MUSTANG™ MICRO

OWNER'S MANUAL

INTRODUCTION

This manual is a guide to the features and functions of Mustang Micro—a plug-and-play headphone amplifier and interface that connects directly to your guitar and bass to deliver amp models, effects models, Bluetooth capability and more. With fantastic Fender Mustang amplifier sound and yet no larger than a deck of cards, Mustang Micro is easily portable and provides up to six hours of battery-operated playing time.

Mustang Micro is simple and intuitive. Connect it to any popular instrument model using the 1/4" rotating input plug. Choose an amp. Choose an effect and effect parameter setting. Set volume and tone controls. Turn Bluetooth on and stream music to play along with, or practice to online instruction with synced audio and video. Mustang Micro delivers it all straight to your earbuds, headphones or digital recording software.

FEATURES

A. **ROTATING INPUT PLUG**: Standard 1/4" plug rotates up to 270 degrees for easy compatibility with all popular guitar models.

B. **MASTER VOLUME:** Thumbwheel control adjusts instrument and overall output level to headphones/earbuds or recording software (*page 6*).

C. **AMP BUTTONS/LED:** Buttons (-/+) select amplifier from 12 models (*page 4*). LED color indicates amp model in use.

D. **EQ BUTTONS/LED:** Buttons (-/+) adjust tone (*page 6*); selections include flat setting, two progressively darker settings and two progressively brighter settings. EQ control is post-amplifier. LED color indicates EQ setting in use.

E. **EFFECTS BUTTONS/LED:** Buttons (-/+) select effect (or effects combination) from 12 different options (*page 5*). LED color indicates effect model in use.

F. **MODIFY EFFECTS BUTTONS/LED:** Buttons (-/+) control one particular parameter of the selected effect (*page 6*). LED color indicates parameter setting in use.

G. **POWER/BLUETOOTH SWITCH/LED:** Three-position slider switch turns Mustang Micro on and off and activates Bluetooth (*pages 3, 7*). LED indicates power/Bluetooth/charging status.

H. **HEADPHONE OUTPUT:** Stereo headphone jack.

I. **USB-C JACK:** For charging, recording output and firmware updates (*pages 7-8*).

CONNECTING TO A GUITAR AND POWERING UP

Connecting Mustang Micro™ to your guitar couldn't be easier—simply rotate the 1/4" INPUT PLUG (A) out from the unit and plug it into the guitar's input jack (*see image at right*).

Slide the POWER SWITCH (G) to the center "on" position (*see image at lower right*). POWER LED will illuminate green for 10 seconds and then extinguish, indicating that Mustang Micro is on and charged (different LED colors indicate different charging status; see "Charging", page 7). You're now ready to choose an amp, choose an effect and effect parameter setting, adjust volume and EQ, engage Bluetooth if so desired, and start playing.

If power is on but no instrument input is detected for 15 minutes, Mustang Micro will automatically switch to a low-power "sleep mode". Press any button to wake up from sleep mode.

⚠️ **WARNING:** Connecting Mustang Micro to your instrument, disconnecting it or touching the end of the device's plug may cause a loud noise. To avoid hearing damage when wearing heaphones/ear buds, follow these steps to ensure safe operation of your device:

- When connecting/disconnecting Mustang Micro, remove headphones/earbuds, ensure that the device is turned off, or ensure that the device's VOLUME control is set to zero.

- Turn the device ON with VOLUME set to zero, then gradually adjust VOLUME to reach a comfortable listening level.

When wearing headphones/earbuds, connecting/disconnecting Mustang Micro or touching its exposed plug while unit is on and MASTER VOLUME is up is similar to plugging an instrument cable into a live amplifier with volume up or to touching the exposed end of a live instrument cable.

SELECTING AN AMPLIFIER MODEL

Mustang Micro has 12 different amplifier models to choose among, encompassing "clean," "crunch", "high-gain" and "direct" types. To choose an amp model, press the AMP -/+ buttons (C) on the side of the unit. AMP LED color indicates amp model in use; LED will illuminate for 10 seconds and then extinguish until any button is pressed.

Amplifier types, models and LED colors are:

AMP TYPE	LED COLOR	AMP NAME	AMP DESCRIPTION
CLEAN	White	'65 Twin + Compressor	Based on the 1965 Fender Twin Reverb®—an indispensable mid-'60s clean-tone favorite—with a low compression setting.
	Red	'65 Deluxe	Highly popular mid-'60s Fender with great tone, cranked in countless clubs.
	Green	'57 Twin	Based on a 1957 Twin—an original-era 2x12" Fender tweed classic prized for clean-to-dirty versatility.
	Blue	'60s British	Inspired by the Vox AC30, which powered the British Invasion and produced remarkable clean and dirty tone.
CRUNCH	Yellow	'65 Deluxe + Greenbox OD	Same as the '65 Deluxe above, with Greenbox overdrive based on the Ibanez TS808 Tube Screamer.
	Magenta	'70s British	Inspired by a late-'60s/early-'70s Marshall Super Lead, the amp that powered the dawn of hard rock.
	Turquoise	'90s American	Based on the Mesa Dual Rectifier, which featured distinctive distortion that shaped the "nu-metal" sound.
HIGH-GAIN	Orange	BB15 HighGain	Based on the high-gain structure setting of the Fender Bassbreaker 15.
	Raspberry	FBE-100	Inspired by the BE channel of the Friedman BE-100.
	Spring Green	Metal 2000	Modern high-gain scorch based on the EVH® 5150III.
	Violet	Uber	Ideal for heavy, aggressive music; inspired by the super-high-gain lead channel of the Bogner Uberschall head.
DIRECT	Cyan	Studio Preamp	Direct-to-mixing-desk studio-preamp purity with clean, uncolored-tonal response. Ideal for bass guitars and acoustic instruments.

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SELECTING AN EFFECTS MODEL

Mustang Micro has 12 different effects models to choose among (including combined effects). To choose an effect, use the EFFECTS -/+ buttons (E) on the side of the unit. EFFECTS LED color indicates effect model in use; LED will illuminate for 10 seconds and then extinguish until any button is pressed.

Effects models and LED colors are:

LED COLOR	EFFECT NAME	EFFECT DESCRIPTION
White	Large Hall Reverb	Simulates the kind of bright reverb often heard in halls the size of movie theaters.
Red	'65 Spring Reverb	Fender reverb effect built into classic mid-'60s Fender amps.
Green	Modulated Large Hall Reverb	Strong, bright reverb simulating the size of a major performance hall, with lush modulation added to internal reverb structure.
Blue	Sine Chorus/Large Room Reverb	Smoothly rounded chorus that uses sine-wave modulation, combined with warm-sounding reverb of larger rooms such as nightclubs.
Yellow	Triangle Flanger/Large Room Reverb	Distinctive flanging effect that uses triangle-wave modulation, combined with warm-sounding reverb of larger rooms such as nightclubs.
Magenta	Vintage Tremolo/Spring Reverb	Classic Fender "stuttering" photoresistor tremolo, combined with classic early-to-mid-1960s spring reverb.
Turquoise	Vibratone/Large Room Reverb	Classic late-'60s/early-'70s Fender rotating speaker baffle effect, combined with warm-sounding reverb of larger rooms such as nightclubs.
Orange	Harmonic Tremolo/Large Room Reverb	Based on distinctive tremolo of certain early-'60s Fender amps, combined with warm-sounding reverb of larger rooms such as nightclubs.
Raspberry	Slapback Delay/Large Room Reverb	Classic slapback delay combined with warm-sounding reverb of larger rooms such as nightclubs.
Spring Green	Tape Delay/Small Room Reverb	Based on a classic analog tape echo unit with imperfections that created distinctive "wow" and "flutter", combined with warmer, less echo-y reverb typical of smaller spaces and classic echo chambers.
Violet	Sine Chorus/Mono Delay/ Large Hall Reverb	Smoothly rounded chorus that uses sine-wave modulation, combined with clean, simple delay and strong, bright-sounding reverb of large halls.
Cyan	2290 Delay/Large Room Reverb	Inspired by the 1980s TC Electronic TC 2290 digital delay—prized for its crisp repeats and versatile panning/modulation options—combined with warm-sounding reverb of larger rooms such as nightclubs.

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MODIFY EFFECTS SETTINGS

For each Mustang Micro effects model, six different settings of one particular effect parameter can be chosen using the MODIFY -/+ buttons (F) on the side of the unit. Five of these consist of a middle default setting, two progressively weaker settings (- and --) and two progressively stronger settings (+ and ++). MODIFY LED color indicates effect parameter setting in use; LED will illuminate for 10 seconds and then extinguish until any button is pressed.

To achieve an amp-only sound with no effect present, a MODIFY effect-bypass setting is available (---).

Effects models and the parameters affected for each effect model are in the below left table. MODIFY button effect parameter settings and their LED colors are in the below right table:

EFFECT NAME	PARAMETER AFFECTED
Hall Reverb	Reverb level
'65 Spring Reverb	Reverb level
Modulated Large Hall	Reverb level
Sine Chorus/Large Room	Chorus depth
Triangle Flanger/Large Room	Flanger depth
Vintage Tremolo/Spring Reverb	Tremolo rate
Vibratone/Large Room	Vibratone rotor speed
Harmonic Tremolo/Large Hall	Tremolo rate
Slapback/Large Room	Delay level
Tape Delay/Small Room Reverb	Delay level
Sine Chorus/Mono Delay/Large Hall	Delay level
2290 Delay/Large Room	Delay time

MODIFY EFFECT PARAMETER SETTING	LED COLOR
- - - (BYPASS)	Violet
- -	Blue
-	Green
DEFAULT	White
+	Yellow
+ +	Red

SETTING MASTER VOLUME AND EQ CONTROLS

Once amplifier and effects models are chosen, overall volume and EQ are easily adjusted. For overall volume level, simply turn the MASTER VOLUME wheel (B) to preference (*image at right*). Note that MASTER VOLUME controls instrument and overall volume only; the mix between an instrument and a Bluetooth audio source is determined using the volume control on the external Bluetooth device.

To adjust overall (EQ), five different settings can be chosen using the -/+ EQ buttons (D) on the side of the unit (*image below*). These consist of a flat middle default setting, two progressively darker settings (- and --) and two progressively brighter settings (+ and ++). EQ control affects signal after an amplifier and effect are chosen. EQ LED color indicates EQ setting in use (*table below*); LED will illuminate for 10 seconds and then extinguish until any button is pressed.

MASTER VOLUME

TONE	EQ SETTING	LED COLOR
Darker	- -	Blue
Dark	-	Green
Flat	Middle (default)	White
Bright	+	Yellow
Brighter	+ +	Red

BLUETOOTH

Mustang Micro easily streams Bluetooth audio, so you can play along in your headphones or earbuds. The device is discoverable as "Mustang Micro" on smart phones and other Bluetooth devices.

To activate Bluetooth pairing mode, push the POWER SWITCH (G) to the left, where the Bluetooth symbol is, and hold it there for two seconds. The POWER SWITCH Bluetooth position is spring-loaded for momentary contact only, and will return to the center "ON" position when button is released. In pairing mode, the POWER SWITCH LED will flash blue for two minutes or until a connection is established.

On successful connection, the LED will turn solid blue for 10 seconds and then extinguish.

To disconnect a Bluetooth device from Mustang Micro, hold the POWER SWITCH in the Bluetooth position for two seconds and then release it (as when pairing). This will end the Bluetooth connection and return Mustang Micro to pairing mode with a flashing blue LED; pairing mode will expire within two minutes if no other Bluetooth connection is made, and the blue LED will extinguish. Alternately, disconnect using the external device.

Mustang Micro automatically pairs with the last connected Bluetooth device if that device is available. Note that MASTER VOLUME (B) controls instrument and overall volume only; the mix between an instrument and a Bluetooth audio source is determined using the volume control on the external Bluetooth device.

CHARGING

Mustang Micro provides up to six hours of battery-powered operation. Recharge Mustang Micro using the USB-C jack (H) on the bottom of the unit and the included USB cable.

POWER SWITCH (G) LED color indicates charging status:

POWER SWITCH LED COLOR	BATTERY STATUS
Yellow (Solid)	USB is connected and unit is charging whether power is on or off.
Green (Solid)	Power is on, USB is connected and battery is fully charged.
Green (Flashing)	Battery is at greater than 50 percent and USB is not connected. LED flashes green for one second every five seconds.
Yellow (Flashing)	Battery is at 20 percent-50 percent and USB is not connected. LED flashes yellow for one second every five seconds.
Red (Flashing)	Battery is at less than 20 percent and USB is not connected. LED flashes red for one second every five seconds.
Red (Flashing rapidly)	LED flashing red rapidly while unit is on and USB is plugged in indicates a battery charge error possibly due to extremes of temperature. Unplug USB, turn unit off, allow unit to reach room temperature, restart unit.

RECORDING

Mustang Micro can be used as an input device for digital recording software by using a USB cable to connect the USB-C jack (H) on the bottom of the unit to the USB port on the user's Mac or PC.

Note that Mustang Micro can only be used as a source for USB audio (which cannot be routed back to Mustang Micro for monitoring).
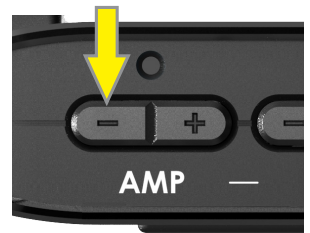
No external driver is needed to connect to an Apple computer. For assistance with configuring and using USB recording, visit the "Connected Amps" section at https://support.fender.com.

FIRMWARE UPDATE

Updating firmware on Mustang Micro requires use of the Fender Mustang Micro Updater application, which can be downloaded at **www.fender.com/mmfirmware** when updates are made available. The installer will guide the update process using the three steps below:

1. With Mustang Micro *off*, connect a USB cable to its USB-C jack and connect the other end to a Mac or PC.

2. Press and hold the AMP "-" button (C).

3. Turn Mustang Micro on while continuing to hold the AMP "-" button for three seconds.

Successful initiation of firmware update mode is then indicated by a solid white POWER SWITCH LED (G) for 10 seconds; the white LED will then begin flashing to indicate an update in process.

When a firmware update is complete, the POWER SWITCH LED will illuminate solid green to indicate a successful update; the LED will illuminate solid red to indicate a failed update. Mustang Micro is automatically powered up during the firmware update process; when an update is completed successfully, disconnect the USB cable from Mustang Micro and restart the unit.

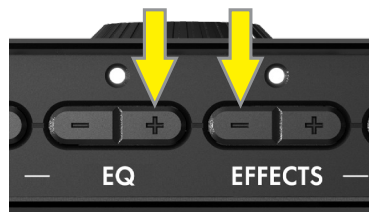|		
FIRMWARE UPDATE INITIATED (SOLID) IN PROCESS (FLASHING)	FIRMWARE UPDATE SUCCESSFUL (SOLID)	FIRMWARE UPDATE FAILED (SOLID)

FACTORY RESET

A Mustang Micro factory reset can be performed that resets all buttons (AMP, EQ, EFFECTS, MODIFY) to their original factory values and clears the Bluetooth paired device list.

Initiate factory reset mode by turning Mustang Micro on while simultaneously holding the EQ "+" (D) and EFFECTS "-" (E) buttons for three seconds. The LEDs above the EQ and EFFECTS buttons will illuminate white after factory reset (as will the LEDs above the AMP and MODIFY buttons not shown below).

SPECIFICATIONS

C E

TYPE	PR 5833
INPUT	1/4" plug
INPUT IMPEDANCE	1MΩ
OUTPUT	1/8" stereo
OUTPUT POWER	30mW/channel
HEADPHONE IMPEDANCE WORKING RANGE	Greater than 16Ω
BATTERY TYPE	Lithium-ion rechargeable
USB CURRENT	600 mA (max)
BATTERY LIFE	4 hours (high volume) Up to 6 hours (low volume)
BLUETOOTH	V5.0 with A2DP v1.3.1 protocol
DIMENSIONS (INPUT PLUG IN STORED POSITION)	Width: 1.5" (3.81 cm) Height: 3.15" (8 cm) Depth: 1.13" (2.87 cm)
WEIGHT	1.8 oz. (51g)

Product specifications subject to change without notice.

Mustang Micro

2311300000 US, CAN, EU, AU, JP
2311314000 MEX, CN

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。

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