



DX-112/212 Digital Guitar Amplifier CFFTE



Welcome. Please, Read This:

We at Crate extend our sincere "welcome" into a whole new world: a world where the legendary performance of a musician-made Crate amplifier combines with the wonders of digital amp modeling and effects. We bring you the only amplifier you'll ever need: the Crate DX-112 / DX-212. The heart and soul of sixteen different amplifiers have been captured through the miracles of digital software engineering and placed into the DX amplifier. Not only does the amp sound like the originals, it performs like the originals, with the same tones and character of all your favorites - from vintage British grit to today's heavy metal with a wide variety in between.

Along with digital amp modeling comes sixteen digital effects, all designed to rock your world from here to Sunday. And, you can tweak each effect to your heart's content!

Got your own favorite effects? Not to worry – the DX amps have stereo line in and line out jacks for use as a stereo effects loop, or for connecting to an external stereo power amp. It's like having your cake and eating it, too - with extra icing!

The DX amplifier is programmable and can be controlled in a number of ways, including through the front panel keypad, with the optional Crate Foot Controller, or via MIDI.

> Within the pages of this Operating Guide you will find all sorts of pertinent, useful and sometimes technical information which we at Crate felt you ought to have. Please indulge us a bit and take the time to actually read through this Guide at some point. Until then, for those of you who just can't wait to plug in and go, we offer you:

Quick Start: Plug In and Go! (page 1)

There you'll find just enough information to get you started. If you run into any situation that isn't covered in the Quick Start section, you might have to – guitar gods forbid – read this guide first.

We at Crate thank you for choosing the DX-112/212 Digital Guitar Amplifier!

Important Safeguards and Precautions

All Crate products are designed for continuous safe operation, as long as common sense is used and steps are taken to help avoid certain problems. Abiding by the following rules can help prevent damage to your amplifier, yourself and others.

- The amplifier is equipped with a three-pronged AC power cord. To reduce the risk of electrical shock, NEVER remove or otherwise attempt to defeat the ground pin of the power cord.
- Connect the amplifier ONLY to a properly grounded AC outlet of the proper voltage for your preamp.
- Avoid sudden temperature extremes, rain and moisture. Also, avoid sudden and intense impact. (If the
 amplifier has been subjected to any of the preceding abuses, have it looked at by an authorized service center.)
- Unplug the amplifier before cleaning it. NEVER spray liquid cleaners onto the preamp. Wipe it with a slightly dampened, lint-free cloth to remove dirt and film.
- Don't use the amplifier if it has sustained damage to the chassis, controls, or power cord. Refer the
 unit to an authorized service center for inspection.
- NOTE: Amplifiers capable of producing high volume levels are also capable of inflicting permanent
 hearing loss or damage, if the exposure to such levels is prolonged. Such damage is progressive and
 irreversible! Caution is advised and ear protection is recommended when playing at extremely loud levels.

The chart below shows the U.S. Government Occupational Safety and Health Administration (OSHA) regulations which were in effect at the time of this publication for permissible noise exposure, per 29CRF1910, Table G-16.

| SOUND LEVEL dBA | DURATION PER DAY | SOUND LEVEL dBA | DURATION PER DAY |
|-----------------------------|-----------------------|--------------------------|----------------------------------|
| SLOW RESPONSE | IN HOURS | SLOW RESPONSE | IN HOURS |
| 90 92 95 97 100 | 8 6 4 3 2 | 102 105 110 115 | 1-1/2 1 1/2 1/4 or less |

According to OSHA, any exposure in excess of those listed above could result in some hearing loss.







THIS EQUIPMENT HAS BEEN DESIGNED AND ENGINEERED TO PROVIDE SAFE AND RELIABLE OPERATION. IN ORDER TO PROLONG THE LIFE OF THE UNIT AND PREVENT ACCIDENTAL DAMAGES OR INJURY, PLEASE FOLLOW THESE PRECAUTIONARY GUIDELINES:

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN CHASSIS; DO NOT DEFEAT OR REMOVE THE GROUND PIN OF THE POWER CORD; CONNECT ONLY TO A PROPERTY GROUNDED AC POWER OUTLET.

CAUTION: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.

EXPLANATION OF GRAPHICAL SYMBOLS:



"DANGEROUS VOLTAGE"
"DANGER HAUTE TENSION"
"GEFAHLICHE SPANNUNG"



"IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL" "REFERREZ-VOUS AU MANUAL D'UTILISATION" "UNBEDINOT IN DER BEDIENUNGSANLEITUNG NACHSCHLAGEN"

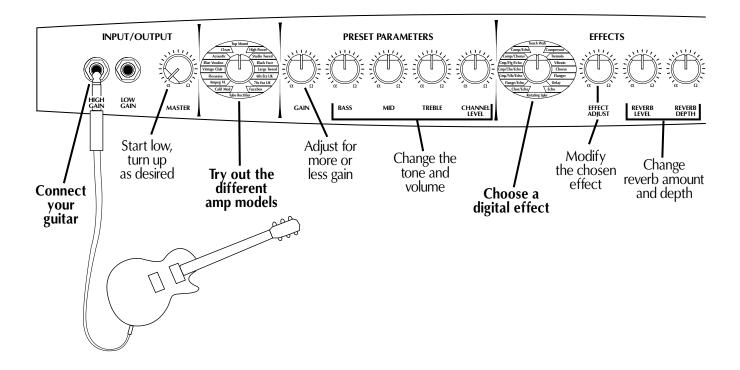
DX-112/212 Digital Guitar Amplifier CRATE

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| Quick Start: Plug In and Go!Making Sound.1A Look at the Front Panel Controls.3A Look at the Rear Panel.5 |
|--|
| Making the Right ConnectionsThe Input Jacks.7The Stereo Line In and Line Out Jacks.7Using a MIDI Footswitch.9Using the Crate Foot Controller.9The MIDI Out/Thru Jack.9The Stereo Headphones Jack.9 |
| The Amp ModelsDescriptions of the Models |
| The Digital EffectsDescriptions of the Effects.15Effects Selection and Adjustment.17 |
| The KeypadRecalling The Presets19Saving New Presets19The Tap Button20The Manual ("MAN") Button20Restoring Factory Default Presets20 |
| Playing Favorites Factory Presets 1–10 |
| AppendicesA. Designer's Note: Amplifier Modeling.43Block Diagrams.44B. MIDI Implementation Chart.45C. Specifications.46 |

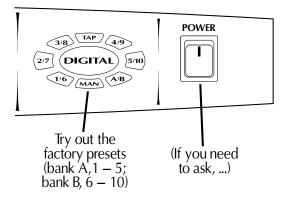
Quick Start: Plug In and Go!

Making Sound:



DX-112/212 Digital Guitar Amplifier CFRTE



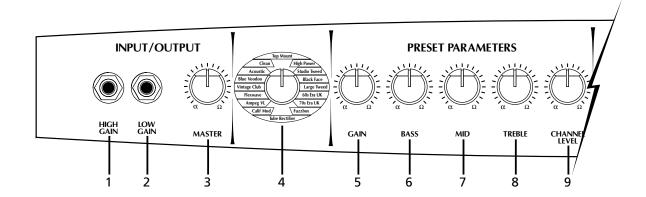


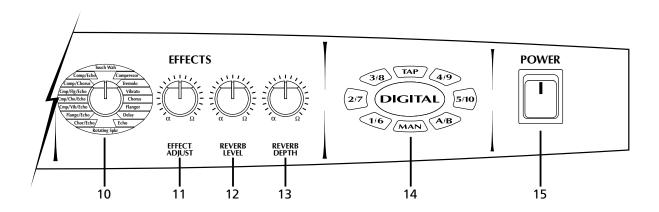
Making Sound:

- You may want to start out with the Master control turned down low, since this amp can get LOUD.
- · Connect your guitar, plug in the amp and turn it on.
- Select the manual mode by pressing the MAN button on the keypad.
- Adjust the Gain control to get the amount of gain you want.
- Try out the amp models by turning the Amp Selector knob.
- Use the Bass, Mid, Treble and Channel Level controls to change the tone and volume. The EQ settings will vary depending on the amp model you choose.
- Choose a digital effect by turning the Effects Selector knob.
- Modify the chosen effect by turning the Effect Adjust control.
- · Adjust the reverb by turning the Reverb Level and Depth controls.
- Try out the factory presets by pressing the numbered buttons and the A/B button on the Keypad.
 - •When first turned on, the A/B button is not lit, and the numbered buttons recall presets 1-5 (bank A). When you press the A/B button it lights up, and the numbered buttons recall presets 6-10 (bank B).

Quick Start: Plug In and Go!

A Look at the Front Panel Controls:





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The Front Panel:

- 1, 2. Inputs: Use High Gain for standard pickups, Low Gain for "hot" pickups and/or on-board active electronics.
- 3. Master: Sets the overall output level. The Master volume is the only non-programmable setting on the amplifier.
- 4. Amp Selector: Chooses the desired amp model.
- **5. Gain:** Adjusts the input gain.
- 6, 7, 8. Bass, Mid, Treble: Adjusts the signal tone.
- 9. Channel Level: Sets the output level of the current preset.
- 10. Effects Selector: Chooses the effect applied to the signal.
- 11. Effects Adjust: Changes one or more parameter of the current effect.
- 12. Reverb Level: Sets the amount of reverberation applied to the signal.
- 13. Reverb Depth: Changes the depth and high-frequency damping of reverberation, from a very small room (fully counter-clockwise) to a very large hall (fully clockwise).
- 14. Keypad: Recalls and saves presets, using the numbered buttons and the A/B button.
- 15. Power: Up is on!

Refer to Section / Page:

"The Input Jacks" – page 7,8

"Descriptions of the Models" – page 11,12

"Equalization and Channel Level" - page 13,14

"Equalization and Channel Level" - page 13,14

"Equalization and Channel Level" - page 13

"Descriptions of the Effects" - page 15,16

"Effects Selection and Adjustment" – page 17,18

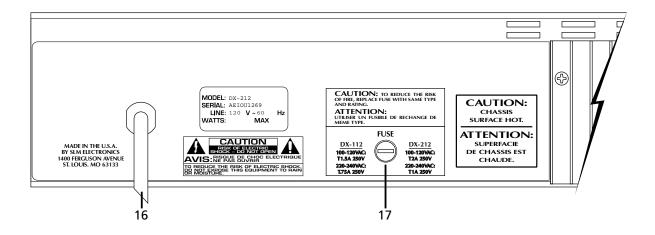
"Description of the Effects" – page 15,16

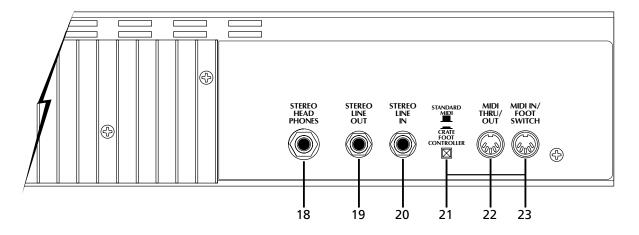
"The Keypad" - page 19,20

(These are the barest of the bare-bones descriptions - enough to get you started. Please check out the sections and pages noted for more information - this goes for the rear panel, too.)

Quick Start: Plug In and Go!

A Look at the Rear Panel:





DX-112/212 Digital Guitar Amplifier CFITE



The Rear Panel:

- **16**. **AC Line Cord:** Plug the male end of this cord into a properly grounded AC outlet of the correct voltage. DO NOT DEFEAT THE **GROUND PIN OF THE AC PLUG!**
- 17. Fuse: The fuse protects the amplifier against damages caused by overload conditions in the unit. If the fuse blows, replace it only with the same size and type as indicated on the rear panel.
- 18. Stereo Headphones: For those private moments, plug a pair of stereo headphones into this jack. The internal speaker(s) is (are) muted when headphones are used. (Can also be used for recording.)
- 19. Stereo Line Out: Connect this output to a stereo amplifier or effects unit.
- 20. Stereo Line In: Connect the output of an external effects unit here.
- 21. Standard MIDI/Crate Footswitch Controller: This switch lets you choose how you control your DX-112/212 - via MIDI or with the optional Crate Foot Controller.
- 22. MIDI Thru/Out: Connect to another MIDI device you wish to control with the foot controller.
- 23. MIDI In/Foot Switch: This jack either accepts a standard MIDI input or lets you use the Crate Foot Controller.

Refer to Section / Page:

"Stereo Headphones Jack" – page 9,10

"The Stereo Line In and Line Out Jacks" - page 7,8

"The Stereo Line In and Line Out Jacks" - page 7,8

"Using the Crate Foot Controller" - page 9,10

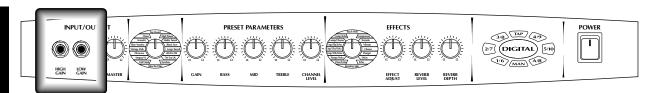
"The MIDI Thru/Out Jack" - page 9,10

"Using a MIDI Footswitch" - page 9,10

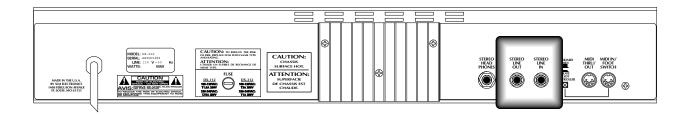
(That's all we're gonna give you for now! To learn a whole lot more, read the rest of this guide!)

Making the Right Connections

The Input Jacks:



The Stereo Line In and Line Out Jacks:





The Input Jacks:

The DX-112/212 has two input jacks - High Gain (straight) and Low Gain (padded) - to accommodate a wide range of pickups and playing styles. The jack you use depends on your type of pickups and the sounds you're after.

For example, most players will plug their guitars into the High Gain jack. These players include those with "normal output" pickups and some players with "hot" pickups who are looking for some added distortion.

Some players will choose the Low Gain jack. These players are mostly those with "hot"/active pickups who want a cleaner sound, with more headroom for the Gain control.

When nothing is plugged into either jack, the DX-112/212 mutes its internal speaker(s).

The Stereo Line Out/In Jacks:

The DX-112/212 has a Stereo Line In and Line Out jack (rear panel), for use as a stereo effects loop, or to send a preamplified signal to an external stereo power amp.

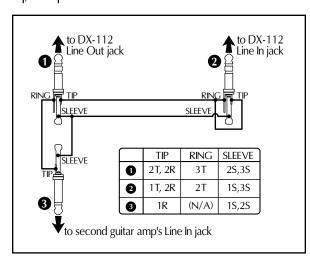
To use an effects loop, connect the Line Out jack to the input of the effects device, then connect the output of the device to the Line In jack.

To send a preamplified signal, connect a stereo signal cable from the Line Out jack to the input of the stereo power amplifier.

The jacks are wired as follows: TIP = left channel, RING = right channel, SLEEVE = ground.

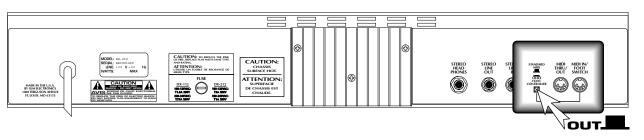
The Line Out jack signal is post master, post eq, and post effects.

•If you want to connect a DX-112 to another guitar amplifier for stereo sound, you'll need to make a custom patch cable like the one shown to the right. Use this cable to connect your DX-112 Line Out jack to the Line In jack of the second guitar amp AND the DX-112 Line In jack.

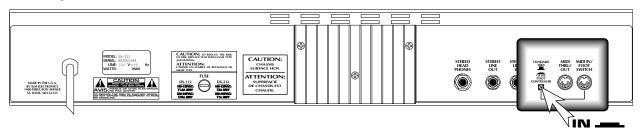


Making the Right Connections

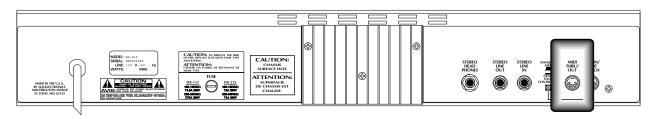
Using a MIDI Footswitch:



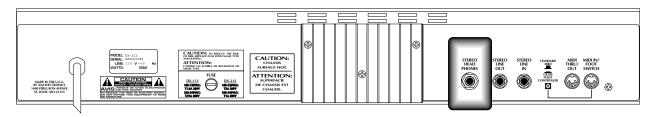
Using the Crate Foot Controller:



The MIDI Thru/Out Jack:



The Stereo Headphones Jack:



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Using a MIDI Footswitch:

You can store and recall a total of 100 presets when using a MIDI footswitch. These presets are accessed by MIDI program numbers 0 through 99. (Also, see the MIDI Implementation Chart, Appendix B, page 45.)

> WARNING: The MIDI In/Crate Foot Controller button must be in the OUT position for MIDI operation. (The IN position applies power to the Crate Foot Controller which could cause damage to another type of MIDI footswitch.)

Using the Crate Foot Controller:

The optional Crate Foot Controller (model DX-FC) lets you store and recall a total of 100 presets and allows foot control of the tap tempo function. The controller gets its power straight from the amplifier, so no external power source or batteries are needed!

Plug the connecting cable into the MIDI In/Foot Switch jack and set the MIDI In/Crate Foot Controller button to the IN (foot controller) position. This applies the power needed for the Crate Foot Controller.

(See the Foot Controller's User's Guide for more complete information-when you get one!)

The MIDI Thru/Out Jack:

The MIDI Out/Thru jack lets you control other MIDI devices with the Foot Controller. Connect this jack to the MIDI In jack of the device you wish to control.

The MIDI Thru works with either a standard MIDI input (footswitch) or with the Crate Foot Controller plugged into the MIDI In jack, since the Crate Foot Controller sends standard MIDI messages.

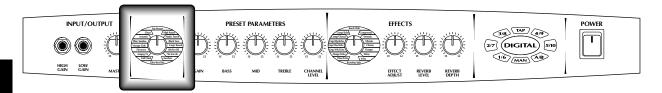
The Stereo Headphones Jack:

Plug a pair of stereo headphones into this jack, for private listening. The internal speaker(s) is (are) disconnected when headphones are used. The headphones signal is speaker compensated for a realistic sound even without a guitar speaker cabinet. Since this amp can play LOUD, be careful when using headphones – prolonged exposure to those high dB levels can wreak havoc on your eardrums!

The Headphones Jack can also be used as a stereo direct out for recording.

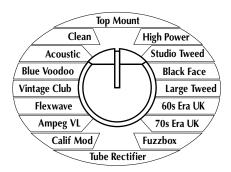
The Amp Models

Description of the Models:



The DX-112/212 is actually 16 different amplifiers in one! The software inside the amplifier convinces the signal that it's going through the electronic components of the original amplifier, giving it all of the characteristics of that amp! (More or less — it's really a lot more technical than that, but you get the picture. For a slightly more technical description, see Appendix A on page 43.)

Use the amp selector knob to choose which amp model you want. The chart on the following page lists the name we gave the amp model, the "make and model" of the amp we emulated, and a brief description of the original amp.



DX-112/212 Digital Guitar Amplifier TRATE

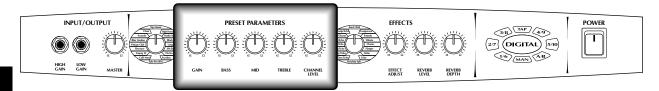
| Model Name | Modeled After the | Brief Description |
|----------------|------------------------------|--|
| Top Mount | Vox AC 30 | Bright with a great clean sound at low gain, distorts smoothly at high gain settings — an early 60's amp with lots of 2nd and 3rd order harmonics, favored by the Beatles for the rhythm and lead tracks in their early days |
| High Power | Hi Watt DR | An early 60's "upmarket" alternative to the popular Marshall amp $-$ louder and cleaner than most |
| Studio Tweed | Fender Deluxe 5E3 | The sound from which Rock 'n' Roll was born — Fender's early 50's claim to fame |
| Black Face | Fender Deluxe Reverb AA763 | The classic tube amp — one of the first amps with reverb, a mid- 60 's staple to the rock and roll diet (considered by some to be one of the best amps ever made) |
| Large Tweed | Fender Bassman 5F6-A | Originally designed for bass, favored by guitarists for its big sound – a late $50^{\circ}\mathrm{s}$ classic |
| 60s Era UK | Marshall 1959 | The renowned "brown sound" — a softer, smoother Marshall than the more modern creations |
| 70s Era UK | Marshall JCM 800 | The sound of ROCK! – loud and powerful with a definitive edge |
| Fuzzbox | Dallas-Arbiter Fuzz Face | Jimi would be proud – the classic stomp box distortion of his day |
| Tube Rectifier | Mesa-Boogie Dual Rectifier | Barre chord Heaven — the beginning of the modern high-gain amp era |
| Calif Mod | Mesa-Boogie Mark IIC+ | Tons of overdrive and sustain; the sound of Santana! – the hot-rodded powerhouse Simul-Class amplifier |
| Ampeg VL | Ampeg VL-501 | A hot-rodded Marshall-style amp $-$ powerful, lots of distortion and multiple gain stages $$ |
| Flexwave | Crate GX-140C | The massively overdriven, solid state Crate sound preferred by Metal-Heads everywhere – a solid-state competitor for most classic tube amps due to Crate's proprietary FlexWave circuitry |
| Vintage Club | Crate VC-60 | A unique combination of both modern high-gain and classic tube amps – bringing back the "vintage" sound of the early days of rock |
| Blue Voodoo | Crate BV-60 | Awesome modern high-gain tone – smooth, clean, and powerful |
| Acoustic | Boss AC-1 Acoustic Simulator | Makes your electric guitar sound like an acoustic |
| Clean | Crate GX-140C | Clean Jazz sound — just enough of a an edge to get your message across |

All-important, legal, "cover-our-rear-ends" blurb!

Vox, Hi Watt, Fender, Marshall, Dallas-Arbiter, Mesa-Boogie, Boss, and the names of their respective products are all trademarks of their respective companies, and have no affiliation with Crate and/or SLM Electronics, or with the DX-112/212 amplifier. These companies and their products are acknowledged herein because we listened to their stuff and modeled some of their sounds into our amplifier. Also, the above descriptions are paraphrased synopses of many of our own experiences with the amplifiers, along with information from the "The Tube Amp Book, 4th Edition."

The Amp Models

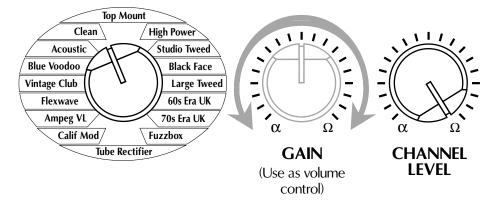
Equalization and Channel Level:



Each DX-112/212 amp model has its own specifications and placement in the signal chain for its Gain, Bass, Mid, and Treble. (In other words, the controls affect the signal the same in the amp model as they do on the original amplifier.)

Use the Preset Parameter controls (Gain, Bass, Mid, Treble, Channel Level) to change the gain, eq and volume of the selected amp model. The chart on the following page lists the model name and the specifications/placement for the Drive and EQ controls.

TIP! When using the Acoustic or Clean amp models, set the Channel Level to maximum and use the Gain control for your volume level.



DX-112/212 Digital Guitar Amplifier TRITE

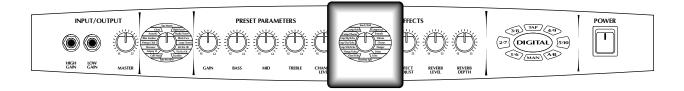


All-important, legal, "cover-our-rear-ends" blurb! Again!

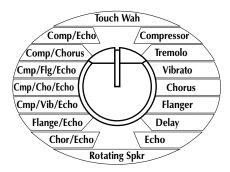
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The Digital Effects

Description of the Effects:



The DX-112/212 has 16 built-in digital effects, each with one or more adjustable parameters. The chart on the following page lists the name of the effect and gives a brief description.



NOTE: The DX-112/212 has built-in noise reduction to ensure a more quiet operation. This circuit is always active when the amp is on.

DX-112/212 Digital Guitar Amplifier CRATE



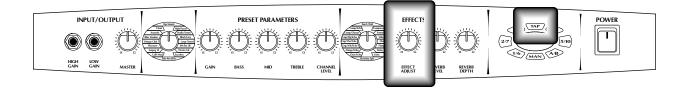
| Effect | Stereo? | Description |
|--|---------|--|
| Touch Wah | | Functions as an Auto-Wah (Touch Wah) or normal wah-wah when used with an expression pedal and the optional Crate Foot Controller |
| Compressor | | Limits the dynamic range of the signal – increases the apparent sustain of the signal (applied pre-amplifier model) |
| Tremolo | | Modulates the amplitude of the signal |
| Vibrato | | Modulates the pitch of the signal |
| Chorus | Yes | Thickens the original signal with slowly pitch-modulated and delayed versions of the original signal |
| Flanger | | Adds a slowly time-varying version of the original signal |
| Delay | | Adds a delayed version of the signal |
| Echo | | Adds a delayed signal with regeneration |
| Rotating Speaker | Yes | Reproduces the classic sound of a Leslie rotating speaker |
| Chorus/Echo | Yes | A combination of chorus and echo |
| Flange/Echo | | A combination of flange and echo |
| Compressor/Vibrato/Echo | | A combination of compressor (pre-amplifier model) and vibrato and echo (post-amplifier model) |
| Compressor/Chorus/Echo | Yes | A combination of compressor (pre-amplifier model) and chorus and echo (post-amplifier model) |
| Compressor/Flange/Echo | | A combination of compressor (pre-amplifier model) and flange and echo (post-amplifier model) |
| Compressor/Chorus | Yes | A combination of compressor (pre-amplifier model) and chorus (post-amplifier model) |
| Compressor/Echo | | A combination of compressor (pre-amplifier model) and echo (post-amplifier model) |
| Reverb Level and Depth (separate from the Effects Selector knob) | Yes | Reproduces the sound of a reverberant room |

Yet another important legal blurb!

Leslie is a registered trademark of Hammond Suzuki USA, Inc.

The Digital Effects

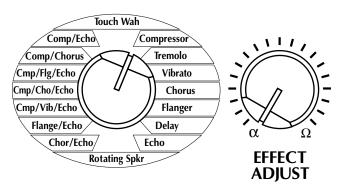
Effects Selection and Adjustment:



Each of the digital effects has one or more parameters you can change by using the Effects Adjust control. All of the effects (except the compressor and the Touch Wah) can also be changed by using the Tap function — either through the Keypad, or with the Crate Foot Controller. The chart on the following page lists the effects along with the parameter(s) affected by the Effects Adjust knob and the Tap button.

NOTE: On multi-effects, modulation speed and echo time are set simultaneously by the Tap button.

• To bypass effects, turn the Effect Adjust control fully counter-clockwise and select the Compressor effect. (Notice the chart on page 18: There is no compression with the Effect Adjust knob full counter-clockwise, therefore no effects are applied to the signal — thus, "effects bypass.")



DX-112/212 Digital Guitar Amplifier TRITE

| Effect | Effect Adjust knob controls: | Tap button controls: | See Note(s) |
|-------------------------|----------------------------------|--|-------------|
| Touch Wah | Sensitivity (Auto-Wah only) | | |
| Compressor | Ratio (See Below*) | | |
| Tremolo | Depth of Amplitude Modulation | Speed: 2 cycles/tap | |
| Vibrato | Depth of Pitch Modulation | Speed: 2 cycles/tap | |
| Chorus | Level of Chorused Signal | Speed: 1 cycles/tap | |
| Flanger | Max. Time Delay: 0-5ms | Speed: 1/4 cycle/tap | 1 |
| Delay | Level of Delayed Signal | Time: .033-1.12 sec | 2 |
| Echo | Regeneration | Time: .033-1.12 sec | 2 |
| Rotating Speaker | Depth of Amplitude/Pitch Mod'n | Speed: 2 cycles/tap | |
| Chorus/Echo | Chorus Level, Echo Regeneration | Chorus Speed: 1 cycle/tap, Echo Time: .033-1.12 sec | 2 |
| Flange/Echo | Echo Regeneration | Flange Speed: 1/4 cycle/tap, Echo Time: .033-1.12 sec | 1,2 |
| Compressor/Vibrato/Echo | Vibrato Depth, Echo Regeneration | Vibrato Speed: 2 cycles/tap, Echo Time: .033-1.12 sec | 2,3 |
| Compressor/Chorus/Echo | Chorus Level, Echo Regeneration | Chorus Speed: 1 cycle/tap, Echo Time: .033-1.12 sec | 2,3 |
| Compressor/Flange/Echo | Echo Regeneration | Flange Speed: 1/4 cycle/tap, Echo Time: .033-1.12 sec | 1,2,3 |
| Compressor/Chorus | Chorus Level | Chorus Speed: 1 cycle/tap | 2,3 |
| Compressor/Echo | Echo Regeneration | Echo Time: .033-1.12 sec | 2,3 |

Note 1: Mix fixed at 50%

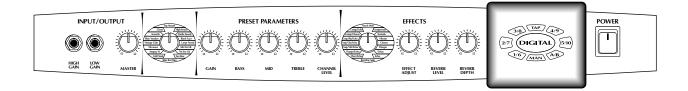
Note 2: Tap periods exceeding 1.12 seconds are automatically adjusted to an allowable echo/delay time that fits the current tempo

Note 3: Compression ratio fixed at 10:1

^{*} The table to the right shows how the Effect Adjust control changes the compression ratio when the Compressor ONLY is chosen.

| approx rotation of Effect Adjust control (%) | compression ratio |
|---|----------------------|
| 0 | 1:1 (no compression) |
| 30 | 2:1 |
| 40 | 3:1 |
| 50 | 4:1 |
| 60 | 6:1 |
| 70 | 10:1 |
| 80 | 20:1 |
| 90 | 100:1 |
| 100 | ∞:1 |

The Keypad



The DX-112/212's Keypad has many uses — aside from recalling presets (as mentioned in the QuickStart part of this guide):

Recalling the Presets:

There are ten presets accessible from the keypad, in two banks of five per bank: with the A/B button off (not lit), the numbered buttons to recall presets 1–5 (bank A); with the A/B button lit, the buttons recall presets 6–10 (bank B). Each preset stores its own set of parameters (amp selection, tones, level, effect, etc.). Once a preset is selected, turning a knob will change that knob's setting only – the other settings will electronically remain at their virtual positions until you change them.



"What's a virtual position?" (Good Question!) It's the setting that the amp remembers for each knob when a preset is stored. Example: Let's say the Gain control was at 10:00 when preset 1 was saved, then changed to the 3:00 position. The actual setting for the knob is 3:00. Recall preset 1 and even though the knob is physically pointing to 3:00, the amp acts as if the knob were set to the 10:00 position — because that's the virtual position for that knob in preset 1. (Got it?)

Saving New Presets:

Once you get a sound setting you want to keep, assigning it to a preset button is easy: press and hold the desired button (1-5, bank A; 6-10, bank B) until the keypad flashes (about 3 seconds). The settings are now stored at that preset location.

(NOTE: The charts on pages 23 through 42 give you a place to record the settings for your presets. Presets 1–10 are accessible through the keypad, presets 11–100 are accessible by use of the optional Crate Footswitch Controller)

DX-112/212 Digital Guitar Amplifier CFITE



The Tap Button:

The Tap button lets you match the delay time and modulation speeds of the effects (except for the compressor, which has no delay or modulation) to the tempo of the piece you're playing. Just tap your finger in time to the beat, on the Tap button of course, and the selected effect will change accordingly. The Tap button flashes in time with its tempo.

(NOTE: The chart on page 18 lists specifically what the Tap button controls for each effect setting.)

The Manual ("MAN") Button:

When you call up a preset, the preset remembers how the controls were set when the preset was stored (their virtual positions), and basically ignores their current settings. Pressing the Manual button makes the amp pay attention to the actual positions of the controls and applies their settings to the sound.

Another function of the Manual button:

• Restoring Factory Default Presets: To restore the presets to their original factory settings, press and hold the Manual button and button #5 until the keypad flashes (about 3 seconds). Then turn the amp off, wait five seconds, and turn it back on. The presets are now restored to the original factory settings.

> WARNING! Restoring the factory presets wipes out any and all changes you've made and any new presets you've stored, so use it carefully.

Other things you should know about the lit buttons:

- As soon as you change any of the controls (except for the Master volume), the preset button starts flashing. That's its way of saying "Hey! You've changed me!" A tap on the flashing button returns the preset to its original parameters - and makes the button stop flashing. Of course, you can save the changes, as described under "Saving New Presets" on the facing page.
- When you change banks, the preset button will go out as soon as you press the A/B button, but no other changes are made until another numbered button is pressed. In other words, although there is a visual change, the amp won't store the preset or switch to a different one (depending on how long you press the numbered button) until you want it to.

FACTORY PRESETS 1—5 - BANK A (A/B BUTTON NOT LIT)

These two pages show the first ten factory presets for your DX-112/212 amplifier. Use the numbered buttons and the A/B button on the keypad to access them. (The following pages provide you with charts for your favorite presets.)

| Preset #1 | We call it: _ | "Unplugged" | | TAP = $\frac{N/A}{}$ beats/minute |
|---|--|--|--|---|
| AMP MODEL: Clean Acoustic Blue Voodoo Vortage Club Flewawe Ampeg VL Calf Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | Comp. Cmp. Cmp. Cmp. Cmp. Cmp. Cmp. Cmp. C | omp/Echo Touch Wah Compressor pp/Flg/Echo Tremolo Py/Cho/Echo Vibrato pp/Vhj/Echo Chorus ange/Echo Flanger Chor/Echo Delay tating Spkr | EFFECT REVERB REVERB ADJUST LEVEL DEPTH |

| Preset #_2 | We call it: | "60's Rock" | | TAP = <u>102</u> beats/minute |
|--|--|----------------------|---|---|
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VI. Calf Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN BASS MID TREBLE | EFFECT: Comp/Echo Touch Wah Comp/Chorus Compressor Cmp/Fle/Echo Tremolo Cmp/Cho/Echo Vibrato Cmp/Nib/Echo Chorus Flange/Echo Chor/Echo Chor/Echo Delay Rotating Spkr Echo | EFFECT REVERB REVERB ADJUST LEVEL DEPTH |

| Preset #_3 | We call it: _ | "Live at Leeds" | TAP = <u>114</u> beats/minute |
|--|--|---|---|
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | FFFECT: Comp/Echo Comp/Chorus | EFFECT REVERB REVERB ADJUST LEVEL DEPTH |

| Preset #4 | We call it: | "Voodoo Child" | | | | TAP = | N/A bea | ıts/minute |
|--|--|----------------|------------|--|--|------------------|------------------------|------------------------|
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexware Ampeg VL Calf Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN BASS | MID TREBLE | EFFECT: Comp/Ech Comp/Cho/E Cmp/Fig/Fe Cmp/Cho/Fe Cmp/Cho/Fe Flange/Ech Chor/Eche Rotating Sp | us Compressor ho Tremolo cho Vibrato ho Chorus o Flanger Delay | EFFECT ADJUST | α Ω REVERB LEVEL | α Ω REVERB DEPTH |

| Preset # <u>5</u> | We call it: | | TAP = 62 beats/minute |
|---|--|--|-----------------------|
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VI. Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Fra UK 70s Fra UK Fuzzbox GAIN BASS MID TREBLE | FFFEC T: Comp/fetho Comp/fetho Comp/Chorus Comp/Chorus Comp/Cho/Echo Comp/Cho/Echo Comp/Nb/Echo Comp/Nb/Echo Chorus ChanNet ChanNet ChanNet Chor/Echo Chorus Rotating Spkr Cho | EFFECT REVERB DEPTH |

DX-112/212 Digital Guitar Amplifier CHATE



FACTORY PRESETS 6-10 - BANK B (A/B BUTTON LIT)

 $TAP = _61$ Preset # 6 We call it: "Jazzy Chorus" beats/minute AMP MODEL: □ EFFECT: Comp/Echo Clean Top Mount Touch Wah Acoustic High Power Comp/Chorus Compressor Blue Voodoo StudioTweed Cmp/Flg/Echo Tremolo Vintage Club Cmp/Cho/Echo 27 (DIGITAL) 510 Flexwave Large Tweed Cmp/Vib/Echo Chorus 1/6 MAN (A/B) Ampeg VL 60s Era UK Flange/Echo Flanger Calif Mod 70s Era UK Chor/Echo Delay CHANNEL LEVEL REVERB LEVEL REVERB DEPTH BASS MID TREBLE Tube Rectifier Fuzzbox Rotating Spkr Echo "British Invasion" TAP = 162 beats/minute Preset # 7 We call it: AMP MODEL: Clean EFFECT: Comp/Echo Touch Wah Top Mount High Power Comp/Chorus Acoustic Compressor Tremolo Blue Voodoo StudioTweed Cmp/Flg/Echo Black Face Vintage Club mp/Cho/Echo 27 (DIGITAL) 500 Cmp/Vib/Echo Chorus Flexwave Large Tweed 1/6 MAN (A/B) Ampeg VL 60s Era UK Flange/Echo Flanger Calif Mod 70s Era UK Chor/Echo Delay GAIN BASS TREBLE CHANNEL LEVEL MID Tube Rectifie Fuzzbox Rotating Spkr Echo Preset # 8 "Smoky Bar Blues" TAP = 275 beats/minute We call it: AMP MODEL: □ Clean EFFECT: Comp/Echo Top Mount Touch Wah Comp/Chorus High Power Acoustic Compressor Blue Voodoo StudioTweed Cmp/Flg/Echo Tremolo 3/8 TAP 4/9 Vintage Club Vibrato Black Face mp/Cho/Echo 27 DIGITAL 510 Flexwave Cmp/Vib/Echo Chorus Large Tweed 1/6 MAN A/B Ampeg VL 60s Era UK Flange/Echo Flanger Calif Mod 70s Fra UK Chor/Echo Delay TREBLE Tube Rectifier Fuzzbox Rotating Spkr Echo Preset # 9 "Space Rock" 44 We call it: beats/minute Clean EFFECT: Top Mount Comp/Echo Touch Wah Acoustic High Power Comp/Chorus Compressor Blue Voodoo StudioTweed Cmp/Flg/Echo Tremolo Vintage Club Black Face Vibrato 27 DIGITAL 510 Large Tweed Cmp/Vib/Echo Chorus 16 MAN AB Ampeg VL 60s Era UK Flange/Echo Flanger Calif Mod 70s Fra UK Chor/Echo Delay BASS TREBLE CHANNEL LEVEL Fuzzbox Rotating Spkr

| Preset | # | 1 | 0 |
|--------|---|---|---|
| | | | |

"Full Metal Jacket" (Crank it!!) We call it:

TAP = N/Abeats/minute

| AMP MODEL: | Clean | ı | Top Mount | |
|---------------------|----------------|---|-------------|----------|
| | Acoustic | | High Power | |
| 3/8 TAP 4/9 | Blue Voodoo | Γ | StudioTweed | ريبيرر |
| (217 (DIGITAL) 570) | Vintage Club | ſ | Black Face | <i>:</i> |
| | Flexwave | Γ | Large Tweed | ! |
| 1/6 MAN (A/B) | Ampeg VL | Γ | 60s Era UK | α |
| | Calif Mod | ſ | 70s Era UK | GAIN |
| | Tube Rectifier | Γ | Fuzzbox | G/uiv |
| | Tube Rectifier | L | Fuzzbox | |









| EFFECT: | Comp/Echo | | Г | Touch Wah |
|----------------------|---------------|---|---|------------|
| | Comp/Chorus | П | | Compressor |
| W. | Cmp/Flg/Echo | | | Tremolo |
| | Cmp/Cho/Echo | | | Vibrato |
|)= | Cmp/Vib/Echo | | Г | Chorus |
| $\alpha \sim \alpha$ | Flange/Echo | | Г | Flanger |
| HANNEL | Chor/Echo | | | Delay |
| LEVEL | Rotating Spkr | | | Echo |
| | | | _ | |







USER PRESETS 1-5-BANK A

Playing Favorites:
Use the blank charts in this section to record the knob settings of your favorite presets. (We suggest using a pencil so you can go back and make changes later. You could also photocopy one of the pages while it's still blank.)

| | photo | copy one of the p | oages wr | nile it's st | ili blank., |) | | | | |
|---------------------------|---|--|----------|--------------|---------------------------------------|---|--|------------------|-----------------|--------------|
| Preset #1_ | I think I'll call it:_ | | | | | | s | et TAP for _ | bea | nts/minute |
| AMP MODEL: (CHECK ONE) | | GAIN BASS | MID Δ | (CH | EFFECT: ECK ONE) CHANNEL LEVEL | | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |
| Preset #2 | I think I'll call it:_ | | | | | | S | et TAP for | bea | nts/minute |
| AMP MODEL: (CHECK ONE) | Clean Top Mount Acoustic High Power Blue Voodoo Studio Tweed Vintage Club Black Face Flexwave Large Tweed Ampeg VL 605 Fra UK Calif Mod 705 Era UK Tube Rectifier Fuzzbox | GAIN BASS | MID Δ | (CH | EFFECT: ECK ONE) CHANNEL LEVEL | | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |
| Preset #3_ | I think I'll call it:_ | | | | | | S | et TAP for | bea | nts/minute |
| AMP MODEL: (CHECK ONE) | Clean Top Mount Acoustic High Power Blue Voodoo Studio Tweed Vintage Club Black Face Flexwave Large Tweed Ampeg VL Golf Fra UK Calif Mod Tobs Era UK Tube Rectifier Fuzzbox | $ \begin{array}{ccc} \begin{array}{ccc} \begin{array}{ccc} \begin{array}{ccc} \begin{array}{ccc} \end{array} & \begin{array}{cccc} \end{array} & \begin{array}{cccccc} \end{array} & \begin{array}{ccccccccccccccccccccccccccccccccccc$ | MID MID | (CH | EFFECT: ECK ONE) CHANNEL LEVEL | | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo | effect ADJUST | REVERB LEVEL | REVERB DEPTH |
| Preset #4 | I think I'll call it:_ | | | | | | S | et TAP for | bea | nts/minute |
| AMP MODEL: (CHECK ONE) | Clean Top Mount Acoustic High Power Blue Voodoo Studio Tweed Vintage Club Black Face Flexwave Large Tweed Ampeg VL Calif Mod Tube Rectifier Fuzzbox | GAIN BASS | MID MID | (CH | EFFECT: ECK ONE) | | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo | effect ADJUST | REVERB LEVEL | REVERB DEPTH |
| | | | | | | | | | | |

| Preset #5 1 t | hink I'll call it:_ | | | | | _ Se | t TAP for | bea | ts/minute |
|--|--|--|---------------------------------------|------------------------------------|---|--|------------------|-----------------|--------------|
| AMP MODEL: Clean (CHECK ONE) Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | $\begin{array}{ccc} \begin{array}{ccc} \begin{array}{ccc} \begin{array}{ccc} \begin{array}{ccc} \end{array} & \end{array} & \begin{array}{ccc} \end{array} & \begin{array}{cccc} \end{array} & \begin{array}{ccccc} \end{array} & \begin{array}{cccc} \end{array} & \begin{array}{ccccc} \end{array} & \begin{array}{cccc} \end{array} & \begin{array}{cccc} \end{array} & \begin{array}{cccc} \end{array} & \begin{array}{cccc} \end{array} & $ | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | CHECK ONE) Con Cmp Cmp Rla CHANNEL | omp/Echo mp/Chorus pp/Flg/Echo p/Cho/Echo p/Cho/Echo p/Wb/Echo ange/Echo chor/Echo stating Spkr | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |

DX-112/212 Digital Guitar Amplifier TFFTE

USER PRESETS 6-10 - BANK B

| Preset #6 | I th | ink I'll call it:_ | | | | | | | Se | et TAP for _ | bea | ats/minute |
|------------------------------------|--|--|---|--------------------|-------------------|---|---|--|--|------------------|-----------------|--------------|
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 605 Era UK 705 Era UK Fuzzbox | GAIN | BASS MID | (C TREBLE | EFFECTI HECK ONE) \(\alpha\) \(\alpha\) \(\ | | Cor Tir V | nch Wah npressor emolo /ibrato Chorus langer Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |
| Preset #7 | I th | ink I'll call it:_ | | | | | | | Se | et TAP for | bea | ats/minute |
| AMP MODEL: (CHECK ONE) | | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | $\bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\beta} \bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\beta} \bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\beta} \bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\beta} \bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\alpha} \bigcap_{\beta} \bigcap_{\alpha} \bigcap_{\alpha$ | BASS MID | (C π TREBLE | EFFECTE HECK ONE) \(\alpha\) \(\alpha\) \(\ | | Cor Tir V | nch Wah npressor emolo /ibrato Chorus langer Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |
| | | | | | | | | | | | | |
| Preset #8 | I th | ink I'll call it:_ | | | | | | | Se | et TAP for _ | bea | ats/minute |
| Preset # 8 AMP MODEL: (CHECK ONE) | Clean | Top Mount High Power StudioTweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS MID | (C) | EFFECT HECK ONE) | | Cor Tir V | sch Wah npressor emolo fibrato ihorus langer Delay Echo | et TAP for | bea | ats/minute |
| AMP MODEL: | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK | GAIN | BASS MID | | HECK ONE) CHANNEL | Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo | Cor Tir V | nch Wah npressor emolo fibrato Thorus langer Delay Echo | Σ α EFFECT | REVERB LEVEL | REVERB DEPTH |
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Fra UK Fuzzbox | GAIN GAIN | BASS MID BASS MID | TREBLE | HECK ONE) CHANNEL | Comp/Chorus Cmp/Fkg/Echo Cmp/Cho/Echo Cmp/Cho/Echo Flange/Echo Chor/Echo Rotating Spkr | Cor III V C C F F C C C C C C C C C C C C T II C C C C C | nch Wah npressor emolo fibrato Thorus langer Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Ech

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_10

AMP MODEL: (CHECK ONE) Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

Fuzzbox

USER PRESETS 11-16 - BANK A

NOTE: Presets 11-100 are only accessable through the optional Crate Foot Controller

| Preset # 11 I think I'll call it:_ | | Set TAP for _ | beats/minute |
|--|--|---|------------------------------|
| AMP MODEL: Clean Top Mount High Power Studio fweed Stu | Comp/Echo Touch Comp/Chorus Comp/Choru | ressor nolo rato orus ger lay | REVERB REVERB LEVEL DEPTH |
| Preset # 12 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: (CHECK ONE) Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Fuzzbox Glean Top Mount High Power Studio Tweed Studio Tweed Large Tweed Ampeg VL Fuzzbox | GAIN BASS MID TREBLE CHANNEL LEVEL Group/Echo Rotating Spkr | ressor nolo ratio orus ger lay | REVERB REVERB LEVEL DEPTH |
| Preset # 13 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount (CHECK ONE) Blue Voodoo Studio Tweed Vintage Club Black Face Flexwave Large Tweed Ampeg VL Calif Mod Tube Rectifier Fuzzbox | GAIN BASS MID TREBLE CHANNEL Group/Echo COMP/Cho/Echo Cho/Echo Cho/Echo Cho/Echo Cho/Echo Cho/Echo Comp/Cho/Echo Cho/Echo Cho/Echo Cho/Echo Cho/Echo Cho/Echo Cho/Echo Comp/Cho/Echo Cho/Echo Cho/E | rato orus eger lay | REVERB REVERB LEVEL DEPTH |
| Preset #14 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount | CHECK ONE) Comp/Chorus Comp/C | ressor nolo rato orus lay | REVERB REVERB LEVEL DEPTH |
| Preset #_15 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount | GAN BASS MID TREBLE CHANNEL LEVEL Comp/Chorus Comp/Ch | ressor nolo rato orus iger lay | REVERB REVERB LEVEL DEPTH |

25

DX-112/212 Digital Guitar Amplifier TRATE



USER PRESETS 16-20 - BANK B

| Preset # 10 | Preset # <u>16</u> I think I'll call it: | | Set TAD for | hoats/minuto |
|---|---|--|---|---------------------------|
| Heigh Power Mage Needs Ma | | EFFECT Comp/Echa | | beats/illilute |
| Ampsy V. Galf Mod High Power Back Face Howard High Power Back Face Howard H | (CHECK ONE) Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod High Power Studio Tweed Studio Tweed Club Black Face Large Tweed 60s fra UK 70s Fra UK | GAIN BASS MID TREBLE CHANNEL | Compressor Tremolo Vibrato Chorus Flanger Delay FFECT Compressor Tremolo Vibrato Chorus FFECT EFFECT | |
| CHECK ONE Compictors Comp | Preset # 17 I think I'll call it: | | _ Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount High Power StudioTweed StudioTweed Check ONE) Comp/Chous Comp/Chous | (CHECK ONE) Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Flesh Power Studio Tweed Studio Tweed Studio Tweed Slack Face Flexwave Africant Face Flexwave Arroge TVL To Stra UK To Stra UK | (CHECK ONE) Comp/Chorus Comp/Fly/Erbo Comp/Nb/Erbo Flange/Erbo Char/Ecbo Chor/Ecbo Chor/Ecbo Chor/Ecbo | Compressor Tremolo Vibrato Chorus Flanger Delay EFFECT | |
| CHECK ONE Acoustic Blue Voodoo Studio Tweed Studio Tweed Comp/Edo Comp/Edo | | | | |
| AMP MODEL: Clean Top Mount CHECK ONE) Comp/Etho Comp/Chorus Touch Wah Comp/Chorus Comp/Chorus Comp/Chorus Comp/Chorus Comp/Chorus Touch Wah | Preset # 18 I think I'll call it: | | _ Set TAP for _ | beats/minute |
| CHECK ONE Acoustic High Power StudioTweed Wintage Club Elarge Tweed Gols Fra UK Calif Mod Too Fra UK Calif Mod Calif | AMP MODEL: Clean Top Mount | (CHECK ONE) Comp/Chorus Comp/Flg/Echo Comp/Nb/Echo Flange/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay EFFECT | REVERB REVERB |
| | AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Top Mount High Power Studio Tweed Black Face Large Tweed 60s Fra UK 70s Era UK Fuzzbox | (CHECK ONE) Comp/Chorus Comp/Flg/Echo Comp/Nb/Echo Flange/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo Char/Echo | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo Echo EFFECT ADJUST | REVERB REVERB LEVEL DEPTH |

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Ech

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_20

AMP MODEL: (CHECK ONE)

Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

Fuzzbox

USER PRESETS 21-25 - BANK A

| Preset #_21 I think I'll call it: | Set T | AP for beats/minute |
|--|---|---|
| AMP MODEL: Clean Top Mount High Power Studio Tweed High Power Studio Tweed High Power Calif Mod Tube Rectifier Tube Rectifier Tube Rectifier Tube Rectifier Tube Rectifier Tube Rectifier Top Mount High Power CCHECK ON CCHECK | Cmp/Flg/Echo Tremolo Cmp/Cho/Echo Vibrato Cmp/Vb/Echo Chorus Flange/Echo Flanger Chor/Echo Delay | EFFECT REVERB REVERB ADJUST LEVEL DEPTH |
| Preset #_22 I think I'll call it: | Set T | AP for beats/minute |
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg Vt. Calif Mod Tube Rectifier Top Start K. Fuzzbox Fu | Cmp/Flg/Echo Tremolo Cmp/Cho/Echo Vbrato Cmp/Vb/Echo Chorus Flange/Echo Flanger Chor/Echo Delay | EFFECT REVERB REVERB ADJUST LEVEL DEPTH |
| Preset #_23 | Set T | AP for beats/minute |
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Hamber Studio Tweed Gas Fac U. Calif Mod Tube Rectifier Fuzzbox AMP MODEL: Clean Top Mount High Power Studio Tweed Flexwave High Power Gas Fac U. Top Stra UK GAIN BASS MID TREBLE CHANNEL LEVEL | E) Comp/Chorus Compressor Cmp/Fly/Etho Cmp/Cho/Etho Cmp/Cho/Etho Cmp/Vb/Etho Flange/Etho Flanger Cho/Etho Delay | EFFECT REVERB REVERB ADJUST LEVEL DEPTH |
| Preset #_24 I think I'll call it: | Set T | AP for beats/minute |
| AMP MODEL: Clean Top Mount High Power Blue Voodoo Blue Voodoo Black Face Ampeg VL Calf Mod Tube Rectifier Fluzzbox Fluzzbox GAIN BASS MID TREBLE CHANNEL C | E) Comp/Chorus Compressor Cmp/Flg/Etho Cmp/Cho/Etho Cmp/Cho/Etho Cmp/Vb/Etho Flange/Etho Chor/Etho Delay | EFFECT REVERB REVERB DEPTH |
| Preset #_25 I think I'll call it: | Set T | AP for beats/minute |
| AMP MODEL: Clean Top Mount High Power Studio Tweed Large Tweed Ampeg VL Calif Mod Tube Rectifier Fluzzbox Fluzzbox | E) Comp/Chorus Compressor Cmp/Flg/Etho Cmp/Cho/Etho Cmp/Vh/Etho Cmp/Vh/Etho Flange/Etho Chor/Etho Delay | α π. |

27

USER PRESETS 26-30 - BANK B

| Preset # 26 I think I'll call it: | s | Set TAP for bear | ts/minute |
|--|--|---------------------------------------|-----------------|
| AMP MODEL: (CHECK ONE) Clean | CHECK ONE) Comp/Echo Comp/Chorus Com | EFFECT REVERB ADJUST LEVEL | REVERB DEPTH |
| Preset # 27 I think I'll call it: | s | Set TAP for bear | ts/minute |
| AMP MODEL: (CHECK ONE) Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Top Mount High Power Studio Tweed Studio Tweed Calif Mod Tos Fra UK Fuzzbox | Touch Wah Compressor Termolo Chorus Channel Channel Chorus | EFFECT REVERB ADJUST LEVEL | REVERB DEPTH |
| | | | |
| Preset # 28 I think I'll call it:_ | s | Set TAP for bear | ts/minute |
| Preset #28 | Comp/Etch Touch Wah Comp/Chorus Chorus Chor | beat TAP for | rs/minute |
| AMP MODEL: Clean Top Mount | CHECK ONE) Comp/Chorus Cmp/Flg/Echo Cmp/Chorus Cmp/Flg/Echo Cmp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Chorus Flanger Chor/Echo Chorus Flanger Chor/Echo Rotating Spkr Echo | a a a a a a a a a a a a a a a a a a a | REVERB DEPTH |
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calf Mod Tube Rectifier Fuzzbox | CHECK ONE) Comp/Chorus Cmp/Flg/Echo Cmp/Chorus Cmp/Flg/Echo Cmp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Cho/Echo Chorus Flanger Chor/Echo Chorus Flanger Chor/Echo Rotating Spkr Echo | α α α α α α α α α α α α α α α α α α α | REVERB DEPTH |

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Ech

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_30

AMP MODEL: (CHECK ONE) Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

Fuzzbox

USER PRESETS 31-35 - BANK A

| Preset # 31 I think I'll call it: | _ Set TAP for _ | beats/minute |
|--|--|---------------------------|
| AMP MODEL: Clean Top Mount High Power Studio Tweed Black Face Large Tweed Gos Era UK Top Sea UK Top Sea UK Top Sea UK Top Sea UK Top Mount High Power Studio Tweed Black Face Large Tweed Gos Era UK Top Sea | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo Echo ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_32 | _ Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount High Power Studio Tweed Armeg VL Calif Mod Tube Rectifier Tube Rectifier Tube Rectifier Top Mount High Power Studio Tweed Calif Mod Top Mount High Power Calif Mod Calif Mod Top Mount Calif Mount Calif Mod Top Mount Calif Mo | Touch Wah Compressor Iremolo Vibrato Chorus Flanger Delay Echo Echo FFECT ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_33 | _ Set TAP for _ | beats/minute |
| AMP MODEL: Clean (CHECK ONE) Acoustic Blue Voodoo Vintage Club Flexware Ampeg VL Calif Mod Tube Rectifier Tuzebox Tube Rectifier Tuzebox Tube Rectifier Tuzebox Tube Rectifier Tuzebox Tube Rest Tuzebox Tube Rest Tuzebox Tube Rest Tuzebox Tuzebox | Touch Wah Compressor Tremolo Vibratio Chorus Flanger Delay Echo Echo ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_34 | _ Set TAP for _ | beats/minute |
| AMP MODEL: Clean (CHECK ONE) Acoustic High Power Studio Tweed High Power Check One Comp/Chorus Comp/ | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_35 I think I'll call it: | _ Set TAP for _ | beats/minute |
| AMP MODEL: Clean (CHECK ONE) Acoustic Blue Voodoo Virtage Club Flexwave Large Tweed Ampeg VL Calif Mod Tube Rectifier Fuzzbox Top Mount High Power Studio Tweed Variage Club Gall No. 10 Star UK Fuzzbox AMP MODEL: Clean Comp/Edo Comp/Edo Comp/Chorus Comp/Ch | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo ADJUST | REVERB LEVEL DEPTH |

DX-112/212 Digital Guitar Amplifier TRATE

USER PRESETS 36-40 - BANK B

| Preset #_36 | I th | ink I'll call it: | | | | | | | | Se | et TAP for _ | bea | nts/minute |
|---------------------------|--|--|------|------------|---|--------|--|--|---|--|------------------|-----------------|--------------|
| AMP MODEL: (CHECK ONE) | | Top Mount High Power StudioTweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS | MID Δ | (CI | EFFECT: HECK ONE) \(\alpha\) \(\alpha\) \(\a | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo Rotating Spkr | С | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |
| Preset #_37 | I th | ink I'll call it: | | | | | | | | Se | et TAP for _ | bea | nts/minute |
| AMP MODEL: (CHECK ONE) | | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS | MID MID | (CI | EFFECT: HECK ONE) \(\alpha \) \(\alpha \) | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo Rotating Spkr | С | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |
| Preset #_38 | I th | ink I'll call it: | | | | | | | | Se | et TAP for _ | bea | ats/minute |
| AMP MODEL: | d | | | | | | | | | | | | |
| (CHECK ONE) | | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS | - 111/, - 12 miles 111/, - 12 | (CH | EFFECTE HECK ONE) a a a a a a a a a a a a a a a a a a a | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo Rotating Spkr | С | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |
| | Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | High Power Studio Tweed Black Face Large Tweed 60's Era UK 70's Era UK Fuzzbox | | BASS | MID MID | | HECK ONE) | Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vib/Echo Flange/Echo Chor/Echo | С | Tremolo Vibrato Chorus Flanger Delay Echo | | LEVEL | DEPTH |
| (CHECK ONE) | Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | High Power Studio Tweed Black Face Large Tweed 60's Era UK 70's Era UK Fuzzbox | | BASS BASS | MID AID | TREBLE | HECK ONE) | Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Cho/Echo Flange/Echo Chor/Echo Rotating Spkr | | Tremolo Vibrato Chorus Flanger Delay Echo | ADJUST | LEVEL | DEPTH |

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Ech

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_40

AMP MODEL: (CHECK ONE)

Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

Fuzzbox

USER PRESETS 41-45 - BANK A

| Preset #_41 I think I'll call it: | Set TAP for | beats/minute |
|--|--|------------------------------|
| AMP MODEL: Clean (CHECK ONE) Acoustic High Power Studio Tweed Ampeg VL Calif Mod Tube Rectifier Tuzzbox Truzbox Treble Channel Cherk one Cherk one Comp/Chorus Comp/Chorus | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay EFFECT ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_42 I think I'll call it: | Set TAP for | beats/minute |
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Fuzzbox AMP MODEL: Clean Acoustic High Power Studio Tweed Studio Tweed Calif Mod Tube Rectifier Fuzzbox Top Mount High Power (CHECK ONE) Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Cho/Echo Cmp/Vb/Echo Cmp/Vb/Ech | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay EFFECT ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_43 I think I'll call it: | Set TAP for | beats/minute |
| AMP MODEL: Clean (CHECK ONE) Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Calif Mod Tube Rectifier Calif Mod Tube Rectifier Clean Top Mount High Power Studio Tweed Ampeg VL GAIN BASS MID TREBLE CHANNEL LEVEL Comp/Etho Comp/Tchorus Cmp/Thg/Echo Cm | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay EFFECT ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_44 I think I'll call it: | Set TAP for | beats/minute |
| AMP MODEL: Clean (CHECK ONE) Acoustic High Power Studio Tweed Ampeg VI. Calf Mod Tube Rectifier Tuzzbox TREBLE CHANNEL LEVEL Channel Chor/Echo Rotating Sykr | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo Echo ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_45 I think I'll call it: | Set TAP for | beats/minute |
| AMP MODEL: Clean Top Mount High Power Studio Tweed Argey VL Calif Mod Tube Rectifier Toz Star UK Tube Rectifier Tube Rectifier Tube Rectifier Toz Star UK Tube Rectifier Toz Mount High Power Comp/Chorus Comp/C | Touch Wah Compressor Tremolo Vibrato Chorus Flanger Delay Echo Echo ADJUST | REVERB REVERB LEVEL DEPTH |

31

FAVO

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

DX-112/212 Digital Guitar Amplifier CRATE

USER PRESETS 46-50 - BANK B

| Preset #_46 | I t | hink I'll call it: | | | | | | | | Set | TAP for | bea | ts/minute |
|---------------------------|--|--|------------|-----------|---------|--------|---|--|--|--|------------------|------------------------|--------------|
| amp Model: (Check one) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS | MID MID | (CI | EFFECT: HECK ONE) Quantity of the control of the c | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo Rotating Spkr | Touch Comp Tren Vib Chd Flar De | rato orus iger lay | EFFECT ADJUST | α Ω REVERB LEVEL | REVERB DEPTH |
| Preset # <u>47</u> | I t | hink I'll call it:_ | | | | | | | | Set | TAP for | bea | its/minute |
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS | MID MID | (CI | EFFECT: HECK ONE) CHANNEL LEVEL | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo Rotating Spkr | Touch Comp Tren Vib Ch Flar De | rato orus iger lay | effect ADJUST | REVERB LEVEL | REVERB DEPTH |
| Preset #_48 | I ti | hink I'll call it: _ | | | | | | | | Set | TAP for | bea | ts/minute |
| | | | | | | | | | | | | | |
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power StudioTweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS | MID MID | (CI | EFFECTE HECK ONE) CHANNEL LEVEL | | Touch Comp Tren Vib Cho Flar De | rato orus iger lay | effect ADJUST | REVERB LEVEL | REVERB DEPTH |
| | Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | High Power StudioTweed Black Face Large Tweed 60s Era UK 70s Era UK | GAIN | BASS | MID | | HECK ONE) a CHANNEL | Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo | Comp Tren Vib Cho Flar | ressor nolo rato orus iger lay | | LEVEL | DEPTH |
| (CHECK ONE) | Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | High Power Studio Tweed Black Face Large Tweed 60s Fra UK 70s Fra UK Fuzzbox | GAIN GAIN | BASS BASS | MID MID | TREBLE | HECK ONE) a CHANNEL | Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Cho/Echo Flange/Echo Chor/Echo Rotating Spkr | Comp Tren Vib Chc Flar De Ec | ressor nolo rato rato rus gger lay hho Set Wah ressor nolo rato rato gger lay ger lay | ADJUST | LEVEL | DEPTH |

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Echo

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_50

AMP MODEL: (CHECK ONE) Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

USER PRESETS 51-55 - BANK A

| Preset # 51 I think I'll call it:_ | | Set TAP for _ | beats/minute |
|--|--|---|---------------------------|
| AMP MODEL: Clean Top Mount High Power Studio Tweed Virtage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Fuzzbox | GAIN BASS MID TREBLE CHANNEL GROTERS GROTE | essor old | REVERB REVERB LEVEL DEPTH |
| Preset # <u>52</u> I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Clean Top Mount High Power Studio Tweed Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN BASS MID TREBLE CHANNEL LEVEL Comp/Cho/Echo Cho/Echo Cho/Ech | essor olo olo us ger any effect. | REVERB REVERB LEVEL DEPTH |
| Preset #_53 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Top Mount High Power Studio Tweed Studio Tweed High Power Studio Tweed Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN BASS MID TREBLE CHANNEL Grow/Echo Grow/Echo Comp/Chorus Comp/C | essor olo olo us ger any effect. | REVERB REVERB LEVEL DEPTH |
| Preset #_54 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount High Power Studio Tweed Viritage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Tube Research Clean Top Mount High Power Studio Tweed Black Face Black Face Large Tweed 60s Era UK Tube Rectifier Fuzzbox | GAIN BASS MID TREBLE CHANNEL Gotoff Rotating Spkr Charles | essor old | REVERB REVERB LEVEL DEPTH |
| Preset #_55 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount (CHECK ONE) Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Fuzzbox Top Mount High Power Studio Tweed Black Face Large Tweed 70s Fra UK Fuzzbox | Comp/Echo Comp/Chorus Comp/Cho | essor old | REVERB LEVEL DEPTH |

33

FAVC

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

DX-112/212 Digital Guitar Amplifier CRATE

USER PRESETS 56-60 - BANK B

| Preset #_56 | I t | hink I'll call it: | | | | | | | | Set TAP for _ | be | ats/minute |
|---------------------------|--|--|------|------|---------|-----|---|--|--|---|-----------------|--------------|
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Fra UK 70s Era UK Fuzzbox | GAIN | BASS | MID | (CI | EFFECT: HECK ONE) a a a CHANNEL LEVEL | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vib/Echo Flange/Echo Chor/Echo Rotating Spkr | Touch \ Compre Tremo Vibral Chorn Flang Dela | SSOF O O S or C O O O O O O O O O O O O O | REVERB LEVEL | REVERB DEPTH |
| Preset # <u>57</u> | I t | hink I'll call it: | | | | | | | | Set TAP for _ | be | ats/minute |
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK | GAIN | BASS | MID MID | (CI | EFFECT: HECK ONE) CHANNEL LEVEL | | Touch V Compre Tremc Vibral Chorn Flang Dela' Echc | ssor o o s o r r | REVERB LEVEL | REVERB DEPTH |
| Preset #_58 | I t | hink I'll call it: | | | | | | | | Set TAP for _ | be | ats/minute |
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Fra UK 70s Fra UK Fuzzbox | GAIN | BASS | MID | (CI | EFFECT: HECK ONE) a n CHANNEL LEVEL | | Touch V Compre Tremc Vibral Chorn Flang Dela' | SSOF O O S or C O O O O O O O O O O O O O | REVERB LEVEL | REVERB DEPTH |
| Preset #_59 | I t | hink I'll call it: | | | | | | | | Set TAP for _ | be | ats/minute |
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS | MID | (CI | EFFECT: HECK ONE) | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vb/Echo Flange/Echo Chor/Echo Rotating Spkr | Touch \ Compre Tremo Vibral Chorn Flang Dela' | SSOF O O S or C O O O O O O O O O O O O O | REVERB LEVEL | REVERB DEPTH |

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Echo

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_60

AMP MODEL: (CHECK ONE) Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

USER PRESETS 61-65 - BANK A

| Preset # 61 I think I'll call it: | | Set TAP for _ | beats/minute |
|---|--|---------------|---------------------------|
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flewawe Ampeg VL Calif Mod Tube Rectifier Fuzzbox | CHECK ONE Comp/Echo Comp/Chorus Comp | _ | REVERB REVERB LEVEL DEPTH |
| Preset # 62 I think I'll call it: | | Set TAP for | beats/minute |
| AMP MODEL: Clean Top Mount (CHECK ONE) Acoustic High Power Blue Voodoo Vintage Club Flewawe Ampeg VL Calif Mod Tob En UK Tob Mount Top Mount Top Mount Fleigh Power Black Face Large Tweed 60s Era UK 70s Era UK Fluzzbox | CHECK ONE) Comp/Echo Com | 1 | REVERB REVERB LEVEL DEPTH |
| Preset #_63 I think I'll call it: | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Black Face Flexwave Ampeg VI. Calif Mod Tube Rectifier Fuzzbox | CHECK ONE Comp/Echo Comp/Chorus Comp/Hg/Echo Comp/Chorus Com | _ | REVERB REVERB LEVEL DEPTH |
| Preset #_64 I think I'll call it: | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Acoustic Blue Voodoo Virtage Club Flewawe Ampeg VL Calif Mod Tube Rectifier 705 fra UK Fuzzbox | CHECK ONE Comp/Echo Comp/Chorus Comp | _ | REVERB REVERB LEVEL DEPTH |
| Preset # <u>65</u> I think I'll call it: | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount | CHECK ONE Comp/Echo Comp/Chorus Touch Wai Compress Touch | _ | REVERB LEVEL DEPTH |

35

DX-112/212 Digital Guitar Amplifier TRITE

USER PRESETS 66-70 - BANK B

| Preset #_66 | I th | ink I'll call it: | | | | | | | Set TAP for _ | be | ats/minute |
|--|--|--|------|----------|--------|---|---|--|---|-----------------|--------------|
| amp model: (Check one) | | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS MID | (CF | EFFECT: HECK ONE) \(\alpha\) \(\alpha\) \(\ | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo Rotating Spkr | Touch W. Compress Tremok Vibrato Chorus Flanger Delay Echo | or VIII | REVERB LEVEL | REVERB DEPTH |
| Preset #_67 | I th | ink I'll call it: _ | | | | | | | Set TAP for _ | be | ats/minute |
| AMP MODEL: (CHECK ONE) | | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS MID | (CF | EFFECT: HECK ONE) CHANNEL LEVEL | | Touch W. Compress Tremok Vibrato Chorus Flanger Delay Echo | or | REVERB LEVEL | REVERB DEPTH |
| | | | | | | | | | | | |
| Preset #_68 | 3 I th | ink I'll call it: | | | | | | | Set TAP for _ | be | ats/minute |
| Preset # 68 AMP MODEL: (CHECK ONE) | Clean | Top Mount High Power Studio Tweed Black Face Large Tweed 605 Fra UK 705 Fra UK Fuzzbox | GAIN | BASS MID | (CI- | EFFECT: HECK ONE) CHANNEL LEVEL | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vlb/Echo Flange/Echo Chor/Echo Rotating Spkr | Touch W Compress Tremok Vibratio Chorus Flanger Delay Echo | ih or | be. | ats/minute |
| AMP MODEL: | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Fra UK 70s Era UK Fuzzbox | | | | HECK ONE) | Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vib/Echo Flange/Echo Chor/Echo | Compress Tremolo Vibrato Chorus Flanger Delay | α Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω | REVERB LEVEL | REVERB DEPTH |
| AMP MODEL: (CHECK ONE) | Clean Acoustic Blue Voodoo Vritage Club Flexwave Ampeg VL Calf Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Fra UK 70s Era UK Fuzzbox | | | TREBLE | HECK ONE) | Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Cho/Echo Hange/Echo Chor/Echo Rotating Spkr | Compress Tremolo Vibrato Chorus Flanger Delay | EFFECT ADJUST | REVERB LEVEL | REVERB DEPTH |

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Echo

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_70

AMP MODEL: (CHECK ONE) Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

USER PRESETS 71-75 - BANK A

| Preset #_71 I think I'll call it: | | Set TAP for _ | beats/minute |
|--|--|---------------|---------------------------|
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Clean Top Mount High Power Studio Tweed Studio Tweed Oo Stra UK 70 S Era UK Fuzzbox | GAIN BASS MID TREBLE CHANNEL LEVEL Comp/Echo Comp/Echo Comp/Chorus Comp/Choru | sor | REVERB REVERB LEVEL DEPTH |
| Preset #_72 I think I'll call it: | | Set TAP for | beats/minute |
| AMP MODEL: Clean Top Mount CHECK ONE) Acoustic High Power Blue Voodoo Studio Tweed Vintage Club Black Face Large Tweed Ampeg VL 60s Era UK Calif Mod Top Mount Top Mount High Power Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN BASS MID TREBLE CHANNEL LEVEL Graph (Check ONE) Comp/Echo (Chor/Echo Cmp/Nb/Echo Flange/Echo Chor/Echo Chor/Ech | ah sor | REVERB REVERB LEVEL DEPTH |
| Preset #_73 I think I'll call it: | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Acoustic Blue Voodoo Vintage Club Black Face Flexwave Ampeg VL Calif Mod Tube Rectifier Fuzzbox | GAIN BASS MID TREBLE CHANNEL LEVEL Group/Echo Comp/Echo Comp/Echo Comp/Chorus | sor | REVERB REVERB LEVEL DEPTH |
| Preset #_74 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| AMP MODEL: (CHECK ONE) Clean Top Mount | CHECK ONE) Comp/Echo Comp/Chorus Com | sor | REVERB REVERB LEVEL DEPTH |
| Preset #_75 I think I'll call it: | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount | CHECK ONE Comp/Etho Comp/Chorus Comp | sor O | REVERB LEVEL DEPTH |

37

DX-112/212 Digital Guitar Amplifier TRATE

USER PRESETS 76-80 - BANK B

| Preset #_ 76 | <u> </u> | hink I'll call it: | | | | | | | | Set TAP for _ | be | ats/minute |
|------------------------------------|--|--|------|------------|---------|--------|--|---|--|------------------|--------------------|---------------------------------------|
| AMP MODEL (CHECK ONE) | | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Fra UK Fuzzbox | GAIN | BASS | MID | (CI | EFFECT HECK ONE CHANNEL LEVEL | | Touch Wal Compresso Tremolo Vibrato Chorus Flanger Delay Echo | _ | α Ω Ω REVERB LEVEL | REVERB DEPTH |
| Preset #_ 77 | | hink I'll call it: | | | | | | | | Set TAP for _ | be | ats/minute |
| AMP MODEL (CHECK ONE) | | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK | GAIN | BASS | MID | (CI | EFFECT HECK ONE CHANNEL LEVEL | | Touch Wal Compresso Tremolo Vibrato Chorus Flanger Delay Echo | _ | REVERB LEVEL | REVERB DEPTH |
| | | | | | | | | | | | | |
| Preset #_78 | <u> </u> | hink I'll call it: | | | | | | | | Set TAP for _ | be | ats/minute |
| Preset # 78 AMP MODEL (CHECK ONE) | Clean | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK Fuzzbox | GAIN | BASS | MID MID | (CI | EFFECT HECK ONE | Comp/Echo Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vb/Echo Flange/Echo Chor/Echo Rotating Spkr | Touch Wall Compresso Tremolo Vibrato Chorus Flanger Delay Echo |] | be REVERB LEVEL | ats/minute |
| AMP MODEL | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calf Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Era UK 70s Era UK | | BASS | MID | | HECK ONE | Comp/Chorus Cmp/Flg/Echo Cmp/Cho/Echo Cmp/Vib/Echo Flange/Echo Chor/Echo | Compressor Tremolo Vibrato Chorus Flanger Delay | εFFECT | REVERB LEVEL | α Ω Ω REVERB |
| AMP MODEL (CHECK ONE) | Clean Acoustic Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier | Top Mount High Power Studio Tweed Black Face Large Tweed 60s Fac UK 70s Far UK Fuzzbox | | BASS BASS | MID MID | TREBLE | HECK ONE | Comp/Chorus Cmp/Fkg/Echo Cmp/Cho/Echo Cmp/Cho/Echo Hange/Echo Chor/Echo Rotating Spkr | Compressor Tremolo Vibrato Chorus Flanger Delay | EFFECT ADJUST | REVERB LEVEL | α α α α α α α α α α α α α α α α α α α |

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Echo

Flange/Echo

Rotating Spkr

Preset #_80

AMP MODEL: (CHECK ONE)

Clean

Acoustic

Blue Voodoo

Vintage Club

Calif Mod

I think I'll call it:

Top Mount High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK Fuzzbox

AVORITES

CRATE DX-112/212 Digital Guitar Amplifier

USER PRESETS 81-85 - BANK A

| Preset #_81 I think I'll call it:_ | | Set TAP for _ | beats/minute |
|---|---|--|---------------------------|
| AMP MODEL: Clean Top Mount CHECK ONE) Gleave High Power Blue Voodoo Studio Tweed Vintage Club Black Face Flexwave Ampeg VL Calif Mod 70s Fra UK Tube Rectifier Fuzzbox | (CHECK ONE) Comp/Chorus Comp/Rg/Echo Tree | h Wah pressor molo wato orus orus ngger elay hho ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_82 I think I'll call it:_ | | Set TAP for _ | beats/minute |
| Clean Top Mount | (CHECK ONE) Comp/Chorus Comp/Rg/Echo Trefair CHANNET | h Wah pressor molo orus nger elaly cho ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset # 83 I think I'll call it: | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount (CHECK ONE) Blue Voodoo Vintage Club Flexwave Ampeg VL Calif Mod Tube Rectifier Fuzzbox | (CHECK ONE) Comp/Chorus Comp/Rg/Echo Tree | h Wah pressor molo wrato orus ngger elaly cho ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset # 84 I think I'll call it: | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean Top Mount (CHECK ONE) Blue Voodoo Viritage Club Flexwawe Ampeg VL Calif Mod Tube Rectifier Top Mount Top Mount High Power Studio Tweed Studio Tweed Black Face 60s Era UK 70s Era UK Fuzzbox | (CHECK ONE) Comp/Chorus Comp/Reficho Tenero | h Wah pressor molo orusi | REVERB REVERB LEVEL DEPTH |
| Preset # 85 I think I'll call it: | | Set TAP for _ | beats/minute |
| AMP MODEL: Clean | (CHECK ONE) Comp/Chorus Comp/Rg/Echo Trefair CHANNET | h Wah pressor nolo varato organ elalay elalay eho ADJIUST | REVERB REVERB LEVEL DEPTH |

DX-112/212 Digital Guitar Amplifier CRATE

USER PRESETS 86-90 - BANK B

| | Set TAP for _ | beats/minute |
|--|--|---|
| (CHECK ONE) Comp/Chorus Cmp/Flg/Echo Ire a a a a a a a a a a a a a a a a a a a | pressor molo brato norus inger | REVERB REVERB LEVEL DEPTH |
| | | beats/minute |
| (CHECK ONE) Comp/Chorus Comp/Flg/Echo Comp/Cho/Echo Comp/Chorus Comp/Cho/Echo Comp/Cho/Ech | pressor molo brato norus inger ielay | REVERB REVERB LEVEL DEPTH |
| | Set TAP for _ | beats/minute |
| (CHECK ONE) Comp/Chorus Cmp/Flg/Echo IFe a a a a a a a a a a a a a a a a a a a | pressor molo brato norus inger ielay | REVERB REVERB LEVEL DEPTH |
| | Set TAP for _ | beats/minute |
| FFFFCT C /5 | h Wah | |
| | (CHECK ONE) Gain Bass Mid Treble CHannel Level Grop/Chorus Comp/Chorus Comp/ | Comp/Cho/Echo Comp/Cho/Echo Comp/Cho/Echo Comp/Cho/Echo Comp/Cho/Echo Comp/Cho/Echo Comp/Cho/Echo Chorus Flanger Chorus Chorus Flanger Chorus Chorus Flanger Chorus Flanger Chorus Chorus Chorus Chorus Flanger Chorus Chorus Chorus Flanger Chorus Chorus Flanger Chorus Chorus Flanger Chorus Chorus Flanger Chorus Choru |

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Echo

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_90

AMP MODEL: (CHECK ONE)

Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

AVORITES

CRATE DX-112/212 Digital Guitar Amplifier

USER PRESETS 91-95 - BANK A

| Preset # 91 I think I'll call it: | Set TAP for _ | beats/minute |
|--|---|------------------------------|
| CCHECK ONE Acoustic High Power Blue Voodoo Virtage Club Black Face Hexwave Large Tweed Ampeg VL Calif Mod Too Stra UK | uch Wah mpressor ermolo Chorus langer Delay Echo ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_92 | Set TAP for _ | beats/minute |
| CCHECK ONE Acoustic High Power Blue Voodoo Studio Tweed Studio Tweed | uch Wah mpressor remolo //lbrato //lbrato langer Delay EFFECT ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_93 | Set TAP for _ | beats/minute |
| CCHECK ONE Acoustic High Power Studio Tweed Studio Tweed | npressor remolo ribratio Chorus Langer Delay EFFECT ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_94 | Set TAP for _ | beats/minute |
| CCHECK ONE Acoustic High Power Studio Tweed Studio Tweed Studio Tweed Comp/Chorus Co | ch Wah npressor remolo ribrato Chorus Langer Delay Echo ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_95 | Set TAP for _ | beats/minute |
| CCHECK ONE Acoustic High Power Studio Tweed Studio Tweed | uch Wah mpressor remolo ribrato chorus langer Delay Echo Echo Echo Echo Echo Echo Echo Echo | REVERB REVERB LEVEL DEPTH |

beats/minute

Set TAP for

Touch Wah

Compressor

Tremolo

Vibrato

Chorus Flanger Delay

Echo

DX-112/212 Digital Guitar Amplifier CRATE

USER PRESETS 96-100 - BANK B

| Preset # <u>96</u> | I think I'll call it: | | Set TAP for | beats/minute |
|--|---|--|--|------------------------------|
| AMP MODEL: Clean (CHECK ONE) Rousti Blue Voor Vintage C Flexway Ampeg Calf Mr. Tube Rect | c High Power loo Studio Tweed lub Black Face e Large Tweed /L 60s Era UK 70s Era UK | CHECK ONE) Comp Comp Comp Comp Comp Comp Comp Comp | mp/Echo mp/Chorus Touch Wah mp/Chorus Temolo y/Kb/Echo y/Wb/Echo y/Wb/Echo por/Echo por/Echo por/Echo ataing Spkr Touch Wah Temolo y/Wbrato Chorus pelay tating Spkr Tetho Touch Wah Temolo y/Wbrato Chorus pelay tating Spkr Tetho Tetho ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_97 | I think I'll call it:_ | | Set TAP for | beats/minute |
| AMP MODEL: Clean (CHECK ONE) Blue Voor Vintage C Flexwau Ampeg' Calif Mc lube Rect | C | CHECK ONE) Comp Comp | mp/Echo Touch Wah Compressor Tiemolo Vibrato Vibrato Corus Flanger Corus Flanger Corus Flanger Corus Corus | REVERB REVERB LEVEL DEPTH |
| Preset #_98 | I think I'll call it:_ | | Set TAP for | beats/minute |
| AMP MODEL: Clean (CHECK ONE) Rousti Blue Voor Vintage C Flexway Ampeg' Calif Mc Tube Rect | C | CHECK ONE) Comp Comp Comp Comp Comp Comp Comp Comp | mp/Echo Touch Wah mp/Chorus Compressor Tiemolo Vibrato Vibrato Vibrato Orlo/Ficho Flanger Chorus mge/Echo Delay Echo ADJUST | REVERB REVERB LEVEL DEPTH |
| Preset #_99 | I think I'll call it:_ | | Set TAP for | beats/minute |
| AMP MODEL: Clean (CHECK ONE) Blue Voor Vintage C Flexxvau Ampeg' Calif Mc Tube Rect | c High Power loo Studio Tweed lub Black Face e Large Tweed //L 60s Era UK dd 70s Era UK | CHECK ONE) Comp Comp Comp Comp Comp Comp Comp Comp | mp/Echo Touch Wah np/Chorus Temolo Vibrato Vibrato Vibrato Orley/Echo Temolo Vibrato Orley/Echo Chorus Hanger nor/Echo Delay EFFECT ADJUST | REVERB REVERB LEVEL DEPTH |

TREBLE

EFFECT: Comp/Echo
(CHECK ONE) Comp/Chorus

Comp/Chorus

Cmp/Flg/Echo

Cmp/Cho/Ech

Cmp/Vib/Echo

Flange/Echo

Chor/Echo

Rotating Spkr

Preset #_100

Clean

Acoustic

Blue Voodoo

Vintage Club

Ampeg VL

Calif Mod

Tube Rectifier

AMP MODEL: (CHECK ONE)

I think I'll call it:

Top Mount

High Power

StudioTweed

Black Face

Large Tweed

60s Era UK

70s Era UK

Appendix A

Designer's Note: Amplifier Modeling:

Building an amplifier model is really not much different than building an actual amplifier. With an actual amplifier you start with components like tubes, transformers, resistors, capacitors, and a speaker, and put them together to create an amplifier. With a virtual amplifier you start with virtual components and put them together to create an amplifier model.

It all starts with what many consider to be the "magic" in the sound of many vintage amplifiers: the vacuum tube. We created a tube model flexible enough to emulate different types of vacuum tubes, from preamp tubes such as the 12AX7 to power amp tubes like the 6L6 and the EL84.

Next, we constructed models to duplicate the filtering and equalization that takes place between the gain stages of an amplifier. These equalization models are adaptable to precisely emulate the frequency characteristics of a specific amplifier's controls. We even created models for the output transformer and power supply sag characteristics.

After extensive research, we discovered that there's really no magic in the tube itself. Much of the tube amplifier sound is a result of not just the tube, but the way the tube interacts with the other components in the amplifier. We created our tube models to interact with the other components in our virtual amplifiers, just like the real thing.

After we developed our component models, we put them together to create our virtual amplifiers. We sound tested our amplifier models extensively to ensure that they remained true to the sound and feel of the original amplifier. Although we may have taken the magic out of the tube, we wanted to keep the magic of the tube *sound*.

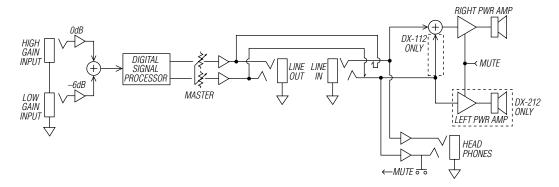
The diagrams on the following page show the signal chain of the DX-112/212 amplifier.

DX-112/212 Digital Guitar Amplifier CRATE

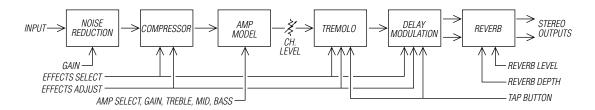


Block Diagrams:

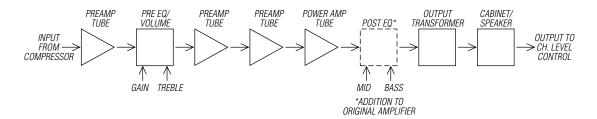
• The analog signal path, from the input jack to the speaker(s).



• The digital signal path, which is the path the signal takes inside the digital signal processor.



· A typical Amplifier Model. This simplified block diagram shows the digital signal path through the many virtual components of the Studio Tweed Amplifier Model. Note that the Fender Deluxe did not have a Mid or Bass control, so we added these controls post-gain.



Appendix B

MIDI Implementation Chart:

[Crate Digital Guitar Amplifier] MODEL DX-112/212

| Funct | tion | Transmitted | Recognized | Remarks |
|---------------------|--|------------------|------------------|---------|
| Basic Channel | Default Changed | X X | OMNI X | |
| Mode | Default Messages Altered | X X X | Mode 1 X X | |
| Note Number | True Voice | X X | X X | |
| Velocity | Note ON Note OFF | X X | X X | |
| After Touch | Key's Ch's | X X | X X | |
| Pitch Bender | Default | Х | X | |
| Control Change | | X X | X X | |
| Prog Change | True Number | X X | O X | 0 – 99 |
| System Exclusi | ve | Х | X | |
| System Common | Song Pos Song Sel Tune | X X X | X X X | |
| System Real Time | Clock Commands | X X | X X | |
| Aux Messages | Local ON/OFF All Notes Off Active Sense Reset | X X X X | X X X X | |
| Notes | | | | |

Mode 1: OMNI ON, POLY Mode 3: OMNI OFF, POLY Mode 2: OMNI ON, MONO Mode 4: OMNI OFF, MONO O: YES X: NO

Date: 02/18/99

Version: 1.1

DX-112/212 Digital Guitar Amplifier CRATE



Appendix C

Specifications:

Analog:

| Output Power Rating | DX-112 60 watts RMS; DX-212 100 watts RMS (50W RMS x 2) |
|-----------------------|--|
| Input Impedance | High gain 80k ohm; Low gain 150k ohm |
| Line Input Impedance | 47k ohm |
| Line Output Impedance | 1k ohm |
| Headphone Impedance | 32 ohm minimum |
| Internal Speaker(s) | DX-112 (1) 12" Custom Eminence, 8 ohms; DX-212 (2) 12" Custom Eminence, 8 ohms |
| Power Requirements | 120VAC, 60Hz, 200VA; 100/115VAC, 50/60Hz, 200VA; 230VAC, 50/60Hz, 200VA |
| Size and Weight | DX-112/212 21.4"H x 27.9"W x 10.2"D; DX-112 50 lbs; DX-212 57 lbs |

Digital:

| Analog to Digital Conversion | 20-bit Delta-Sigma w/64X oversampling |
|------------------------------|---|
| Digital to Analog Conversion | 20-bit Delta-Sigma w/128X oversampling |
| Conversion Rate | 46.875 kHz |
| Digital Signal Processor | 24-bit operating at >40 million instructions/second |

Final Note:

No oversampling was used in our emulation software, and no animals were harmed during its design and development.



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