

PLETHORA X5 Firmware Update Release Notes

Version 1.2 (16 Sept 2021)

Dear customer,

We are proud to bring you the biggest update yet for your Plethora X5 TonePrint Pedalboard. FW1.2 has new pedals, new TonePrints, new controls, expanded midi features, new cab sims and a whole host of optimizations for better performance.

Enjoy!

TC Electronic

Update Instructions

How to update your PLETHORA firmware?

1. Connect your Plethora X5 to your computer with the included USB cable.
2. Plethora X5 will show up as a mass storage device on your computer
3. Drag and drop the firmware “.bin” file onto the root of the PLETHORA mass storage device
4. Disconnect the USB cable once transfer is complete
5. Power cycle your Plethora for the firmware upload procedure to start
6. Wait until the update procedure has finished and the pedal reboots

DO NOT remove the power from your unit whilst the update is in progress

NOTE: We recommend disabling spotlight INDEXING and emptying your TRASH folder before updating when using MAC to transfer the “.bin” file to your Plethora unit.

NOTE: If your unit has 1.0.101 and you want to update to 1.2.18 or newer, then please update to 1.1.55 first

Please note that to get max benefit from the new effects, you will need the latest version of the Toneprint app 4.4 or newer that can be found in the app store, google PLAY store or downloaded for MAC or PC here:

<https://www.tcelectronic.com/tonePrints.html>

With kind regards from the TC Electronic guitar team!

Version 1.2.18 (18 Dec 2020)

What's new?

1. PEDALS

We've included 3 new pedals for your Plethora with this update which can be found on the EFFECTS list in EDIT mode.

- **Viscous Vibe** – with traditional RAMP as the default 2nd FS function. You can change this for MASH by navigating to the 2nd FS function in the settings menu at the bottom of the effects list.

SETTINGS > BOARD > 2ND FSW FUNCTION

- Helix Phaser complete with MASH functionality
- **Tape Deck Looper** – new ram based looper with record and playback time of up to 40 seconds in stereo and 80 seconds in mono

2. CONTROLS

- **Hot Knobz** – lets you assign each of the 3 black knobs on Plethora X5 to simultaneously control any/all pedal parameters on your BOARD, for real-time tweaking in PLAY mode. Touch and feel your effects.

This is a BOARD level setting and can be found at

SETTINGS > BOARD > HOT KNOBZ

- **BOARD UP/DOWN** – If you're not a fan of triple tap then here's an easier way to navigate through your BOARDS with a single dual footswitch press.
 - Simultaneously press footswitch 1+2 for BOARD DOWN
 - Simultaneously press footswitch 2+3 for BOARD UP
 - While the board number is displayed on screen you can continue to press footswitch 3 or footswitch 1 for navigating UP and DOWN respectively.
 - This is a GLOBAL level setting and can be found at

GLOBAL > PRODUCT SETTINGS > FSW BOARD DOWN/UP

Note: De-activate this setting to enable QUICK SWAP

- **CREATE/DUPLICATE** – If Plethora has empty board slots between BOARDS, you will now be given a choice of where to put your new board when using CREATE or DUPLICATE.
- **Note:** To CREATE a new BOARD or DUPLICATE your current BOARD, press the BOARD toggle switch UP when in EDIT MODE.
- **Note:** To DELETE or CLEAR your current BOARD, press the BOARD toggle switch DOWN in EDIT MODE.

3. EXPANDED MIDI FEATURES

- **MIDI channel select** – Select which MIDI Channel your Plethora receives and listens to

SETTINGS > GLOBAL > MIDI > CHANNEL SELECT

- **MIDI PC** You can directly recall any BOARD on PLETHORA by sending it a PC (Program Change) message with the corresponding number
- **MIDI CC** Updated CC control mapping for following items
 - BOARD UP/DOWN
 - PEDAL 1 – 5 (Engage/Bypass)
 - HOT KNOBZ (Also allows remote control of parameter knobs in EDIT MODE)
 - Looper Controls
- **MIDI CC MAPPING** For a complete mapping table of all MIDI CC controllable features, navigate to

SETTINGS > GLOBAL > MIDI > CC TABLE

4. NEW CAB SIMS

Added 9 new speaker cab simulations using a proprietary method, unique to Plethora X5. These cab sims let you transform your pedalboard into a DI ready rig for connection to a PA or recording interface.

- Jose 30 4x12
- Vintage 4x12
- Creamy 4x12
- 65 4x12
- Greenery 4x12
- Bluey 2x12
- Creamy 1x12
- Golden 1x12
- BASS 1x15

This is a GLOBAL setting and the CAB SIM will always be on, at the end of Plethora's signal chain, whilst activated. To select a cab model and activate/deactivate, navigate to

SETTINGS > GLOBAL > PRODUCT SETTINGS > CAB SIMULATION

Improvements/bug fixes:

- When a TonePrint is deleted from your TonePrint list on the Plethora X5 unit, BOARD's with pedals which use that TonePrint, will retain their current settings instead of reverting back to default pedal TonePrint. – No change in sound of existing BOARD's
- New warning menu for Factory Reset in **GLOBAL > SERVICE > FACTORY RESET**
- General performance improvements and bug-fixes
- Faster Board switching
- Modulation block issues in several effects fixed
- Quick swap now retains bypass state of pedal when swapping
- Plethora X5 reboots on selecting effect and turning Effect encoder simultaneously bug - fixed
- Switch between USB and Bluetooth connection without needing to reboot
- Quintessence bypass gain bug – fixed

Version 1.1.55 (09 Nov 2020)

What's new?

- Bug fix related to auditioning artist toneprints via TonePrint app
- Various improvements under the hood and performance related optimizations
- How to update your PLETHORA firmware to version 1.1.55?
- Download the "plethoraX5_1_1_55.bin" firmware file from the TC website and save it on your hard disk
- Connect your Plethora X5 to your computer with the included USB cable. Plethora X5 will show up as a mass storage device on your computer.
- Drag and drop the downloaded firmware ".bin" file onto the PLETHORAX5 mass storage device
- Disconnect the USB cable
- Power cycle your Plethora for the firmware upload procedure to start
- Wait until the update procedure has finished and the pedal auto-starts. DO NOT remove the power from your unit whilst the update is in progress
- Congratulations your PLETHORA is now updated to the latest firmware!

You can check the firmware version in your PX5 under SETTINGS > GLOBAL > SERVICE > FIRMWARE.

The latest version of the TonePrint editor for MAC and PC here:

<https://www.tcelectronic.com/tonePrints.html>

Mobile versions of the app for iOS and Android are available in the app store and on google PLAY.

With best regards from the TC Electronic guitar team!

Version 1.1.52 (09 Nov 2020)

What's new?

The foot switches of your Plethora can now be remote controlled via Midi using CC to BYPASS and ENGAGE the pedals on your board.

CC 102 = **FS1**

CC 103 = **FS2**

CC 104 = **FS3**

CC 105 = **FS4**

CC 106 = **FS5**

CC Values

0-63 = **Bypass**

64-127 = **Engage**

Improvements/bug fixes:

- Tuner not working on empty board in true bypass mode - fixed
- Protect board load if a Toneprint is corrupt
- Toneprint audition data gets cleaned on startup
- Ensure correct formatting on USB disk
- Ensure BT operation after reset/restart
- Ensure mobile app connection is possible after reset/restart

Version 1.1.43 (15 Apr 2020)

The 1.1 version adds a chromatic tuner that can be activated via either triple tap on *footswitch 5* or *pressing and holding the TONEPRINT push-encoder*, a board organizer and several improvements and bug fixes.

What's new?

- Chromatic guitar tuner (hold TONEPRINT push encoder)
- Triple click board up/down and tuner selection feature can be enabled/disabled in SETTINGS/GLOBAL
- New board organizer in app let's you reorder your boards and rename them. All boards now sync with the TonePrint app on app connection.

Improvements/bug fixes:

- Tap Tempo is not reset when changing toneprint within the same effect
- Fix true bypass in edit mode Triple step board switch is funky when having tap-tempo FSW on FSW 1 or 2
- Level drop of Quintessence harmoniser (bypass versus 100% dry MIX) - fixed
- List of tone prints is visible after clearing board
- MimiQ output level too low - fixed
- Noise gate routing issue - fixed
- Pedal duplicates toneprint effect or freezes when toggling fast between to FSW fast and have the app connected – fixed
- Level boost of Brainwaves Pitch shifter's wet signal – fixed