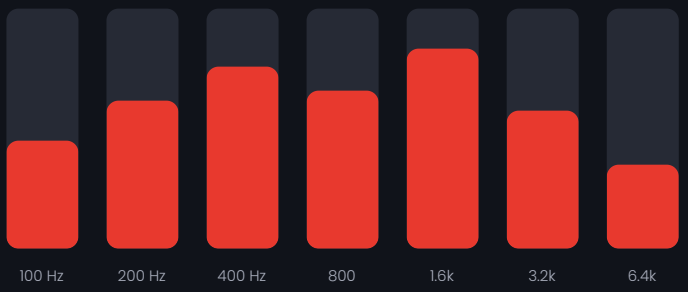
Return / Aux In

The Return input can also be used to connect an external audio source so you can play along with a backing track or music.

7-band Global EQ

Adjust the tone of your system or amp to the room with a global EQ that affects all presets. The Global EQ can be placed at the beginning or end of the preset chain.

Frequency bands: 100 Hz – 6400 Hz



All pedals and effects

Every module inside the FX Processor, from drive to amp and cabinet simulations

Drive

21 pcs

NOISEGATE | COMPRESSOR | BOOSTER | CLEAN BOOST | OVERDRIVE | GREEN SCREAM | BLUE BLOOM | GOLDEN HALO | ASYM DRIVE | OPEN DRIVE | DISTORTION | MODERN METAL | GRINDBOX | HARD CLIP | CHAINSAW GRIND | TURBO CLIP | HIGH VOLTAGE | BRIT STACK | FUZZ | ROUND FUZZ | WOOLLY FUZZ

Modulation, Delay & Reverb

22 pcs

EQ 3BAND | PHASER | FLANGER | CHORUS | DIGITAL DELAY | ANALOG DELAY | DINAMIC DELAY | TAPE DELAY | REVERSE DELAY | ROOM REVERB | HALL REVERB | SPRING REVERB | SHIMMER REVERB | AMBIENT REVERB | REVERSE REVERB | MODULATED REVERB | OCTAVE | TREMOLO | TITREK MANDA | PITCH SHIFTER | ROTARY | AUTO WAH

Amp

26 pcs

BRITISH 68 | BRITISH 80 CLEAN | BRITISH 80 DRIVE | BRITISH MODERN CLEAN | BRITISH MODERN DRIVE | AMERICAN VINTAGE CLEAN | AMERICAN WIDE CLEAN | AMERICAN TWEED DRIVE | CRYSTAL CHIME CLEAN | CRYSTAL CHIME DRIVE | CALIFORNIA MARK CLEAN | CALIFORNIA MARK DRIVE | CALIFORNIA HIGH CLEAN | CALIFORNIA HIGH DRIVE | AMERICAN MODERN CLEAN | AMERICAN MODERN DRIVE | HOT ROD 100 CLEAN | HOT ROD 100 DRIVE | AMBER ROCK CLEAN | AMBER ROCK DRIVE | CRYSTAL JAZZ CLEAN | CRYSTAL JAZZ DRIVE | MODERN STAGE CLEAN | MODERN STAGE CRUNCH | MODERN STAGE LEAD | MODERN STAGE BROWN

Cabinet

2 pcs

CABIN HARD | CABIN SOFT

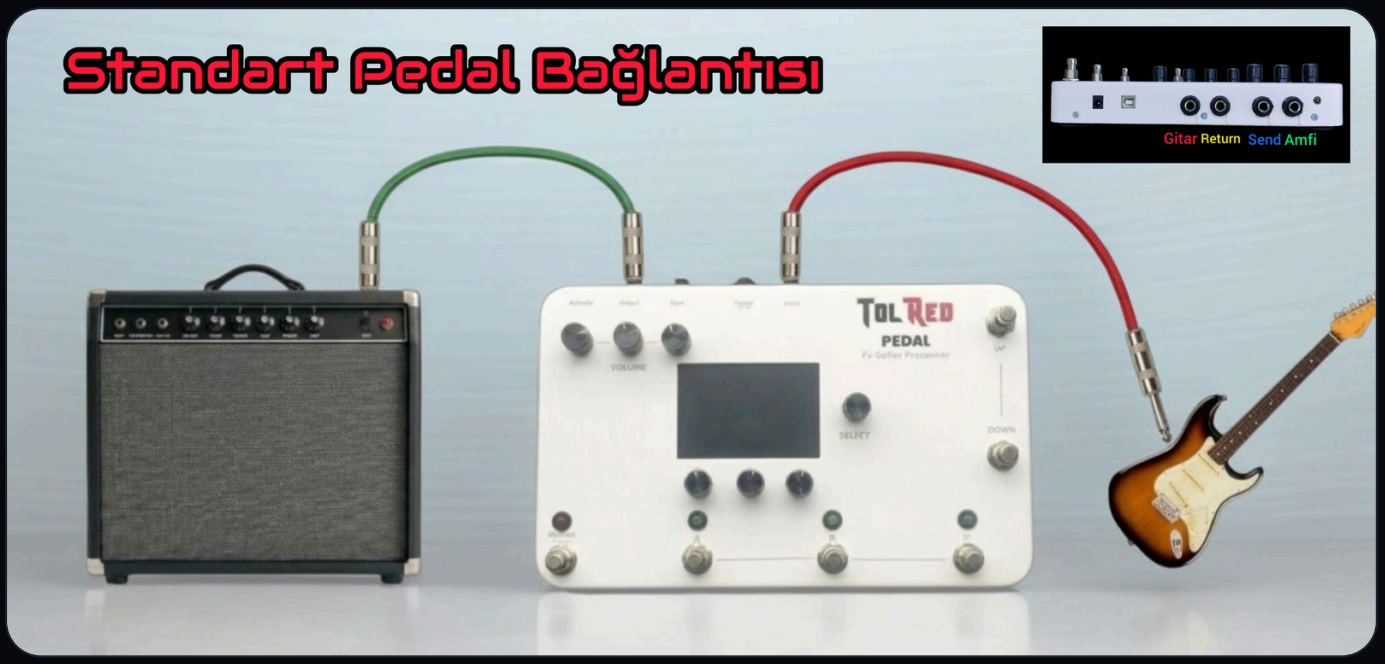
External connection

1 module

SEND / RETURN

Connection options

The right setup for every use



1. Standard Pedal Connection

CONNECTION DIAGRAM

Guitar ▶ FX Processor IN ▶ FX Processor OUT ▶ Amp

This is the most classic and widely used connection method. Your guitar signal goes straight into the FX Processor, passes through the effect chain you built there, and is then sent to the amp. All effects in the chain sit before the amp's input. It is a practical solution especially for players who want to shape their sound through the FX Processor instead of using the amp's preamp stage.



2. External Pedal Connection

CONNECTION DIAGRAM

1	Guitar	▶	FX Processor IN	2	FX Processor OUT	▶	Amp
3	FX Processor SEND	▶	External Pedal IN	4	External Pedal OUT	▶	FX Processor RETURN

The FX Processor's SEND and RETURN connections are used to bring external effect pedals into the digital effect chain. This lets you use a pedal whose tone you love, or one that must be in your pedal chain, together with the FX Processor. The external pedal can be integrated into the chain on the FX Processor and run alongside the other effects.



3. 3-Cable Connection

CONNECTION DIAGRAM

1	Guitar	▶ Amp IN	2	Amp SEND	▶ FX Processor IN
3	FX Processor OUT	▶ Amp RETURN			

This connection method is especially suited to guitarists who want to use the amp's own drive tone or preamp stage.

The guitar signal first reaches the amp's input and passes through the amp's preamp stage. It is then sent from the amp's SEND output to the FX Processor. After passing through the delay, reverb and similar effects added on the FX Processor, the signal is sent from the FX Processor's OUT output to the amp's RETURN input.

This way, you can add the effects you need to the signal while preserving the amp's characteristic drive or preamp tone.



4. 4-Cable Connection

CONNECTION DIAGRAM

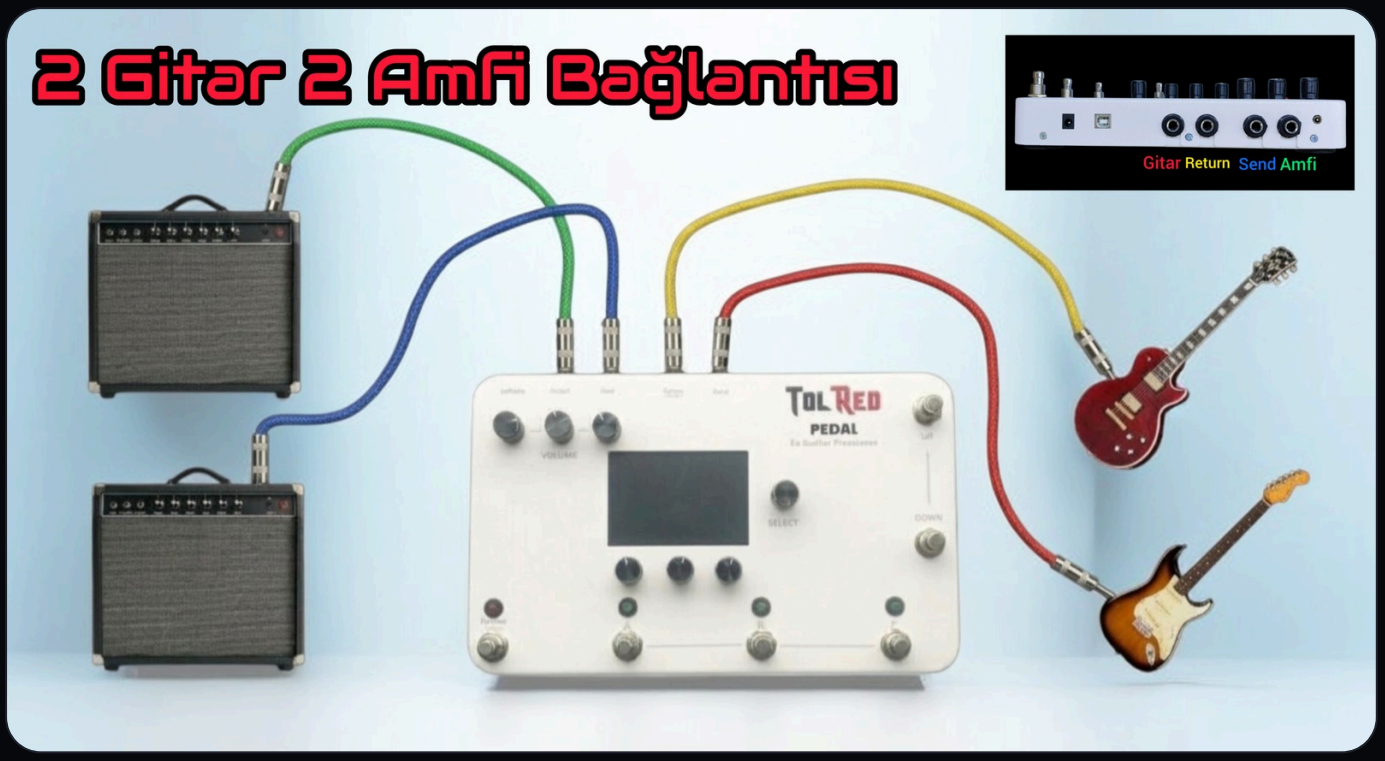
1	Guitar	FX Processor IN	2	FX Processor SEND	Amp IN
3	Amp SEND	FX Processor RETURN	4	FX Processor OUT	Amp RETURN

The 4-cable connection method lets you use the FX Processor's effect chain in two separate sections. Some effects can be placed before the amp's preamp stage and others after it.

First section: The guitar signal reaches the FX Processor's IN input. Effects in this section, such as drive, wah and EQ, are sent from the FX Processor's SEND output to the amp's input.

Second section: After passing through the amp's preamp stage, the signal comes from the amp's SEND output to the FX Processor's RETURN input. Delay, reverb and other modulation effects are applied in this section. The signal leaving the FX Processor's OUT output is sent to the amp's RETURN input.

With this method you can use effects like drive and wah before the amp's preamp stage and effects like delay and reverb after it. It is a powerful solution especially for guitarists who want a more flexible effect chain while keeping the amp's own drive tone.



5. Two Guitars – Two Amps Connection

CONNECTION DIAGRAM

1	Guitar 1	▶	FX Processor IN	2	FX Processor SEND	▶	Amp 1
3	Guitar 2	▶	FX Processor RETURN	4	FX Processor OUT	▶	Amp 2

With this connection method you can use a single FX Processor to apply effects to two separate guitar signals and route them to two different amps.

The FX Processor's effect chain is split into two sections by the SEND/RETURN block. Effects placed before the SEND/RETURN block process the first guitar's signal and are sent to Amp 1 via the SEND output. Effects placed after this block process the second guitar's signal coming in through the RETURN input and are sent to Amp 2 via the OUT output.

Important: When using this connection method, the FX Processor's SEND/RETURN setting must be set to Serial.

Headphone use

Guitar › Processor › Headphone Out › Headphones. For silent playing and practice.

Aux use

External audio source › Return / Aux In › Processor. Play along with a backing track.

Drum Machine

Guitar › Processor + Drum Machine › Amp Out / Headphone Out. Independent of the effect chain.

TOLRED PEDAL

Shape your own tone.

Combine the classic pedalboard approach with digital flexibility using the TolRed FX Processor. Order your effects, save your chain and put the control you need on stage right under your foot.

TolRed PEDAL

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More information

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The effect descriptions in this brochure are short usage summaries. Tone, chain order and settings all affect the result.