



# Owner's manual

## MOD FORCE

Modulation Stomp Pedal

[www.nuxefx.com](http://www.nuxefx.com)



FORCE SERIES

Thank you for selecting the **nux** FORCE SERIES modeling stomp pedal! With many years of research we're proud to give you great guitar tones for your greatest music experience!

Please take the time to read this manual carefully to get the most out of the unit. We recommend that you keep the manual at hand for future reference.

This is an effects pedal for the guitarist who wants to color their guitar sound with unlimited sound shaping possibilities. With twelve fashion effects including the nice tape flanger, 8-stage phaser and spacious u-vibe, Mod Force gives you all the modulation effects you'll ever need. With its Dual Engine design, Mod Force allows you to combine Chorus, Flanger, Phaser, Tremolo and Vibrato effects in series and parallel, sync the tempo between them and TAP the tempo by a individual switch button.

## FEATURES

- 12 Modulation effects
- Dual Engine with series/parallel switchable
- True stereo signal processing
- Kill dry function
- Up to 9 storable user presets plus manual mode
- Individual TAP tempo function
- Easy switching between manual and presets
- Large color TFT LCD panel(128x128), graphic interface making the overall operation easy and intuitive
- New generation 32-bit DSP, high performance 24-bit 44.1kHz AD/DA convert
- Input/output Sensing circuit select optimized routing automatically
- Buffered or true bypass
- Runs on batteries and AC adaptor.

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### **Accuracy**

*Whilst every effort has been made to ensure the accuracy and content of this manual, Cherub Technology Co. makes no representations or warranties regarding the contents.*

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**WARNING!-IMPORTANT SAFETY INSTRUCTIONS  
BEFORE CONNECTING, READ INSTRUCTIONS**

**WARNING:** To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

**CAUTION:** To reduce the risk of fire or electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel.

**CAUTION:** This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.

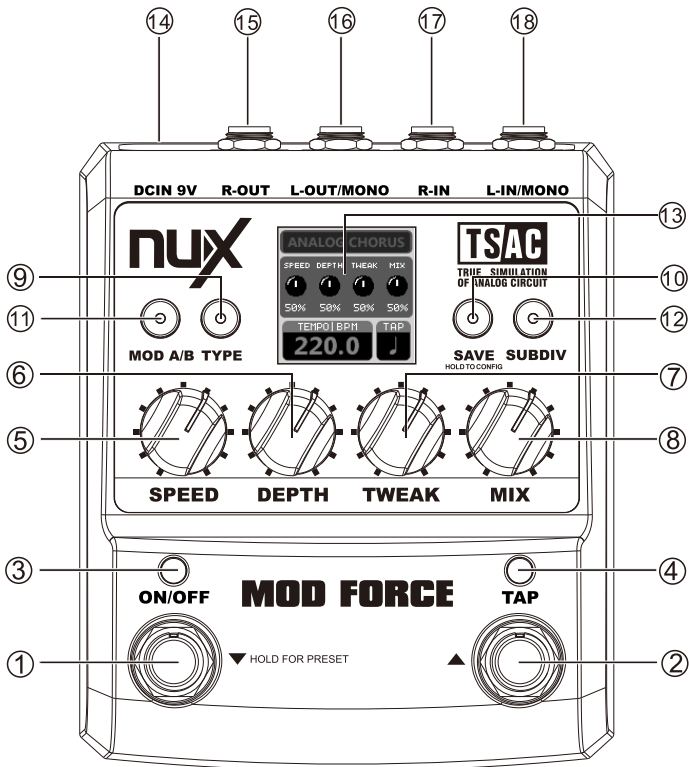


The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

1. Use only the supplied power supply or power cord. If you are not sure of the type of power available, consult your dealer or local power company.
2. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
3. Guard against objects or liquids entering the enclosure.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
5. Refer all servicing to qualified service personnel.  
Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
6. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and at the point where they exit from the apparatus.
8. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening".

*Follow all instructions and heed all warnings*  
**KEEP THESE INSTRUCTIONS!**

# FRONT VIEW



### **1.ON/OFF Switch**

This footswitch is used to turn effect on/off in manual and preset mode. To switch between two modes, press and hold this footswitch for more than 2 seconds.

### **2.TAP (Preset) Switch**

In manual mode, tap this switch rhythmically to enter the global tempo. In preset mode, you can step through presets by pressing this switch repeatedly.

### **3.ON/OFF LED**

This LED indicates the status for ON/OFF of effect.

### **4.TAP LED**

This LED indicates the status for global tempo of the pedal.

### **5.SPEED Knob**

This knob controls the speed of each model. Note: In MOD B, if you turn this knob to minimal, LK will be showed, and SUB DIV cs the speed of effect engines A and B. Tapping the temp on the TAP foot switch will sync both Engines to this tapped tempo.

### **6.DEPTH Knob**

This knob controls the depth of each model.

### **7.TWEAK Knob**

With this knob, adjust the kinds of function depends on the models you selected.

### **8.MIX Knob**

Use this knob to control the mix between the dry signal and the effect sound.

### **9.TYPE Button**

Press the TYPE button to alternate between twelve modulation models.

### **10.SAVE Button**

Press this button to activate the save function. The LCD display will be switched to SAVE interface. See Preset Saving/Recall function below.

### **11.MOD A/B Button**

Press this button to alternate between MOD A and MOD B for operating of each effect parameter. The LED in the button indicates whether you are in the MOD B effect. You can switch off the MOD B by selecting it to MOD OFF, when you just want to use one modulation effect. When switch on the MOD B to any of effect you can serial or parallel two-modulation effect.

### **12.SUB DIV Button**

Press this button to set the subdivisions of the global tempo used for all effects. The options from whole note to 1/16 triplets.

### **13.LCD display**

Mod Force has a dot matrix LCD for parameter or preset number displaying.

### **14.POWER IN**

Mod Force requires 9V DC/300 mA with center negative. Use the power supply with identical specifications.

### **15.OUT-A Jack**

Connect Mod Force OUT-A to the guitar amp's input.

### **16.OUT-B Jack**

Connect Mod Force OUT-B to the guitar amp's input.

### **17.R-INPUT Jack**

If stereo signal used, connect stereo device to L and R INPUT.

### **18.L-INPUT Jack**

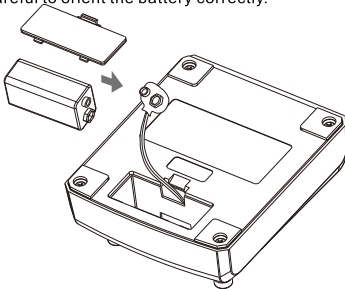
Connect your guitar to Mod Force's L-INPUT jack

## INSTALLING BATTERIES

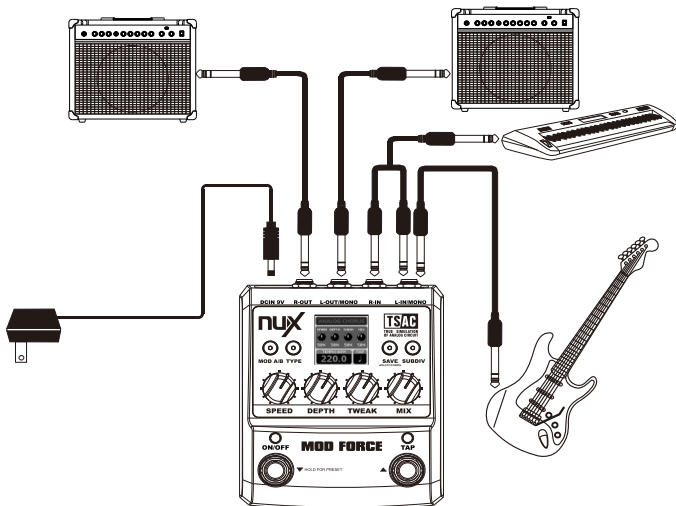
A 9V battery is supplied with the unit. The life of the battery may be limited, however, since its primary purpose is to enable testing.

Insert the battery as shown in the figure, being careful to orient the battery correctly.

1. Remove the old battery from the battery housing, and remove the snap cord connected to it.
2. Connect the snap cord to the new battery, and place the battery inside the battery housing.
3. When the battery runs down, the sound gets distorted. If this happens, replace with new battery.
4. Battery life can vary depending on battery type.
5. The power comes on when you plug into the INPUT jack.
6. The use of an AC adaptor is recommended as the unit's power consumption is relatively high.



## CONNECTIONS



## Power ON/OFF

When running the unit on battery power, inserting a plug into the INPUT will automatically switch the unit on.

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

Once the connections have been completed, turn on power to your various device in the order specified. By turning on device in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

When powering up: Turn on the power to your guitar amp last.

When powering down: Turn off the power to your guitar amp first.

## TWEAK YOUR TONE & FORGET IT

### ● Manual mode

When your first apply power to the Mod Force, it powers up in manual mode provides access to all parameters of effect.

When you are in manual mode, the LCD displays the current effect model's name and control knob. You can modify all the parameters, select models and save settings to a preset.

Use four knobs to modify the parameter of current effect, press the TYPE button to choose the effect model you want to use in MOD A or B. press the MOD A/B to choose the current effect you can operating.

Press SUB DIV button to set the subdivisions of the global tempo used for all effects. The options from whole note to 1/16 triplets.

### ● Preset mode

Press and hold the footswitch of left side for 2 second, switch from manual to preset mode, or return to manual from preset mode.

In preset mode, pressing the footswitch of right side will increment the preset number one by one, when preset number approach end of preset, it back to the start of preset. In default, the preset number is P1-P9, but you can change the preset range from four modes: P1-P3, P4-P6, P7-P9 and P1-P9. This convenient feature makes it easier to recall different presets in different situation.

In preset mode, you can press TYPE button for displaying and adjusting the parameter of current effect occasionally, after 2 seconds the preset number will be back.

### ● Preset Saving/Recall function

Pressing SAVE button. you may save your settings to any of the 9 preset locations P1-P9. The following steps outline the procedure for saving changes to a preset.

1. Select the User preset location where you new sound will reside using footswitches or MOD A/B and TYPE buttons.
2. Press SAVE to save the changes.
3. If you don't want to save any changes, press the SUB DIV button to exit the SAVE procedure.

## BREAK THE SHELL

### CONFIGURATION

Press and hold SAVE for 2 seconds to enter CONFIGURATION. The bottom of the LCD displays the four buttons (MOD A/B, TYPE, SAVE and EQ) you will use to navigate the table.

While in CONFIGURATION you can adjust the following:

SETTING	MODE	DESCRIPTION
KILL DRY	ON/OFF	Turn on/off dry signal
ROUTING	SER/PAR	SER: serial mode PAR: parallel mode
P.(PRESET) RANGES	1-3 4-6 7-9 1-9	Set the range of presets. For example, if you choose 1-3, you can change your preset in 1-3 but no others. This takes planning. Until you have your "show" set up, choose 1-9. It might take extra time scrolling through all 9, but if your start up is P1-3 and you want what's in 4...
POWER ON	MAN/ PRE	Set the start mode in manual or preset when powering on the unit.
BYPASS	TRUE/FET	TRUE: True bypass. FET: Buffered bypass.

In CONFIGURATION, four buttons have different functions:

- MOD A/B button scrolls down the list (KILL DRY, ROUTING, etc.)
- TYPE button is used for selecting option of left side.
- SAVE button is pretty powerful. You use it to get into the CONFIGURATION screen and to get out when you are done. Oh, you can save your settings, too.
- SUB DIV button is used for selecting option of right side.



**NOTICE:** TRUE BYPASS has better Signal to Noise Ratio and FET bypass can better protect from unwanted disturbances. If the effect is on the first part of the effect chain, you can choose FET BYPASS; if the effect is in the middle of the effect chain, you can choose TRUE BYPASS. Certainly, the final choice depends on your ears.

### KILL DRY

With the switch in ON position, no clean signal passes through the MOD FORCE. This is the setting to use if you connect the unit in a parallel loop or e.g. in an aux send/return on a mix.

### ROUTING

There are two routings to choose between: Serial and Parallel.

#### Serial Routing

With this routing the signal is first routed through the effect A and then through the effect B.

#### Parallel Routing

This routing gives you the opportunity of having two effects in parallel.



## Setting P. RANGE

Press EQ to scroll through the range choices of your Presets: P1-3, P4-6, P7-9 or P1-P9. Choose wisely as you cannot easily change this setting during a performance, that is (See Setting POWER ON). For example, if the preset you want is not in the range you set, you have to get back to the CONFIGURATION screen and change either the Preset Range or the POWER ON setting to MAN (manual).

## Setting POWER ON

Press MOD A/B until POWER ON lights yellow. Press TYPE or SUB DIV to switch between MAN or PRE. MAN allows you to use the pedal like you just took it out of the box. PRE accesses your PRESETS. If you select PRE, make sure you have access to the range you need (See Setting P. RANGE). If the preset you want is not in the range you set, you have to get back to the CONFIGURATION screen and change either the Preset Range or the POWER ON setting to MAN (manual).

## Setting BYPASS

Press MOD A/B until you reach BYPASS. Select the type of BYPASS you need. If you are using many pedals in a chain, you may want to set the first few pedals to FET (Buffered) Bypass. If you are using the MOD Force alone, or why a couple other pedals, you may want to use TRUE. Rely on your ears to tell you if the sound is degraded by one setting and sounds better with the other.

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## RESTORING THE FACTORY SETTINGS

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**NOTE:** *If you do this, saved presets will be completely erased, and will be reset to the factory settings.*

**NOTE:** *Effect made in the Manual mode will also be erased.*

**NOTE:** *Never turn off the power while initialization is taking place.*

*Here's how you can restore the factory settings.*

- 1. Turn the power off.*
  - 2. While holding down SAVE, insert a plug into the INPUT to turn the power on. The restore screen appears. Press ON/OFF to restore the factory settings or TAP to exit without restoring anything.*
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## CRAZY LITTLE THING CALLED VINTAGE

12 modulation models Mod Force modeled

### 1. CHORUS

A chorus adds a short delay to your signal. The delayed signal is modulated in and out of tune and then mixed back with the original signal to create a thicker sound.

### 2. TRI CHORUS

Tri Chorus uses three stereo Choruses with various offsets for phase to produce a very broad and lush Chorus sound.

### 3. FLANGER

A flanger uses the same principle as a chorus but uses a shorter delay time and adds regeneration (or repeats) to the modulating delay. This results in an exaggerated up and down sweeping motion to the effect.

### 4. TAPE FLG

This models emulates the original way of creating a flange effect, with two identical pieces of audio material being played back simultaneously on two tape decks and then being mixed on a third deck. The flanging effect was achieved by slowing down and speeding up the two decks at different times.

### 5. PHASER

A phaser splits the incoming signal into two paths: one path changes the phase of the original signal, the other is the original signal. The continuously out of phase signal is then mixed back in with the original signal. As the phasing changes, different frequencies get canceled resulting in a sort of swirling sound.

### 6. BI PHASER

This model is a variation of the regular Phaser that use 8 stages module instead of 4 stages of regular Phaser. It has typically more accent compared to a regular Phaser.

### 7. TREMOLO

A Tremolo is basically a change of the signal level controlled by an LFO.

### 8. ST TREM

A stereo tremolo is basically a change of the stereo signal level controlled by an LFO.

### 9. VIBRATO

The vibrato effect modulates the pitch of the incoming signal. The result is similar to the vibrato technique used by vocalists. In contrast to a chorus or Flanger effect, no direct signal is combined with the pitch-modulated signal.

### 10. AUTO WAH

The wah effect occurs when a relatively narrow frequency range is boosted and swept through a frequency range. The sweep is controlled by a low frequency oscillator (LFO).

### 11. ROTARY SPK

The rotary speaker emulates a device that includes a spinning horn and woofer. The rotation of these two speakers produces an interesting combination of the sound panning from side to side. This produces a slight pitch change due to the speed of the sound coming towards, and then going away from the listener.

### 12. UNI VIB

This resembles a phaser effect, it also provides a unique undulation that you can't get with a regular phaser.

## SPECIFICATIONS

●Effect types:	12 modeling modulation models
●Presets:	Up to 9 storable user presets plus manual mode
●Sampling Frequency:	44.1 kHz
●A/D converter:	24-bit
●Signal Processing:	32-bit
●Frequency response:	20Hz-20000Hz $\pm$ 1dB
●THD+N:	93dBu (<0.003%) A-Weighting
●Dynamic Range:	100dB
●INPUT:	-20dBV@1Mohm
●OUTPUT:	-10dBV (Output load impedance of 10k or more)
●Display:	128x128 TFT
●Power:	9V DC (9V Battery, ACD-008A Adapter)
●Dimensions:	125(L) x 108(W) x 57(H)mm
●Weight:	390g

## PRECAUTIONS

- Environment:
  1. Do NOT use the tuner in high temperature, or high humidity, or subzero environments.
  2. Do NOT use the tuner in the direct sunlight.
- Please do NOT disassemble the tuner by yourself.
- Please keep this manual for future reference.

## ACCESSORIES

- Owner's manual
- 9V battery

## **THE FCC REGULATION WARNING (for U.S.A.)**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **CE mark for European Harmonized Standards**

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/ EC on Electromagnetic Compatibility.