Fender® | Tone Master® PRO

# INTERACTIVE OWNER'S MANUAL




## ENGLISH

**FIRMWARE v1.3**

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**For detailed descriptions of Tone Master Pro amplifier and cabinet models, effect pedal models and microphone models, see the TONE MASTER PRO MODEL GUIDE online.**

**Get the latest firmware and download the Tone Master Pro Control App at www.fender.com/tonemaster_pro**

The Tone Master Pro Control App is available for Mac and PC, providing convenient control of Tone Master Pro plus additional features including IR Manager and Cloud Presets.

## TOTAL TONAL MASTERY RIGHT AT YOUR FEET

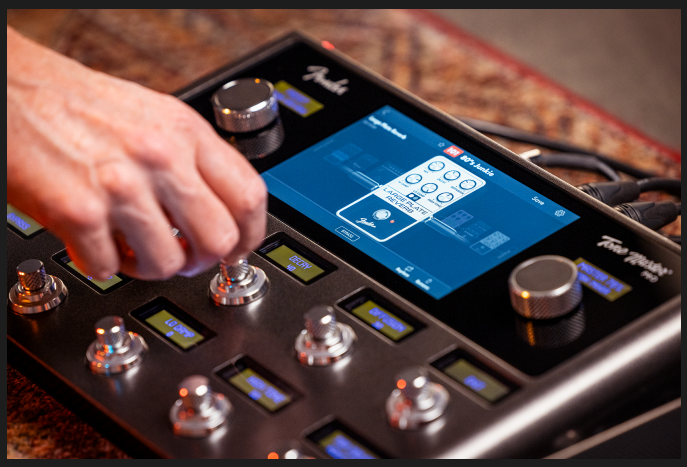
Imagine a versatile and powerful floor-mount digital audio processor that lets you easily craft and organize a world of personalized guitar sounds. Imagine state-of-the-art amplifier, cabinet, effects and microphone models—plus more—ideal for stage and studio alike, all controllable in real time by hand or foot.

That's the Tone Master Pro experience.

Connect straight to a PA system, your favorite amplifier, or both. Raise the roof or listen privately through headphones. Record directly into a DAW, and use the boundless modelling capabilities to process signals as you record them or to process previously recorded audio. Choose from a wealth of onboard presets or create your own and organize it all using gig-friendly Song and Setlist modes.

Tone Master Pro easily connects to your Mac or PC computer so you can select, edit, backup/restore and share your presets using the desktop Tone Master Pro Control app. Firmware can be updated by USB. Tone Master Pro's integrated effects loops will complement your larger pedalboard, too—connect your favorite pedals to the two analog loops, or connect one stereo or two additional mono effects for your ultimate live rig.



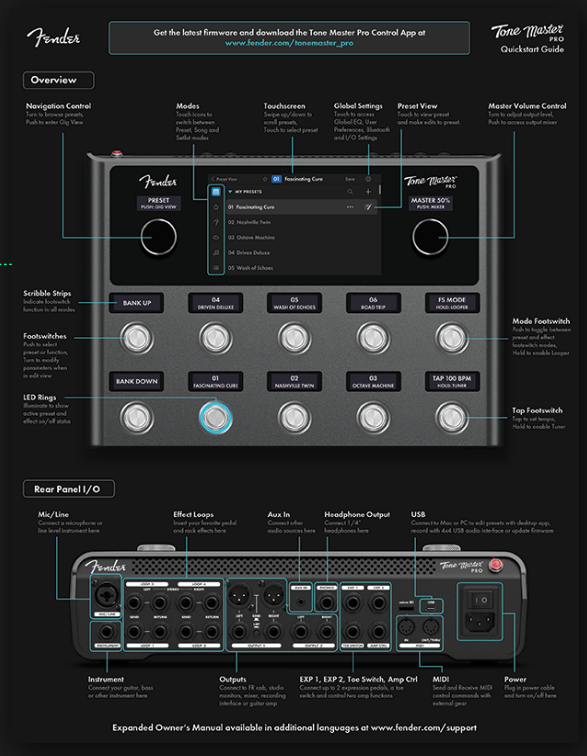




## GET STARTED RIGHT NOW

Can't wait to get started? Nothing could be easier. As soon as you take Tone Master Pro out of the box, just plug it in, turn it on and use the included quick-start guide to start getting great guitar sounds immediately.

In the meantime, the glossary that follows explains several common terms you'll run across as you learn your way around Tone Master Pro.



## GLOSSARY

**AUDITION:** Auditioning a preset or other signal path element means to sample it before selecting it for use.

**BLOCK:** A preset ingredient such as an an amplifier, speaker cabinet, effect unit, mixer, splitter, IR profile or external device in an effects loop.

**FS MODE:** Toggles footswitch layout between Presets and Effect footswitch modes.

**GIG VIEW:** A simplified touchscreen view of the currently active function, be it a preset, song list or a setlist. Ideal for real-time onstage use.

**GLOBAL EQ:** A 10-band graphic equalizer for easy adjustment of overall amp response to different acoustic environments; helpful when favorite presets and settings must be tailored to, for example, brighter- or boomier-sounding rooms, halls, outdoor areas, etc. Rather than re-adjust every preset and setting individually, users can quickly select among several preset options or create a custom settings for specific venues.

**IMPULSE RESPONSE (IR):** Digital audio processing that closely simulates the frequency response of a speaker cabinet as captured by a specific microphone and its placement. The combination of a particular microphone and its placement of it is often referred to as an IR profile. Tone Master Pro offers a variety of IR profiles.

**LATCHING SWITCH:** A footswitch type that remains active after it has been pressed. Press again to deactivate.

**MODE:** An operational level at which sounds are created and organized. Tone Master Pro has six modes: My Presets, Favorites, Factory Presets, Cloud Presets, Songs and Setlists.

**MOMENTARY SWITCH:** A footswitch type that is active only while held down.

**PRESET:** A combination of signal path blocks (amplifiers, effects, etc.) that creates a specific sound. Each amp and effect block has its own set of user-adjustable parameters that shape the sound in various ways. Tone Master Pro stores up to 504 user-created presets.

**SETLIST:** A group of songs (*see below*). Tone Master Pro stores up to 50 user-created setlists.

**SIGNAL PATH:** The route an audio signal travels from a source (such as an instrument or microphone) on its way to being amplified or recorded. A signal path almost always includes an amplifier and may include any number of effects. Tone Master Pro displays a graphic representation of the signal path in use.

**SONG:** A group of presets comprising a single specific musical selection (a song in the traditional sense). The presets correspond to specific parts of a musical selection such as an intro, verse, chorus, bridge, solo, outro, etc. Tone Master Pro stores up to 200 user-created Songs.

## QUICK START: BASIC CONNECTIONS

1. Connect a guitar or bass to INSTRUMENT input jack using a ¼" instrument cable.
2. Connect XLR cable from OUTPUT 1 left jack to input of an FR cabinet or studio monitors (2a); connect headphones to ¼" HEADPHONES jack (2b).
3. Turn Tone Master Pro on.
4. Turn FR cabinet or studio monitors on (if necessary).
5. Slowly increase volume to desired level.




*See pages 38-39 for detailed Tone Master Pro setup diagrams.*

# CONTROL PANEL/TOUCHSCREEN

Tone Master Pro's control layout is simple and easy to navigate. Navigation of Tone Master Pro can be done manually with the controls and touchscreen or by using the footswitches.

## A. NAVIGATION CONTROL

Multifunction rotary control with push function. Turn to select Presets, Songs or Setlists. Press to activate Gig View, which is a simplified touchscreen performance view.

## B. TOUCHSCREEN

Color 7" touchscreen displays all Tone Master Pro functions, including operating modes, preset selection, preset editing and other useful information.

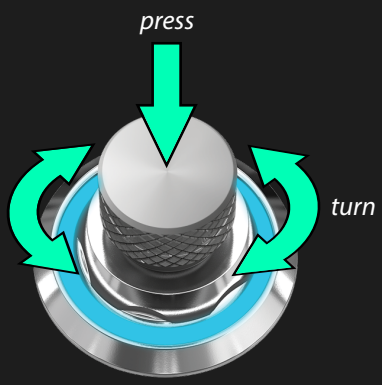
## C. MASTER VOLUME

Multifunction rotary control with push function. Turn to control volume for all outputs; press to activate mixer.




## D. FOOTSWITCHES/LED RINGS

Ten footswitches can be pushed to select presets, effects and other special functions. By default, two footswitches at far left select the preset bank; middle six footswitches are for preset or effect functions (depending on current footswitch mode); two footswitches at far right activate Presets or Effects footswitch mode, Looper, Tap Tempo and Tuner. The top of each footswitch is a rotary control for precise preset parameter editing. Multicolor LEDs surround each footswitch to indicate switch status; colors can be user-assigned to indicate effect or function type.




## E. SCRIBBLE STRIPS

Scribble strip displays above navigation control, master volume knob and footswitches indicate their function.

# REAR PANEL




**A. MIC/LINE INPUT:** Combination XLR -1/4" TRS balanced input for instrument or microphone.

**B. INSTRUMENT INPUT:** 1/4" input for guitar, bass or other instrument.

**C. EFFECTS LOOPS 1/2:** Two analog pre-buffer send/return loops for connecting external effects devices. Loop on/off status can be saved with each preset.

**D. EFFECTS LOOPS 3/4:** One stereo or two mono send/return loops for connecting external effects devices. These loops can be moved within the signal path. Loop on/off status can be saved with each preset.

**E. OUTPUT 1:** Two balanced XLR outputs and two balanced 1/4" line outputs for connecting to external sound reinforcement and recording equipment.

**F. GROUND LIFT:** Pushbutton helps alleviate hum when XLR outputs are connected to external sound reinforcement and recording equipment.

**G. AUX IN/PHONES:** 1/8" stereo aux input for connecting mobile devices and other external equipment; 1/4" output for headphones.

**H. OUTPUT 2:** Dual assignable 1/4" stereo outputs for connecting to external sound reinforcement and recording equipment, independent of OUTPUT 1 (E).

**I. EXP INPUTS:** For connecting external expression pedals to control effect parameters.

**J. TOE SWITCH:** 1/4" input for connecting to toe switch jack on an expression pedal for on/off control of effects.

**K. AMP CONTROL OUTPUT:** 1/4" TRS jack for remote control of up to two amplifier switching functions.

**L. MICRO SD CARD SLOT:** For future expansion of Tone Master Pro functionality.

**M. USB-C PORT:** Bi-directional connection point for USB audio recording, desktop editing and firmware updates.

**N. MIDI I/O:** Standard five-pin MIDI In and MIDI Out/Thru ports, for interfacing with MIDI-compatible devices.

**O. POWER:** Turns Tone Master Pro on and off. Red power jewel above switch indicates on/off status.

**P. IEC POWER INPUT:** Universal IEC input power. IEC cable included.

**Q. RESET:** Pinhole button for factory reset (*see closeup below*), which erases all presets and settings.

**R. UPDATE:** Button activates firmware update (*see closeup below*).




*See pages 36-37 for more details on Tone Master Pro rear-panel features.*

# GENERAL NAVIGATION

## OPERATING MODES

Tone Master Pro features and functions are easily navigated by using its six different modes—My Presets, Favorites, Factory Presets, Cloud Presets, Songs and Setlists. The six mode symbols are displayed along the left side of the touchscreen; when selected, related features and controls appear on the right side of the touchscreen and on the footswitch scribble strips.

## PRESET SELECTION

There are several different ways to browse and audition presets: Turn the navigation control, swipe through the touchscreen preset list and touch to audition preset, or select one of the six preset footswitches (use the bank up/down switches to navigate through all 504 presets in groups of six).

## FAVORITES

To designate a preset as a favorite, touch the star symbol just to the left of the preset number; the star will fill in blue and the preset will be added to the favorites list.

## PRESET NAME AND NUMBER

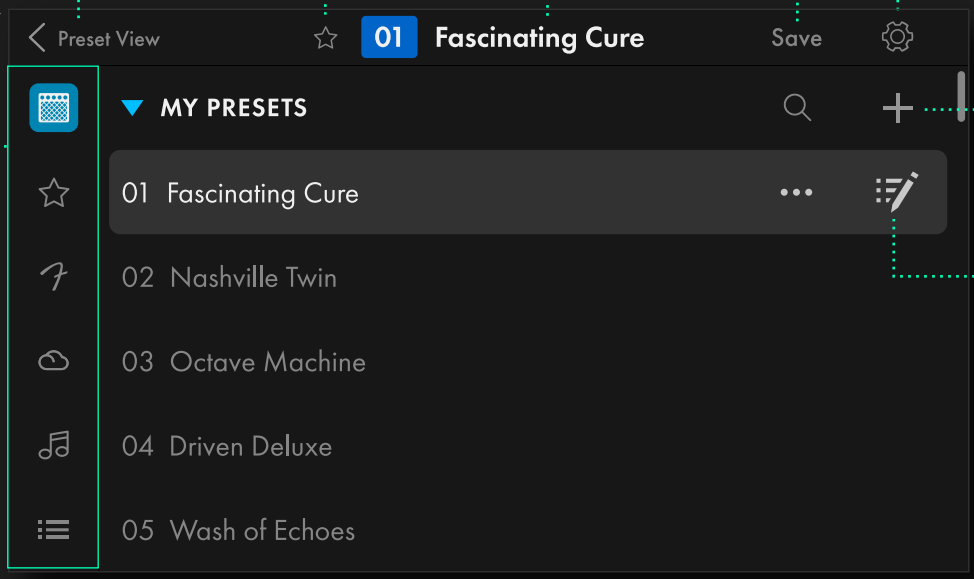
The top navigation bar displays the preset name and number. The blue preset number box will change to red when the preset is modified. Touch the Save symbol to the right of the preset name for saving options.

## GLOBAL SETTINGS

The gear symbol at upper right leads to the Global Settings menu for accessing user settings, global EQ, output mixer and more.

## PRESET/LIST VIEW

Toggle between Preset View and List View here.




## CREATE PRESET

Start here to create, name and save a personalized preset.

## MODES

Six mode symbols are listed along the left side of the touch screen—My Presets, Favorites, Factory Presets, Cloud Presets, Songs and Setlists. Select a mode by touching its symbol.

## EDIT PRESET

Start here to modify various parameters in a specific preset.




## FS MODE/LOOPER

Press the upper-right footswitch to toggle between Presets FS Mode and Effects FS Mode footswitch layouts; press and hold for two seconds to access the onboard looper.

## BANK UP/DOWN

Bank up and down through presets, songs and setlists in groups of six using the two footswitches at far left.

## TAP TEMPO/TUNER

Tap the lower-right footswitch twice or more to set tempos for time-based effects; press and hold for two seconds to access the onboard tuner.

Select presets using the six center footswitches in Presets FS Mode or control footswitch assignments in Effects FS Mode.

# MODES

When first turning Tone Master Pro on, the unit will power up in My Presets mode with preset 1 selected and its signal path visible. On subsequent power-ups, Tone Master Pro will show the last mode, setlist, song and preset used. In the first four Preset modes—My Presets, Favorites, Cloud Presets and Factory Presets—the user will see a list of presets available in that mode.

Tone Master Pro operates in one of six modes that allow access to presets, songs and setlists:

## MY PRESETS

Create and store up to 504 presets here. Presets are numbered and can be reorganized by drag-and-drop on the touchscreen. By default, My Presets contains duplicates of the Factory Presets. Touch the Edit Preset symbol ( ) to view and modify the preset signal path.

## FAVORITES

Create a list of your favorite presets for quick access by touching the star symbol at the top of the touchscreen. Touch star symbol next to preset name to add or remove presets from Favorites.

## FACTORY PRESETS

The factory preset list contains a wide variety of presets that cover various musical styles and show the full capabilities of Tone Master Pro. These presets can be used as a starting point for creating your own personalized presets. Note that factory presets are not numbered and cannot be permanently modified or deleted. Factory presets can be modified and then saved to My Presets.

## CLOUD PRESETS

Up to 100 cloud presets can be downloaded to Tone Master Pro by using the Tone Master Pro Control app (you'll need a Fender Connect account to access this feature). Note that Cloud presets aren't numbered—a cloud symbol appears instead ( ), and presets are listed in the order they were downloaded, newest first. Cloud presets can be modified and then saved to My Presets.

## SONGS

Songs mode allows creation of a custom bank of up to six presets necessary for the performance of a song. Tone Master Pro stores up to 200 Songs.

## SETLISTS

Setlist mode allows creation of a list of Songs (above) organized for a performance. Tone Master Pro stores up to 50 Setlists containing up to 99 songs each.

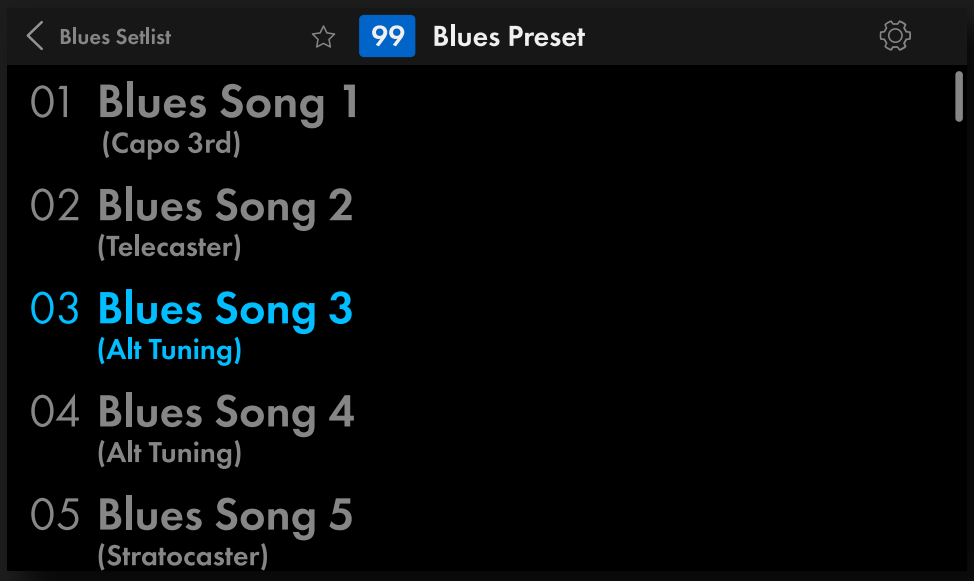
## GIG VIEW: PRESET MODES

One of the most useful preset features is Gig View, which is a simplified view available in My Presets, Favorites and Factory Presets modes. It's an ideal onstage performance view that displays only the active preset name and number—useful when you already have your presets dialed in and want to avoid accidental preset edits. To activate Gig View, press the navigation control; press again to exit.




## GIG VIEW: SONGS AND SETLISTS MODES

Songs and Setlists modes offer a variation on Gig View. In Songs mode, pressing the navigation control shows an alphabetized list of all songs; in Setlists mode it shows a numbered list of songs in the selected setlist. In both views the currently loaded song will be highlighted, and helpful brief song notes can be added in parentheses (*see page 25*).



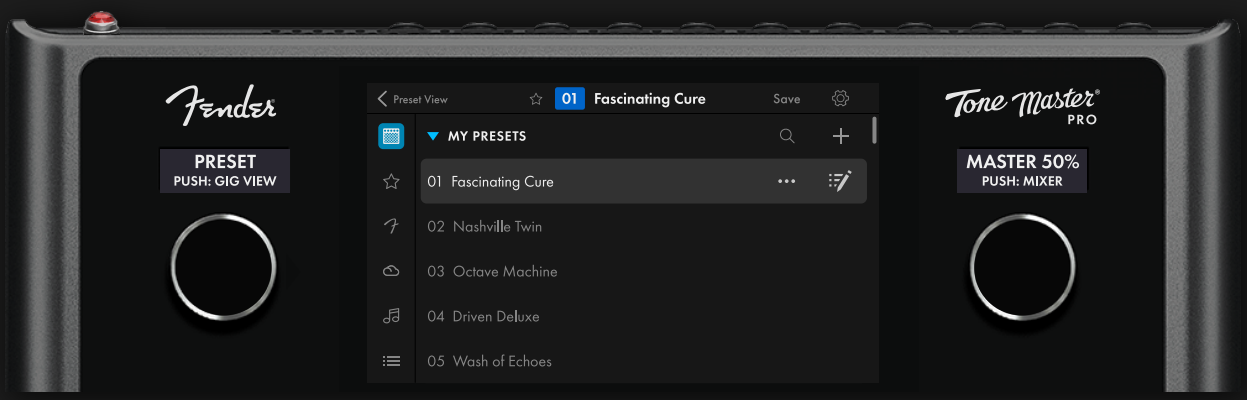
# PRESETS

Presets are combinations of amps, speaker cabinets, effects, impulse responses and more that make up your signal path. They are easy to create, modify, save, rename and even share. Tone Master Pro can store up to 504 user-created presets.

## PRESET BASICS

In My Presets mode, you can create, edit and name hundreds of presets, which can be reorganized by drag-and-drop on the touchscreen. Out of the box, My Presets contains duplicates of the Factory Presets.

**LIST VIEW:** This view allows easy preset browsing and mode switching:




**PRESET VIEW:** This view allows access to the preset signal path and various editing capabilities:



## NAVIGATING PRESETS: LIST VIEW

By foot, the two bank up/bank down footswitches at far left allow navigation through the list of presets in groups of six. The scribble strips above each footswitch indicate active preset names and numbers. The currently selected preset is indicated by the illuminated LED ring around the corresponding footswitch. Turning the navigation control loads the next or previous preset. In List View, you can also scroll through the preset list by swiping up and down on the touchscreen.

**EDIT PRESET/PRESET VIEW:** To enter Preset View to edit the current preset, touch the Edit symbol ( ) or touch Preset View in upper left corner.

**CREATE PRESET:** Touch the Create Preset symbol (+) at the top of the preset list, which selects the first empty preset slot, or turn the navigation control to scroll to an empty preset slot. An empty signal path will appear, ready to be populated with amps, effects and other signal path blocks. If all user preset locations are full, an "All user preset locations are full" message will appear.

**CLEAR PRESET:** Clear the contents of a preset by touching the More Options symbol (•••) to the right of the preset name and selecting CLEAR PRESET. This removes all blocks from the signal path, resets the preset name to EMPTY and resets all preset settings to default.

**SEARCH PRESETS:** Touch the search symbol ( ) to search presets within the current mode.

**REORDER PRESETS:** Drag-and-drop presets to reorder in list (hold preset for one second, then move to desired location). This will renumber presets automatically.

**ADD PRESET TO FAVORITES:** Add a preset to your Favorites list by touching the star by the preset number at the top of the touchscreen. The star turns blue and the preset is now added to the top of the Favorites list. Favorite presets can be reordered by drag-and-drop on the touchscreen (note that they keep their original number regardless of order). To remove a favorite preset from Favorites, simply touch the star again.



## EDITING PRESETS: PRESET VIEW

In Preset View the touchscreen shows the preset view for the currently loaded preset. All signal path elements are shown, with the preset name, number and navigation symbols displayed in the upper ribbon, and an array of editing categories displayed in the lower ribbon. The signal path consists of an input, an output and blocks (amp and effects models and other signal path elements) in between. Amps, effects and other elements are easily added, moved and deleted from the signal path. To edit any block simply touch it to see a close-up view of its controls. When the signal path is wider than the screen, swipe left or right to see additional blocks.




## PRESET VIEW: UPPER RIBBON

The upper ribbon has several basic preset view controls, each activated simply by touching them. From left to right, these include:

- **LIST VIEW:** When editing a preset, touch the List View back arrow at upper left to return to list view.
- **FAVORITE STAR:** For designating presets as favorites. To do so, simply touch the star, which will then turn blue.
- **PRESET NUMBER BOX:** The box containing the preset number is blue by default; it turns red when the preset has unsaved changes.
- **SAVE:** When editing a preset, touch SAVE for a menu of saving options.

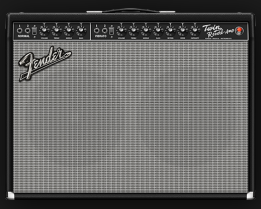
## PRESET VIEW: LOWER RIBBON

To modify the current preset, the signal path view shows an array of editing categories in the lower ribbon; touch one to get a settings options menu specifically for that category. Editing categories are:

- **EXP ASSIGN:** For assigning expression pedal and toe switch functions.
- **FOOTSWITCH ASSIGN:** For configuring a variety of footswitch functions in Effects mode.
- **PRESET SETTINGS:** For selection of preset-level options.
- **ADD BLOCK:** For adding blocks to the signal path.
- **TAP TEMPO/BPM INDICATOR:** Displays preset tempo in BPM.

## BLOCK TYPES

### COMBO AMPS



Many combo amps are available, each paired with a default cabinet. Alternate cabinet and speaker configurations can be selected, and each combo amp included in Tone Master Pro loads a collection of Impulse Responses captured with a variety of microphones in multiple mic positions for the most realistic-sounding cabinet simulations (see *page 16*). Changing the default cabinet for a combo amp will result in the preset view displaying a half stack with an amp head atop the newly selected cabinet.

*See the Tone Master Pro Model Guide for detailed combo amp model descriptions.*

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### AMP HEADS




Each combo and half stack amp is also available in an amp head format that does not include a default cabinet. This enables more advanced signal routing options such as multiple cabinets in parallel, cabinet switching, effects placed between amp and cabinet, or the use of third-party impulse responses.

*See the Tone Master Pro Model Guide for detailed amp head model descriptions.*

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### HALF STACKS

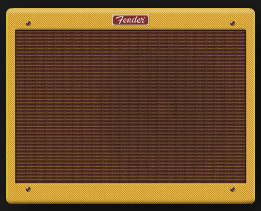



A wide variety of half stacks is available, each paired with a default cabinet. Alternate cabinet and speaker configurations can be selected. Each half stack included in Tone Master Pro loads a collection of Impulse Responses captured with a variety of microphones in multiple mic positions for the most realistic-sounding cabinet simulations (see *page 16*).

*See the Tone Master Pro Model Guide for detailed half stack model descriptions.*

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### CABINETS



A variety of open and closed-back speaker cabinets with microphone and mic placement options.
Each cabinet included in Tone Master Pro loads a collection of Impulse Responses captured with a variety of microphones in multiple mic positions for the most realistic-sounding cabinet simulations (see *page 16*).

*See the Tone Master Pro Model Guide for detailed cabinet model descriptions.*

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### EFFECTS




Select one of six effects sub-categories: Stompbox, Modulation, Delay, Reverb, Dynamics + EQ and Filter + Pitch.

*See the Tone Master Pro Model Guide for detailed effect pedal model descriptions.*

## BLOCK TYPES (CONTINUED)

### FX LOOPS




Tone Master Pro has four effects loops for connecting up to four external effects. Loops 1 and 2 are mono relay-based loops positioned immediately after the instrument input jack (before the signal is digitally converted); their positions are fixed and cannot be moved in the signal path. Loops 1 and 2 are especially useful when connecting, for example, vintage-style fuzz pedals that are sensitive to other devices preceding them in the signal path. Loops 3 and 4 are available as dual mono loops or a single stereo loop; they can be positioned anywhere in the digital signal path after Loop 2.

To connect an external effect to an effects loop, run a 1/4" instrument cable from the effects loop send jack to the effect unit input jack, and run another cable from the effect unit output jack to effect loop return jack. For routing additional external effects anywhere in the signal path using the rear-panel send/return jacks for effects loops 3, 4 and 3+4.

### SPLITTER/MIXER



Some routing templates contain one or more parallel paths to enable routing of amps and effects in parallel. A parallel path consists of a splitter, a mixer, an upper path and a lower path. The splitter is represented by the symbol on the left; it splits the signal into dual paths that can be populated with amp or effect blocks. The splitter is located in a fixed position and cannot be added from the list of effects.

The mixer is represented by the symbol on the right; it controls level and panning when the parallel signals are combined. To modify mixer settings, touch the mixer symbol and swipe up or down on the controls to adjust level and panning for the upper and lower paths; alternately, single-touch either control for a gradient slider that enables more precise adjustment.

### IMPULSE RESPONSE (IR)




The Tone Master desktop app enables loading of third-party IR profiles to Tone Master Pro. Tone Master Pro supports third-party speaker cabinet impulse responses that can be downloaded using the Tone Master Pro Control desktop app. Up to two Impulse Response (IR) blocks can be placed anywhere in the digital signal path after Loop 2.

To edit IR parameters, touch the IR block symbol in preset view; parameters are Speaker Impedance Curve, Level, Low-Cut Filter, High-Cut Filter and Bypass. The Speaker Impedance Curve (SIC) changes how the amp model interacts with the selected IR. Choose a SIC option from the list that is appropriate for the selected IR (cabinet type and/or speaker), or simply select one that sounds best. The filters can help remove unwanted high and low frequencies from the IR. Touch the Low-Cut or High-Cut filter controls to view a gradient slider for selecting the preferred cut-off frequencies.

To install third-party impulse responses on Tone Master Pro, visit www.fender.com/tonemaster_pro and download the Tone Master Pro Control app.

## EDITING BLOCK PARAMETERS

In preset view, touch any amp or effect block to modify or replace it. The screen will zoom in on the selected block, allowing access to block-specific parameters.




Touch a control and slide your finger up or down to set a control to preference. For switches, tap to set to preferred position. Alternately, a single tap on any individual control knob will activate a gradient slider on the right side of the screen. Slide your finger up or down the gradient to set the control to preference; use the +/- buttons below the gradient slider for fine tuning. Touch elsewhere on the screen to close the gradient. Another way to change a block's parameter settings is to use the rotary control function of the footswitches. When modifying a block, up to six of its visible control parameters are assigned to the middle six footswitches, with each parameter's value appearing in the scribble strip above the footswitch. Turn the footswitch to change the parameter's setting.

If more than six parameters are available, page dots under the controls will appear, indicating the number of additional pages. Touch the dots to access additional pages of parameters. Touch the dots on the last page to return to the first page of parameters. Alternately, press the PAGE footswitch at upper left to view additional parameter pages (press and hold PAGE footswitch to save modified preset).

Up to five custom block settings can be stored per amp, effect or cabinet block. After adjusting block parameters to preference, custom Block Settings can be created for use in other presets. To save favorite user settings for a block, enter the Block Settings menu (•••) and select Save Block Settings. Enter a custom block name and select Confirm. The Block Setting will now appear in the model list in the Add/Replace menus. See page 15 for instructions on adding a block to a preset.

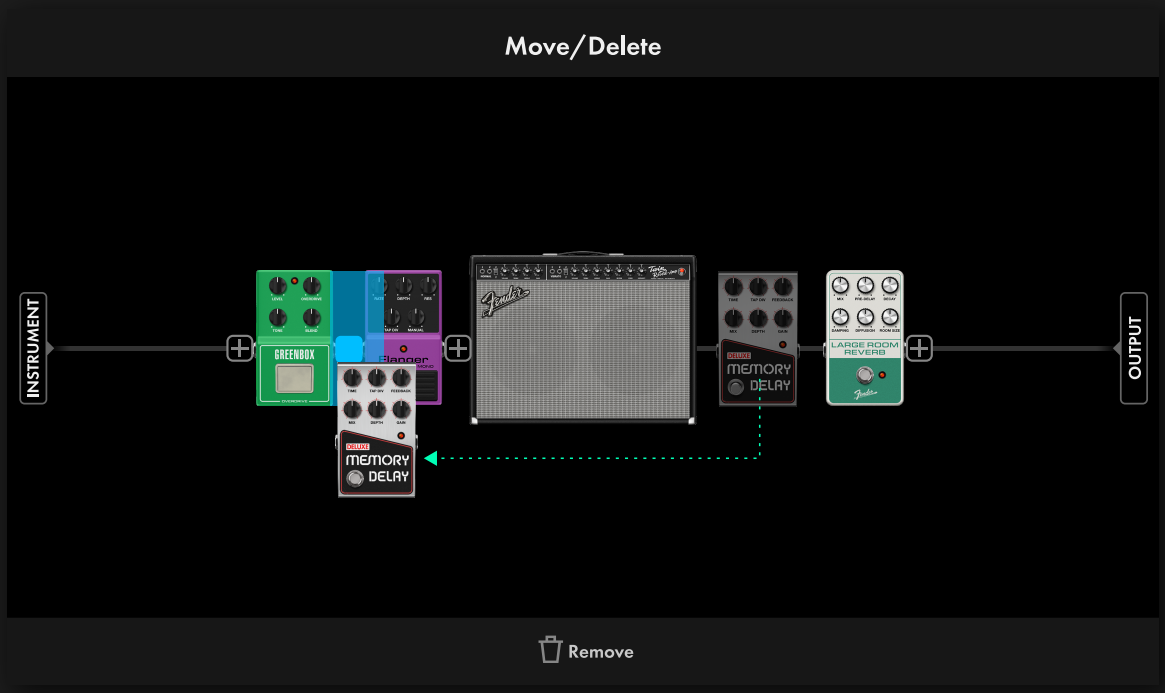
Swipe left or right on the touchscreen to move to adjacent blocks in signal path for modification. This applies to all amps and effects in the signal path. Note that instrument and mic/line signal paths are completely separate for swiping. For example, in a preset with active instrument and mic/line signal paths, swiping left or right on the instrument signal path will only show blocks in the instrument signal path. To edit a block in the same preset in the mic/line signal path, the user must exit edit mode and select a block in the mic/line signal path in order to swipe left or right in that path only. For complex parallel signal paths, swiping order works according to the equivalent series signal path (left/right, top/bottom).

- **BYPASS BLOCK:** To disable a selected block without removing it from the preset, touch BYPASS in the lower ribbon. The bypassed block will appear grayed-out in the preset view, and the BYPASS button will turn blue in the lower ribbon.
- **REPLACE BLOCK:** selected block with another, touch the Replace symbol (🔁) in the lower ribbon and follow the instructions for adding a block to choose another one.
- **REMOVE BLOCK:** To remove a selected block, touch the trash can symbol (🗑) in the lower ribbon.

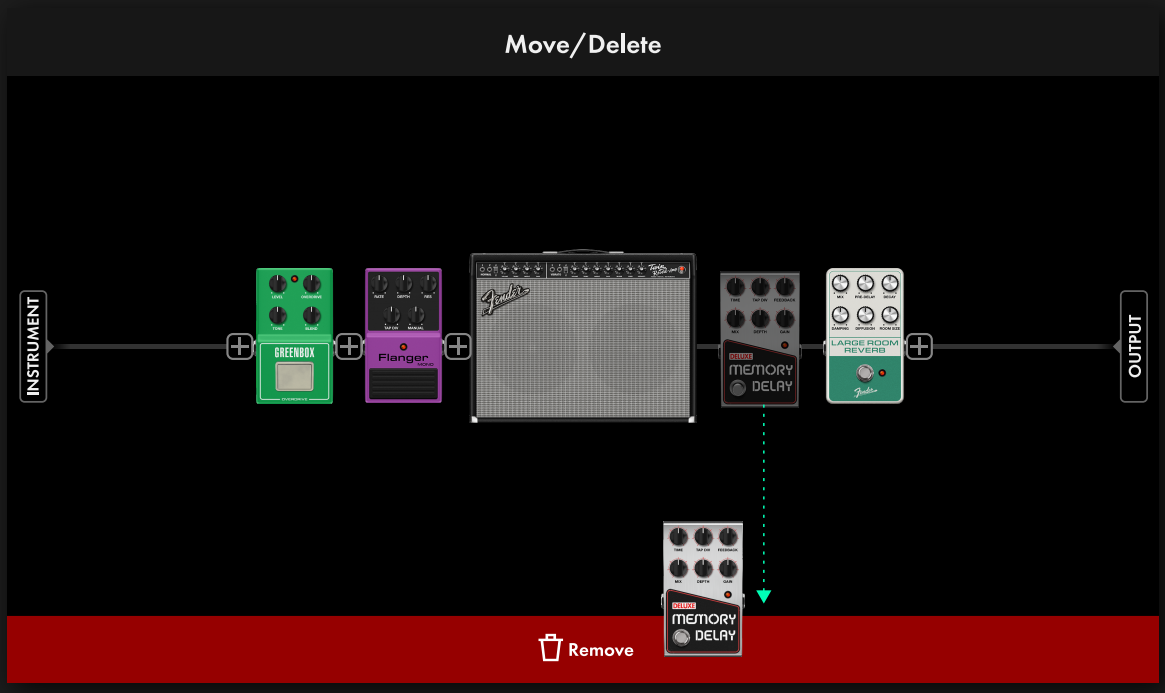
At any time, touch the back arrow at left in the upper ribbon to return to preset view.

## MOVING/DELETING BLOCKS

To move a block to another position in the signal path, drag-and-drop to any available node on the screen:

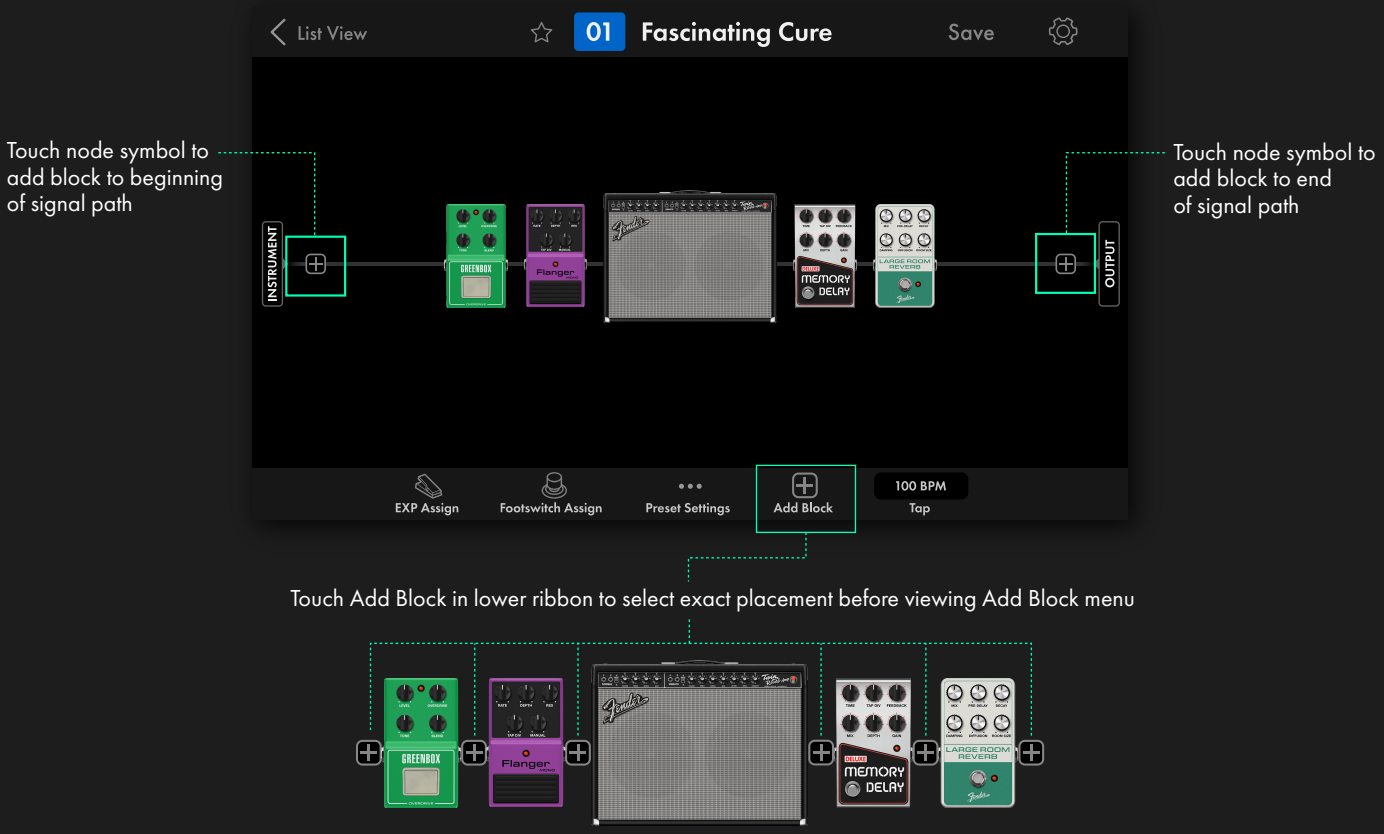



To remove a block from the preset, drag-and-drop to the bottom of the screen:



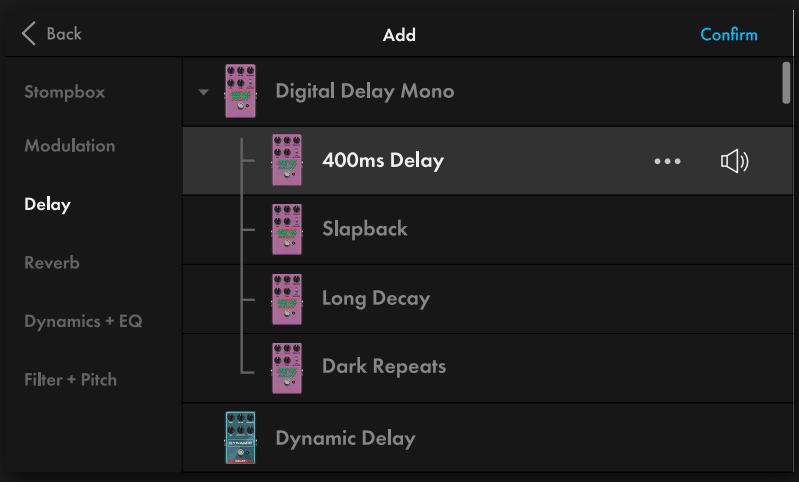
## ADDING BLOCKS TO SIGNAL PATH

To add a block to a preset, touch Add Block in the lower ribbon. The signal path will show nodes (⊕) that indicate where blocks can be added. Select a node by touching it. A selection screen to choose categories and types of amps, effects and other signal path elements is shown, with categories listed on the left side of the screen and the items in each category listed in the main body of the screen.




## ADD BLOCK MENU

- Select a category (amps, cabinets, effects, etc.) by touching it.
- Swipe up and down on the list of models at right and touch to audition.
- An arrow icon (▾) icon next to a block name indicates that it has user-created Block Settings. When selected, the block will expand to show up to five stored Block Settings with custom names. The first block in the list is its factory default setting. Touch a Block Setting to audition it in the signal path. Touch the (•••) menu for a Block Setting to rename or delete it from the list. Touch Confirm to load the selected Block Setting and return to Preset View.



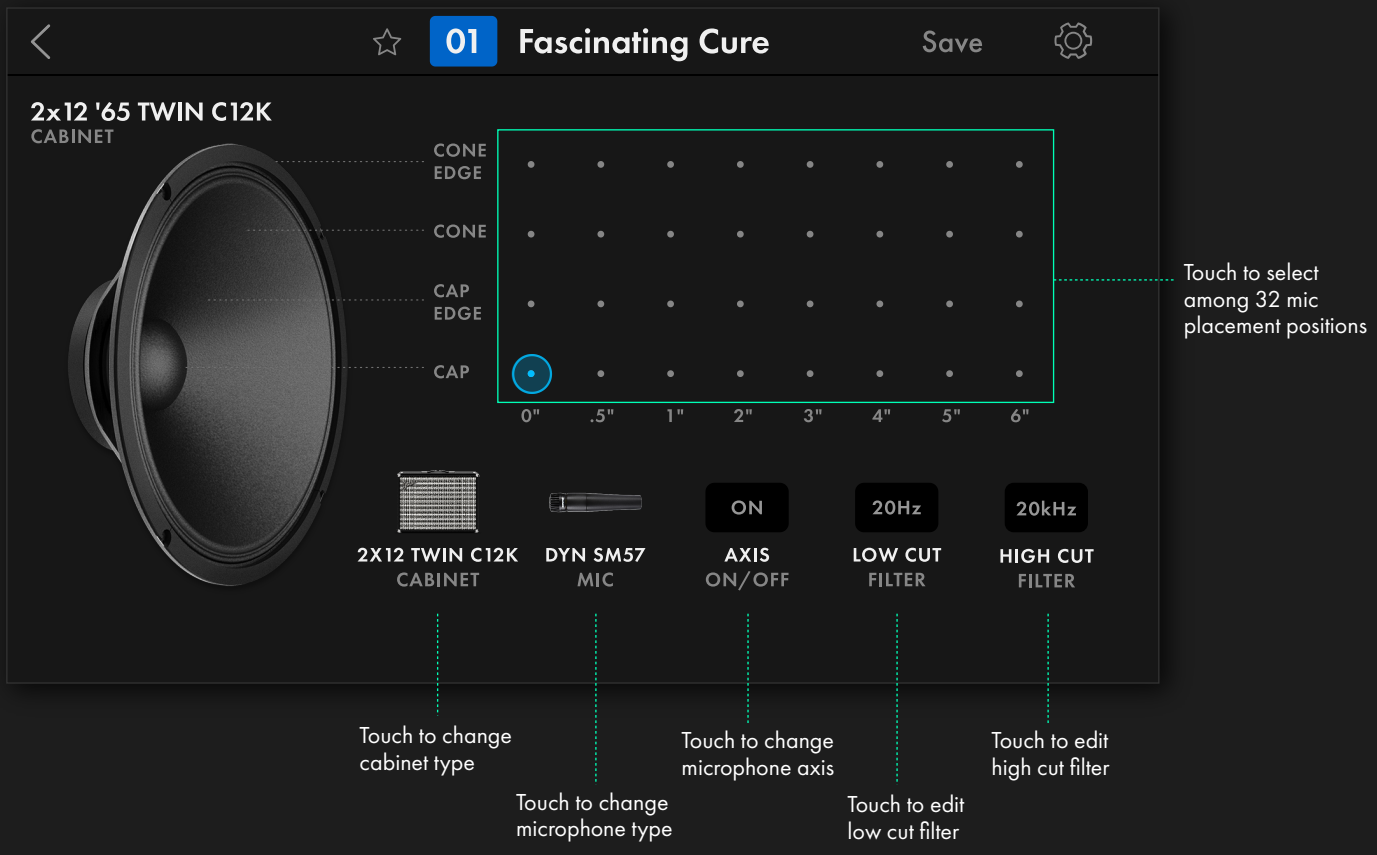

- Place a selected block in the signal path by touching CONFIRM at upper right; this returns the user to the preset view with the new block added at the selected node. Additional blocks can be populated until Tone Master Pro indicates that no more can be added, at which point some models in the selection menu will appear as grayed out.
- Cancel adding a block by touching CANCEL at upper left; this returns the user to the preset view without adding a new block.

## CABINET SETTINGS

For combo and half-stack amplifier blocks, touch the small cabinet image at upper right to view available speaker cabinet options. Touching a cabinet block from signal path will provide same set of options. A screen appears with cabinet options including cabinet model, microphone model, microphone position, microphone on/off axis, low-cut and high-cut filters:

- **CABINET:** Touch the cabinet symbol to see a list of available cabinets. Touch a cabinet to select it and return to cabinet settings.
- **MIC:** Touch the microphone symbol to see a list of available microphones (see *the Tone Master Pro Model Guide for detailed microphone model descriptions*). Touch a microphone to select it and return to cabinet settings.
- **MIC POSITION:** For each cabinet a microphone can be placed at one of 32 locations that determine its vertical position on the speaker and horizontal distance from the grill. Touch a dot on the matrix shown to select one of four mic positions (cap, cap edge, cone, cone edge) at eight different distances (in inches). Each microphone position loads a unique Impulse Response based on the selected cabinet position and distance.
- **MIC AXIS:** Touch the Axis button to choose one of two microphone orientations: on-axis (pointed straight at cabinet) and off-axis (pointed at cabinet at a 45-degree angle to reduce treble frequencies).
- **FILTERS:** Touch the Low-Cut and High-Cut filter buttons to access a gradient slider control for selecting preferred cut-off frequencies at either end of the audio spectrum.

If using Tone Master Pro to drive an external guitar speaker cabinet (non-FR) with a solid-state power amp (non-tube), select the EXTERNAL CABINET option from the bottom of the Cabinet select list (lower left in image below). The Speaker Impedance Curve (SIC) parameter changes how the amp model interacts with the connected cabinet. Choose a SIC option from the list that is appropriate for the type of cabinet and speaker, or simply select one that sounds best.



## PRESET SETTINGS MENU

In addition to populating the signal path and editing block parameters, the Preset Settings symbol (•••) at the center of lower ribbon allows selection of several preset-level parameters, including:

- **PRESET VOLUME:** For normalizing volume of all presets using a range of 0-100%.
- **SIGNAL PATH TYPE:** For selection of audio routing templates with various combinations of series/parallel blocks and input sources.
- **INPUT IMPEDANCE:** This parameter allows selection of several combinations of analog hardware input impedance and capacitance. These simulate the actual input impedance of the modeled amps and effects; changing this parameter alters the signal level and tonality as if the guitar pickups were interacting with the actual amp or effect. Options are:

  **AUTO-IMPEDANCE (DEFAULT):** Automatically selects an appropriate impedance and capacitance based on the first active amp or effect in the signal path.

  | | |
  |---|---|
  | 22k ohms | 330k ohms with 330pF capacitance |
  | 22k ohms with 330pF capacitance | 1M ohm |
  | 330k ohms | 1M ohm with 330pF capacitance |

- **OUTPUT ASSIGN:** For routing instrument or microphone signal paths to rear-panel hardware outputs. Options are OUTPUT 1, OUTPUT 2 and HEADPHONES.
- **PRESET MIDI:** Up to five MIDI messages can be sent per preset; each consists of a MIDI Channel, Program Change Number, CC Number and CC Value. This is useful when integrating other MIDI-compatible devices with Tone Master Pro.
- **PRESET SPILLOVER:** On/off control (per preset) for hearing delay/reverb tails when changing presets.
- **AMP CONTROL 1/2:** Controls external amplifier (or other gear) switching functions such as channel select and reverb on/off; or bypass for products that use tip/sleeve shorting jacks. Use a TRS to dual TS splitter cable to access both control functions (see *image below*).



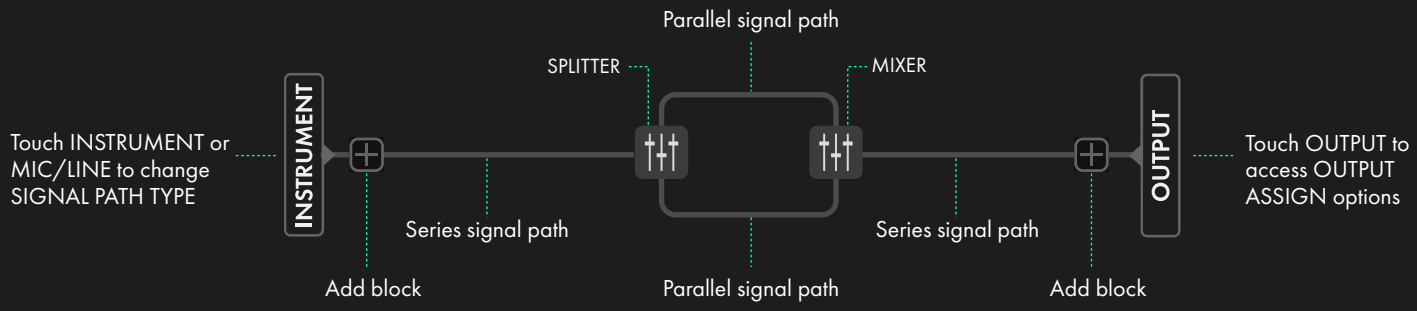
## SIGNAL PATH TYPES

One of the user-adjustable parameters in the signal path lower ribbon is Signal Path Type, of which there are several to choose among.To do so, touch the Preset Settings symbol (•••) in the lower ribbon, touch Signal Path Type in the Preset Settings menu, then touch one of the signal path templates to load it. A template can be changed after a signal path is populated with amps, effects and other blocks, which will repopulate the signal path in the new template. Note that Signal Path Type can also be accessed by selecting either INSTRUMENT or MIC/LINE at far left of the preset view.

| | |
|---|---|
| **Instrument Series** | **Instrument + Mic/Line Parallel** |
| **Instrument Parallel 1** | **Instrument + Mic/Line Mix 1** |
| **Instrument Parallel 2** | **Instrument + Mic/Line Mix 2** |
| **Instrument + Mic/Line Series** | **Instrument + Mic/Line Mix 3** |
| **Mic/Line Series** | **Instrument Split** |
| **Mic/Line Parallel 1** | **Mic/Line Split** |

## SIGNAL PATH COMPONENTS

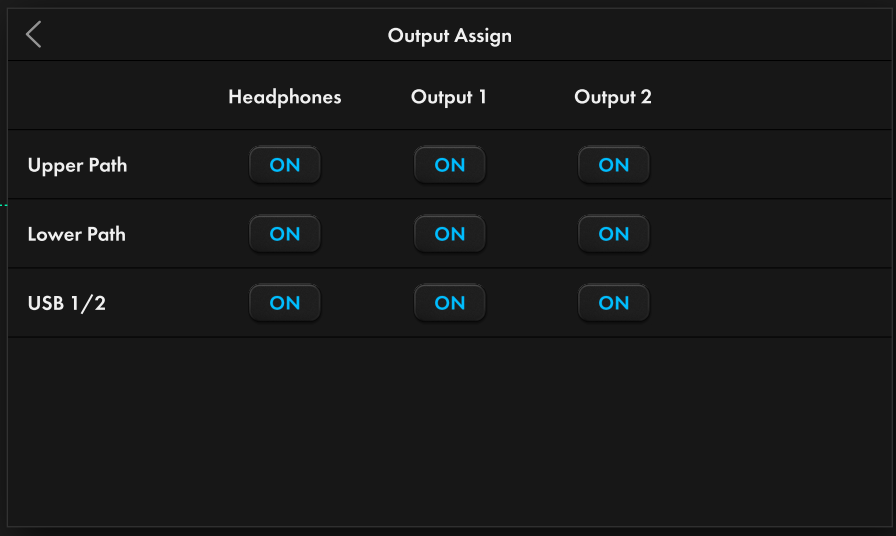
Illustration below shows example of INSTRUMENT PARALLEL 1 signal path to show various components of signal path.




## OUTPUT ASSIGN

Output Assign is accessed by selecting OUTPUT at far right of the preset view, or from the Preset Settings menu.

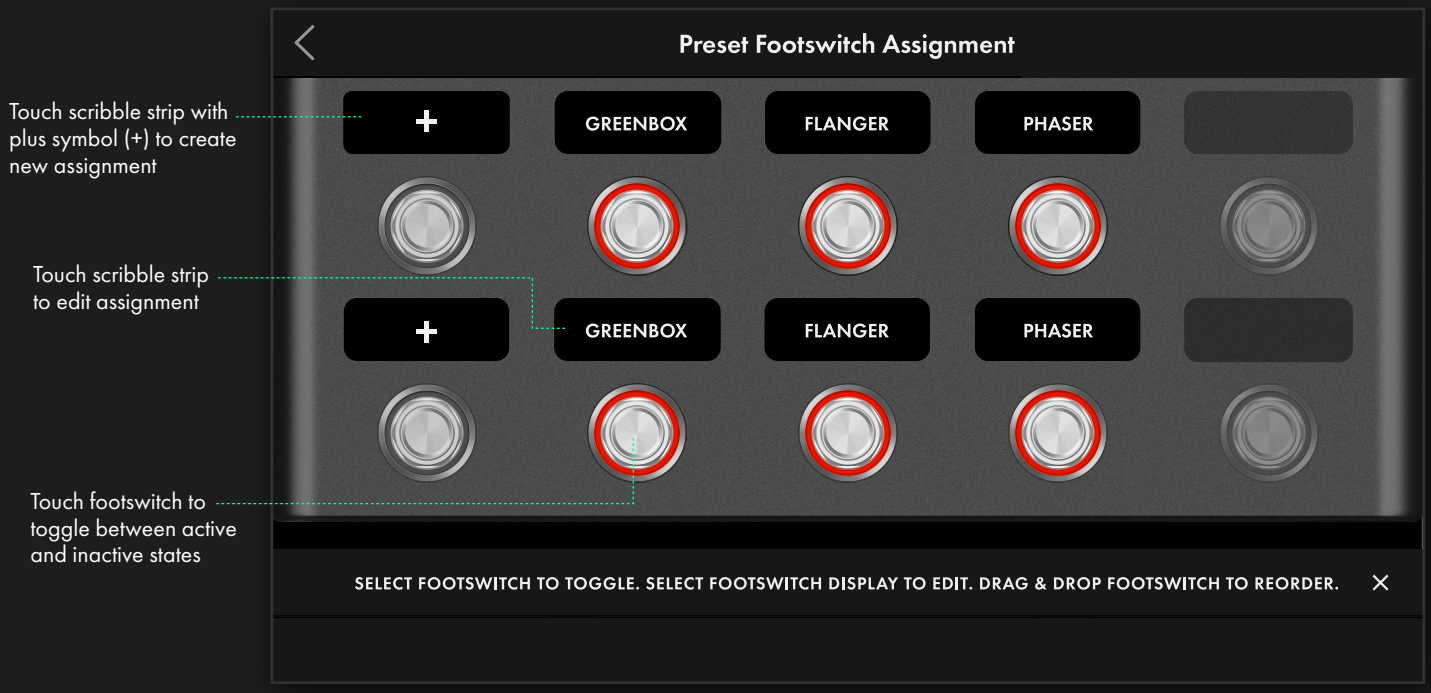
The far-left side of the Output Assign menu lists the preset elements (Upper Path, Lower Path and USB 1/2) that can be routed to the rear-panel HEADPHONES, OUTPUT 1 or OUTPUT 2 jacks. Touch the buttons under each output type to toggle selections on and off.



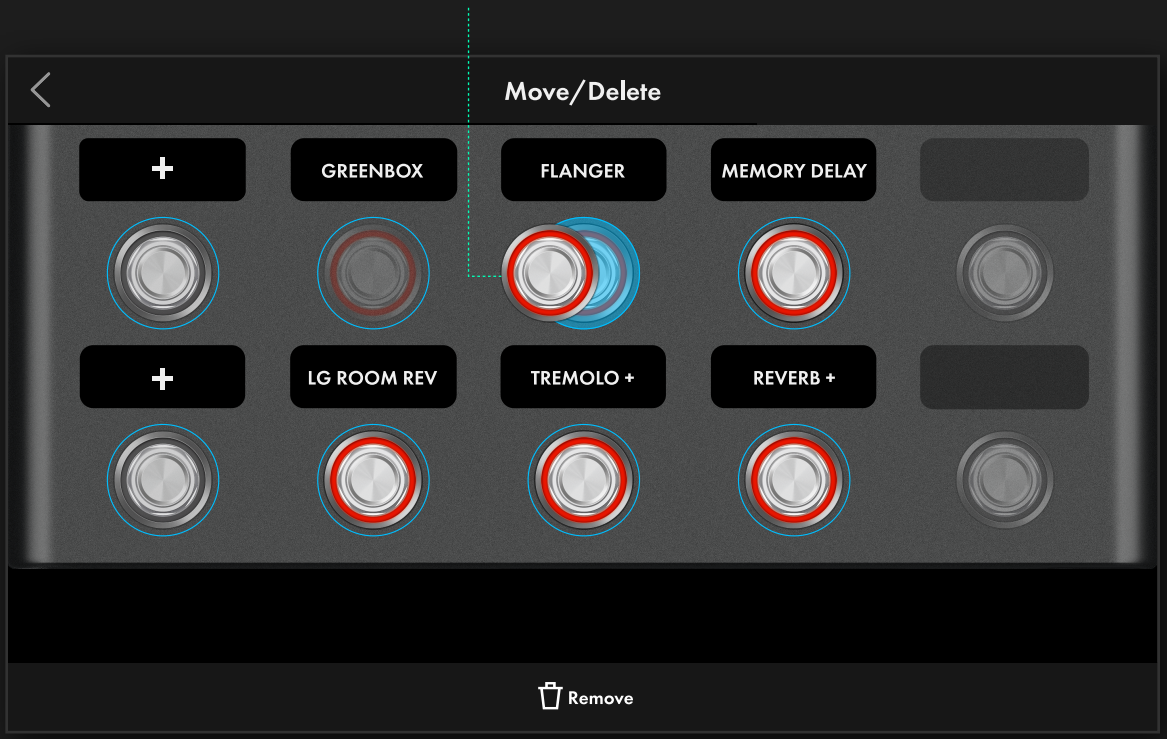
## PRESET FOOTSWITCH ASSIGNMENT

In the preset view, the Footswitch Assign button in the lower ribbon lets the user access control options in both Effects and Presets modes, with functions that can be assigned to each footswitch, including ON/OFF, PARAMETER CHANGE, AMP CONTROL 1/2 and MIDI CC. Each footswitch can then accommodate up to five control functions to create distinctive and complex assignments with a single press of a footswitch.

To assign functions to the footswitches, touch Footswitch Assign in the lower ribbon. The screen will show eight assignable footswitches and their scribble strips. To assign a function to a footswitch, touch any scribble strip displaying a plus sign (+), then select the Assignment Type and select block(s) to be controlled with the assignment.

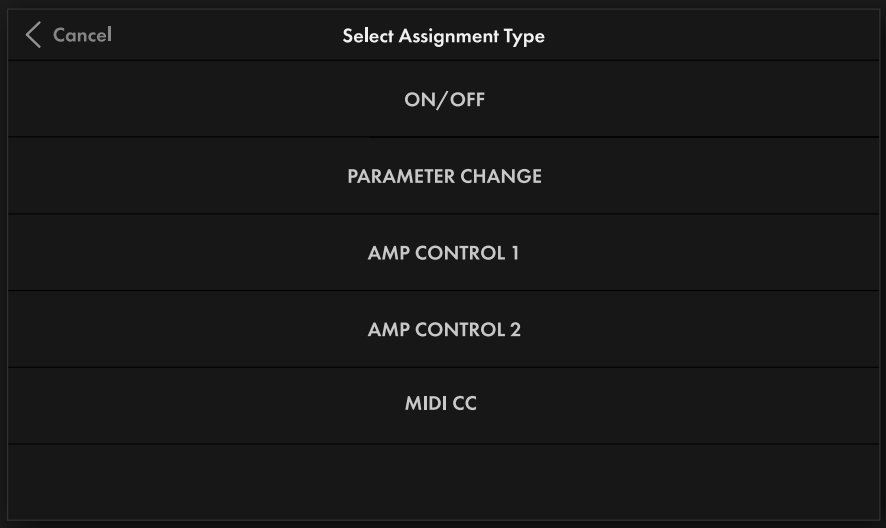



Drag-and-drop a footswitch assignment to swap with another footswitch; remove an assignment by drag-and-drop to bottom of screen:



## FOOTSWITCH ASSIGNMENT TYPES

The first step to creating a footswitch assignment is to select the desired assignment type:




- **ON/OFF:** Delivers true stompbox functionality by turning multiple (one or more) blocks on and off simultaneously. By default, the on/off status of an individual block will remain in sync with the footswitch LED.On/off functions can also be used to toggle between two or more blocks for A/B selection. To configure this, assign each block, then return to preset view using the back arrow and bypass one or more of the assigned blocks by touching it and selecting the BYPASS switch in the lower ribbon. Pressing the footswitch will now A/B toggle between the two assigned blocks, which is useful for engaging multiple effects and amps (for example, one clean and one dirty) during performance. Note that there is no limit to how many blocks can be assigned to a single on/off assignment.

- **PARAMETER CHANGE:** Assign a footswitch to toggle between two control settings on an amp or effect. After assigning a footswitch as described above, touch PARAMETER CHANGE in the Select Assignment Type screen. In the signal path shown, touch an amp or effect blocks to be controlled with the selected footswitch; then touch CONFIRM. After assigning a block to the Parameter Change assignment, the Select Parameter screen shown will display the control parameters for the selected block. Touch the specific parameter to be controlled, then confirm the active and inactive values by sliding a finger on the gradient slider.

  For example, a footswitch can be assigned to control a reverb mix with two different settings, such as 50 percent and 15 percent. One percentage can be assigned as the active footswitch value and the other as the inactive value; the footswitch will then toggle between both values. The selected control values with be displayed in the Preset Assignment screen, along with the color, switch and custom label parameters described above. One block can be assigned per Parameter Change assignment.

- **AMP CONTROL 1/2:** Assign a footswitch to control switching functions on external devices using the rear panel AMP CTRL jack. After assigning a footswitch as described above, touch AMP CONTROL 1 or AMP CONTROL 2 in the Select Assignment Type screen. In the Preset Footswitch Assignment screen shown, the user can configure active and inactive LED colors, momentary or latching switch operation and custom labeling.

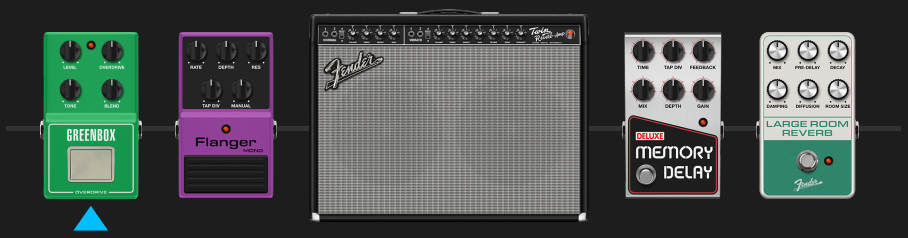
  To access both AMP CONTROL 1 and AMP CONTROL 2 functionality from the single rear-panel AMP CTRL jack, a 1/4" TRS-to-dual mono insert cable is necessary (tip is AMP CONTROL 1; ring is AMP CONTROL 2). For example, AMP CONTROL 1 can be used to control the channel switching on an external amplifier, while AMP CONTROL 2 can be used to control reverb on/off.

- **MIDI CC:** Assign a footswitch to send MIDI continuous controller messages. After assigning a footswitch as described above, touch MIDI CC in the Assignment Type screen. In the Preset Footswitch Assignment screen shown, the user can configure MIDI Channel, MIDI CC Number, active and inactive values, active and inactive LED colors, momentary or latching switch operation and custom labeling.

Powerful footswitch assignments can be made by combining them; these will appear as MULTI in the scribble strips (like any other, this name can be changed by creating a custom label).

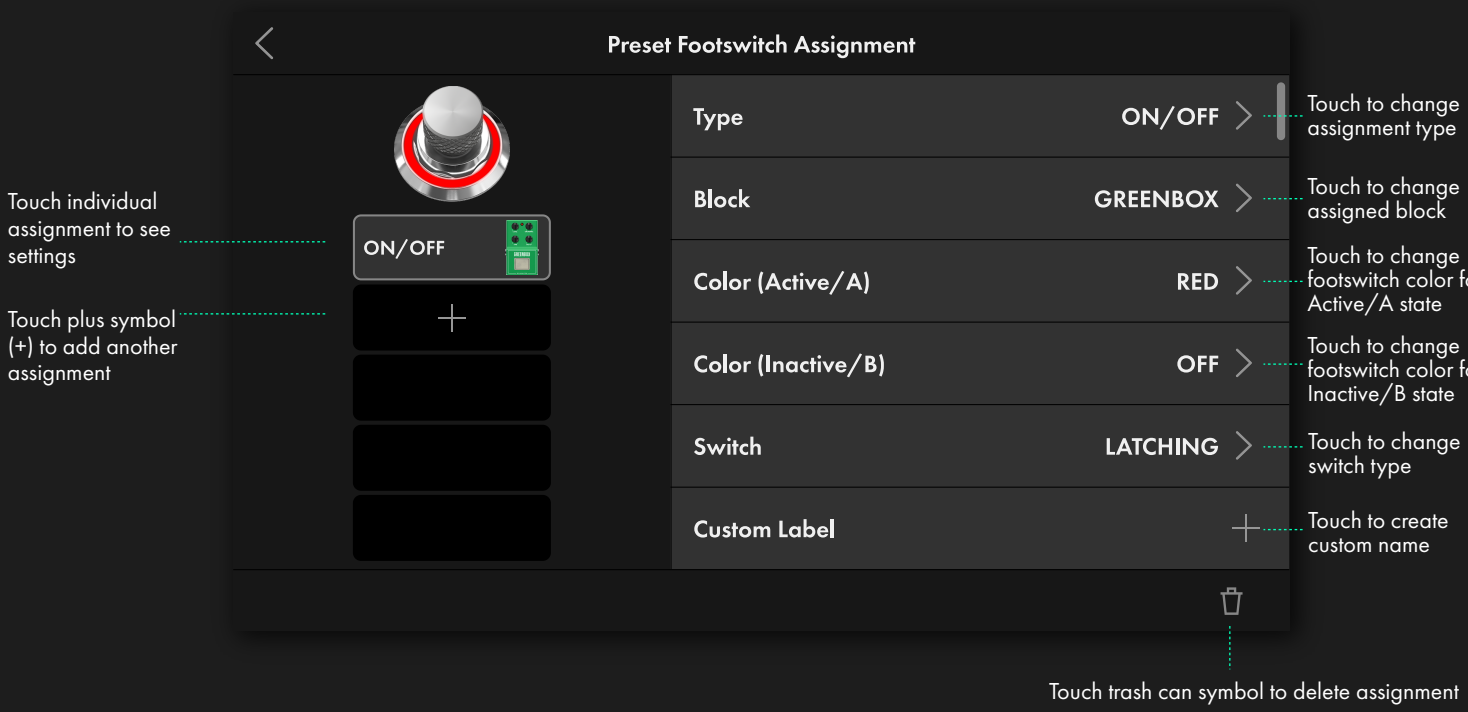
## ASSIGNING BLOCKS TO FOOTSWITCH ASSIGNMENT

After selecting on/off or parameter change assignment types, select the block(s) to be controlled with the footswitch assignment. The selected block(s) will have a blue arrow underneath to indicate selection. Touch CONFIRM to complete assignment.




## PRESET FOOTSWITCH ASSIGNMENT SETTINGS

Example below of Preset Footswitch Assignment Settings screen for an ON/OFF assignment. The left side shows up to five assignments for each footswitch, with configurable parameters for the selected assignment listed at right:




### COMMON FOOTSWITCH PARAMETERS

- **TYPE:** Lists the assigned function type; touch at any time to change function type.
- **BLOCK:** Shows block assigned to the footswitch; displays MULTI if more than one block is assigned.
- **COLOR (ACTIVE/A):** Touch to select footswitch LED color when footswitch is on. Default color is red. Common to all five footswitch assignments.
- **COLOR (INACTIVE/B):** Touch to select footswitch LED color when footswitch is off. Default is LED off (no color). Common to all five footswitch assignments.
- **SWITCH:** Select latching or momentary switch function. Common to all five footswitch assignments.
- **CUSTOM LABEL:** Select to enter custom text that will appear on scribble strip. Common to all five footswitch assignments.
- **SWITCH LINK:** Assign up to eight footswitches to a link in which only one can be used at a time (i.e., link two drive effects for fast switching between both; assign two or more linked Multi footswitches for more complex tone options); pressing a linked switch will turn off any other active linked switches.

## EXP ASSIGNMENT

To assign expression pedal functions, touch the EXP Assign symbol in the lower ribbon in the preset view. In the EXP Assignments screen, select the plus sign (+) under Toe Switch, EXP 1, EXP 2, MIDI EXP 3 or MIDI EXP 4. Up to five parameters can be controlled by each expression pedal; up to five blocks can be toggled on/off with the toe switch.

**TOE SWITCH:** From the signal path shown, choose a block for Toe Switch assignment and touch CONFIRM.

**EXP 1-4:** From the signal path shown, choose a block for EXP assignment and touch CONFIRM. From the Select Parameter screen shown, touch the parameter to be controlled. From the EXP assignment screen shown, choose heel and toe values using a gradient slider.

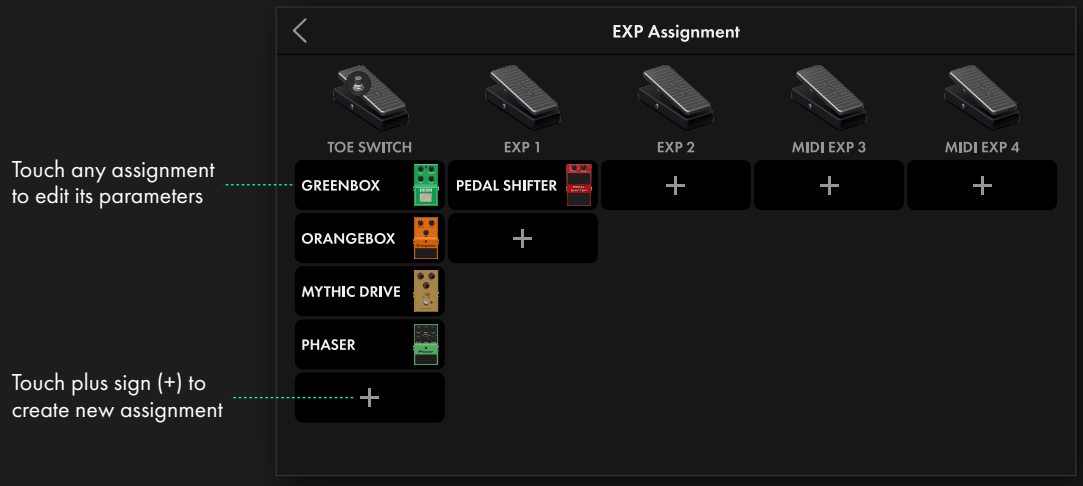
**TAPER:** Five different taper settings are also provided to modify pedal feel: slower, slow, normal, fast and faster. When doing volume pedal swells, for example, a slower setting may provide a smoother and more natural pedal-feel response.

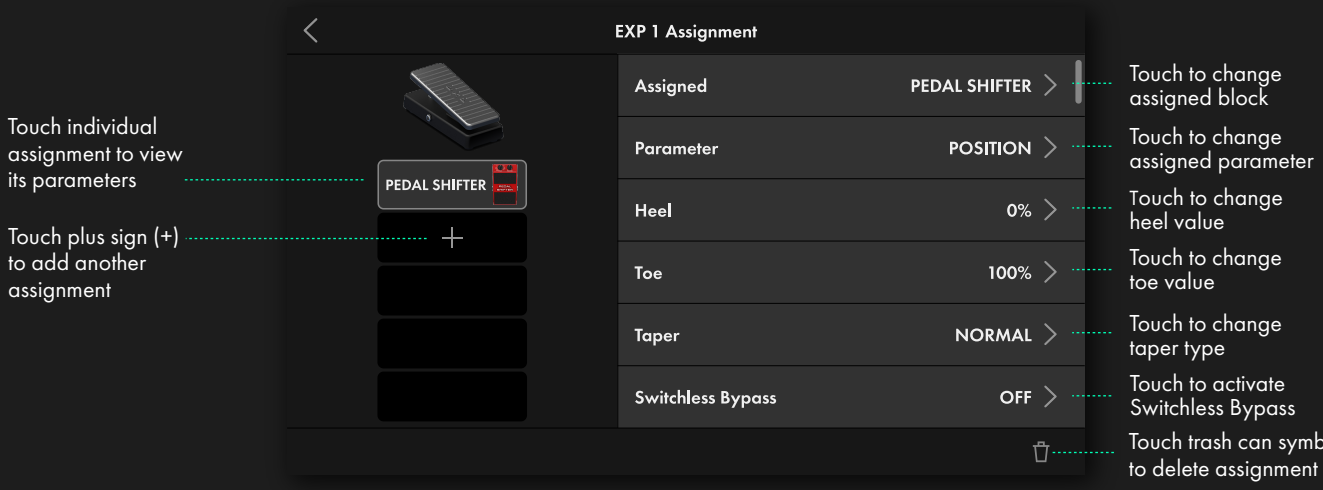
To control a wah effect, for example, the toe switch can be assigned to turn the effect on and off, while the EXP can control the wah pedal position.

**SWITCHLESS BYPASS:** Enables assigned blocks to automatically turn on when expression pedal is moved off selected position and turn off again when pedal is returned to selected position for 300ms or longer. Options are off, heel-down and toe-down.

Note that MIDI EXP 3 and 4 will respond to incoming MIDI messages (*see page 40*).

**EXP LIVE MODE:** When enabled, Tone Master Pro will read the live position of the expression pedal upon preset change; this is useful for global volume control by placing a Volume Pedal block in each preset and enabling EXP Live Mode. When a preset is selected, Tone Master Pro will set the volume according to the position of the expression pedal.



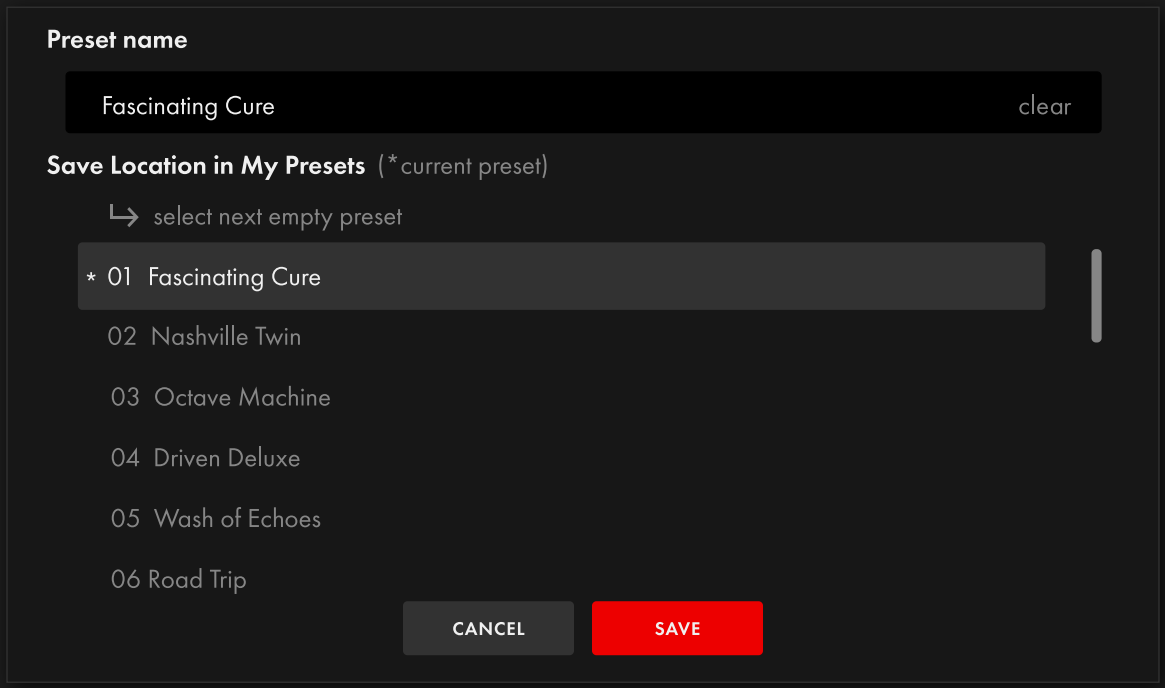



## SAVING PRESETS

When a preset has been modified, its number block changes from blue to red. To save changes, touch SAVE at top right of the touchscreen, and options will appear:

- **SAVE:** Touch red save button in save screen to save preset with preset name and location selected above.
- **PRESET NAME:** To rename a preset, tap the Preset Name field at upper left and use the pop-up keyboard to enter a new name, then touch SAVE to confirm.
- **SAVE LOCATION IN MY PRESETS:** To save the preset to a new location, scroll through the preset list and select a new location, or choose the Select Next Empty Preset button to automatically scroll to the first available location. After renaming and selecting a location, touch SAVE to confirm.

Note that when navigating away from an edited preset that hasn't been saved, Tone Master Pro *does not* automatically prompt the user to save the edited preset. Also note that presets will always be saved to My Presets regardless of whether they originated in there or in Factory Presets or Cloud Presets.



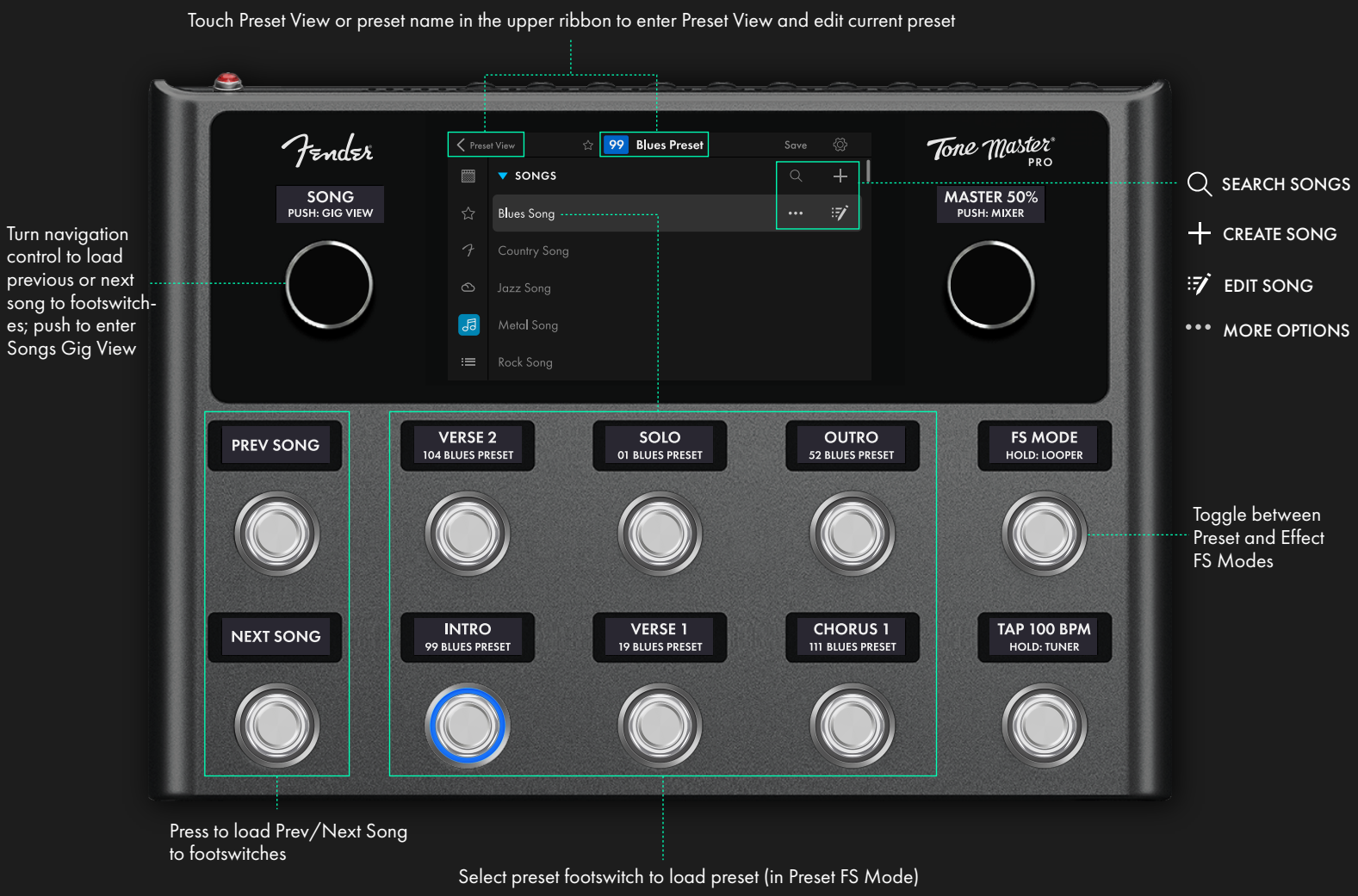
# SONGS MODE

A Song is a group of presets used together in the performance of a single specific musical selection. Each Song is built using multiple presets, with on-screen labels for each section; for example, intro, verse 1, chorus 1, solo, etc. Tone Master Pro stores and alphabetically organizes up to 200 Songs. In Songs mode, footswitches show the preset bank for the selected song.

## NAVIGATING SONGS MODE

To access Songs mode, select it from the modes listed down the left side of the touchscreen by touching its symbol (♫). Touch a song title or turn the navigation control to load the song's presets to the footswitches, then push one of the footswitches to load preset from selected song. Use the two footswitches at far left to select NEXT SONG or PREVIOUS SONG from the list of songs. Further options include:

- **SEARCH SONGS:** Touch the search symbol (Q) to search the list of songs.
- **CREATE SONG:** Touch the plus symbol (+) at top of the song list to create a new song.
- **MORE OPTIONS:** Touch the More Options symbol (•••) to delete a song, duplicate a song or rename a song using the pop-up keyboard.
- **EDIT SONG:** Touch the Edit symbol (⁝) to view and edit presets assigned to each footswitch for a given song.
- **EDIT PRESET:** Touch Preset View or the preset name at the top of the touchscreen to edit the current preset in Songs mode; note that saving a preset overwrites all instances of its use.
- **SONGS GIG VIEW:** Push the navigation control to display songs in Gig View. In Songs mode, Gig View shows a simplified song list (including song notes; see next page) with the currently selected Song highlighted in blue.



## CREATING AND EDITING SONGS: FOOTSWITCH ASSIGNMENT

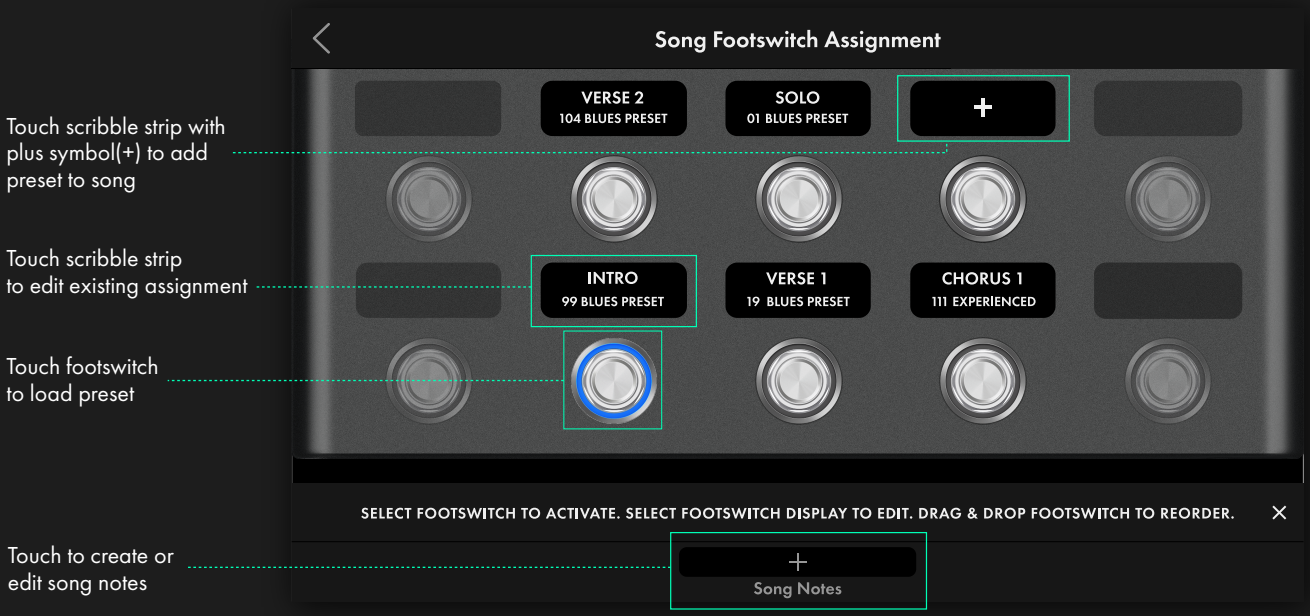
From the list view, touch the Songs symbol (♫) at left in the touchscreen to enter Songs mode. Then touch the plus symbol (+) at upper right to create a new Song; enter the song name using the pop-up keyboard and touch CONFIRM when done. In the Song Footswitch Assignment screen shown, the touchscreen displays six assignable footswitches and their scribble strips.

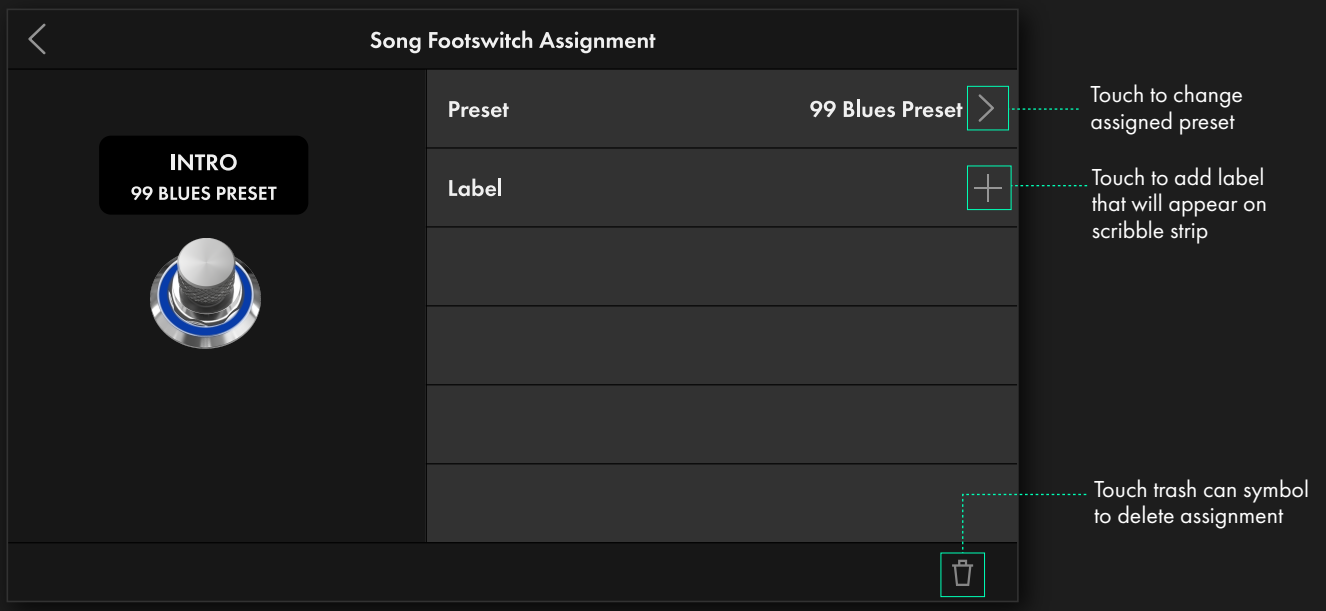
To assign a preset to a footswitch, touch any scribble strip displaying a plus sign (+) and select a preset from the Add Preset to Song screen shown; touching the search symbol (🔍) to search presets by a keyword entered using the pop-up keyboard can be helpful with this. Touch CONFIRM when done. From the Song Footswitch Assignment screen shown, the user can then customize the assignment with the preset name, pre-labeled song sections (intro, verse 1, chorus1, solo, verse 2, outro, etc.), and footswitch LED color. When done, touch the back arrow to return to the main Footswitch Assignment screen.

To reorder preset footswitch assignments, drag and drop an assigned footswitch to a new location on the touchscreen. If the destination footswitch already has an assignment, the user will be prompted to SWAP or REPLACE it. SWAP switches the locations of both presets; REPLACE puts the preset in the new location and leaves the source footswitch empty with a plus symbol (+) in the label window. Select either option by touching it.

## SONG NOTES

The user can also add song notes to aid performance. These are short reminders for each song such as guitar choice, tuning, capo, etc. When assigning presets to footswitches, add a note by touching + SONG NOTES at bottom center in the touchscreen, and use the pop-up keyboard to enter a short descriptive note. Song Notes will appear below the song name when in Gig View for both Songs and Setlists modes.



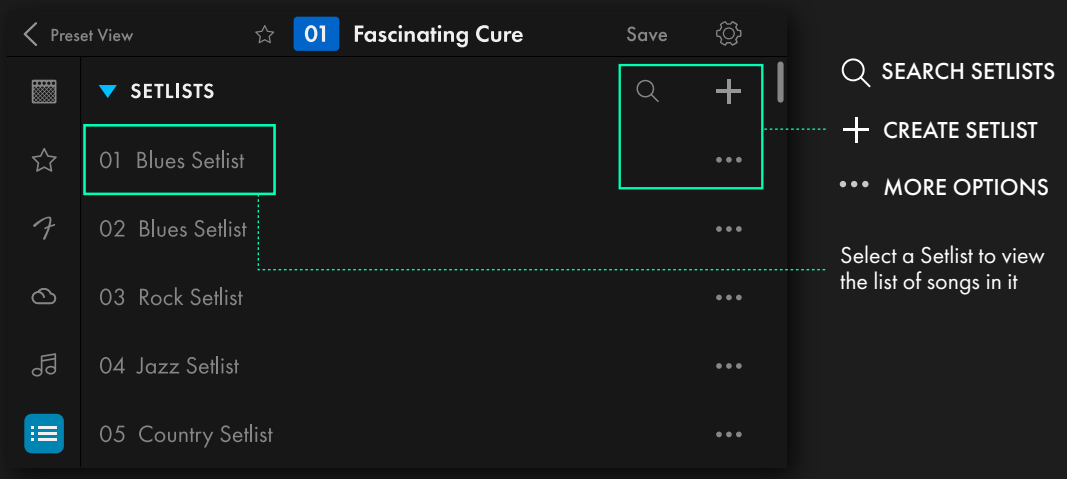



# SETLISTS MODE

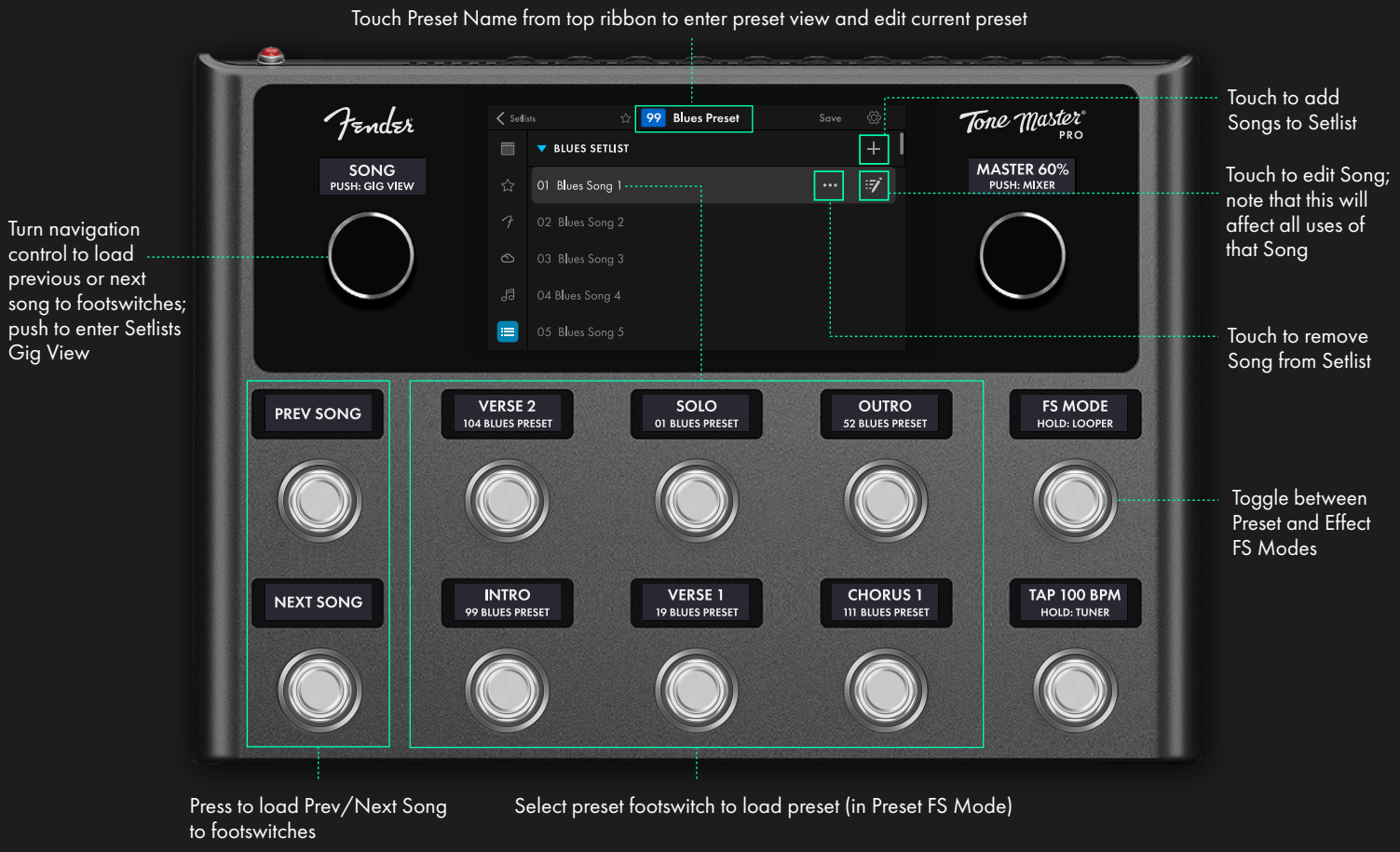
A Setlist is a group of Songs to be played together in a specific sequence. The user can create and name up to 50 setlists, with up to 99 songs in each setlist.

## NAVIGATING SETLISTS MODE

To access Setlists mode, select it from the modes listed down the left side of the touchscreen by touching its symbol (:☰). Setlists can be created and searched from the list that appears; touch More Options (•••) to rename or delete a setlist. Touch a setlist from the list to view the songs in it; note that in Setlist mode a Setlist must be selected and a footswitch must be pressed in order to load a new preset.




On selecting a Setlist, a list of songs in it will appear, and the footswitches will show the bank of presets for the selected Song:



## CREATING AND EDITING SETLISTS

From the list view, touch the Setlists symbol (☰) at left in the touchscreen to enter Setlists mode. Then touch the plus symbol (+) at upper right to create a new Setlist; enter a Setlist name using the pop-up keyboard and touch CONFIRM when done.

Touch the plus symbol (+) to add songs to a setlist. A list of songs appears; select a song from the list and touch CONFIRM to accept it and return to the list of songs in the setlist. Repeat this process to add more songs.

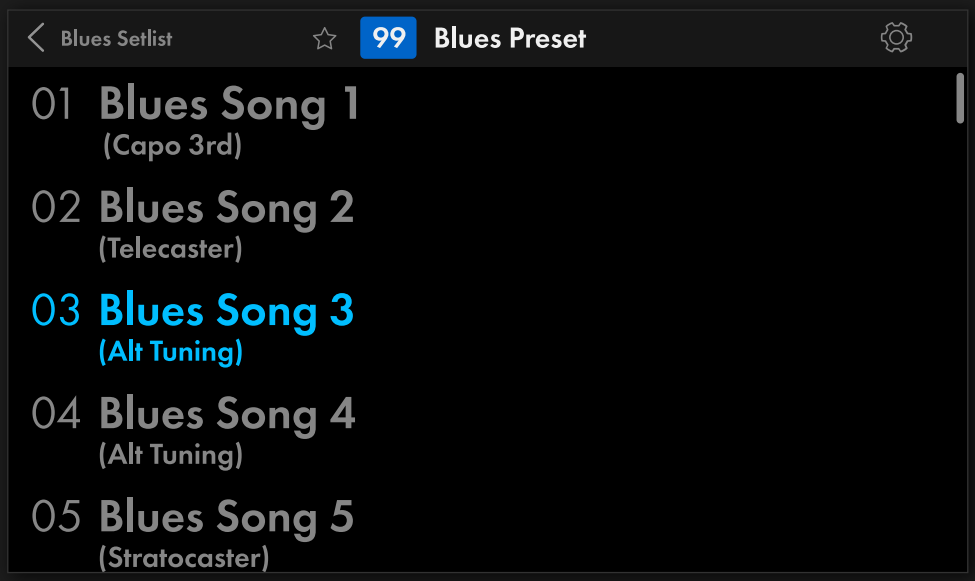
Songs in a setlist are numbered on the left and can be reordered by drag-and-drop on the touchscreen. Touch the More Options symbol (•••) to remove a song.

## SETLISTS MODE: GIG VIEW

To enter Setlist Gig View, press the navigation control.

In Setlists mode, Gig View shows a simplified performance view for navigating songs by foot. The touchscreen will display a large-font version of the selected setlist with the current song highlighted in blue. Turning the navigation control scrolls through the list of setlists. To scroll through songs in a setlist, swipe up or down on the touchscreen or use the two footswitches at far left to select NEXT SONG or PREVIOUS SONG.

Press the navigation control or touch back button next to the setlist name on the touchscreen to exit Gig View and return to the main Setlists selection screen.



# FS MODE/LOOPER FOOTSWITCH

The FS MODE footswitch at upper right toggles between Presets Footswitch mode and Effects Footswitch mode. A single press of the FS MODE footswitch toggles the unit into Effects Footswitch mode, which provides pedalboard-style on/off control of effects. This enables real-time foot control of effects in a preset.

Several footswitch layout options are available for both Presets and Effects footswitch modes. Touch the gear symbol to access the Global Settings menu and select Footswitch to see available options.

Press the FS MODE footswitch again to toggle the unit out of Effects mode and back to Presets mode.




Press to toggle between Preset and Effect FS modes; press and hold for two seconds to access the looper

## LOOPER

Press and hold the FS MODE footswitch for two seconds to enter Looper mode. The Looper can record stereo loops up to one minute long at full speed and is available in all presets. In Looper mode, the footswitches are automatically reconfigured as looper controls:

- **RECORD/OVERDUB:** Press to begin recording a loop; press again to overdub; footswitch LED flashes to indicate both. Scribble strip indicates which mode is in use (recording or overdubbing).
- **PLAY/STOP:** Press to stop recording/overdubbing and start loop playback. Press again to stop playback. Footswitch LED illuminates during playback and turns off when playback is stopped. Scribble strip indicates which mode is in use (playing or stopped).
- **1-SHOT:** Press to play loop a single time. Footswitch LED illuminates for single play and turns off when loop completes.
- **1/2 SPEED:** Press to change playback/record speed to half speed, which results in an octave-down effect for playback. Footswitch LED illuminates until footswitch is pressed again to return to full speed. When recording at half speed, switching to full speed will result in the loop sounding an octave higher than originally performed.
- **REVERSE:** Press to reverse playback direction during recording, overdubbing or playback. Footswitch LED illuminates until footswitch is pressed again to return to forward direction.
- **LOOP VOLUME UP/DOWN:** The two footswitches at far left function as loop volume up/down controls, in 0.5 dB increments.
- **EXIT/HOLD:POSITION:** Press to exit Looper mode and return to previous footswitch mode. Press and hold EXIT footswitch to place looper at front of instrument signal path; EXIT footswitch LED will illuminate purple. Press and hold EXIT footswitch again to return looper to end of instrument signal path.

Note that all looper parameters are saved globally, that tap tempo and tuner functions remain available while in Looper mode, and that Loop playback will continue across presets.




In Looper mode, footswitches are reconfigured as looper controls

# TAP/TUNER FOOTSWITCH

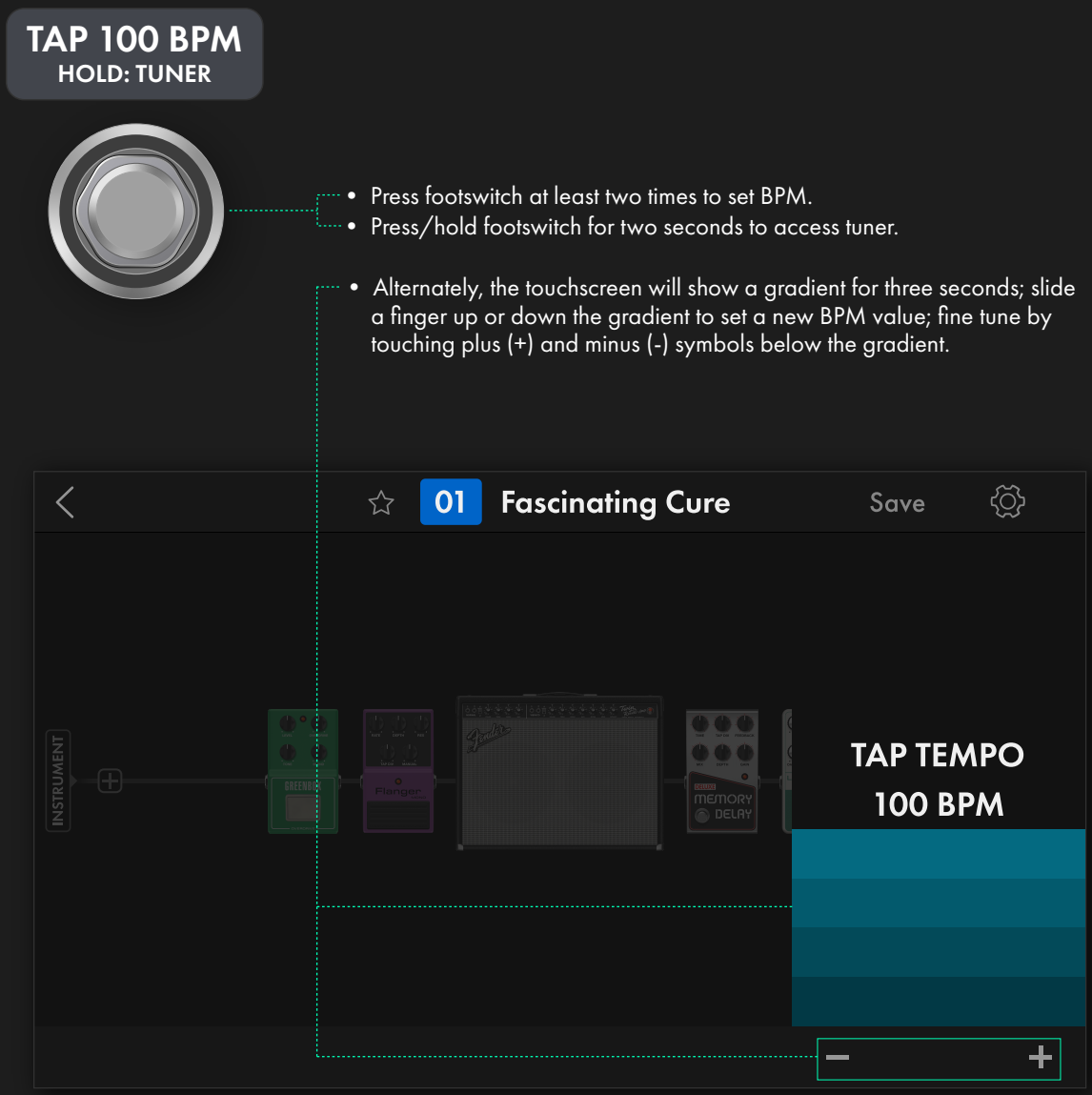
Tap tempo for time-based effects and Tone Master Pro's onboard tuner are easily accessed and controlled using the TAP/TUNER footswitch at lower right, and also manually on the touchscreen.

## TAP TEMPO

Delay and modulation effects can be synched to an individual preset tempo or globally for all presets by assigning the preferred rhythmic subdivision when editing the effect. Delay and modulation effects only respond to tap tempo control if specifically assigned to do so; this is done by using the TAP DIV parameter (in the edit screen for each effect) that works together with current tempo to set a beat-synched delay time or modulation speed.

The LED ring around the tap footswitch at lower right will flash at the current tempo. To enter a new tempo by hand or foot, tap the TAP/TUNER footswitch at least twice at the desired rate. The tempo is displayed in BPM in the scribble strip above the footswitch, and the touchscreen will change to a BPM gradient view of the tempo for three seconds, during which the tempo can also be adjusted by swiping a finger up and down the gradient. The LED then flashes at the adjusted tempo.

Tap tempo adjustments are saved with the preset by default and do not apply to other presets; however, tap tempo changes can be configured as global tempo settings that apply to all presets; this is done in the Footswitch section of Global Settings.



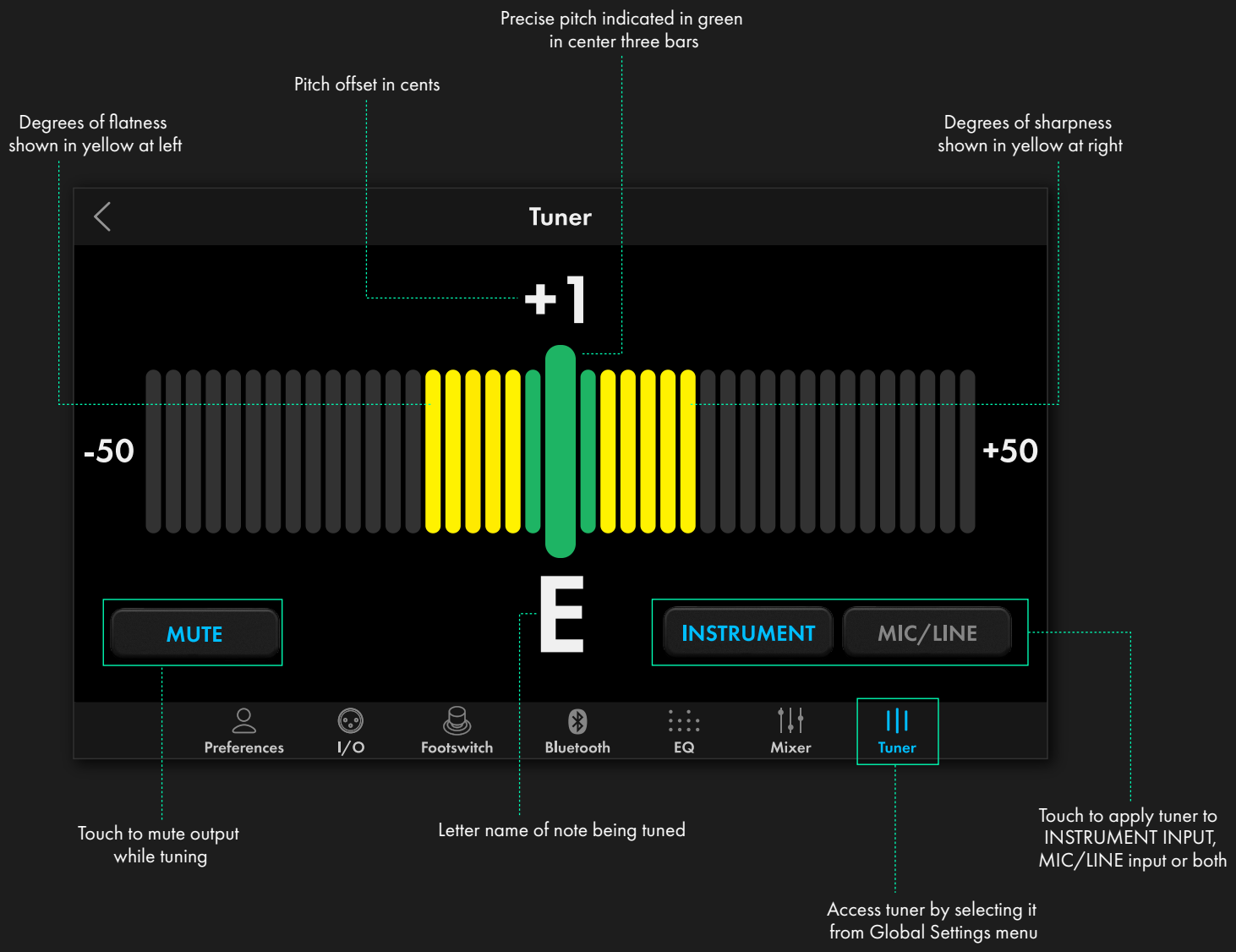
## TUNER

The tuner is accessed by pressing and holding the TAP/TUNER footswitch for two seconds; it can also be accessed manually on the touchscreen by touching Tuner at the bottom of the Global Settings menu.

The letter name of the note played is shown at bottom center; the tuner shows pitches as flats rather than sharps (i.e., E♭ rather than D#). Vertical bars on either side of the longer vertical center bar illuminate yellow to indicate varying degrees of sharpness (to the right) and flatness (to the left). The middle three bars turn green when within +/- 3 cents of precise pitch. Select any preset or press the EXIT TUNER footswitch to exit the tuner.

The tuner mutes output by default; tuner mutes only input being tuned (INSTRUMENT or MIC/LINE). This feature can be turned on and off by touching the MUTE button at lower left and selecting the preferred option.

The tuner can be applied to the instrument input, the mic/line input or both by touching the INSTRUMENT and MIC/LINE buttons at lower right.



# GLOBAL SETTINGS

Touch the gear symbol (⚙) at upper right to enter the Global Settings menu, where the user can configure a variety of functions to personal preference. These functions are organized into several categories arrayed along the bottom of the touchscreen: Preferences, I/O, Footswitch, Bluetooth, EQ, Mixer and Tuner. Each category is explained below.

## GLOBAL SETTINGS: USER PREFERENCES




Touch Preferences at the bottom of the Global Settings menu to access these functions:

- **RETAIN GLOBAL EQ:** When on, global EQ settings are retained after Tone Master Pro is turned off and then back on. When off (default), global EQ returns to flat setting after Tone Master Pro is turned off and then back on.
- **AUTO DISPLAY BRIGHTNESS:** When enabled, Tone Master Pro will automatically adjust display brightness based on ambient light conditions.
- **DISPLAY BRIGHTNESS:** Gradient slider for adjusting touchscreen, scribble strip and footswitch LED brightness.
- **BACKUP PRESETS, SETTINGS AND IRs TO SD CARD:** Create a backup of all user presets, settings and third-party IRs to an SD card (not included) installed in rear panel. Up to 25 backups can be created with custom names.
- **RESTORE PRESETS, SETTINGS AND IRs FROM SD CARD:** Restore all user presets, settings and third-party IRs from a saved backup on an installed SD card.
- **FACTORY RESET:** Restores all presets and settings to factory specifications.
- **ABOUT:** Displays installed firmware version.

## GLOBAL SETTINGS: I/O SETTINGS




Select I/O from the bottom of the Global Settings menu to access these functions. The touchscreen will display Tone Master Pro's rear panel at left and five subcategories: INPUTS, OUTPUTS, EXP/CTRL, USB and MIDI. Touch any of these subcategories for a list of adjustments that can be made in each, as described below.

### INPUTS

- **INSTRUMENT INPUT PAD (-6dB):** Reduces instrument level input by 6 dB when ON; helps eliminate clipping when using instruments with active preamps. Default setting is OFF.
- **MIC INPUT GAIN:** Gradient slider for adjusting microphone input gain; for accommodating microphones with varying sensitivities and output levels. Default setting is +9dB (typical for a standard dynamic microphone).
- **LINE INPUT GAIN:** Gradient slider for adjusting line-level input gain; for accommodating instruments and other audio sources with varying output levels. Default setting is 0dB.
- **+48V PHANTOM POWER:** Powers condenser microphones connected to rear-panel XLR input when ON. Default setting is OFF.
- **LOOP 3/4 LEVEL:** Select INSTRUMENT or LINE level for rear-panel effects loops 3 and 4. Default setting is INSTRUMENT (typical for stompbox effect pedals). Select LINE when using rack-mount effects with higher output levels.

### OUTPUTS

- **OUTPUT 1 LEVEL:** Select INSTRUMENT or LINE for all four rear-panel OUTPUT 1 jacks. Default setting is LINE (typical when connecting to an FR cabinet, external sound reinforcement or recording equipment). Select INSTRUMENT when connecting to an instrument amplifier.
- **OUTPUT 1:** Select STEREO (default) or MONO operation for all four OUTPUT 1 jacks.
- **OUTPUT 2 LEVEL:** Select INSTRUMENT or LINE for both rear-panel OUTPUT 2 jacks. Default setting is LINE (typical when connecting to an FR cabinet, external sound reinforcement or recording equipment). Select INSTRUMENT when connecting to an instrument amplifier.
- **OUTPUT 2:** Select STEREO (default) or MONO operation for both OUTPUT 2 jacks.

## GLOBAL SETTINGS: I/O SETTINGS (CONTINUED)

### EXP/CTRL


I/O

Touch EXP/CTRL to access several parameter-control options for expression pedal use and the rear-panel AMP CTRL jack, including:

- **EXP 1/2 POLARITY:** For reversing expression pedal functionality to accommodate various external expression pedals. Default setting is NORMAL; select REVERSE for pedals requiring reverse functionality.
- **TOE SWITCH:** Select LATCHING (default) or MOMENTARY operation based on switch type in pedal being used.
- **AMP CTRL 1/2 POLARITY:** For reversing rear-panel AMP CTRL functionality to synchronize on/off status with external amplifier function. Default setting is NORMAL.

### USB


I/O

Tone Master Pro offers two USB audio recording modes—standard recording and reamp recording. Global Settings offers an option for configuring Tone Master Pro to route dry audio tracks from a DAW through the instrument or mic/line channels for post-processing (reamping):

- **REAMP MODE:** Select ON when reamping dry tracks while recording using a DAW. Default setting is OFF.

Note that reamp mode is a special mode that mutes the rear-panel instrument and mic/line input jacks. Tone Master Pro will return to standard recording mode when powering off and back on again.

### MIDI


I/O

The Global Settings MIDI section provides comprehensive control of MIDI parameters including:

- **MIDI OUT:** For setting rear-panel MIDI output jack functionality; options include:

  **OUT:** Default setting; only MIDI commands generated by Tone Master Pro are sent to rear-panel MIDI output jack.

  **THRU:** Only MIDI commands received at the rear-panel MIDI input jack are sent to rear-panel MIDI output jack.

  **MERGE:** All received and generated MIDI commands are sent to rear-panel MIDI output jack.

- **RECEIVE CHANNEL:** Select a MIDI-receive channel from the drop-down menu; options include channels 1-16 or OMNI (default mode; all channels). Tone Master Pro will only respond to MIDI commands on the selected MIDI channel.
- **SEND MIDI CLOCK:** Select to send MIDI clock to rear-panel MIDI output jack. When ON, Tone Master Pro sets tempo for external devices that respond to MIDI clock. Default setting is OFF.
- **RECEIVE MIDI CLOCK:** Select to receive MIDI clock from external devices that send MIDI clock. When ON, Tone Master Pro tempo is set by external MIDI clock. Default setting is OFF.
- **RECEIVE MIDI PRESET CHANGE:** Select to receive MIDI preset changes from external devices. When ON, Tone Master Pro responds to received MIDI preset changes. Default setting is ON.

## GLOBAL SETTINGS: FOOTSWITCH


Footswitch

Touch Footswitch at the bottom of the Global Settings menu to access a variety of pre-configured footswitch layouts for both Preset and/or Effects modes. This is a global selection that affects footswitch operation in PRESETS, SONGS and SETLISTS modes. The user can toggle between Preset and Effects modes with the FS MODE footswitch. Options include:

- **FS MODE PRESETS:** View six presets (default) or three effects over three presets assigned to the middle six footswitches.
- **FS MODE EFFECTS:** View six (default) or eight effects footswitches. When viewing six effects, the bank up and down footswitches remain available at far left. When viewing eight effects, the bank and down footswitches become two additional effects footswitches. The FS MODE/LOOPER and TAP TEMPO/TUNER footswitches at far right remain available in both layouts.

## GLOBAL SETTINGS: FOOTSWITCH (CONTINUED)

Footswitch

- **TAP TEMPO:** Select PRESET (default) to save tempo per preset; select GLOBAL to make tempo affect all presets; note that the GLOBAL setting overrides tempo stored within a particular preset.
- **TAP LED:** Configure the TAP TEMPO/TUNER footswitch LED to always flash at current tempo (ON), to flash for five seconds and then stop (MOMENTARY) or to not flash at all (OFF). Default setting is ON.
- **DEFAULT FOOTSWITCH ASSIGN ACTIVE/INACTIVE COLORS:** Allows selection of default colors for new footswitch assignment active and inactive states.

## GLOBAL SETTINGS: BLUETOOTH

Bluetooth

Touch Bluetooth at the bottom of the Global Settings menu, then select a function from the Bluetooth Settings screen:

- **BLUETOOTH:** Toggles Bluetooth OFF (default) and ON.
- **DEVICE NAME:** Use the pop-up keyboard to give Tone Master Pro a personalized name that will appear in the pairing list on an external Bluetooth-equipped device.

## GLOBAL SETTINGS: GLOBAL EQ

EQ

Touch EQ at the bottom of the Global Settings menu to access Tone Master Pro's graphic equalizer with volume control and other functions. Features include:

- **TEN-BAND GRAPHIC EQUALIZER:** For precise sound tailoring, set each slider control by moving it up or down with your finger; the volume slider at far right can be used to boost or cut volume depending on EQ settings.
- **PRESET EQ PROFILES:** Three buttons at lower left offer three preset EQ profiles: flat (default), high cut and low cut.
- **USER EQ PRESETS:** Create an EQ setting, touch SAVE at lower right, then choose one of four user-preset locations for saving (1-4).
- **OUTPUT SELECT:** Use the two buttons at lower right to assign EQ to rear-panel OUTPUT 1 and/or OUTPUT 2.




Touch to apply preset EQ profiles

Touch to assign EQ to rear-panel OUTPUT 1 or OUTPUT 2

Access Global EQ by selecting it from Global Settings menu

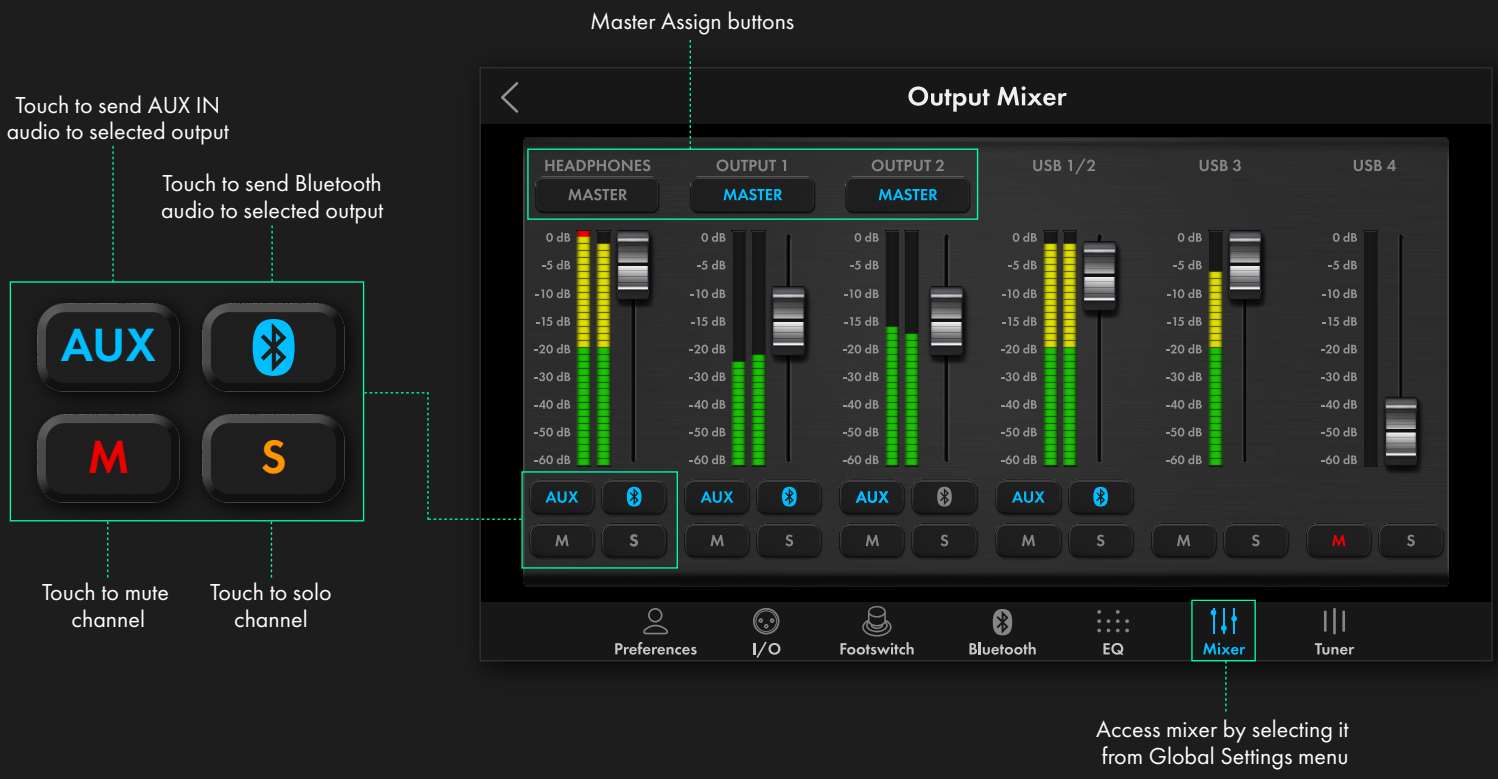
Touch SAVE button at right to save current EQ setting to one of four USER EQ profiles; touch USER buttons to load one of four user-set EQ profiles.

## GLOBAL SETTINGS: OUTPUT MIXER

Mixer

Touch Mixer at the bottom of the Global Settings menu to access the onboard mixer, which has six faders and several touch controls for setting various output levels, including rear-panel OUTPUT 1, OUTPUT 2 and HEADPHONES. Features include:

- **MASTER ASSIGN BUTTONS**: Touch the MASTER buttons at the top of the HEADPHONES, OUTPUT 1 AND OUTPUT 2 channels to assign control of any or all of them to the master volume knob. When MASTER buttons are activated, their corresponding faders operate in unison; when deactivated their corresponding faders operate independently.
- **METERS:** Six meters indicate signal level. Red LED bars at top indicate clipping with yellow LED bars from 0dBFS down to -20dBFS and green LED bars from -20dBFS down. Keep the meters out of the red to avoid clipping.
- **FADERS:** Slide the six faders up and down using a finger to adjust output levels. Note that the faders for the HEADPHONES, OUTPUT 1 and OUTPUT 2 channels operate in unison when their MASTER buttons are activated.
- **AUX:** Touch the button labeled AUX just below the meters for the HEADPHONES, OUTPUT 1, OUTPUT 2 and USB 1/2 channels to send incoming audio from the rear-panel AUX IN jack to a selected output.
- **BLUETOOTH:** Touch the button with the Bluetooth symbol just below the meters for the HEADPHONES, OUTPUT 1, OUTPUT 2 and USB 1/2 channels to send incoming Bluetooth audio to a selected output.
- **MUTE:** Touch the button labeled M below each fader to mute a selected output.
- **SOLO:** Touch the button labeled S below each fader to hear the selected output on its own (solo) while muting all other outputs. Touch additional solo buttons to add their output back into the mix.




## GLOBAL SETTINGS: TUNER

Tuner

Touch Tuner at the bottom of the Global Settings menu to manually access the onboard tuner, which can also be accessed by pressing and holding the TAP/TUNER footswitch for two seconds (*see page 30*).

# USB AUDIO

Tone Master Pro functions as a four-in/four-out USB 2.0 audio interface with two recording modes—standard recording (default) and reamp recording—accessed in the I/O Settings section of Global Settings.

## STANDARD RECORDING MODE

Standard recording mode lets the user record either Tone Master Pro input channel as a dry track for later reamping, along with a combined stereo processed track. The stereo processed track can be an instrument channel, mic/line channel or both (summed) when a dual-channel routing template is used.

USB outputs are configured as:

- **USB 1/2:** Processed stereo output of either channel, or both channels summed depending on routing template used
- **USB 3:** Instrument channel dry
- **USB 4:** Mic/line channel dry

USB inputs are configured as:

- **USB 1/2:** Stereo signal from computer (mix) for monitoring; can be assigned to rear-panel OUTPUT 1, OUTPUT 2 or HEADPHONES on the Output Assign screen
- **USB 3/4:** Disabled

## REAMP RECORDING

Reamp recording lets the user route previously recorded dry audio tracks from a DAW back to Tone Master Pro for processing. Dry tracks can be routed through either the instrument or mic/line channels directly into the first signal path processing block. Note that incoming USB audio is not routed through rear-panel effects loops 1 or 2, and that reamping mutes the rear-panel instrument and mic/line inputs.

To enable reamp recording, touch the gear symbol at upper right to access Global Settings and touch the I/O button at the bottom of the touchscreen. Then touch USB at left in the I/O settings screen, where reamp mode can be turned on and off.

Reamp USB outputs are configured as:

- **USB 1/2:** Processed stereo output of either channel, or both channels summed depending on routing template used
- **USB 3/4:** Disabled

Reamp USB inputs are configured as:

- **USB 1/2:** Stereo signal from computer (mix) for monitoring; can be assigned to rear-panel OUTPUT 1, OUTPUT 2 or HEADPHONES on the Output Assign screen
- **USB 3:** Reamp audio track from computer to instrument channel (mutes instrument input)
- **USB 4:** Reamp audio track from computer to mic/line channel (mutes mic/line input)

# REAR-PANEL FEATURES

Tone Master Pro's rear panel is cleanly designed to offer a wealth of features and functionality, including mic/line jacks, effects loops, MIDI ports, USB connectivity and more.

## INSTRUMENT AND MIC/LINE INPUTS

Instrument input accepts standard 1/4" cable; mic/line input accepts standard 1/4" and XLR cable.

## OUTPUTS

For rear-panel OUTPUT 1 and OUTPUT 2, use balanced 1/4" or XLR cables to connect to external sound reinforcement and recording equipment. Ground lift pushbutton helps alleviate unwanted hum for OUTPUT 1. Note that phantom power must be disabled when connecting an XLR cable to a mixer or other interface.

## EFFECTS LOOPS

To connect an external effect unit to any of Tone Master Pro's four rear-panel effects loops, run a cable from the effects loop SEND jack to the effect unit input, and run another cable from the effect unit output to the effect loop RETURN jack.

- **LOOPS 1/2:** Mono analog relay-based effects loops—especially useful for external drive and fuzz pedals with low input impedances. Loops 1 and 2 are fixed at the beginning of the signal path.
- **LOOPS 3/4:** Loops 3 and 4 can be placed anywhere in the digital signal path, with three options configurable per preset: Loop 3 mono, Loop 4 mono and Loop 3/4 stereo.

## 1/8" AUX INPUT

1/8" stereo TRS AUX IN jack for connection of laptop, mobile device or other instruments equipped with headphone or line output jacks. Aux signal can be routed to any output using the mixer section of Global Settings; aux input volume is controlled by the external source device.

## 1/4" HEADPHONE OUTPUT

Master volume controls headphone volume by default; alternatively, the mixer includes a headphone volume fader control.

## EXPRESSION PEDAL INPUTS

Tone Master Pro has two rear-panel inputs for external expression pedals that provide real-time control of amp and effect parameters. Both inputs (EXP 1, EXP 2) are compatible with the Fender Tread-Light™ Volume/Expression pedal and similar pedals. A 1/4" TRS cable is required, and the compatible expression pedal potentiometer impedance range is 10k-500k ohms. See Global Settings for EXP control options.

## TOE SWITCH INPUT

The rear-panel 1/4" TOE SWITCH input jack is for connection of an external footswitch or expression pedal toe switch to control on/off status of amp and effects blocks. A standard 1/4" TS instrument cable is required. Tone Master Pro can accommodate latching (default) or momentary toe switch operation; see Global Settings for toe switch control options.

## AMP CONTROL OUTPUT

For compatible amplifiers, Tone Master Pro's rear-panel 1/4" amp control output (AMP CTRL) enables remote control of two external amp functions (i.e., channel switching and reverb on/off). A 1/4" TRS insert cable is required; tip is AMP CTRL 1 and ring is AMP CTRL 2. See Global Settings for AMP CTRL options.



## USB PORT

The rear-panel USB-C port is for connection to a Mac or PC, for use with the Tone Master Pro Control app and for routing USB audio. An appropriate USB cable is required (depending on the external device being connected); a USB-C cable is included. See USB Audio section for details on USB audio recording.

## MICRO SD CARD SLOT

The rear panel MICRO SD card slot is for backup of all settings, presets and IRs. See Global Settings on page 31 for how to perform a backup to Micro SD card. Supports any Micro SD, SDHC or SDXC card that supports Fat32 or exFAT file systems.

## MIDI

MIDI in and out/thru ports for interfacing with a variety of MIDI devices. See the Global Settings and MIDI sections for detailed information.

## UPDATE

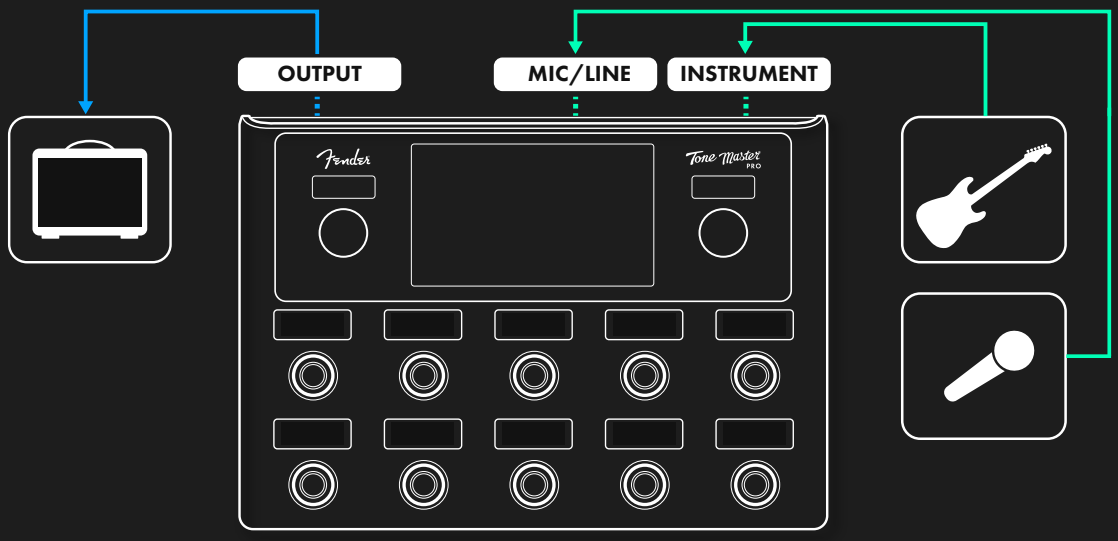
The UPDATE button is for installing firmware updates when Tone Master Pro is connected to a Mac or PC using a USB-C cable. To initiate a firmware update, press and hold while powering up Tone Master Pro, then follow the onscreen instructions. Visit www.fender.com/tonemaster_pro to download firmware update file and instructions.

# SETUP DIAGRAMS

Several detailed setup diagrams for using Tone Master Pro are shown in this section.

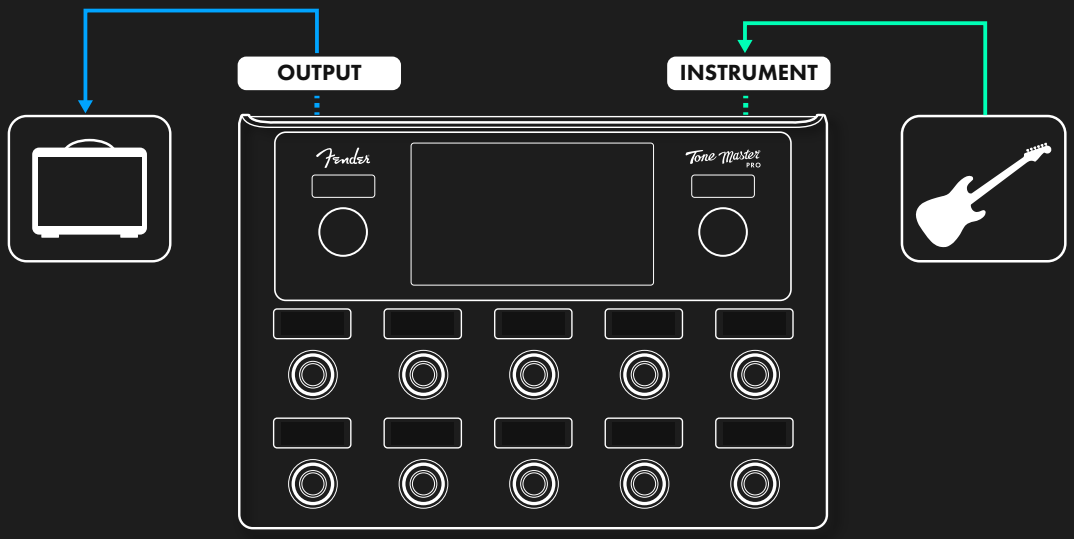
## INSTRUMENT OR MIC/LINE TO FR CABINET

- Set Tone Master Pro rear-panel outputs to line level in Global Settings for optimal signal-to-noise ratio when using FR cabinets such as the Fender Tone Master FR-10 and FR-12 powered speakers.




## EFFECTS PEDALBOARD WITH EXTERNAL AMPLIFIER

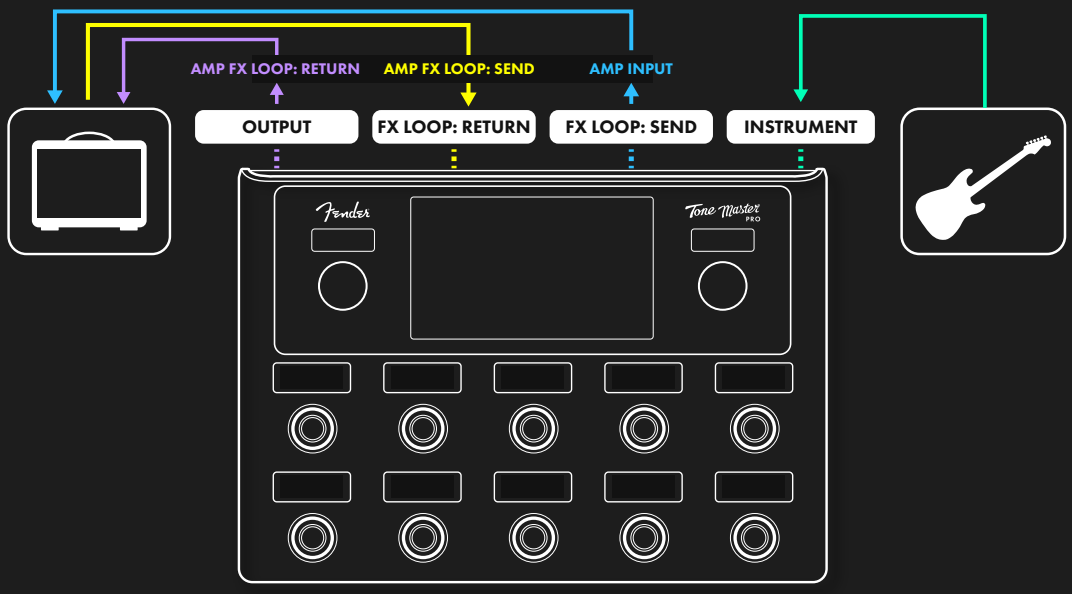
- For best results use effects-only presets with no amp or cabinet blocks. Set Tone Master Pro rear-panel outputs to instrument level in Global Settings.



# SETUP DIAGRAMS (CONTINUED)

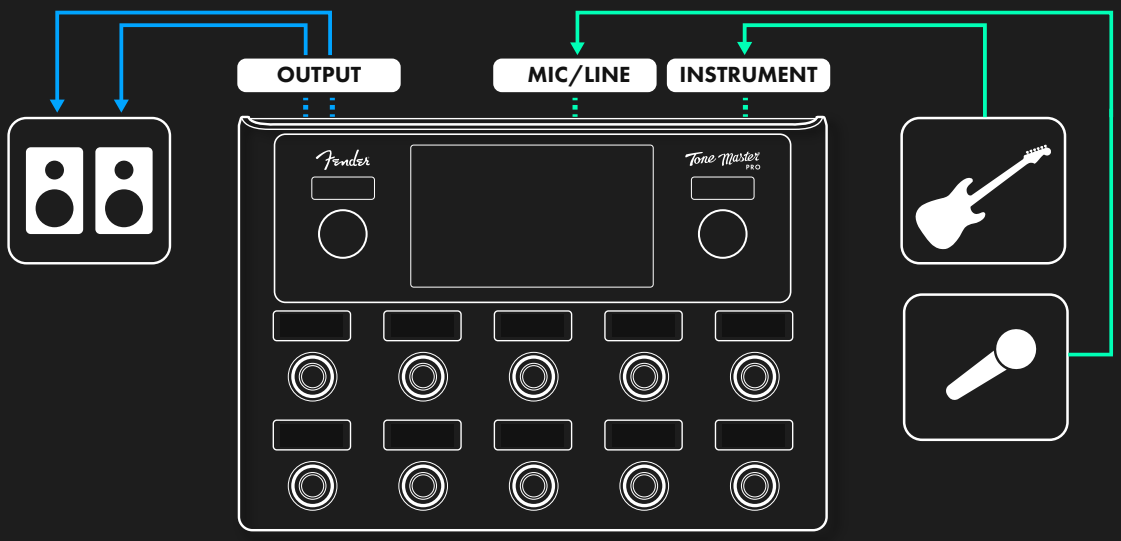
## EXTERNAL AMPLIFIER USING FOUR-CABLE METHOD (4CM)

- 4CM allows placement of effects before and after the preamp section of an external amplifier with an effects loop. For best results use effects-only presets with no amp or cabinet blocks; set Tone Master Pro rear-panel outputs and effects loop to instrument level in Global Settings, and note that the connected Tone Master Pro effects loop must be added to the signal path.




## STUDIO MONITORING/PA SYSTEM

- Set Tone Master Pro rear-panel outputs to line level in Global Settings for optimal signal-to-noise ratio.



# MIDI

Tone Master Pro can send and receive MIDI Program Change (PC) and Continuous Controller (CC) messages, which are useful when integrating Tone Master Pro with other MIDI-capable instrument equipment or when recording or performing using DAW software. Tone Master Pro supports the following MIDI features:

## MIDI OUT/THRU JACK

The rear-panel MIDI Out/Thru jack can be configured as Out, Thru, or Merge:

- **OUT:** Only MIDI messages generated by Tone Master Pro will be sent to the MIDI OUT jack.
- **THRU:** Only MIDI messages received by Tone Master Pro will be sent to the MIDI OUT jack.
- **MERGE:** Combines received and generated MIDI messages and sends them to the MIDI OUT jack.

## MIDI CHANNEL

Tone Master Pro can respond to messages on any MIDI Channel (1-16 or Omni). The MIDI Receive Channel is set in the I/O section of Global Settings.

## RECEIVE MIDI PC

Each of Tone Master Pro's 504 presets can be recalled remotely using MIDI Bank and PC messages as described below:

| TM PRO PRESET | BANK | CC# | CC VALUE | PC# |
|---|---|---|---|---|
| 1-128 | 1 | 0 | 0 | 1-128 |
| 129-256 | 2 | 0 | 1 | 1-128 |
| 257-384 | 3 | 0 | 2 | 1-128 |
| 385-504 | 4 | 0 | 3 | 1-120 |

## SEND/RECEIVE MIDI CLOCK

MIDI Clock can be used to synchronize song tempo/BPM across devices. Tone Master Pro can send or receive MIDI Clock, allowing it to be either Master or Slave in a MIDI system.

MIDI Clock Send and Receive can be enabled in the the I/O section of Global Settings. When MIDI Clock Receive is enabled, all delay and modulation effects that have an assigned Tap Division will respond to incoming MIDI Clock.

Note that when MIDI Clock Receive is enabled, the tap footswitch is disabled and the tempo saved with each Tone Master Pro preset will be disregarded. As the tempo is changed from the remote "master" device, the tempo displayed on the Tap scribble strip and in the preset view will represent the current tempo received through MIDI.

## RECEIVE MIDI CC MESSAGES

Tone Master Pro can respond to MIDI CCs to control a variety of features and functions. See the MIDI Implementation Chart on the following page for the list of available CCs.

## MIDI IMPLEMENTATION CHART

| MIDI CC# | VALUE | FUNCTION |
|---|---|---|
| 0 | 0-3 | Bank Change |
| 1 | 0-127 | Expression Pedal 1 |
| 2 | 0-127 | Expression Pedal 2 |
| 3 | 0-127 | MIDI Expression Pedal 3 |
| 4 | 0-127 | MIDI Expression Pedal 4 |
| 7 | 0-127 | Master Volume |
| 64 | 64-127 | Tap Tempo |
| 65 | 0-63: OFF, 64-127: ON | Toe Switch |
| 66 | 0-63: OFF, 64-127: ON | Amp Control 1 (Tip) |
| 67 | 0-63: OFF, 64-127: ON | Amp Control 1 (Ring) |
| 103 | 64-127 | Looper REC/DUB |
| 104 | 64-127 | Looper PLAY/STOP |
| 105 | 64-127 | Looper 1-SHOT |
| 106 | 64-127 | Looper UNDO |
| 107 | 0-63: FULL, 64-127: HALF | Looper 1/2 SPEED |
| 108 | 0-63: FWD, 64-127: REV | Looper REVERSE |
| 109 | 64-127 | Looper VOLUME UP |
| 110 | 64-127 | Looper VOLUME DOWN |

# FIRMWARE UPDATE

Update Tone Master Pro firmware to get the latest features, amps and effect models using the steps below.

1. Go to **www.fender.com/tonemaster_pro** on your computer to download and install the latest firmware.

2. Connect Tone Master Pro to a computer using the included USB-C cable:




3. Press and hold the rear-panel firmware update button for 10 seconds while powering on Tone Master Pro:




4. Tone Master Pro will then display the "USB Firmware Update Mode" screen:

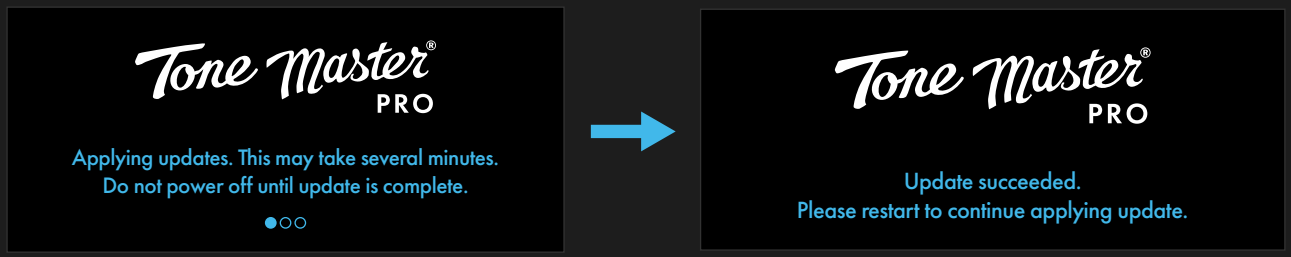



5. On the computer, drag-and-drop the firmware update file (an "img." file) onto the **"FENDER_AMP"** mounted drive:



**FIRMWARE UPDATE FILE** → **"FENDER_AMP" MOUNTED DRIVE**

6. Tone Master Pro will display its"Applying Updates" screen; *do not* power off the unit until the update is complete. When the firmware update is completed, Tone Master Pro will display the "Update Succeeded" screen. Restart Tone Master Pro and enjoy!



# SPECIFICATIONS

| | | | |
|---|---|---|---|
| **TYPE** | PR 5642 | | |
| **POWER REQUIREMENTS** | 40W | | |
| **INPUT VOLTAGE** | 100V-240V | 50/60Hz | |
| **ANALOG INPUTS** | **INSTRUMENT** | 1/4" phone jack | |
| | IMPEDANCE | 1MΩ/330kΩ/22kΩ configurable, unbalanced | |
| | MAX INPUT LEVEL | 11.2dBu (17.2dBu with input pad on) | |
| | **MIC/LINE** | Combination XLR 1/4" TRS phone jack | |
| | MIC IMPEDANCE (XLR) | 1.8kΩ balanced | |
| | MAX MIC INPUT LEVEL | 15.7dBu | |
| | MIC PHANTOM POWER | +48V on/off (XLR only) | |
| | LINE IMPEDANCE (1/4") | 1MΩ balanced | 1MΩ unbalanced |
| | MAX LINE INPUT LEVEL | 20.1dBu balanced | 15.3dBu unbalanced |
| | **FX LOOP 3/4 RETURNS** | 1/4" TRS phone jacks | |
| | IMPEDANCE | 10kΩ balanced | 10kΩ unbalanced |
| | MAX INPUT LEVEL | 15.8dBu line | 10.9dBu instrument |
| | **AUX IN** | 3.5mm stereo phone jack | |
| | IMPEDANCE | 10kΩ unbalanced | |
| | MAX INPUT LEVEL | 9.8dBu | |
| **ANALOG OUTPUTS** | **OUTPUT 1 L/R** | XLR 1/4" TRS phone jacks | |
| | IMPEDANCE LINE LEVEL | 200Ω balanced | 200Ω unbalanced |
| | IMPEDANCE INSTRUMENT LEVEL | 290Ω balanced | 400Ω unbalanced |
| | MAX OUTPUT LEVEL BALANCED | 23.8dBu line | 14.1dBu instrument |
| | MAX OUTPUT LEVEL UNBALANCED | 18.0dBu line | 11.2dBu instrument |
| | **OUTPUT 2 L/R** | 1/4" TRS phone jacks | |
| | IMPEDANCE | 170Ω balanced | 170Ω unbalanced |
| | MAX OUTPUT LEVEL | 15.8dBu line | 10.9dBu instrument |
| | **FX LOOP 3/4 SENDS** | 1/4" TRS phone jacks | |
| | IMPEDANCE | 170Ω balanced | 170Ω unbalanced |
| | MAX OUTPUT LEVEL | 15.8dBu line | 10.9dBu instrument |
| | **HEADPHONES** | 1/4" stereo phone jack | |
| | MIN LOAD IMPEDANCE | 16Ω x2 | |
| | MAX OUTPUT POWER | 110mW x2 | |
| **A/D, D/A CONVERSION** | BIT DEPTH | 32 bits | |
| | SAMPLE RATE | 44.1kHz | |
| | DYNAMIC RANGE | 117dB ADC | 112dB DAC |
| | FREQUENCY RESPONSE | 20Hz-20kHz +0.1/-0.7dB | |
| **DIGITAL AUDIO I/O** | CONNECTOR | USB-C | |
| | USB AUDIO CLOCK | 44.1kHz, 48kHz, 88.2kHz, 96kHz (DAW selectable) | |
| **EXP 1/2 PEDAL INTERFACE** | CONNECTOR | 1/4" TRS phone jacks | |
| | FORMAT | 1kΩ-500kΩ linear taper, signal (tip) power (ring) | |
| | POLARITY | Normal or reverse (selectable) | |
| **TOE SWITCH** | CONNECTOR | 1/4" TS phone jack | |
| | FORMAT | Latching,or momentary (selectable) | |
| **EXTERNAL AMP CONTROL** | CONNECTOR | 1/4" TRS phone jack | |
| | FORMAT | Two latching contact closures (tip-sleeve, ring-sleeve) | |
| | POLARITY | Normal or reverse (selectable) | |
| **MIDI INTERFACE** | IN-OUT/THRU/MERGE | 5-pin DIN connectors | |

| | | | | |
|---|---|---|---|---|
| **DIMENSIONS/WEIGHT** | 14.6"/371mm | 10.3"/261.4mm | 3.8"/96.4mm | 8.8 lbs./4.0kg |

**PART NUMBERS / REFERENCIAS / RÉFÉRENCE / NÚMERO DAS PEÇAS / NUMERO PARTI / TEILENUMMERN NUMERY REFERENCYJNE / REFERENČNÍ ČÍSLA / REFERENČNÉ ČÍSLA / REFERENČNE ŠTEVILKE / 部品番号 / 型号 零件號 / НОМЕРА НА ЧАСТИ / BROJEVI DIJELOVA / ONDERDEELNUMMERS / OSANUMBRID / OSIEN NUMEROT ARITHMOI MEROS / DAĻU NUMURI / DALIŲ NUMERIAI / NUMERE DE PIESĂ / ARTIKELNUMMER**

**TONE MASTER® PRO**

2274900000 (120V, 60Hz) NA
2274901000 (110V, 60Hz) TW
2274903000 (240V, 50Hz) AU
2274904000 (230V, 50Hz) UK
2274905000 (220V, 50Hz) ARG
2274906000 (230V, 50Hz) EU
2274907000 (100V, 50/60Hz) JP
2274908000 (220V, 50Hz) CN
2274909000 (220V, 60Hz) ROK
2274913000 (240V, 50Hz) MA
2274914000 (120V, 60Hz) MX
2274915000 (220V, 60Hz) BR

## 产品中有害物质的名称及含量

| 部件名称 | 有害物质 | | | | | |
|---|---|---|---|---|---|---|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr(VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 箱体 | O | O | O | O | O | O |
| 喇叭单元* | O | O | O | O | O | O |
| 电子部分 | X | O | X | O | O | O |
| 接线端子 | X | O | O | | O | O |
| 电线 | X | O | O | O | O | O |
| 附件 | O | O | O | O | O | O |

本表格依据 SJ/T 11364 的规定编制。
O：表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
注：含有有害物质的部件由于全球技术发展水平限制而无法实现有害物质的替代。

*产品含有喇叭单元时有效。

A PRODUCT OF
FENDER MUSICAL INSTRUMENTS CORP.
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RFC: FVM-140508-CI0
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