MUSTANG™

LTX50/LTX100

EXPANDED OWNER'S MANUAL
ENGLISH

Fender®

CONTENTS

INTRODUCTION 1

CONTROL PANEL 2

REAR PANEL 3

PRESET BASICS 3

EDIT AND SAVE PRESETS 4

- Accessing Preset Signal Path 4
- Edit and Save Amplifier Control Settings 5
- Changing the Amplifier Model in a Preset 8
- Mustang LTX50/LTX100 Amplifier Models 9
- Edit and Save Effects Parameters 9
- Replace, Add and Delete Effects 10
- Setting Delay Time with Tap Button 12
- Bypass and Move Effects 13
- Mustang LTX50/LTX100 Effect Models 14

MENU FUNCTIONS 15

- Output Power 15
- Tuner 16
- Bluetooth 17
- Footswitch 19
- Presets 21
- Levels 21
- Restore 23
- About 23

AUXILIARY INPUT/HEADPHONE OUTPUT 23

REAR PANEL FEATURES 24

- Effects Loop 24
- Line Out/Ground Lift 24
- USB Port 24
- Footswitch 24

LTX-5 FOOTSWITCH 25

FIRMWARE UPDATES 28

SPECIFICATIONS 29

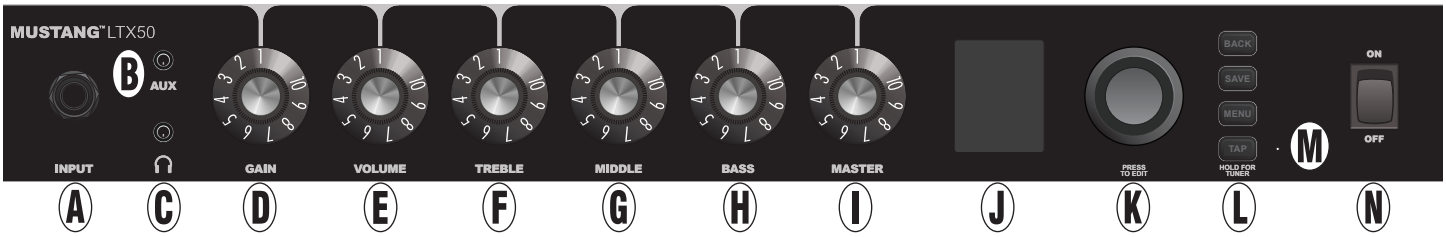
INTRODUCTION

This expanded owner's manual is a thorough user's guide to the features and functions of the Mustang LTX50 and LTX100 amplifiers.

As a complement to the quick start guide that comes with each MUSTANG LTX amplifier, this manual presents a detailed look at the amp's versatile features, including navigation and modification of the onboard presets, and comprehensive descriptions of the amplifier and effect models. It also includes illustrated step-by-step instructions for using the onboard tuner, footswitch, USB port and other functions. Further, there are even more tonal possibilities when paired with the Fender Tone™ app.

CONTROL PANEL

The Mustang LTX front control panel consists of an INSTRUMENT INPUT, an AUXILIARY INPUT, a HEADPHONE OUTPUT, six CONTROL KNOBS, a DISPLAY, a PUSH ENCODER, four UTILITY pushbuttons, a TAP LED and a POWER SWITCH.



Mustang LTX50 control panel shown; Mustang LTX100 control panel has identical features.

A. INPUT: Plug instrument in here.

B. AUXILIARY INPUT: 1/8" input for connecting external audio devices.

C. HEADPHONE OUTPUT: 1/8" output for headphone use; mutes speaker output.

D. GAIN: Affects gain setting in active preset.

E. VOLUME: Affects individual volume of active preset.

F. TREBLE: Affects treble tone setting in active preset.

G. MIDDLE: Affects midrange tone setting in active preset.

H. BASS: Affects bass tone setting in active preset.

I. MASTER: Controls overall amplifier volume (master volume settings are not saved with a preset).

J. DISPLAY: Shows preset in use, preset signal path, amp and effect parameters, tuner and other menu functions).

K. ENCODER: Rotary control with press-switch function. For viewing, selecting and adjusting Mustang LTX presets, controls, Bluetooth pairing and other functions.

L. UTILITY BUTTONS

BACK: Returns user to the previous screen or original preset screen.

SAVE: For saving preset modifications, renaming presets and saving them to a new location, and clearing presets.

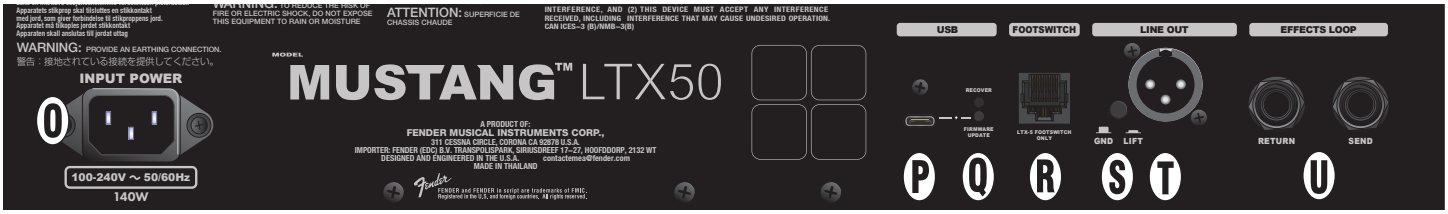
MENU: For accessing tuner, Bluetooth pairing, footswitch and other functions.

TAP: For setting delay times and accessing built-in tuner.

M. TEMPO LED: Flashes in time with delay effects.

N. POWER: Turns amplifier on and off.

REAR PANEL



Mustang LTX50 rear panel shown; Mustang LTX100 rear panel has identical features.

O. IEC POWER INLET: Using the included power cord, connect to a grounded outlet in accordance with the input power voltage and frequency specified at the power inlet.

P. USB PORT: Connect a USB-C cable here for bi-directional USB audio (recording and monitoring) and for firmware updates.

Q. RECOVER BUTTON AND FIRMWARE UPDATE BUTTON/LED: Upper button is for use by authorized Fender service personnel only; lower button activates firmware update mode (when available with instructions at https://support.fender.com). A small FIRMWARE UPDATE LED is just to the left of the FIRMWARE UPDATE button.

R. FOOTSWITCH: Connect five-button LTX-5 footswitch here.

S. GROUND LIFT: Switch for LINE OUT helps eliminate unwanted hum.

T. LINE OUT: Connect an XLR cable to route audio to a PA, mixer or audio interface.

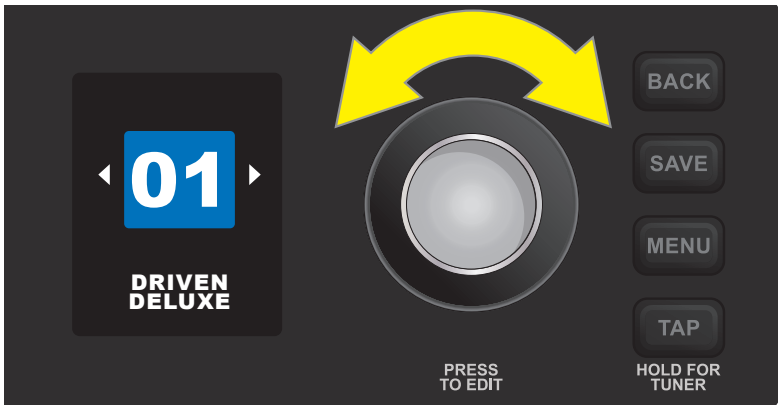
U. EFFECTS LOOP: Connect external effects using standard TS or TRS 1/4" instrument cables. Connect effects loop SEND to effect input and effects loop RETURN to effect output.

PRESET BASICS

Mustang LTX50 and 100 both feature 100 sequentially numbered presets (01-100) comprising 70 factory and 30 empty "slots" for presets created by users and for cloud presets.

Each preset consists of an amplifier and up to four effects (or no effects in some cases). Note that when turning the amplifier on, the last preset used will be active. All 100 presets slots can be customized by the user, and the original 70 factory presets can always be restored if needed by using the Fender Tone™ app.

To scroll through presets, turn the ENCODER; the preset displayed becomes active:



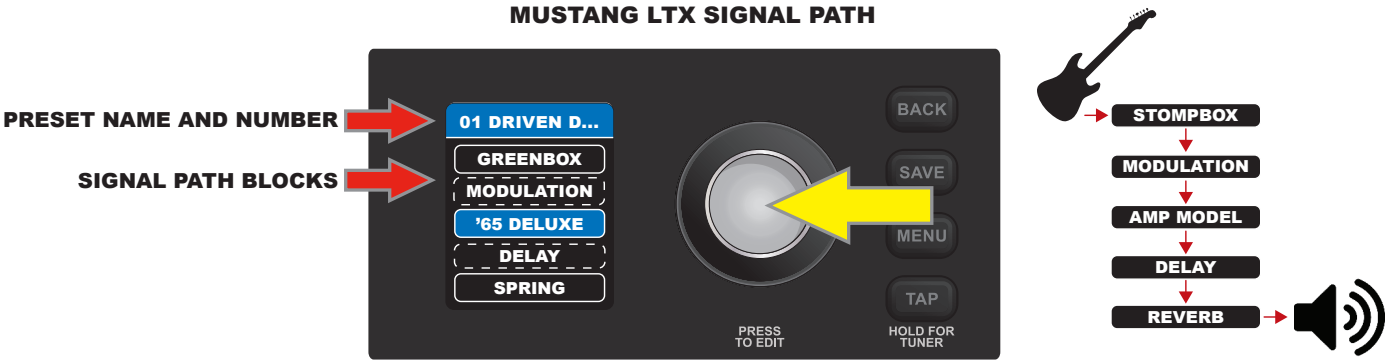
EDIT AND SAVE PRESETS

Presets can be easily edited and, if desired, renamed and saved in place or saved in a different location. The controls of each amplifier type can be adjusted, or an amp model can be replaced with a different one. Similarly, various effects controls can be adjusted, or effects can be removed from or added to a preset.

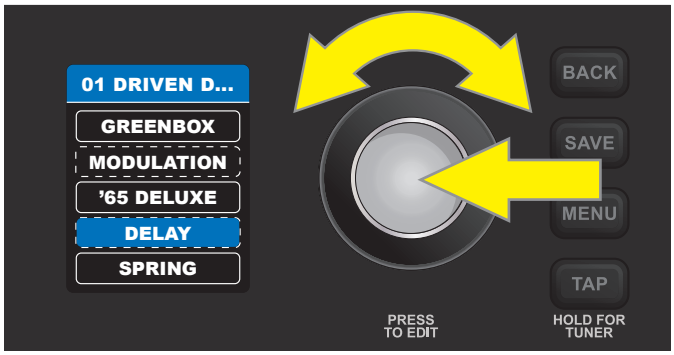
When a preset is active, the box containing its number is blue, indicating that no edits have been made. Once an edit is made, the box containing the preset number turns red and the preset title screen will read "UNSAVED". When edits are saved, the preset number box returns to blue and the "UNSAVED" title clears.

ACCESSING PRESET SIGNAL PATH

To access a preset's signal path, press the ENCODER. The DISPLAY will then show the number and name of the preset at the top and the five blocks of the signal path from input (top block) to output (bottom block). The SIGNAL PATH of each preset consists of one of Mustang LTX's many amplifier models, and up to four movable effects (or no effects in some cases). These effects category blocks are STOMPBOX, MODULATION, DELAY and REVERB. When first accessing preset signal path, the preset name and first block in the signal path are highlighted in blue:

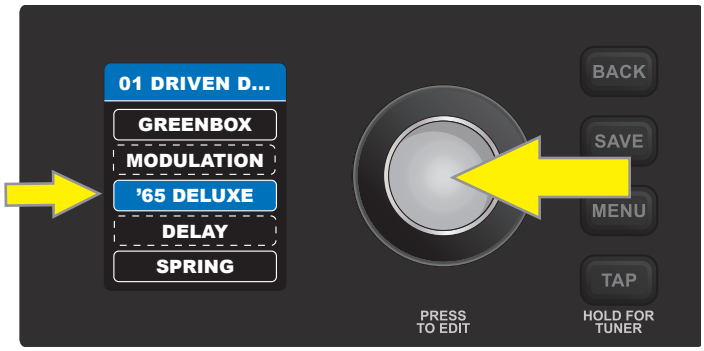


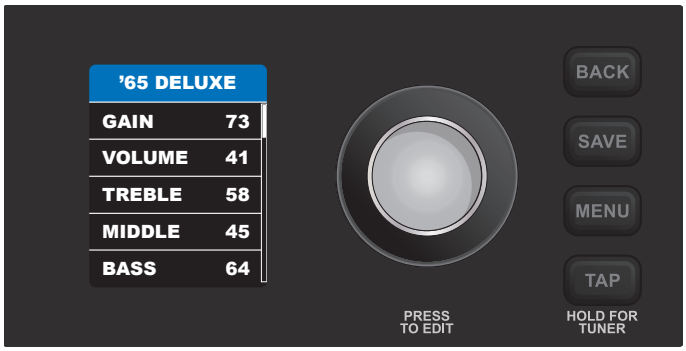
Select the amp model or one of the effect blocks by turning and pressing the ENCODER. The active selection is then highlighted in blue:



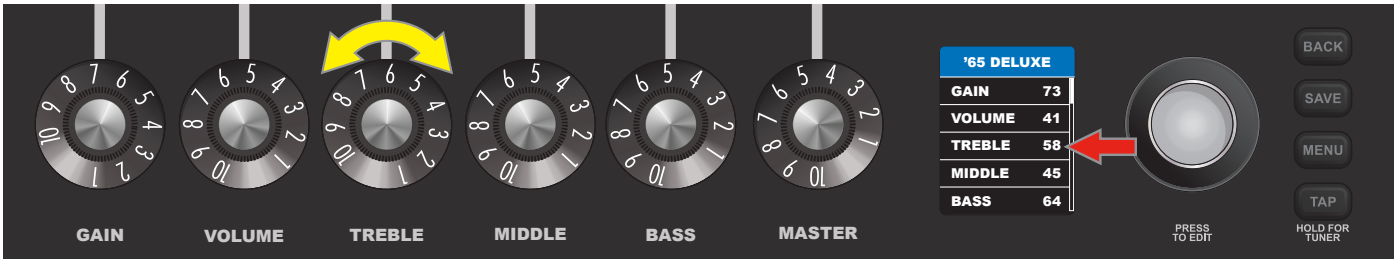
EDIT AND SAVE AMPLIFIER CONTROL SETTINGS

To edit and save individual control settings of a preset's amplifier model, first select the amp model by turning and pressing the ENCODER on it. The DISPLAY will then show a list of controls for the amp model in use:

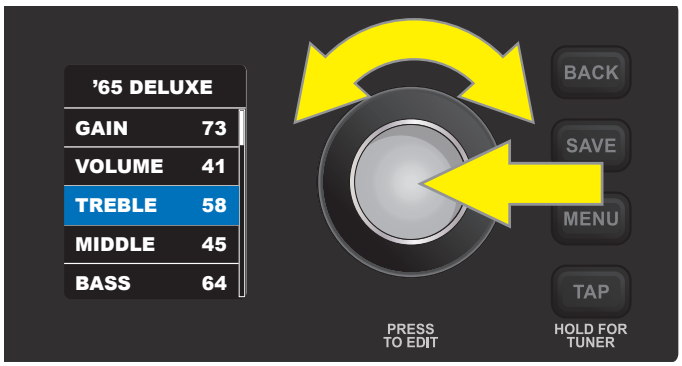


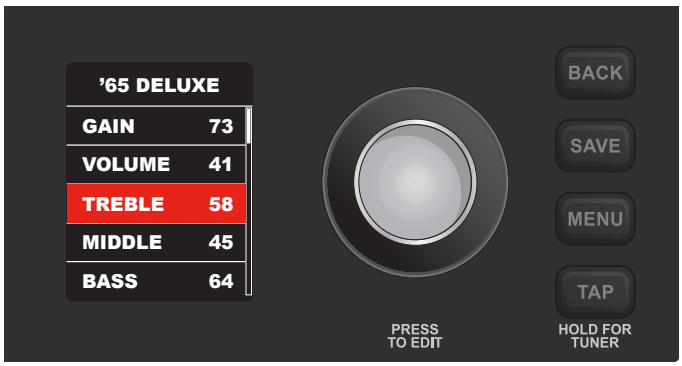


There are two ways to adjust an amp control knob setting. A control parameter that corresponds to an actual physical knob on the control panel can be adjusted simply by turning the physical control knob until the desired value is reached in the DISPLAY. In the example below, the amp model's TREBLE setting is adjusted by turning the physical TREBLE control knob on the control panel:

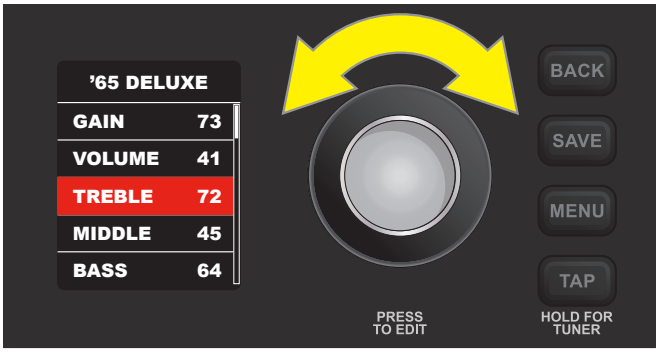


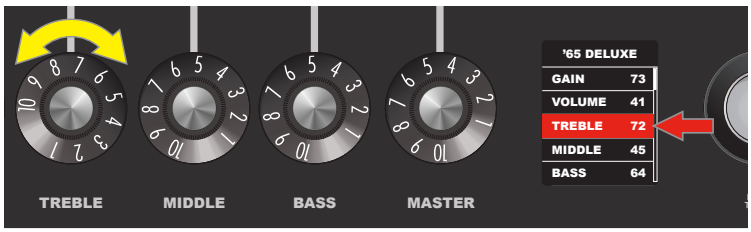
Alternately, select a control parameter by turning and pressing the ENCODER; its surrounding box will turn from blue to red:



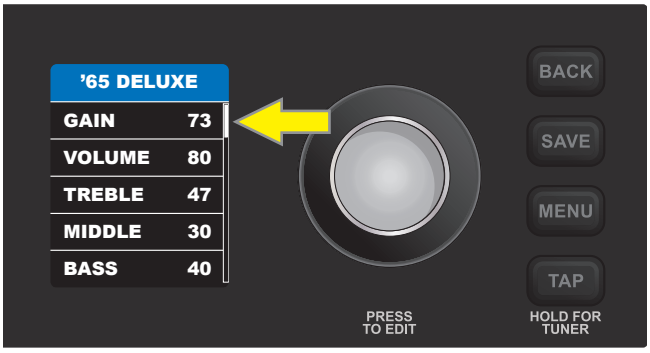


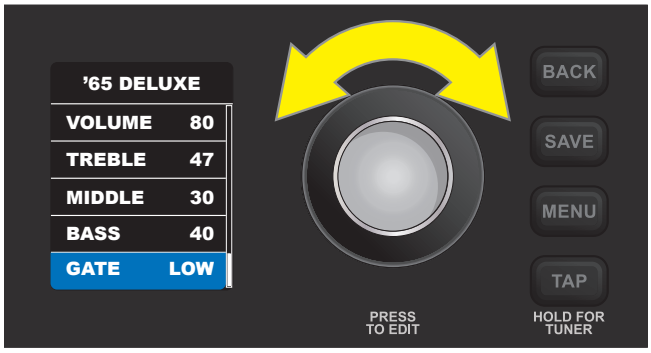
The control can then be adjusted by turning the ENCODER *or* by turning a corresponding physical control knob on the control panel (*see additional images on next page*):



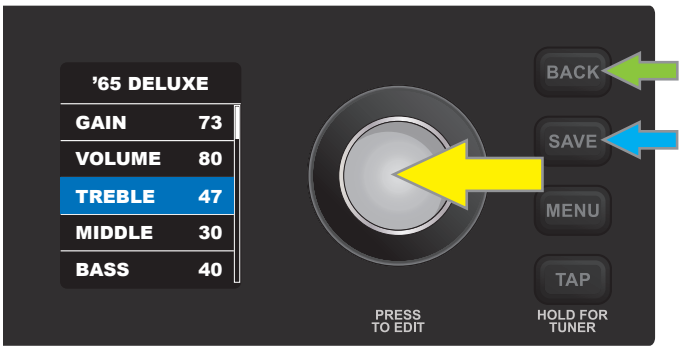


Note that some amp (and effect) models have more than five control parameters. Additional parameters are indicated by a scroll bar appearing in the DISPLAY. These additional parameters can only be adjusted using the ENCODER:



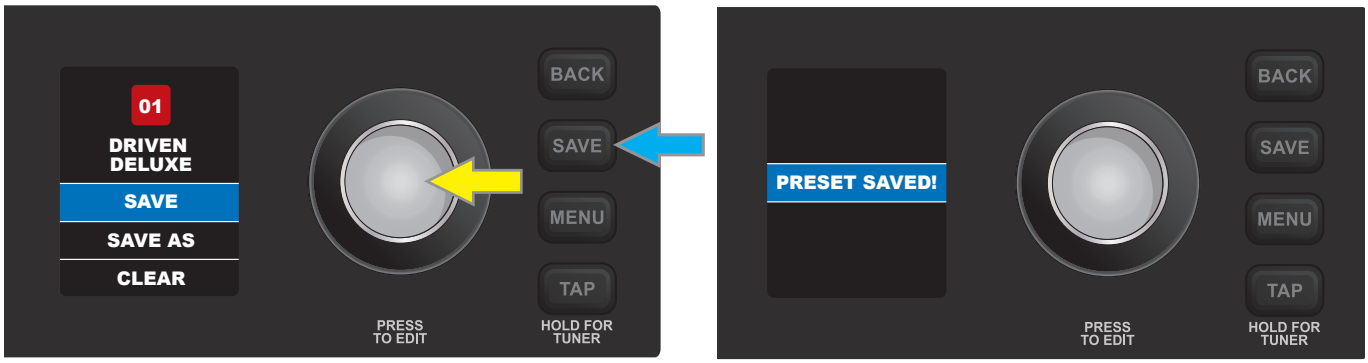


After making changes to the amp parameter, press the ENCODER or the BACK utility button (green arrow) to accept the adjusted control values. Pressing BACK returns the user to the signal path screen; pressing the ENCODER lets the user continue making controls setting changes, and the box surrounding the control setting will return to blue. When control setting edits are complete, press the SAVE utility button (blue arrow) to save the changes to the preset:

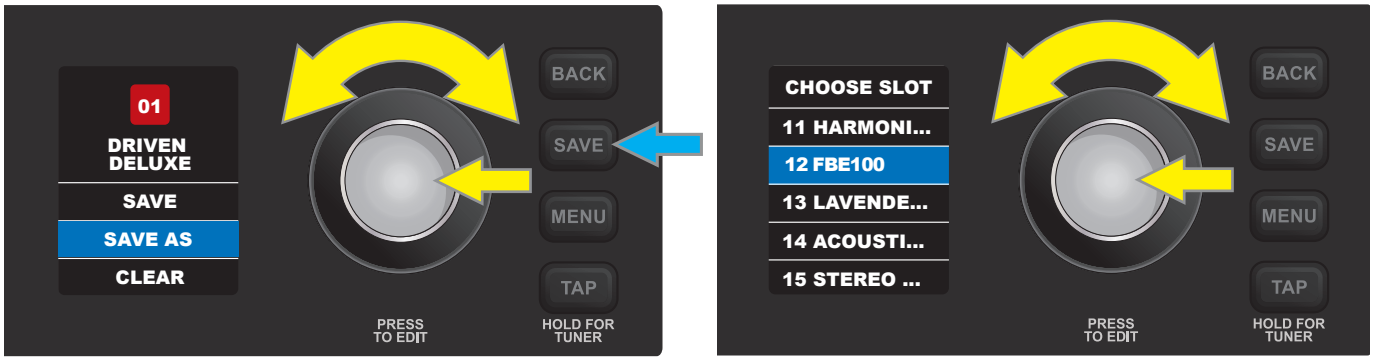


If edited amp control settings are not saved, the preset will revert to its original amp control settings when returning to the preset after leaving it, or when turning the amplifier off and back on again. To save edited amp control settings, press the SAVE utility button and use the ENCODER to scroll to one of three options—SAVE, SAVE AS or CLEAR PRESET. Each is detailed below.

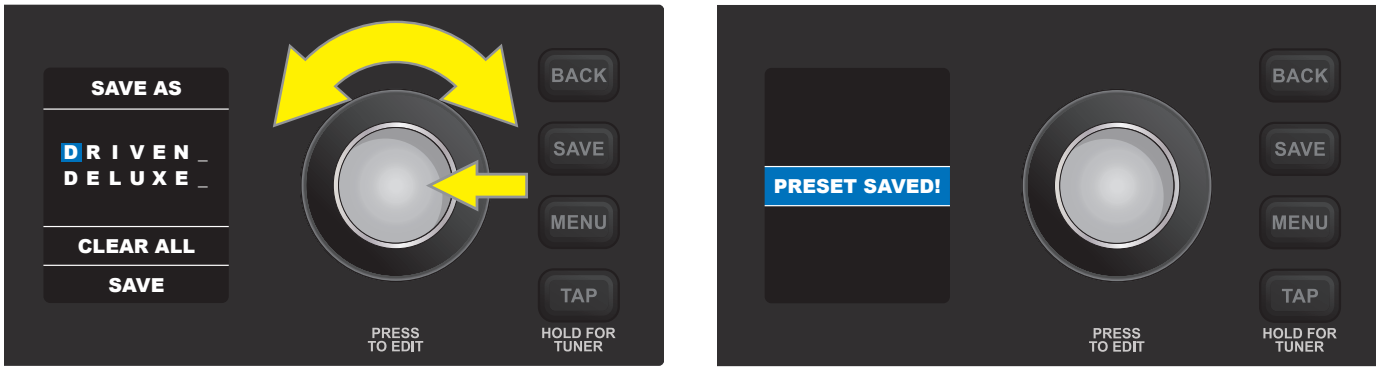
SAVE: Keeps an edited preset in the same location with the same name. To do this, press the SAVE utility button and use the ENCODER to scroll to "SAVE". Press the SAVE utility button again or press the ENCODER. A brief "PRESET SAVED!" screen will then flash before returning to the original preset screen (*see images on next page*):



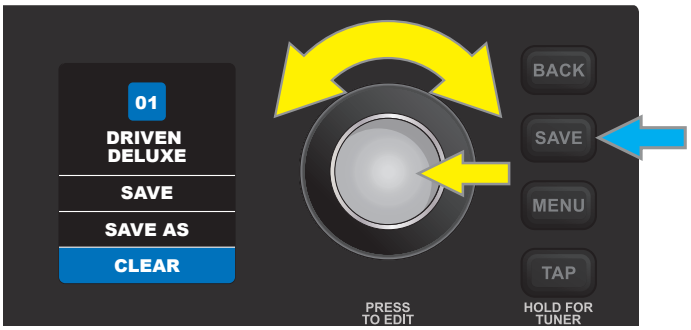
SAVE AS: Enables saving a preset in a different position, with or without a different name. To do this, press the SAVE utility button and use the ENCODER to scroll to "SAVE AS". Press the ENCODER to access a "CHOOSE SLOT" list of locations where the preset can be moved. Select a new location by turning and pressing the ENCODER:

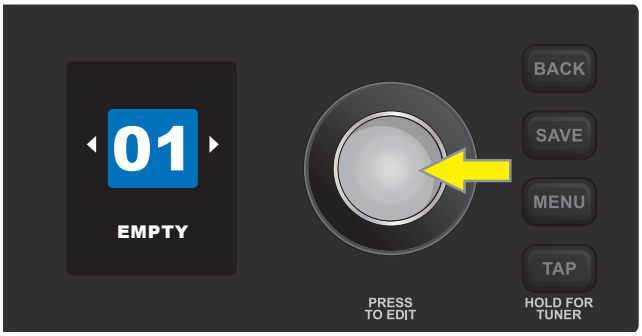


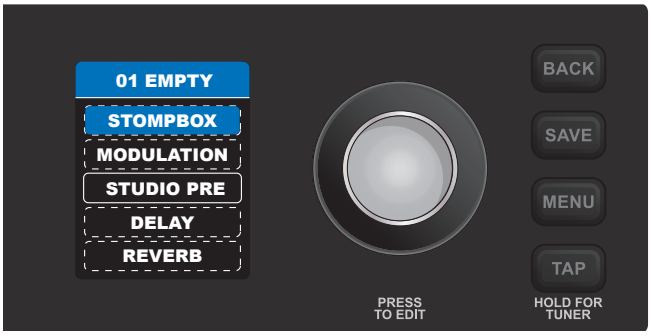
Whether renaming the preset or not when using "SAVE AS", a name must be entered by pressing the ENCODER to activate a cursor, then spelling out the name by turning and pressing the ENCODER to scroll through and select characters. All characters can be cleared by using the ENCODER to scroll to and select "CLEAR ALL". When name entry is completed for the new location, save it by pressing the SAVE utility button or by using the ENCODER to scroll to and select "SAVE". A brief "PRESET SAVED!" screen will then flash before returning to the original preset screen:



CLEAR: Any existing preset can be cleared by pressing the SAVE utility button (blue arrow) and using the ENCODER to scroll to and select "CLEAR". Next, confirm by pressing the SAVE UTILITY button; the cleared preset will keep the cleared preset number and the label "EMPTY" will appear. The signal path will have empty effect blocks and the STUDIO PRE amp model (*see images on next page*):



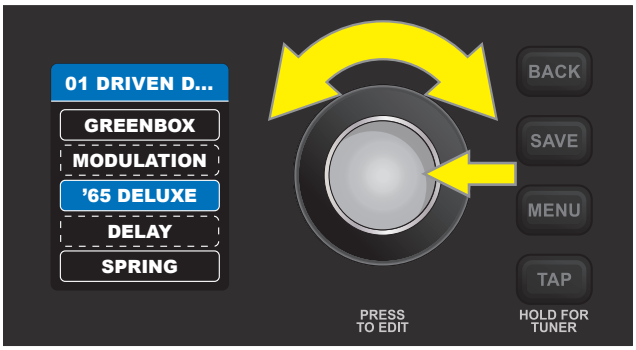


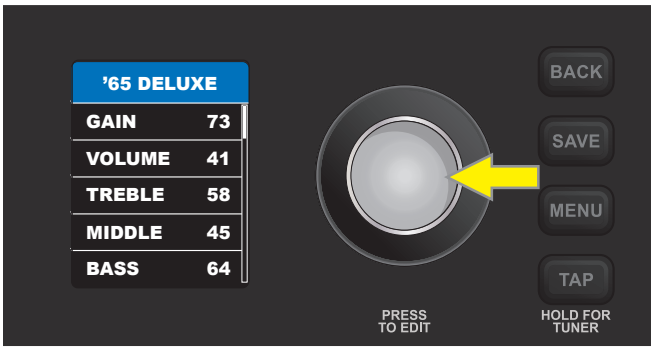


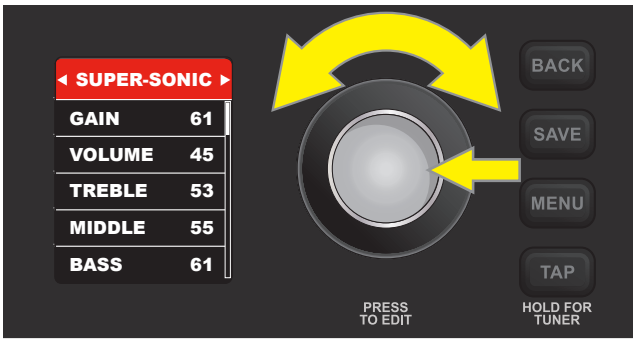
CHANGING THE AMPLIFIER MODEL IN A PRESET

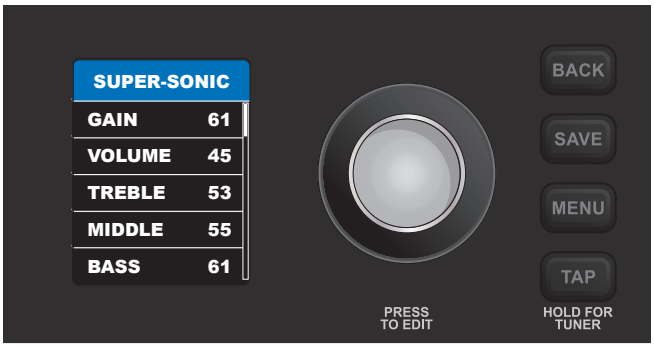
The amplifier model in a preset can be replaced with another one. To do this, access the preset signal path by pressing the ENCODER; turn it to the preferred amp model and press it again to see a list of controls for the selected amp (the name of the amp model appears at the top of this list).

Press the ENCODER again to activate the amp replacement function; the box surrounding the amp name will turn red, with white arrows bracketing the amp name. Turn the ENCODER to scroll to a new amp model and press it to accept the amp model change, after which the box surrounding the amp name will return to blue; or press the BACK utility button to accept the amp model change and return to the preset signal path screen:









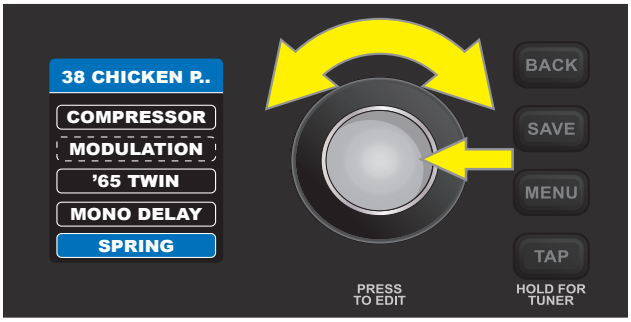
With the new amp model in place, further edits can then be made, or the SAVE utility button can be pressed to keep completed edits.

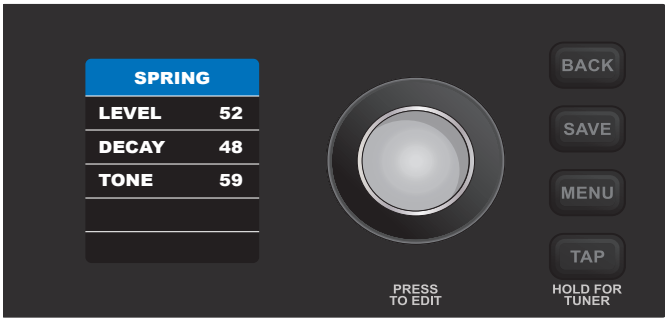
MUSTANG LTX50/100 AMPLIFIER MODELS

’57 CHAMP	’65 DELUXE	’80S BRITISH	BB15 HIGH GAIN	’60S THRIFT
’57 DELUXE	’65 TWIN	’90S AMERICAN	SUPER-SONIC	EXCELSIOR
’57 TWIN	’60S BRITISH	BRITISH COLOUR	FBE-100	STUDIO PREAMP
’59 BASSMAN	BRITISH WATTS	BB15 LOW GAIN	METAL 2000	TUBE PREAMP
’65 PRINCETON	’70S BRITISH	BB15 MID GAIN	UBER	ACOUSTIC SIM

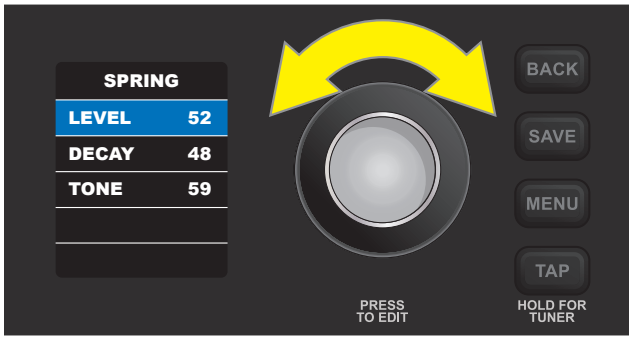
EDIT AND SAVE EFFECT PARAMETERS

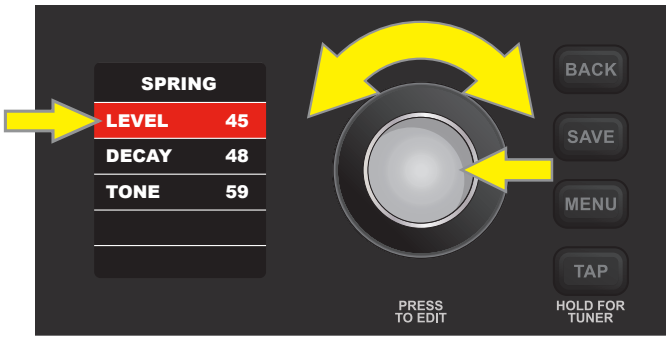
Mustang LTX has four effects categories— STOMPBOX, MODULATION, DELAY and REVERB—that can each contain one effect. Blocks in use display the active effect name; empty blocks display the category name. To edit and save individual control parameter of a preset’s various effects (if any), first select the effect block containing the effect to be edited by turning and pressing the ENCODER in the signal path view. The DISPLAY will then show a list of parameters for the effect model in use in that category:



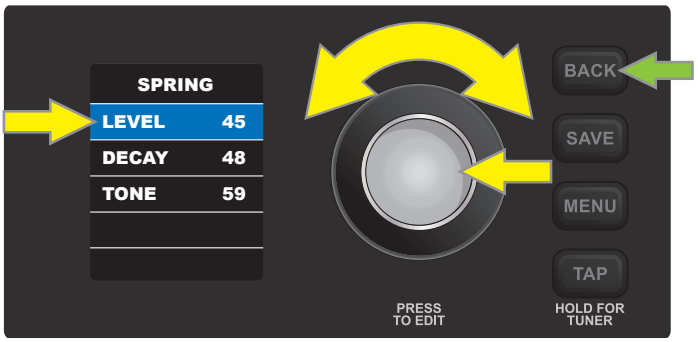


Use the ENCODER to scroll to a particular effect parameter, then press it to select the effect control. Its surrounding box will turn from blue to red. Turn the ENCODER to set a new value for the selected parameter value:





After making changes to the effect parameter, press the ENCODER or the BACK utility button (green arrow) to accept the adjusted control values. Pressing BACK returns the user to the signal path screen; pressing the ENCODER lets the user continue making changes, and the box surrounding the parameter will return to blue:

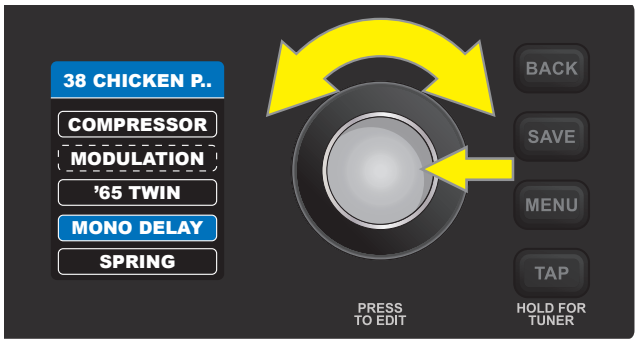


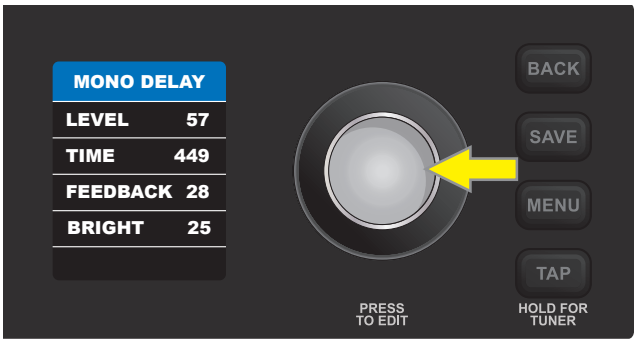
When effect control setting edits are complete, press SAVE to keep the changes to the preset following the SAVE, SAVE AS or CLEAR instructions in the EDITING AND SAVING AMP CONTROL SETTINGS section above.

REPLACE, ADD AND DELETE EFFECTS

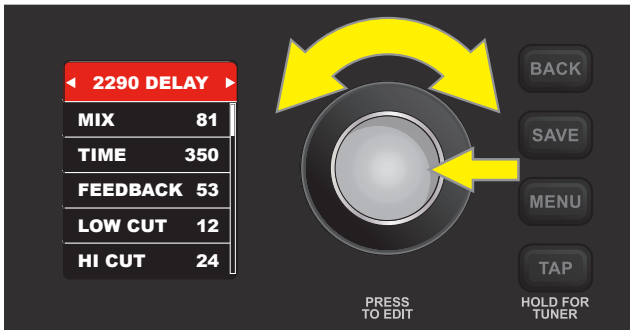
As noted, each of the four effect category boxes can contain one effect. If an effect is present, it can be replaced with another effect in that category, or it can be deleted. If no effect is present, one can be added.

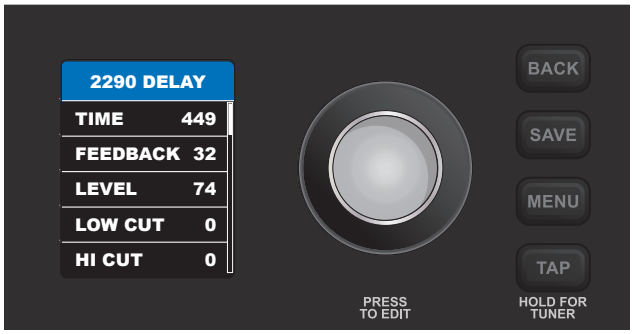
To **REPLACE** an effect, access the signal path of a preset by pressing the ENCODER on it, then use the ENCODER to scroll to one of the four effect category boxes. Press the ENCODER again to see the effect contained in the effect category box; the name of the effect model is highlighted at the top of the DISPLAY:



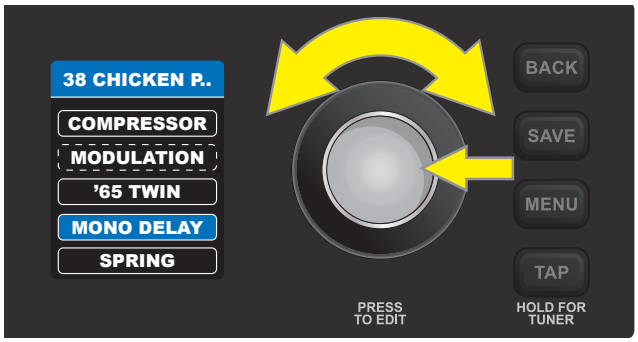


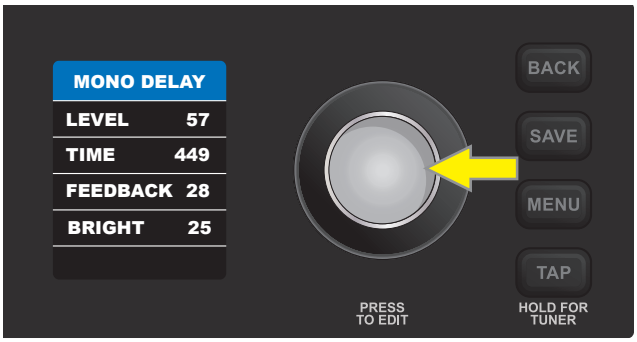
Press the ENCODER again activate the effect replacement function; the box surrounding the effect name will turn from blue to red, and white arrows will bracket the effect name. Turn the ENCODER clockwise to scroll through other effects models in that category. Press the ENCODER to accept a replacement effect and exit edit mode; the surrounding box will return to blue. Alternately, press the BACK utility button (green arrow) to accept the replacement effect and return to the preset signal path screen:



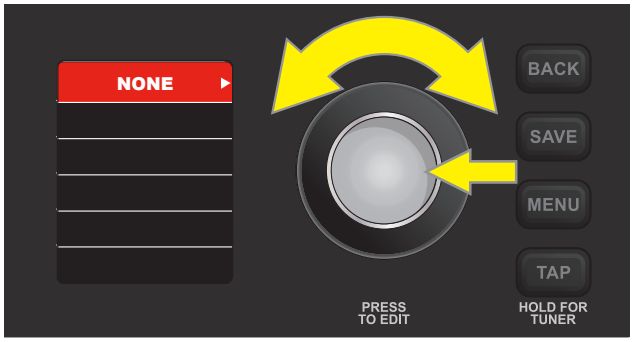


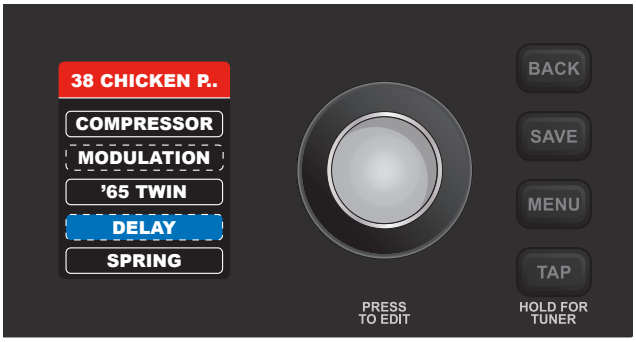
To **DELETE** an effect, the steps are very similar to replacing. As before, access the signal path of a preset by pressing the ENCODER on it, then use the ENCODER to scroll to an occupied effect category box. Press the ENCODER again to see the effect contained in the effect category box; the name of the effect model is highlighted at the top of the DISPLAY:



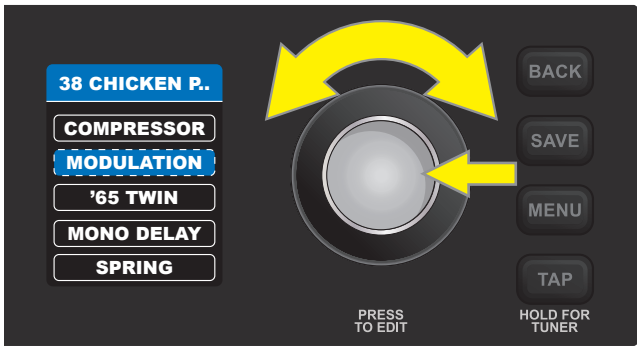


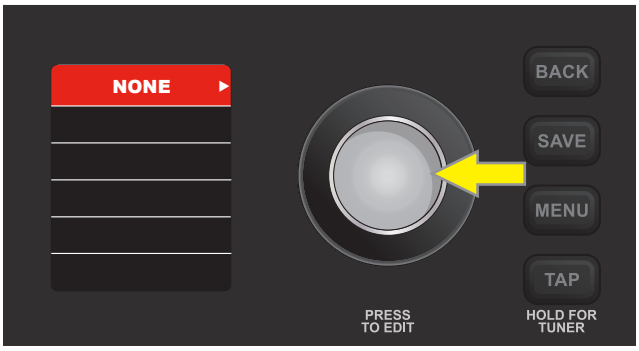
Press the ENCODER again to activate the effect replacement function; the box surrounding the effect name will turn from blue to red, and white arrows will bracket the effect name. Turn the ENCODER counterclockwise until the red-highlighted effect label at the top of the DISPLAY reads "NONE". Press the ENCODER on "NONE" (or press the BACK utility button), after which the user is returned to the preset screen with the previously occupied effect category box now empty:



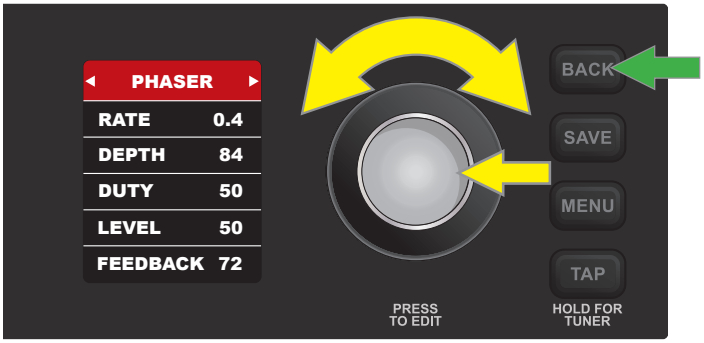


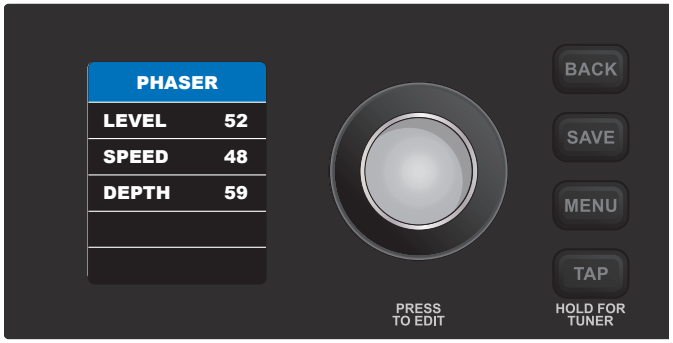
To **ADD** an effect to an empty effect category box, first access the signal path of a preset by pressing the ENCODER on it, then use the ENCODER to scroll to the empty effect category box. Press the ENCODER again to access the empty effect category box; the red-highlighted label "NONE" will appear at the top of the DISPLAY:





Turn the ENCODER clockwise to scroll through effects models in that category. Press the ENCODER on the desired effect, after which the box surrounding the effect name will return to blue and the effect is added to that effect category box. Alternately, press the BACK utility button (green arrow) to return to the signal path screen:





NOTE: If a preset is not saved after an effect has been replaced, deleted, or added, the preset will revert to its original effect model(s) when returning to the preset after leaving it, or when turning the amplifier off and back on again. To save a preset with a changed, deleted, or added effect model, follow the SAVE, SAVE AS or CLEAR instructions above.

SETTING DELAY TIME WITH TAP BUTTON

There are three ways to set delay times for effects in the Mustang LTX "DELAY" effects category box. The first way is to use the "Editing and Saving Effects Control Settings" instructions detailed above, using the ENCODER to select and adjust individual effect settings, including delay time.

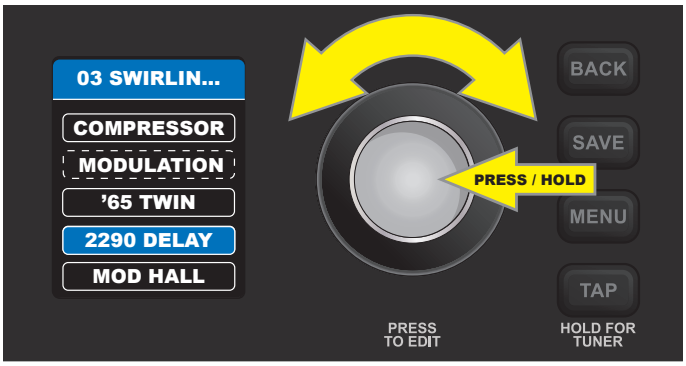
The second way is to use the TAP utility button (yellow arrow). If a preset includes a delay, the TAP LED (red arrow) flashes in time with that effect's default delay time. This time setting can be modified by tapping the TAP utility button twice or more at the desired tempo, regardless of what screen is shown in the DISPLAY:

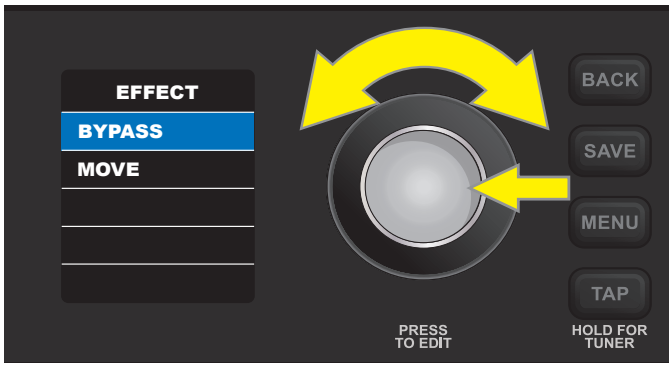
The third way to set delay times is to use the five-button footswitch; see FOOTSWITCH section for instructions on how to do this.

NOTE: If an edited delay time is not saved, the effect will revert to its original delay time when returning to the preset after leaving it, or when turning the amplifier off and back on again. To save an edited delay time, follow the SAVE, SAVE AS or CLEAR instructions above.

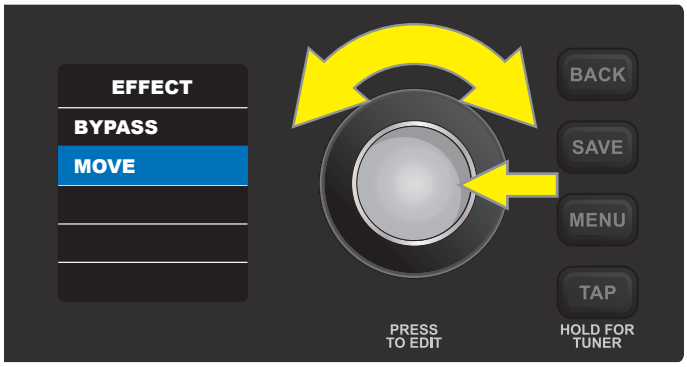
BYPASS AND MOVE EFFECTS

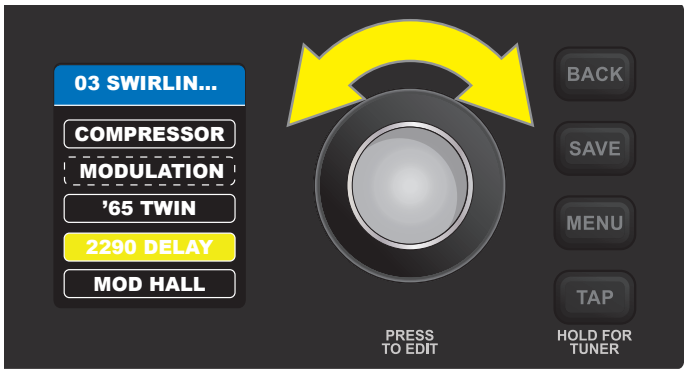
To **BYPASS** individual effects within a preset, highlight it in the signal path view and press and hold the ENCODER. Select "BYPASS" from the menu options and press the ENCODER again. The effect block box will then change from a solid to dashed line indicating that the effect has been bypassed; the box containing the preset number will change from blue to red (indicating that a preset edit has been made). With the effect now bypassed, further edits can then be made or the SAVE utility button can be pressed to keep completed edits:

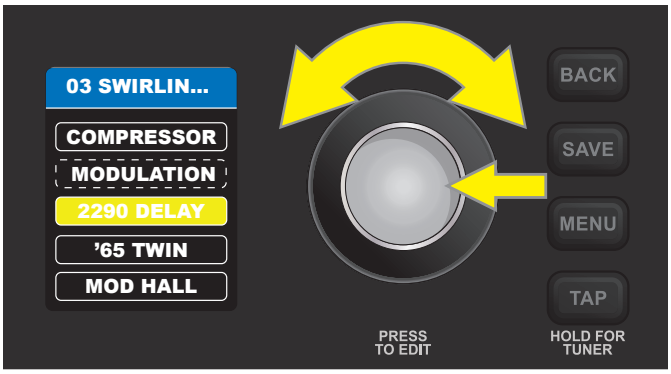




To **MOVE** an effect within a preset, highlight it in the signal path view and **press and hold** the ENCODER. Select "MOVE" from the menu options and press the ENCODER again. The effect block will then change from blue to yellow indicating that the effect is moveable within the signal path. Turn the ENCODER to move the effect position and press to confirm new location. The box containing the preset number will change from blue to red (indicating that a preset edit has been made). With the effect moved, further edits can then be made, or the SAVE utility button can be pressed to keep completed edits (*see additional images on next page*):





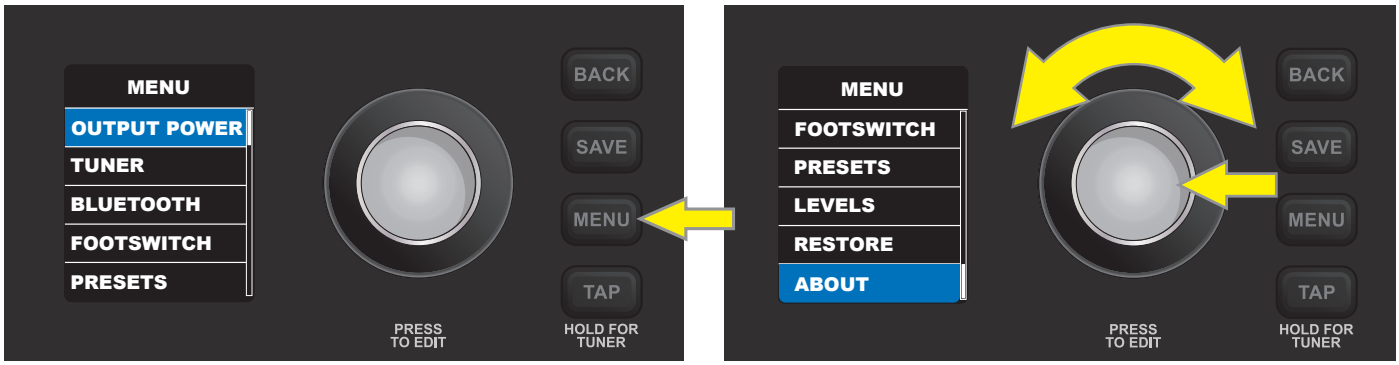


MUSTANG LTX50/100 EFFECTS MODELS

STOMPBOX	MODULATION	DELAY	REVERB
OVERDRIVE	SINE CHORUS	MONO DELAY	LARGE HALL
GREENBOX	TRIANGLE FLANGER	TAPE DELAY	SMALL ROOM
MYTHIC DRIVE	PHASER	2290 DELAY	SPRING REVERB
BLACKBOX	VIBRATONE	REVERSE DELAY	MOD. LARGE HALL
FUZZ	SINE TREMOLO		
BIG FUZZ	HARMONIC TREMOLO		
OCTOBOT			
COMPRESSOR			
SUSTAIN			
5-BAND EQ			
ENVELOPE FILTER			

MENU FUNCTIONS

Mustang LTX features eight MENU functions—OUTPUT POWER, TUNER, BLUETOOTH, FOOTSWITCH, PRESETS, LEVELS, RESTORE and ABOUT—all easily accessed by pressing the MENU utility button. The first function (OUTPUT POWER) is automatically highlighted; use the ENCODER to scroll to and select any MENU function:

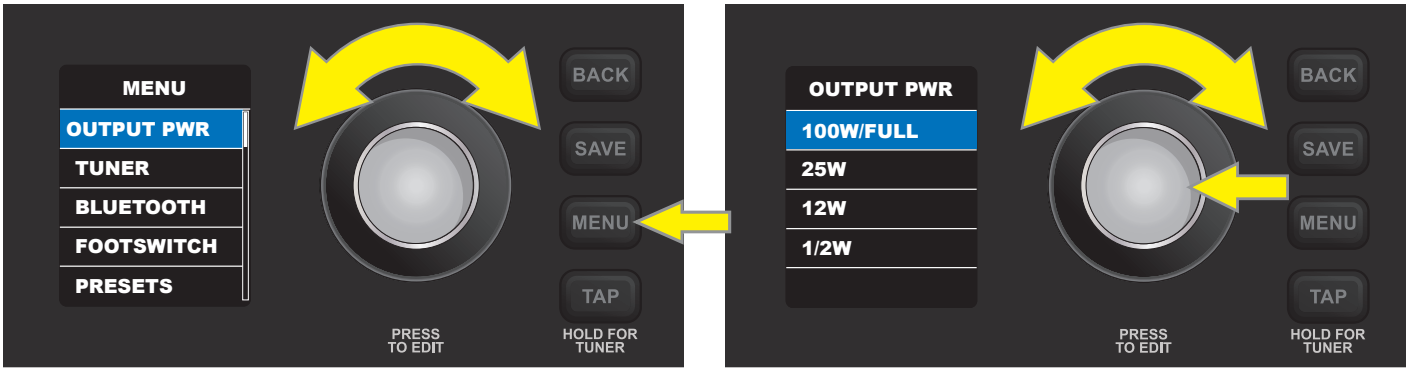


- **OUTPUT POWER:** For selecting amplifier output power with four different wattage settings.
- **TUNER:** Enables use of the Mustang LTX built-in chromatic tuner.
- **BLUETOOTH:** For pairing Mustang LTX Bluetooth streaming audio connections.
- **FOOTSWITCH:** For configuring various functions of Mustang LTX five-button footswitch.
- **PRESETS:** For configuring onscreen and footswitch Mustang LTX preset displays.
- **LEVELS:** Level control with signal-strength meter for adjusting rear-panel XLR LINE OUT level and when recording using rear-panel USB audio port. Signal-strength meter for monitoring effect loop return level.
- **RESTORE:** Enables restoration of factory amplifier settings.
- **ABOUT:** Displays current firmware version.

MENU: OUTPUT POWER

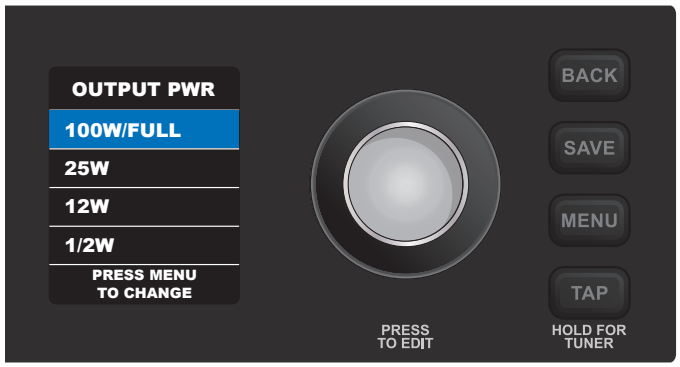
Controls overall amplifier output level to main speaker, including Bluetooth, auxiliary in audio and USB input. The OUTPUT POWER menu offers full power and three reduced-wattage settings to tailor the overall volume to the environment (100W, 25W, 12W and 1/2W for Mustang LTX100; 50W, 12W, 6W and 1/2W for Mustang LTX50).

To access this option, press the MENU utility button and use the ENCODER to scroll to and select OUTPUT POWER. The active output level is automatically highlighted. Turn the ENCODER to select a new power level and press it to confirm. Press the back button to exit the OUTPUT POWER menu:



Mustang LTX100 Output Power menu shown; Mustang LTX50 Output Power selection functions identically.

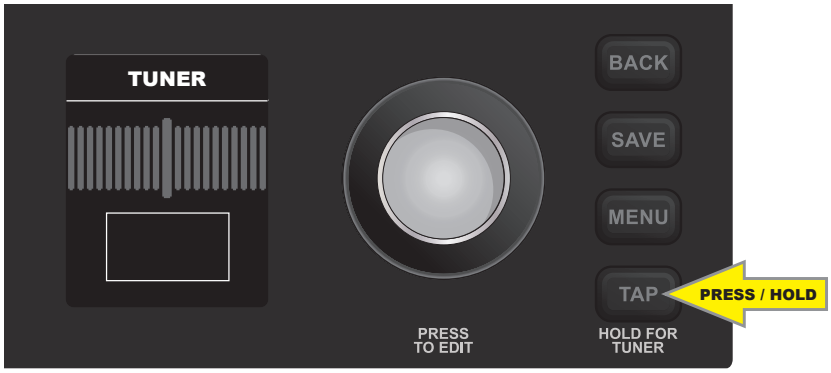
Note that when turning the amplifier on, the last saved OUTPUT POWER level will be active and displayed after the initial power-up screen:



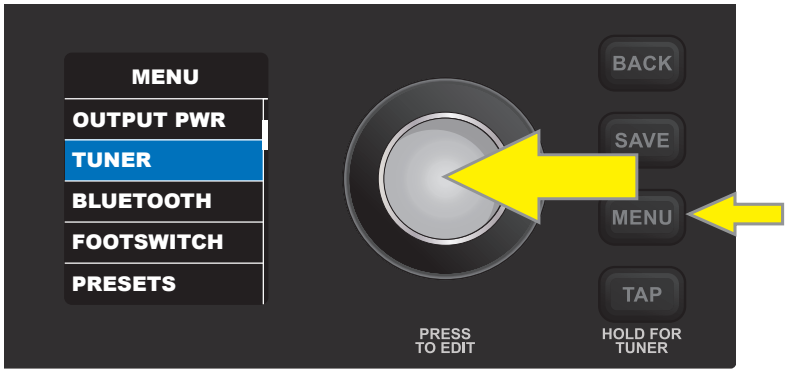
Mustang LTX100 power-up Output Power display shown; Mustang LTX50 power-up Output Power display functions identically.

MENU: TUNER

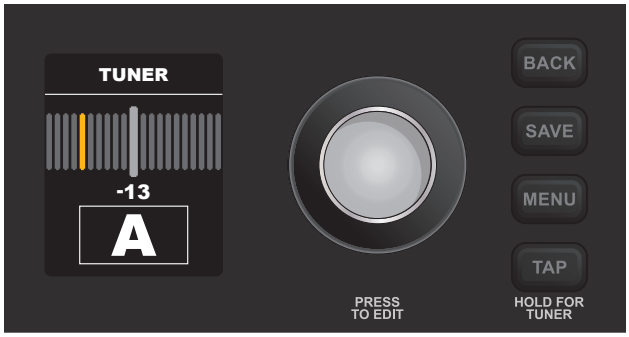
There are three ways to access the Mustang LTX built-in chromatic tuner. The first way is to press and hold the TAP utility button on the control panel until the tuner screen appears in the DISPLAY:



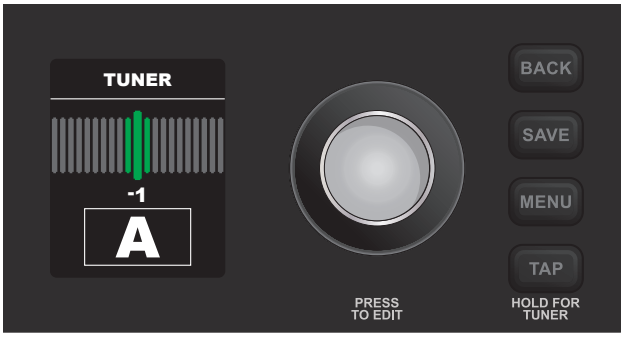
The second way is to press the MENU utility button on the control panel; the list of MENU functions will appear in the DISPLAY with the TUNER function automatically highlighted atop the list. Turn and press the ENCODER on TUNER to access the tuner screen:



To use the TUNER, sound a note; the letter name of the pitch will appear in the box at bottom with the numerical distance from the correct pitch value in cents directly above it. The shorter vertical bars on either side of the longer vertical center bar will illuminate in yellow to indicate varying degrees of sharpness (to the right) or flatness (to the left). When a pitch is within one cent of being precisely in tune, the longer vertical center bar and the two shorter vertical bars on either side of it will illuminate in green:



TARGET PITCH FLAT



TARGET PITCH IN TUNE

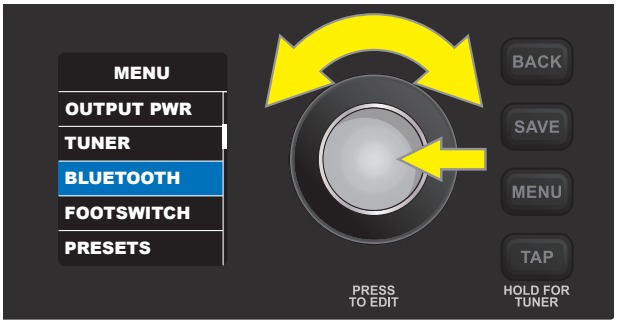
Note that speaker output is muted when tuning, and that the volume control on the instrument being tuned must be turned up sufficiently to register a TUNER reading.

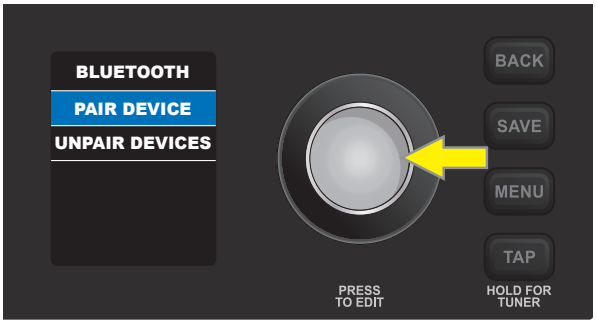
The third way to access the tuner is by using the footswitch. To use the footswitch for hands-free chromatic tuning, see the FOOTSWITCH section.

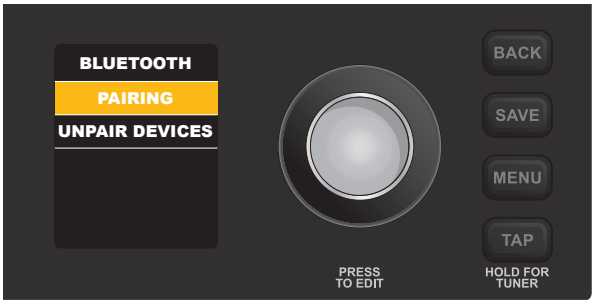
MENU: BLUETOOTH

FENDER TONE™ APP CONNECTION: To connect to the Fender Tone app (pairing not required), turn Mustang LTX50/100 on, open the app and enable Bluetooth on your mobile device. If prompted by your mobile device, let the Tone app access Bluetooth permissions; it will then automatically scan for compatible Fender products. Touch CONNECT to establish the Bluetooth connection between external device and Mustang LTX50/100.

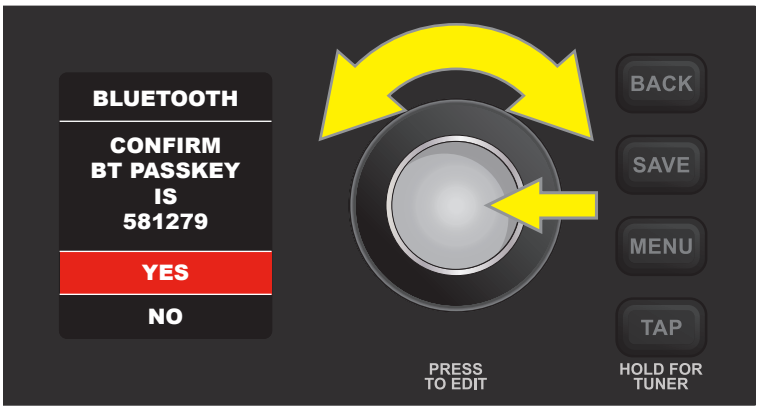
BLUETOOTH ON/OFF, PAIR: To enable Bluetooth for easy audio streaming to Mustang LTX50/100, press the MENU utility button and use the ENCODER to scroll to "BLUETOOTH". Select PAIR DEVICE and press the ENCODER. The menu option will be highlighted with a yellow box labeled "PAIRING". "MUSTANG LTX" will now be discoverable on your device. Select "MUSTANG LTX" on the external device being connected to the amp, and set instrument mix level using Bluetooth device volume setting (overall volume is controlled by amp MASTER volume):



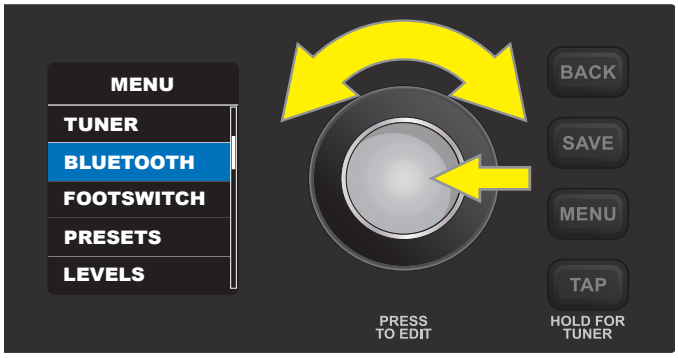


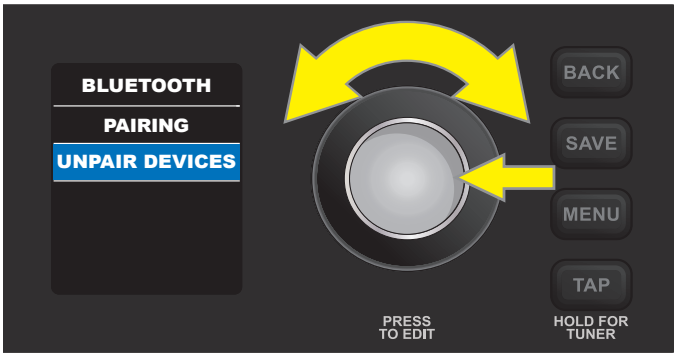


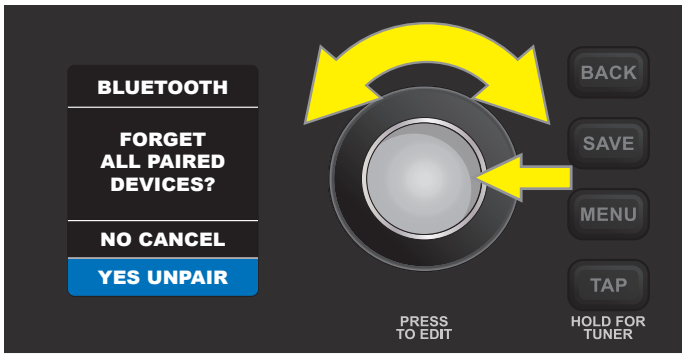
Bluetooth pairing features a pairing request and passkey similar to other Bluetooth-equipped Mustang amplifiers and devices. Turn and press the ENCODER to scroll to and select the preferred option:



BLUETOOTH UNPAIR: To remove all paired devices from the Mustang LTX amplifier, turn and press the ENCODER to scroll to and select UNPAIR DEVICES; then select YES UNPAIR to remove all paired devices.



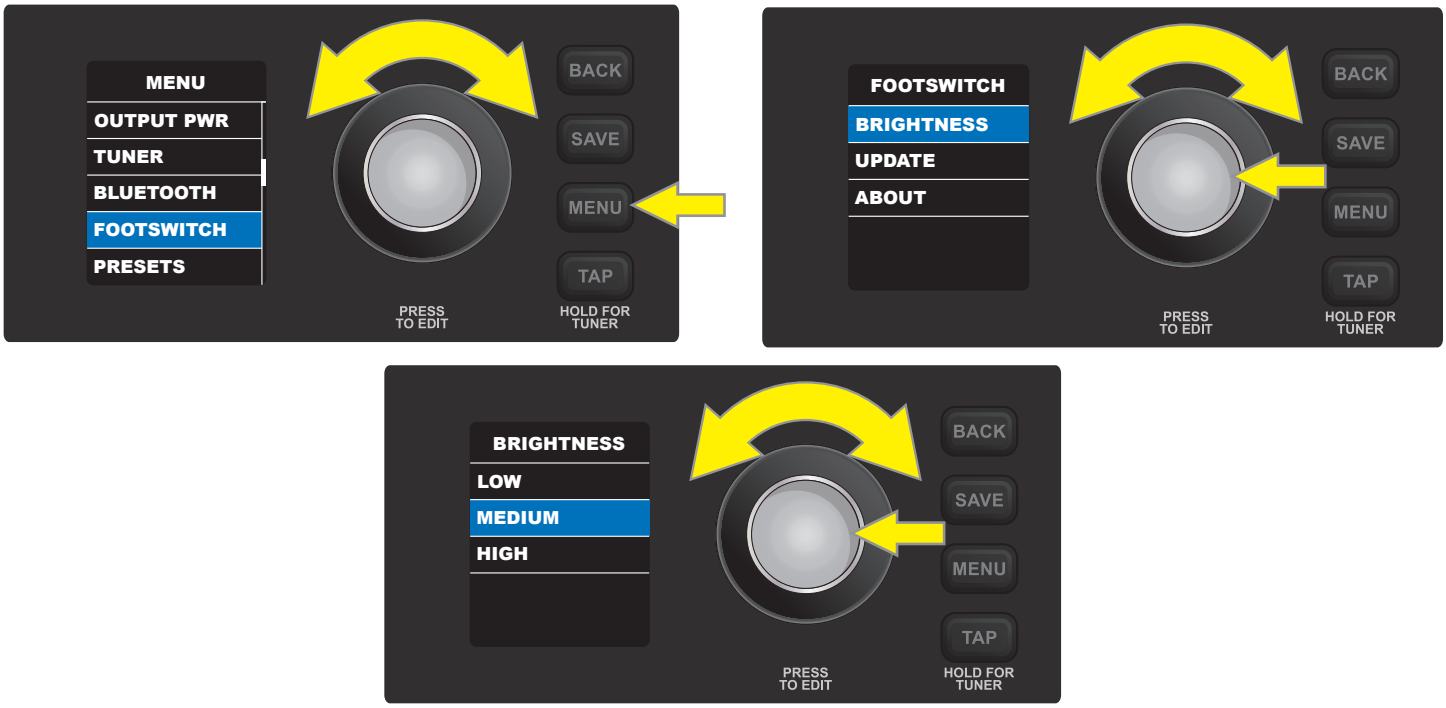




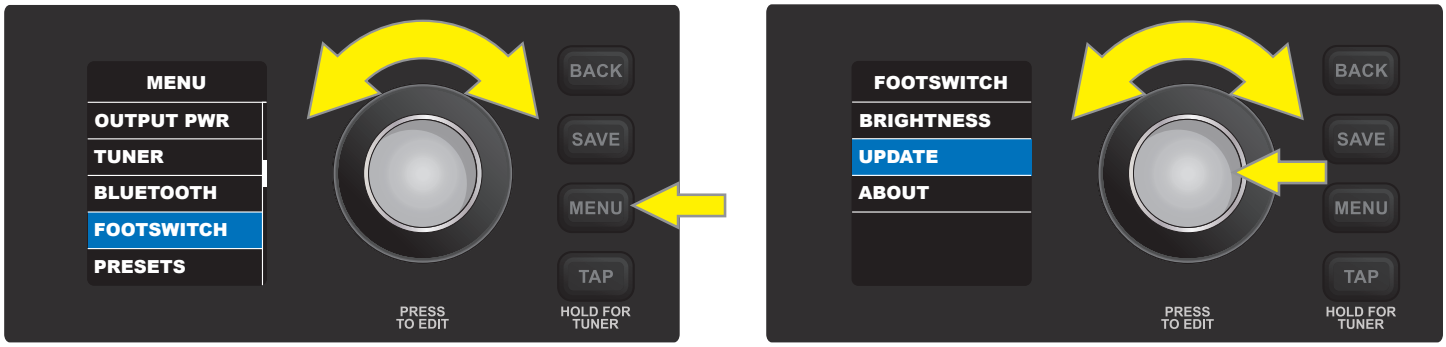
MENU: FOOTSWITCH

Menu options for the footswitch include BRIGHTNESS, UPDATE and ABOUT.

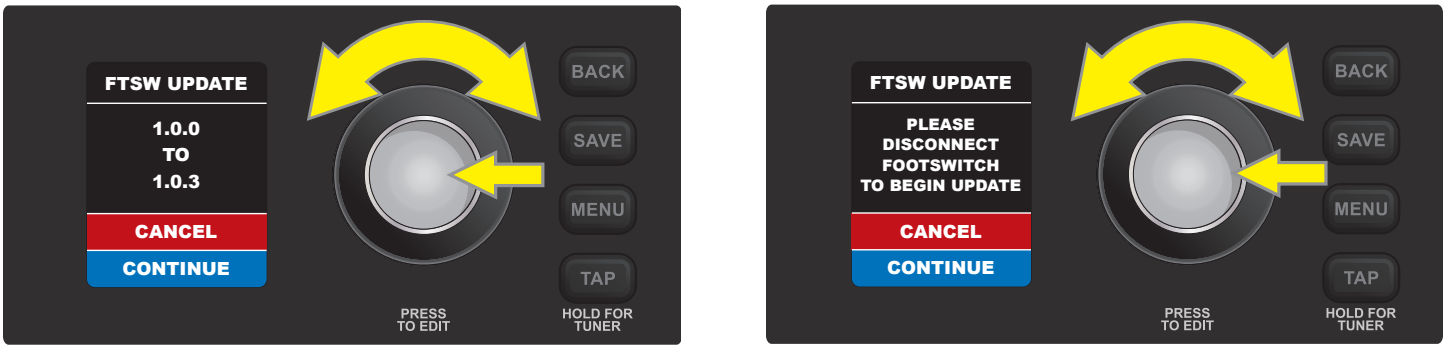
BRIGHTNESS: Adjusts the brightness of footswitch display and LEDs. To do this, press the MENU utility button and use the ENCODER to scroll to and select FOOTSWITCH. Select BRIGHTNESS; then select a LOW, MEDIUM or HIGH level:



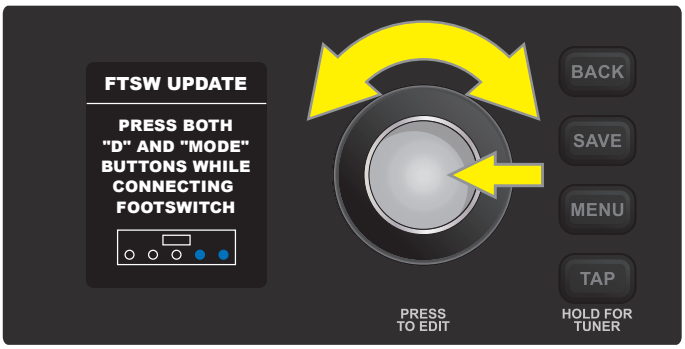
UPDATE: Enables Footswitch firmware update mode. To do this, press the MENU utility button and use the ENCODER to scroll to and select FOOTSWITCH; then scroll to and select UPDATE:

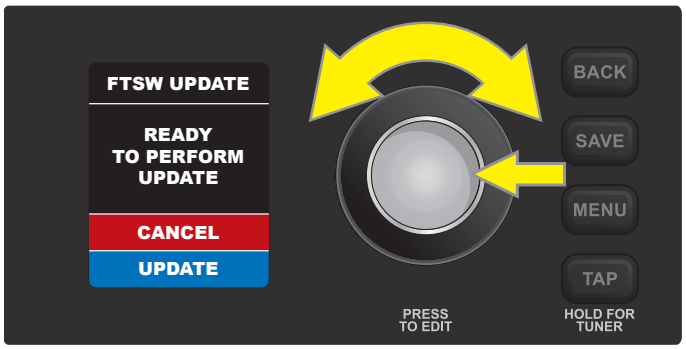


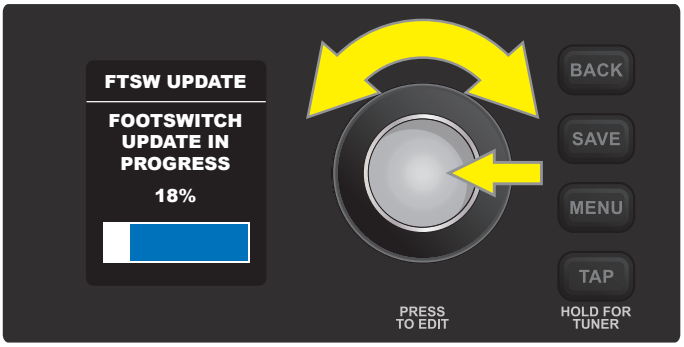
The current footswitch firmware update will be displayed, along with options to CANCEL or CONTINUE; scroll to and select the preferred function. Disconnect footswitch cable (if already connected) to begin an update; then reconnect it while simultaneously holding the "D" and MODE switches to enter update mode when directed.

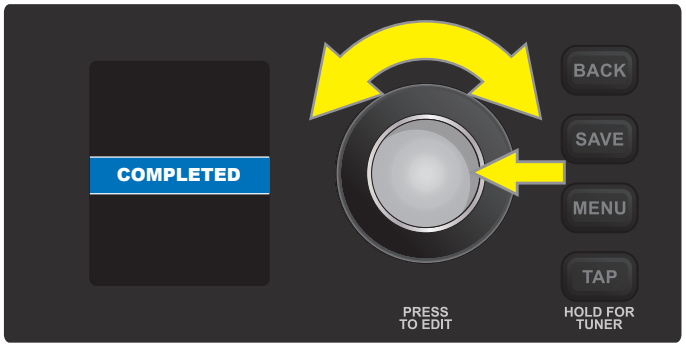


To continue with an update, follow the display window instructions to press the footswitch "D" and "MODE" buttons (the two buttons at right) while connecting it. A READY TO PERFORM UPDATE message will appear along with options to CANCEL or UPDATE; scroll to and select the preferred function. When proceeding with an update, a status bar will indicate its progress and a COMPLETED message will appear when the update is finished successfully:

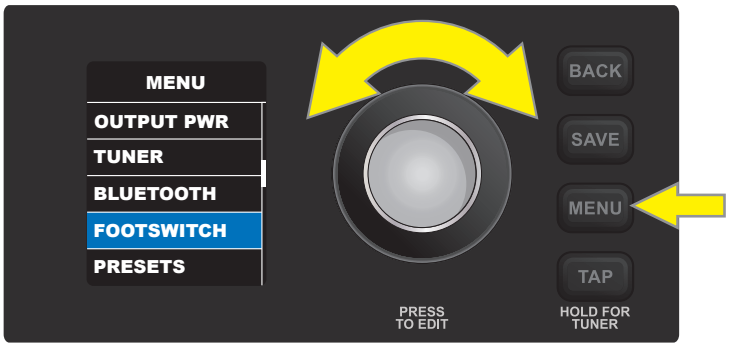


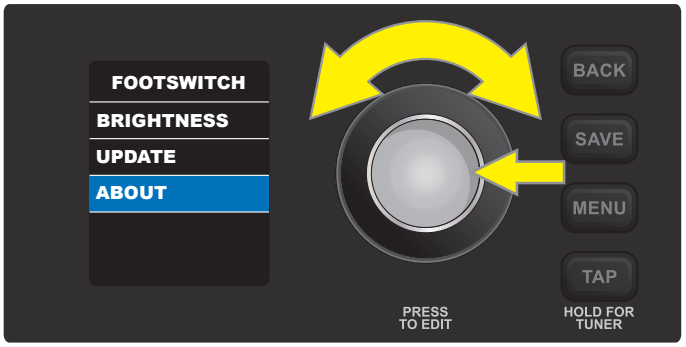


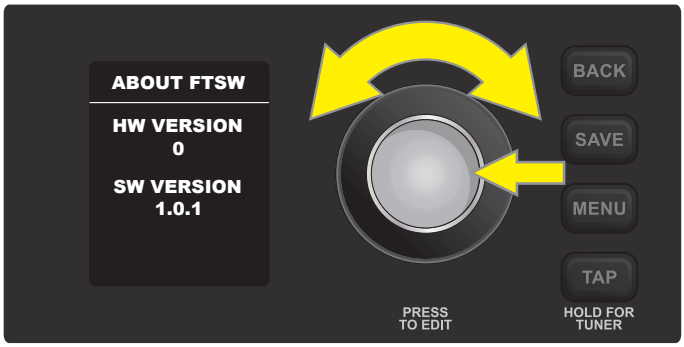




ABOUT: Displays current footswitch firmware version. press the MENU utility button and use the ENCODER to scroll to and select FOOTSWITCH. Select ABOUT to view the current footswitch firmware version:







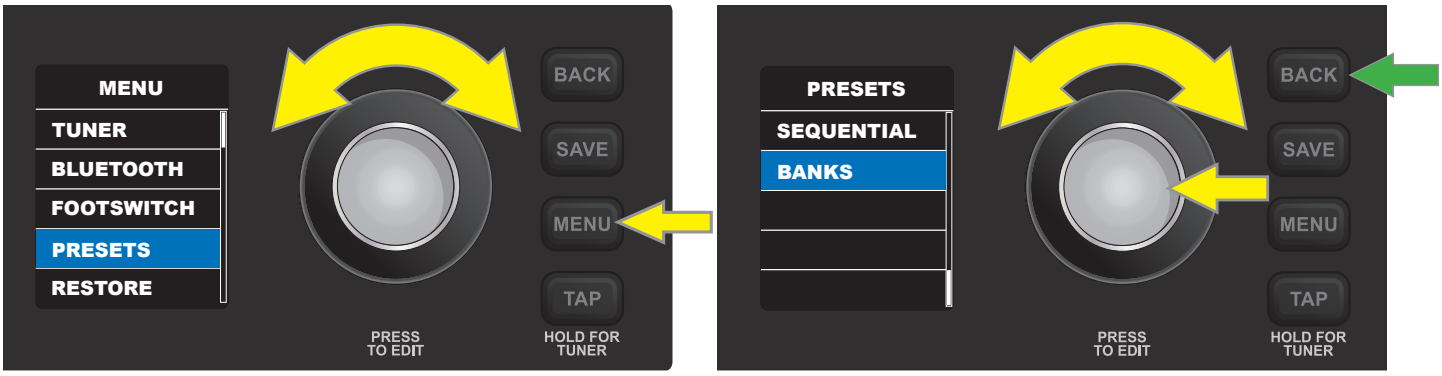
MENU: PRESETS

PRESETS configures the preset numbering shown on the amplifier and footswitch displays. SEQUENTIAL mode displays the 100 presets sequentially from 01 to 100. BANK mode displays the 100 presets in 25 banks of four groups (A through D). BANK mode is useful for navigating presets when using the LTX-5 footswitch.

SEQUENTIAL MODE SHOWING PRESET 51

BANK MODE SHOWING BANK 12, PRESET C

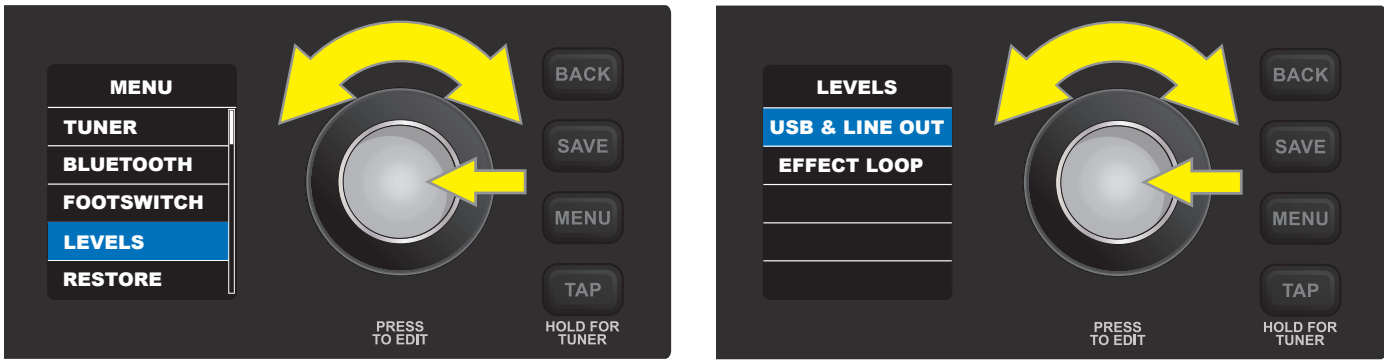
To change the preset display mode, press the MENU utility button, then use the ENCODER to scroll to and select PRESETS. The active display mode will be highlighted in blue. Turn the ENCODER to select the alternate mode and press it to confirm. Press the BACK utility button (green arrow) to exit the PRESETS menu:



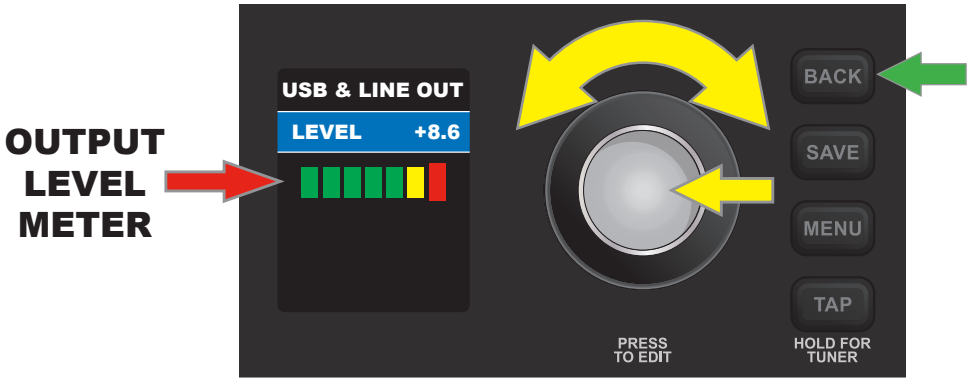
MENU: LEVELS

LEVELS features a level control with signal-strength meter for adjusting the LINE OUT volume and use when recording using the USB port on the rear panel. Note that the MASTER VOLUME control does not control LINE OUT or USB output volume. LEVELS also features a signal-strength meter to monitor the effect loop return levels.

USB AND LINE OUT: To access this option, press the MENU utility button and use the ENCODER to scroll to and select LEVELS. Select USB & LINE OUT to view and adjust output level:

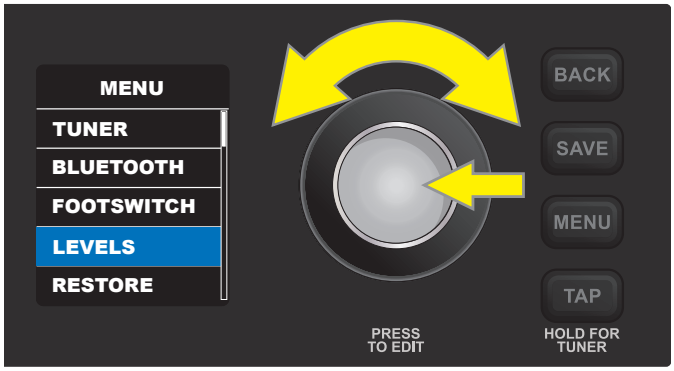


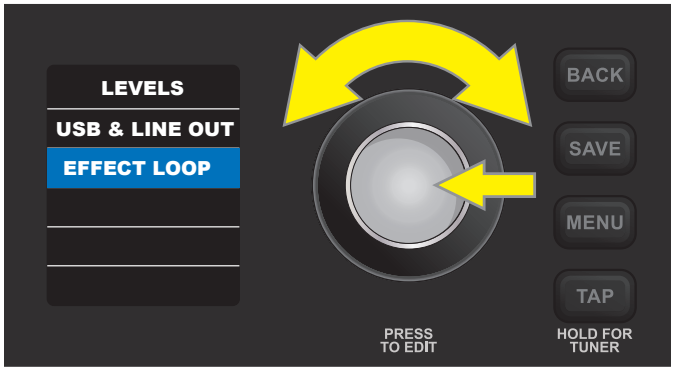
Turn the ENCODER to set a new "LEVEL" value; press it to accept the new value and exit the menu. Alternately, press the BACK utility button (green arrow) to accept the new value and return to the MENU function screen:

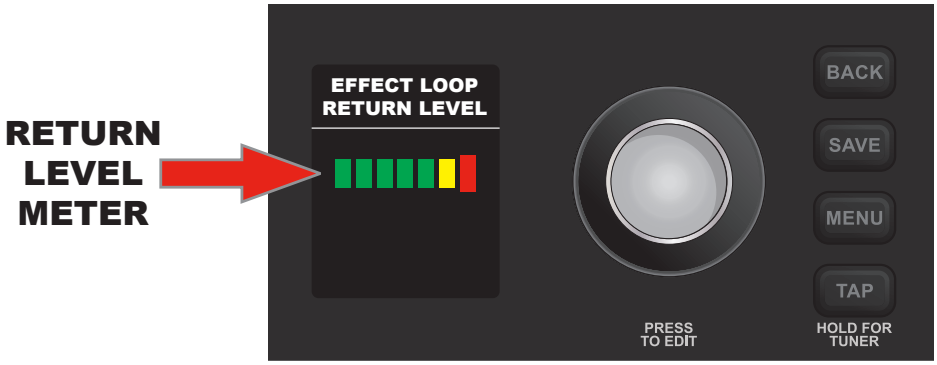


For best sound quality, set "LEVEL" so that signal stays within the green bars, barely reaches the single yellow bar at right, and does not reach the single longer red clipping bar at far right (all bars shown illuminated in illustration above). Note that changing presets can change individual volume; "LEVEL" readjustment may be necessary when changing presets.

EFFECT LOOP: To access this option, press the MENU utility button and use the ENCODER to scroll to and select LEVELS. Select EFFECT LOOP to view effect loop return signal level:

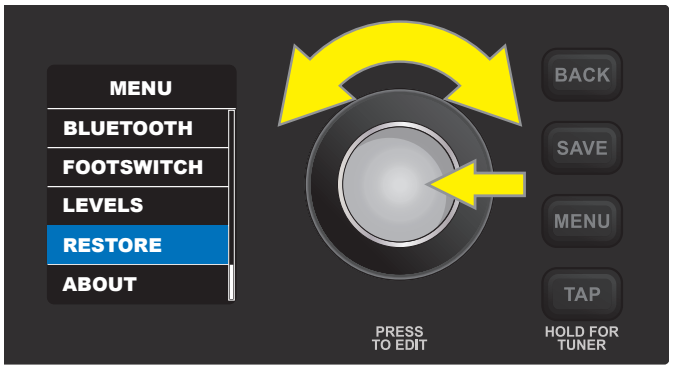


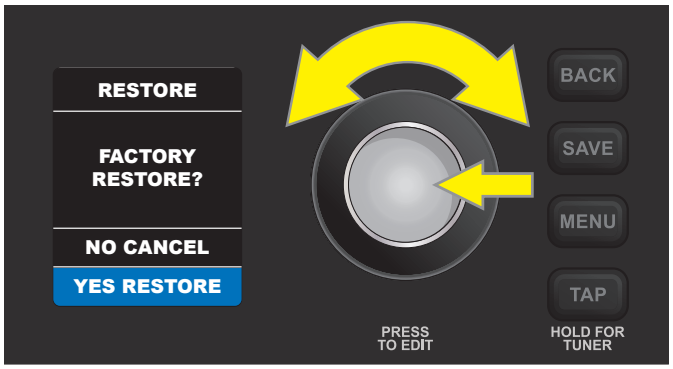




MENU: RESTORE

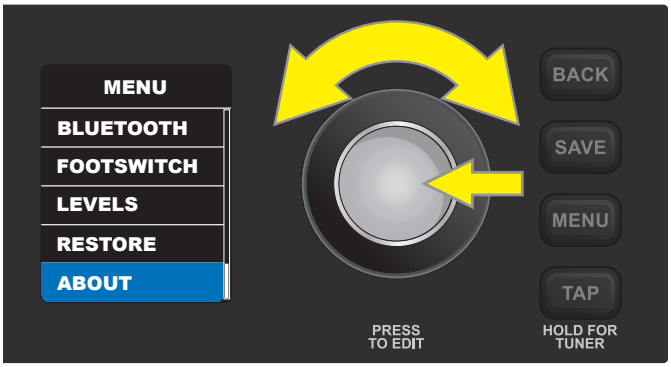
RESTORE enables restoration of all original factory presets and amplifier settings. To do this, press the MENU utility button, then use the ENCODER to scroll to and select RESTORE. To initiate restore use the ENCODER to scroll to and select "YES RESTORE". To cancel restoration, press the ENCODER on "NO CANCEL", or press the BACK utility button. While restoration is in progress, a blue waiting screen with a progress bar will appear. When restoration is complete, the user is returned to the first preset screen:

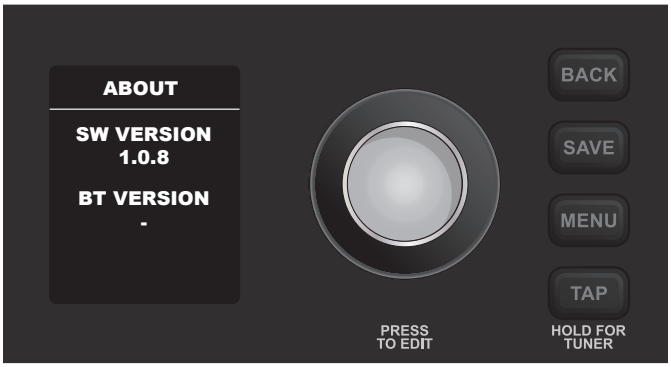




MENU: ABOUT

ABOUT displays the amp's current firmware version. To do this, press the MENU utility button, then use the ENCODER to scroll to and select ABOUT; the current firmware version will be displayed:

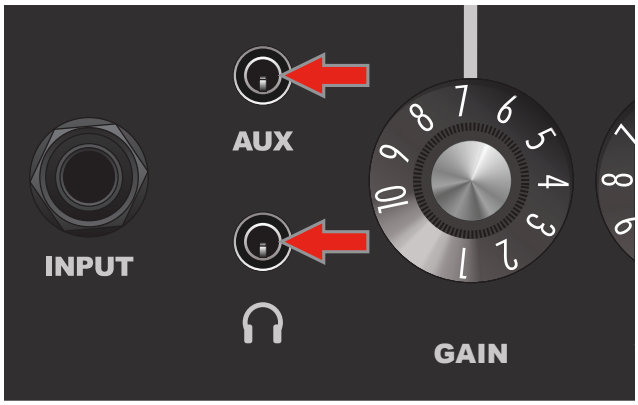




AUXILIARY INPUT/HEADPHONE OUTPUT

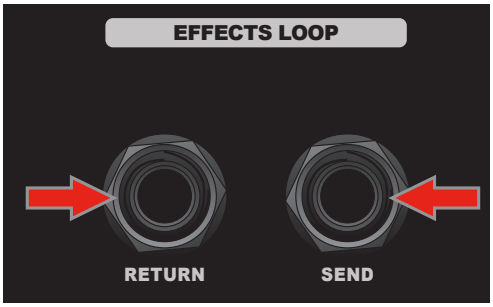
The Mustang LTX control panel features two 1/8"-inch jacks: an auxiliary input for connecting external mobile/audio devices and an output for convenient headphone use.

Set instrument auxiliary input mix level using external device volume setting; overall level is controlled by amp MASTER volume. Speaker output is muted when headphones are plugged in.



REAR PANEL FEATURES

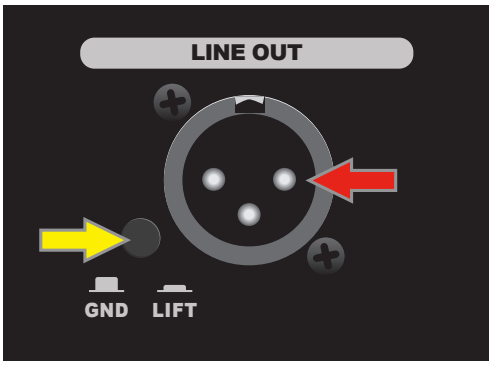
EFFECTS LOOP



Mustang LTX amplifiers feature a 1⁄4" effects loop. The SEND and RETURN jacks on the rear panel are for mono external effects use with standard ¼" TS or TRS cables.

Note that external effects connected to these jacks are inserted directly after the digital amp model and before any effect blocks placed post amp model in the preset signal path.

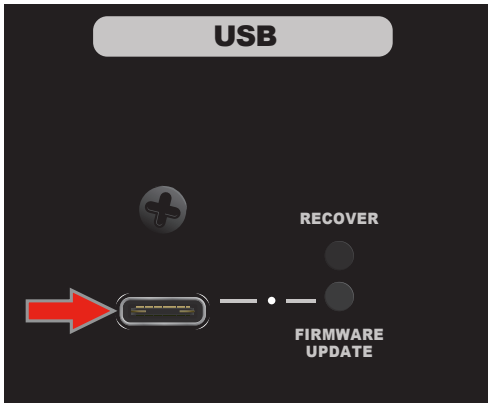
LINE OUT/GROUND LIFT



A balanced XLR line out is available for connection to external recording and sound reinforcement equipment.

The LINE OUT output level is adjusted using the LEVELS menu function and is not affected by the MASTER VOLUME knob. When using the LINE OUT, engaging the GROUND LIFT button (yellow arrow) may eliminate hum or buzz resulting from connection to improperly grounded equipment. Bluetooth and Aux In audio is included in the LINE OUT.

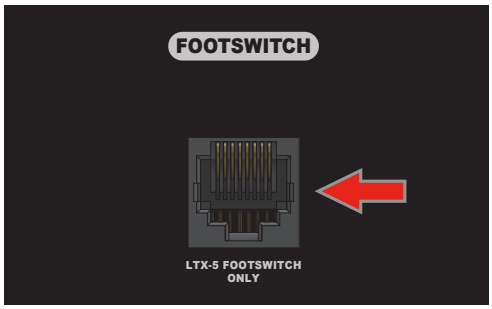
USB PORT



The Mustang LTX rear control panel features a USB port for bi-directional audio (recording and monitoring) and for firmware updates. Using a USB-C cable, connect a computer or iOS device with recording software to this port. No external driver is needed to connect to an Apple computer. For assistance with Windows USB recording, visit the "Connected Amps" section at https://support.fender.com.

A USB output level control is located in the "LEVELS" menu (*see pages 21-22*). Bluetooth and Aux In audio are included in the USB out. When monitoring with USB input audio, control the instrument mix level using the USB source device; set overall volume using the amp MASTER volume.

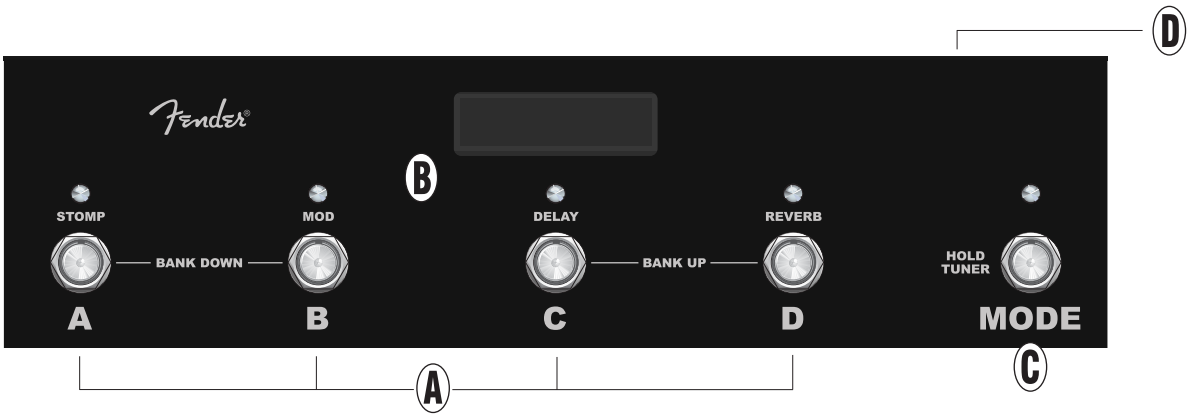
FOOTSWITCH



The optional five-button LTX-5 Footswitch enables convenient remote foot control of several functions, including the built-in tuner, amp preset selection, effects bypass and tap tempo. Connect the footswitch to the rear-panel FOOTSWITCH jack.

LTX-5 FOOTSWITCH

The LTX-5 Footswitch is an optional five-button footswitch that enables convenient hands-free operation and control of several key Mustang LTX functions, including mode selection (PRESETS or EFFECTS), preset banking and selection, effects use and bypass, tap tempo and tuner. It has four function buttons, a mode button, five bi-color LEDs and a display.



A. FUNCTION BUTTONS/LEDS: Four buttons with bi-color LEDs arrayed along the bottom for selecting active preset, effect bypass state, tap tempo and preset bank. LEDs indicate active preset and effects bypass state, and are also used in TUNER mode. From left to right each button is lettered A, B, C and D; and each is labeled with an effects type—STOMP (stompbox), MOD (modulation), DELAY and REVERB.

B. DISPLAY: Displays active preset, effects mode, tuner and tap tempo.

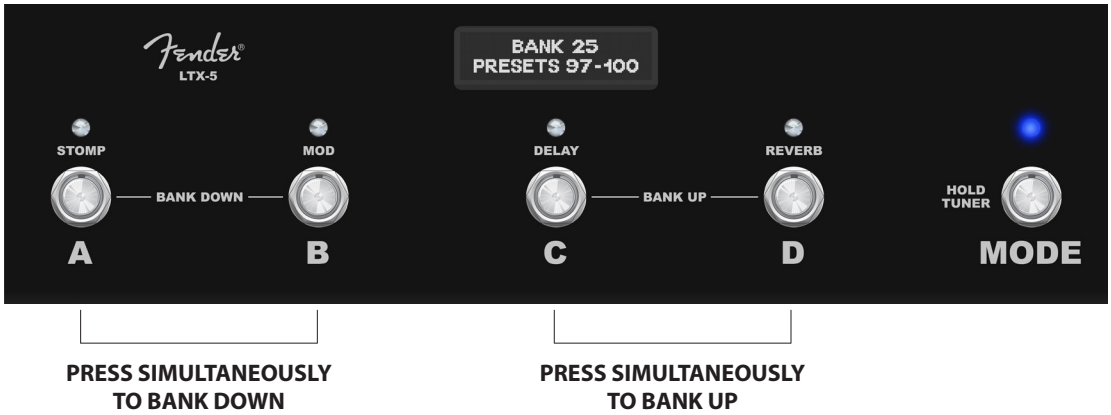
C. MODE BUTTON/LED: Switches between PRESETS and EFFECTS modes; also activates TUNER mode. Bi-color LED indicates which mode is in use, and is also used in Tuner mode.

D. FOOTSWITCH JACK (NOT SHOWN): Connect RJ45 footswitch cable here.

FOOTSWITCH: PRESETS MODE

PRESETS mode lets the user access any Mustang LTX preset using the LTX- 5 Footswitch. To do this, step on the MODE BUTTON to activate PRESETS mode, indicated by the MODE LED illuminating in blue and the active preset number and name appearing in the DISPLAY.

When the LTX-5 Footswitch is in PRESETS mode, presets become available in consecutive banks containing groups of four presets, with each one assigned to FUNCTION BUTTONS A, B, C and D. Move up through subsequent banks of four presets by simultaneously stepping on FUNCTION BUTTONS C and D; move down through preceding bank of four presets by simultaneously stepping on FUNCTION BUTTONS A and B. The bank number and preset numbers appear in the DISPLAY (*see images on following page*):



When the bank containing the desired preset is reached, select the desired preset in that bank by stepping on its corresponding FUNCTION BUTTON (A, B, C or D). When the desired preset has been selected, its corresponding blue FUNCTION LED will illuminate, and the DISPLAY will show the preset in use. If the active preset includes a delay effect, the MODE LED will flash at the tempo of that delay:

FOOTSWITCH: EFFECTS MODE

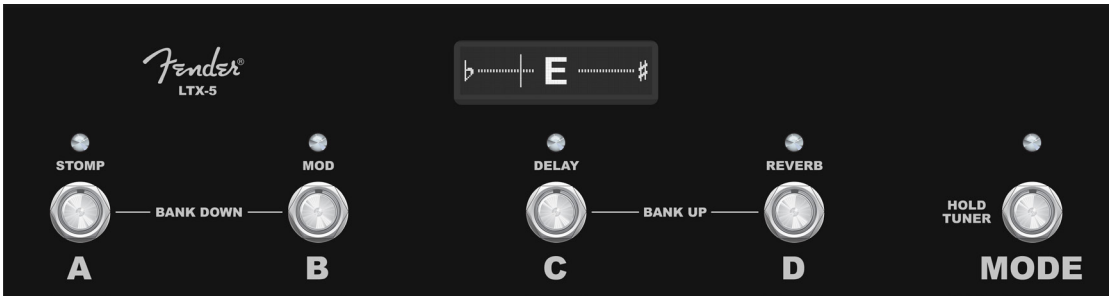
In any preset, LTX-5 Footswitch EFFECTS mode lets the user turn effects on and off. To do this, step on the MODE BUTTON to activate EFFECTS mode, indicated by the MODE LED illuminating in red and EFFECTS MODE appearing in the DISPLAY.

Any effects in the active preset are then assigned to the footswitch FUNCTION BUTTONS labeled STOMP, MOD, DELAY and REVERB. When an effect is on, the LED above its assigned FUNCTION BUTTON will illuminate red. To bypass an effect, step on its corresponding FUNCTION BUTTON; the effect and its red LED will then deactivate. To turn the effect back on, step on its FUNCTION BUTTON again.

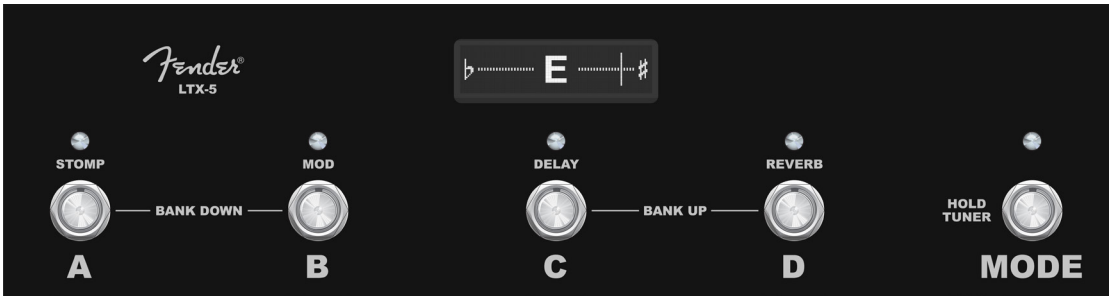
FOOTSWITCH: TUNER

The LTX-5 Footswitch also provides hands-free tuning. To do this, step on and briefly hold the MODE BUTTON to activate the chromatic tuner. If a signal from an instrument is present, the pitch letter closest to the signal will appear in the DISPLAY.

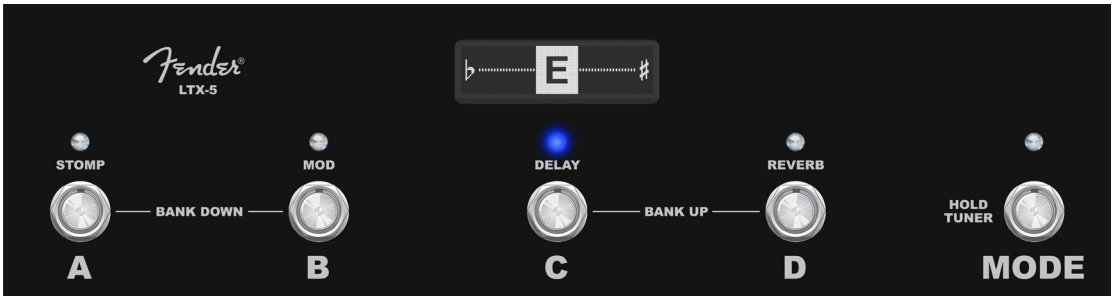
Tuner mode uses the DISPLAY and FUNCTION BUTTON C. When the target pitch is achieved, the center LED above FUNCTION BUTTON C illuminates blue and the target pitch in the DISPLAY turns to a black letter in a white box (see example below). When tuning is complete, step on any button to exit tuner mode. Note that LTX-5 Footswitch tuner use mutes speaker output.



FLAT



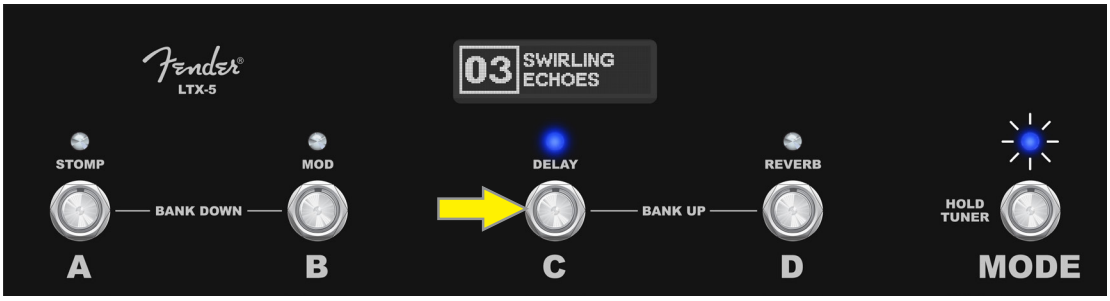
SHARP



IN TUNE

FOOTSWITCH: TAP TEMPO

Press the active preset footswitch twice or more to set a tempo (in BPM) for a delay effect. The MODE LED will briefly flash the new tempo.



FIRMWARE UPDATES

When available, firmware updates for Mustang LTX50/100 require use of the Fender Device Manager updater application, downloadable at www.fender.com/mustang_ltx. The installer will guide the update process using the following steps:

1. With Mustang LTX50/100 off, connect a USB cable to the rear-panel USB-C jack and connect the other end to a Mac or PC.

2. While pressing and holding the rear-panel FIRMWARE UPDATE button, power up Mustang LTX50/100; the red FIRMWARE UPDATE LED will start blinking. Release the FIRMWARE UPDATE button, start the updater application and follow the onscreen instructions. The FIRMWARE UPDATE LED will continue to blink while an update is in progress.

3. When a successful update is complete, the FIRMWARE UPDATE LED will turn off automatically and the updater app will indicate success (or failure, in which case the FIRMWARE UPDATE LED will illuminate in solid red). In the event of update failure, repeat firmware update steps.

4. After an update is completed, disconnect the USB cable and restart Mustang LTX50/100.

SPECIFICATIONS

MUSTANG LTX50

TYPE	PR 6270	
POWER REQUIREMENTS	140 watts	
POWER OUTPUT	50 watts (8Ω) 1% THD	Output power: Full
INPUT IMPEDANCE	1MΩ, 2.7Vrms max (instrument)	5kΩ per channel, 1.2Vrms max (aux)
HEADPHONES OUTPUT	140 mW per channel (32Ω)	70 mW per channel (16Ω min. recommended impedance)
EFFECTS SEND/RETURN	+10dBV max level in/out	Send impedance: 300Ω balanced
	-10dBV nominal level in/out	Return impedance: 10kΩ balanced
XLR LINE OUT	+24dBu (max level) +4dBu (nom level)	Impedance: 600Ω balanced
SPEAKER	One 12" Celestion® G12P-80 (8Ω)	
FOOTSWITCH	LTX-5 five-button (optional PN 0994073000)	
DIMENSIONS AND WEIGHT	Width: 19" (48.26 cm) Height: 16.75" (42.5 cm) Depth: 9" (22.86 cm) Weight: 22 lbs. (9.98 kg)	

MUSTANG LTX100

TYPE	PR 6271	
POWER REQUIREMENTS	250 watts	
POWER OUTPUT	100 watts (4Ω) 1% THD	Output power: Full
INPUT IMPEDANCE	1MΩ, 2.7Vrms max (instrument)	5kΩ per channel, 1.2Vrms max (aux)
HEADPHONES OUTPUT	140 mW per channel (32Ω)	70 mW per channel (16Ω min. recommended impedance)
EFFECTS SEND/RETURN	+10dBV max level in/out	Send impedance: 300Ω balanced
	-10dBV nominal level in/out	Return impedance: 10kΩ balanced
XLR LINE OUT	+24dBu (max level) +4dBu (nom level)	Impedance: 600Ω balanced
SPEAKER	One 12" Celestion® G12FSD-100 (4Ω)	
FOOTSWITCH	LTX-5 five-button (optional PN 0994073000)	
DIMENSIONS AND WEIGHT	Width: 21" (53.34 cm) Height: 17.5" (44.45 cm) Depth: 9.5" (24.13 cm) Weight: 23.5 lbs. (10.43 kg)	

Product specifications subject to change without notice.

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

MUSTANG LTX50	MUSTANG LTX100
2311700000 (120V, 60Hz) NA	2311800000 (120V, 60Hz) NA
2311701000 (110V, 60Hz) TW	2311801000 (110V, 60Hz) TW
2311703000 (240V, 50Hz) AU	2311803000 (240V, 50Hz) AU
2311704000 (230V, 50Hz) UK	2311804000 (230V, 50Hz) UK
2311705000 (220V, 50Hz) ARG	2311805000 (220V, 50Hz) ARG
2311706000 (230V, 50Hz) EU	2311806000 (230V, 50Hz) EU
2311707000 (100V, 50/60Hz) JP	2311807000 (100V, 50/60Hz) JP
2311708000 (220V, 50Hz) CN	2311808000 (220V, 50Hz) CN
2311709000 (220V, 60Hz) ROK	2311809000 (220V, 60Hz) ROK
2311713000 (240V, 50Hz) MA	2311813000 (240V, 50Hz) MA
2311714000 (120V, 60Hz) MX	2311814000 (120V, 60Hz) MX
2311715000 (120V, 60Hz) BRA	2311815000 (120V, 60Hz) BRA

Manual translations available at www.fender.com/Support

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	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.
311 CESSNA CIRCLE
CORONA, CALIF. 92878 U.S.A.

FENDER (EDC) B.V.
Transpolispark, Siriusdreef 17-27, Hoofddorp, 2132 WT
contactemea@fender.com

AMPLIFICADOR DE AUDIO
IMPORTADO POR: Fender Ventas de México, S. de R.L. de C.V.
Calle Huerta #279, Int. A. Col. El Naranjo. C.P. 22785. Ensenada, Baja California, México.
RFC: FVM-140508-CI0
Servicio al Cliente: 01(800) 7887395, 01(800) 7887396, 01(800) 7889433

Fender® and Mustang™ are trademarks of FMIC.
Other trademarks are property of their respective owners.
Copyright © 2025 FMIC. All rights reserved.

PN 70-42000477 REV. A ENGLISH