Owner's manual

DRIVE FORCE

Modeling Drive & Distortion Stomp Pedal

www.nuxefx.com

NEW EFFECTS

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.

With ten models including booster, tube overdrive, and distortion, DRIVE FORCE gives you all pedal sounds you'll ever need. With its Dual Engine and A/B output, Drive force allows you to mix two-drive sounds together and pan it to two outputs. A switchable noise gate, and 12 cabinet models can be applied to any of the models.

FEATURES

- 10 classic modeling stomp box models with true simulation of analog circuit (TS/AC) technology.
- Dual Engine with A/B channel output.
- 3-band EQ with mid frequency sweep.
- Selectable 12 Cabinet simulator.
- Built-in Noise Gate .
- Up to 9 storable user presets plus manual mode.
- Extra 6 dB boost with individual stomp switch.
- 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.

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.

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.

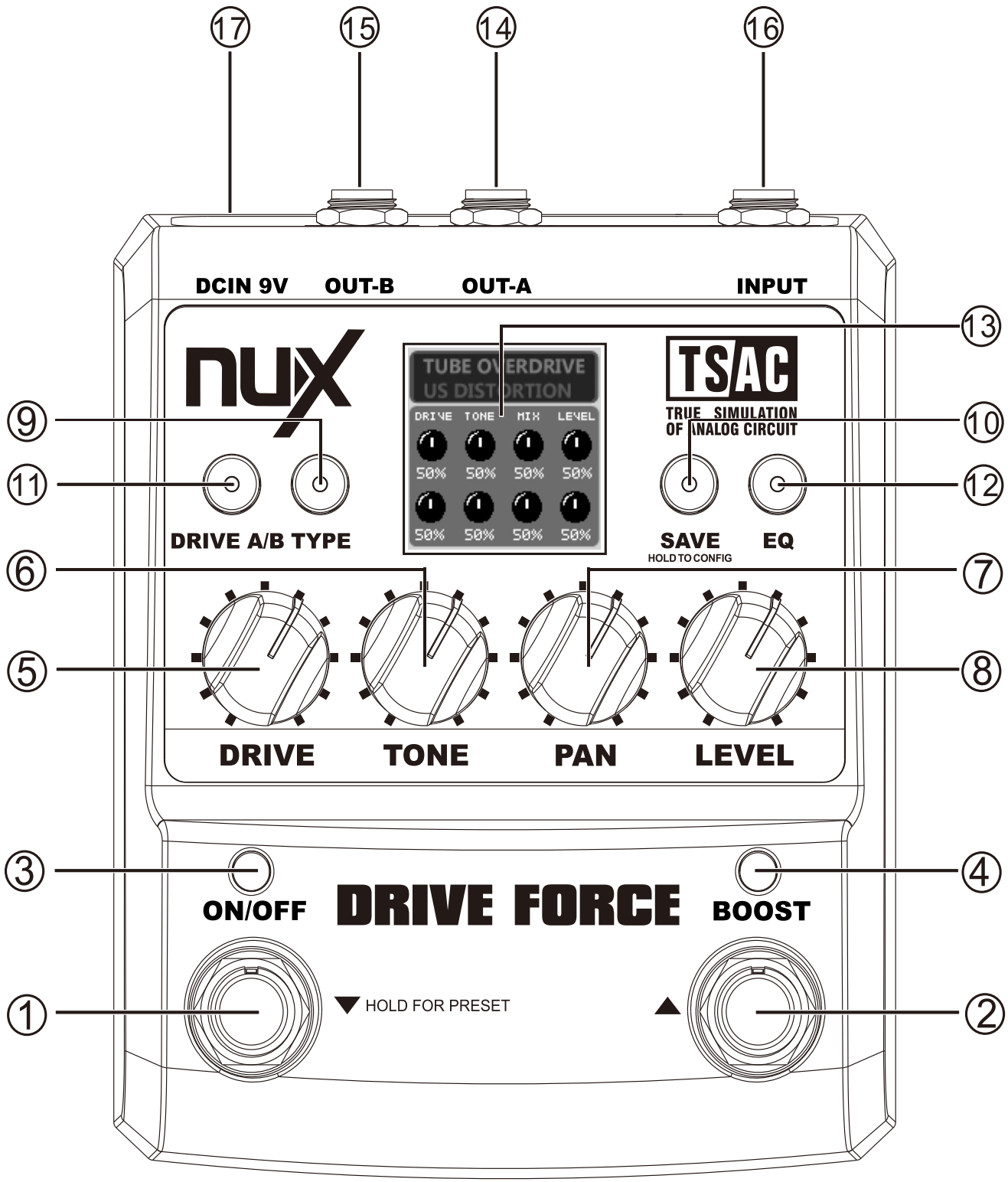
The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

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


⑰
⑮
⑭
⑯
DCIN 9V
OUT-B
OUT-A
INPUT
⑬
TUBE OVERDRIVE
US DISTORTION
DRIVE TONE MIX LEVEL
50% 50% 50% 50%
50% 50% 50% 50%
TSAC
TRUE SIMULATION
OF ANALOG CIRCUIT
⑨
⑩
⑪
⑫
DRIVE A/B TYPE
SAVE
HOLD TO CONFIG
EQ
⑥
⑦
⑤
⑧
DRIVE
TONE
PAN
LEVEL
③
④
ON/OFF
DRIVE FORCE
BOOST
①
HOLD FOR PRESET
②

1.ON/OFF Switch

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

2.BOOST (Preset) Switch

In manual mode, press this footswitch to boost the signal level 6dB (double the volume). In preset mode, it increments the presets。

3.ON/OFF LED

Indicates the status of the effect.

4.BOOST LED

Indicates the status of boost.

5.DRIVE

Controls the amount of overdrive or distortion of each model. When in the EQ section, this knob controls the bass.

6.TONE

Shapes the tone of the effect. Turn the TONE knob clockwise for a brighter sound. When in the EQ section, this knob controls the midrange frequency level.

7.PAN

Sets a balance between OUT A and OUT B. Turn the PAN knob to the left, the signal of effect will be send to the OUT-B otherwise it will be send to the OUT-A. With dual engine of the unit, you can set a mix between the signals of Drive A and Drive B. When set correctly, this will sound as if you played over both amps simultaneously. Note: if only one output used, this knob is unavailable.

In the EQ section, this knob controls the midrange frequencies.

8.LEVEL

Controls the output level of the effect. When in the EQ section, this knob controls the high frequency level.

9.TYPE

Press TYPE to scroll through and select from the ten effect models.

10.SAVE

Press save to activate the save function. The display will switch to the SAVE interface. See Preset Saving/Recall function below.

11.DRIVE A/B

Press Drive A/B to alternate between DRIVE A and B to select of each effect . The LED in the button indicates you are in the DRIVE B effect.

12.EQ

Drive Force has extra Bass/High tone controls and semi-parametric middle frequency control. You can control the bass, mid and high frequencies separately.

13.LCD display

Drive Force has a dot matrix LCD that displays parameters or the preset number.

14.OUT-A Jack

Connect Drive Force OUT-A to a guitar amp's input.

15.OUT-B Jack

Connect Drive Force OUT-B to a guitar amp's input.

16.INPUT Jack

Connect your guitar to Drive Force's INPUT

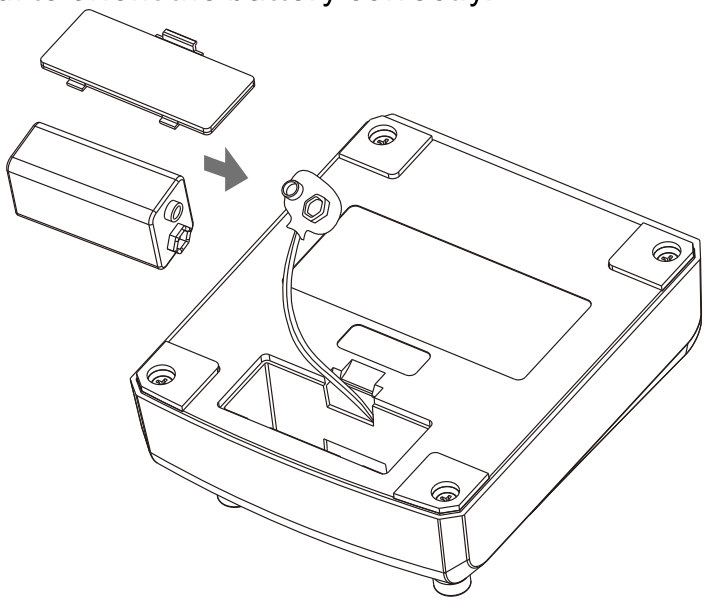
17.POWER IN

Drive Force requires 9V DC/300 mA with center negative. Use the power supply with identical specifications(ACD-007A).

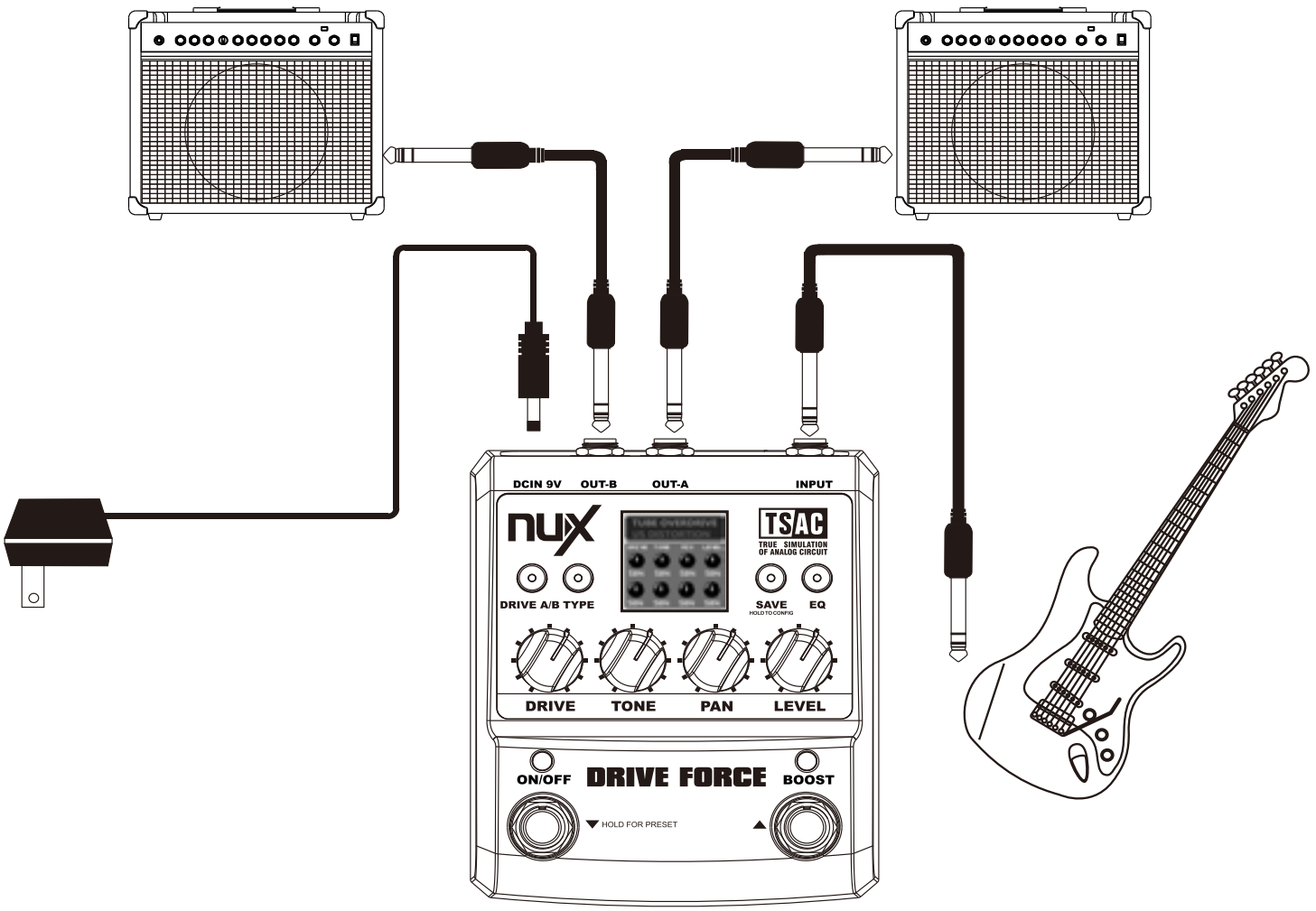
INSTALLING BATTERIES

A 9V Battery is supplied with the unit. The life of battery may be limited, however, since its primary purpose was to enable testing.
Insert the battery as shown in 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 run down, the sound of unit 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 insert a 1/4 in 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 devices in the order specified. By turning on devices 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 Drive Force, it powers up in manual mode providing access to all effects parameters.
  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 the four knobs to modify the parameters of the current effect. Press TYPE to choose the effect model you want to use in DRIVE A or B. Press DRIVE A/B to choose the current effect.
  Press EQ to adjust 3-band EQ parameters. Press EQ again return to the effects display.

- **Preset mode**

  Press and hold the left footswitch for 2 seconds to switch from manual to preset mode, or return to manual from preset mode.
  In preset mode, pressing the right footswitch will increment the preset numbers one by one. Preset mode when the preset numbers reach the end of the presets, it goes back to the first preset. The default preset range is P1-P9, but you can select from four preset ranges: P1-P3, P4-P6, P7-P9, P1-P9. This convenient feature makes it easier to recall different presets in different situations.
  In preset mode, press TYPE to display and adjust the parameters of the current effect. The preset number will display after 2 seconds.

- **Preset Saving/Recall function**

  Pressing SAVE will 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 the footswitches or DRIVE A/B and TYPE.
  2. Press SAVE to save the changes.
  3. If you don't want to save any changes, press the EQ 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 DRIVE A/B, TYPE, SAVE and EQ you will use to navigate the table.

While in CONFIGURATION you can adjust the following:

SETTING	MODE	DESCRIPTION
NOISE GATE	ON/OFF	Turn on/off noise gate and set levels
CABINET	ON/OFF	Turn on/off cabinet simulation
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	Setting the start mode to manual or preset when powering on the unit.
BYPASS	TRUE/FET	TRUE: True bypass. FET: Buffered bypass.

In CONFIGURATION, four buttons have different functions:

- DRIVE A/B scrolls down the list (Noise Gate, Cabinet, etc.)
- TYPE is used for selecting options on the left side.
- SAVE 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.
- EQ is used for selecting options. In Noise Gate and Cabinet options, it is also used for entering the next setting interface.

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.

NOISE GATE

Select Noise Gate in the CONFIGURATION screen. Press EQ to turn it ON and to enter the screen to adjust the Noise Gate parameters. You can set noise gate parameter separately for each channel, DRIVE and TONE control the noise gate parameter of DRIVE A. PAN and LEVEL control the noise gate parameter of DRIVE B:

- THRE (THRESHOLD) Controls the threshold of the gate. The threshold parameter determines the volume below which the signal will be attenuated. When the signal drops below the THR, the gate kicks in.

- DAMP (DAMPING) Controls how much of the signal should be reduced when it goes below the threshold (THR) point. The idea is to get rid of noise, not create a new effect; so be careful to adjust DAMP so that it does its job smoothly and without a "pumping" sound.

Press SAVE to exit NOISE GATE.

CABINET SETTING

Press EQ to open the list of cabinets. Use DRIVE A/B to scroll down the list, or EQ to move to the right column. Once highlighted, press SAVE to save and return to the CONFIGURATION screen.

MODE	SPEAKER MODEL
JAZZ 2*2	Based on 2x12"Roland®JC-120
BLACK 112	Based on 1x12" Fender® Deluxe Reverb
TWEED 112	Based on 1x12" Fender® Tweed Deluxe
BSMAN 410	Based on 4x10" Fender® 59' Bassman®
TWIN 212	Based on 2x12" Fender® Twin Reverb
BLUE 212	Based on 2x12" VOX® AC30TB
MATCH 112	Based on 1x12" MATCHLESS 30W
GREEN 4*12	Based on 4x12" Celestion® 25W
V30 4*12	Based on 4x12" Celestion® Vintage 30's
T75 4*12	Based on 4x12" Celestion® G12-T75
RECT 4*12	Based on 4x12" MESA BOOGIE® Slant
CALI 1*12	Based on 1x12" MESA BOOGIE® Mark IV

Press SAVE to exit CABINET

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 CONFIRGURATION screen and change either the Preset Range or the POWER ON setting to MAN (manual).

SETTING POWER ON

Press DRIVE A/B until POWER ON lights yellow. Press TYPE or EQ 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 CONFIRGURATION screen and change either the Preset Range or the POWER ON setting to MAN (manual).

SETTING BYPASS

Press DRIVE 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 Drive Force alone, or with 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.

RESTORING THE FACTORY SETTINGS

NOTE: *If you do this, saved presets will be completely erased, and will be reset to the factory settings.*
NOTE: *Effect and noise reduction settings 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 BOOST to exit without restoring anything.*

CRAZY LITTLE THING CALLED VINTAGE

10 models Drive Force modeled

1.BOOSTER

Increases signal gain to make the sound more powerful. Drive Force's booster providing 20dB of volume boost. It also provide a little warmer overdrive when turn it up.

2.TUBE DRIVE

This is modeling from a famous handcrafted Tube Drive guitar pedal used by many profession musicians. It generates overdrive from effects smooth light to heavy.

3.VINTAGE OD

This model reproduces the classic tone of a punchy overdrive effect. This effect model is great for boosting your tube amp.

4.SCREAMER

A model of a classic overdrive stomp effect, famous for delivering a warm and natural overdrive sound. It is ideal for boosting your amp to screaming.

5.DISTORTION

The most versatile distortion. From subtle crunch to complete roar.

6.MODERN DST

Based on very high gain distortion boxes. This pedal has been a classic ever since its release in the early 80's.

7.METAL AGE

A classic metal distortion effect from the 1980's. Outstanding Midrange, high frequency like a chainsaw and growling low frequency, all mesh to make those metal heads a howling beast.

8.NEW METAL

The new metal effect from the 1990's. Midrange envelopes the sound. More extreme high frequency compensation provides a perfect, tidy sound full of a digital music vibe.

9.MUFF PI

Traditional transistor circuitry has many kinds of distortion effects., Fat low frequency character creates a tone reminiscent of GRUNGE rock music.

10.FUZZ FACE

Who are you calling Fuzz Face? FUZZ goes all the way back to the 60's. No distortion can replace it in creating a sound which has a greater historical significance in rock and roll.

SPECIFICATIONS

●Effect types:	10 modeling stomp box 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 ±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.