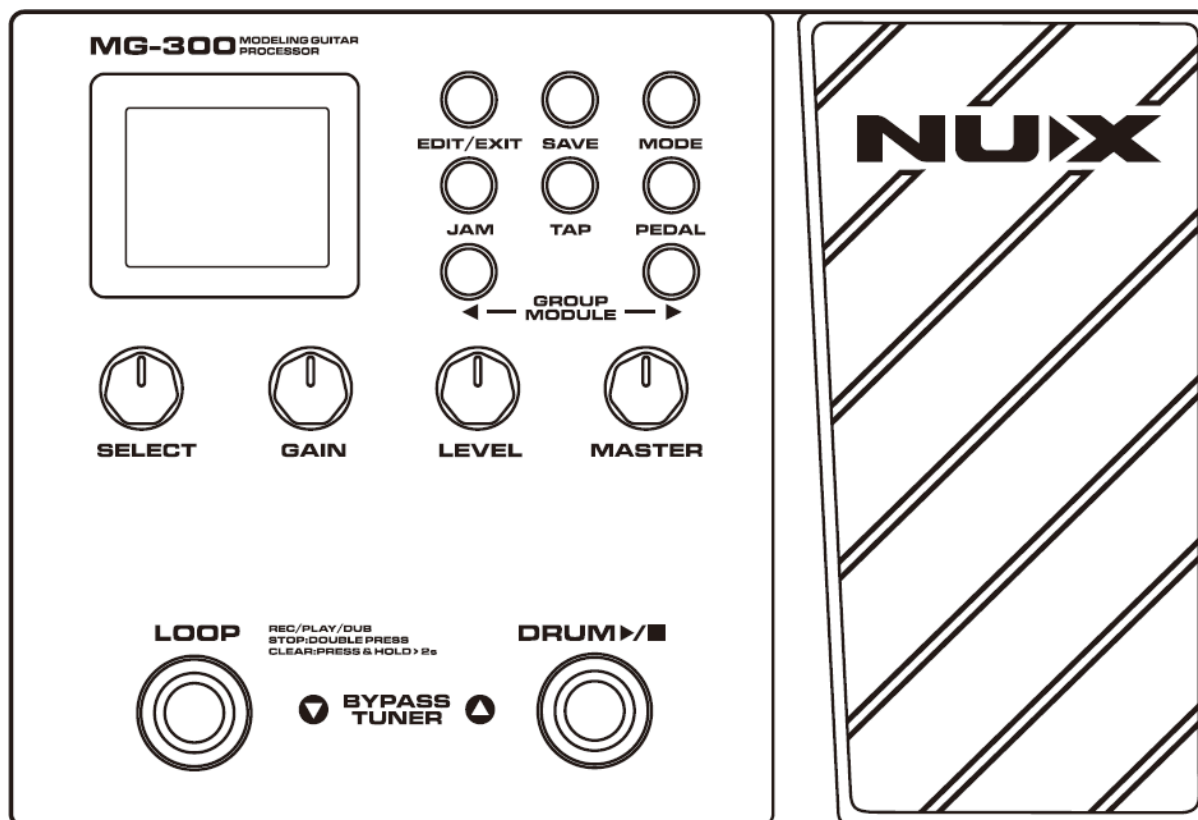


NUX

MG-300

Modeling Guitar Processor

Unofficial User Guide



Thanks to NUX for making this fantastic Multi-EXF Amp Modelling device.

The original MG-300 Owner's Manual is fairly brief, and glosses over many of the features. This Guide attempts to fill in the gaps.

This manual is not complete, so please refer to the original manual for specifications and connection details.

This manual only addresses the MG-300 unit itself. Please do check out the QuickTone software which provides an excellent way of editing Presets and controlling the MG-300 from a computer. The QuickTone software can be downloaded from nuxefx.com/mg-300.

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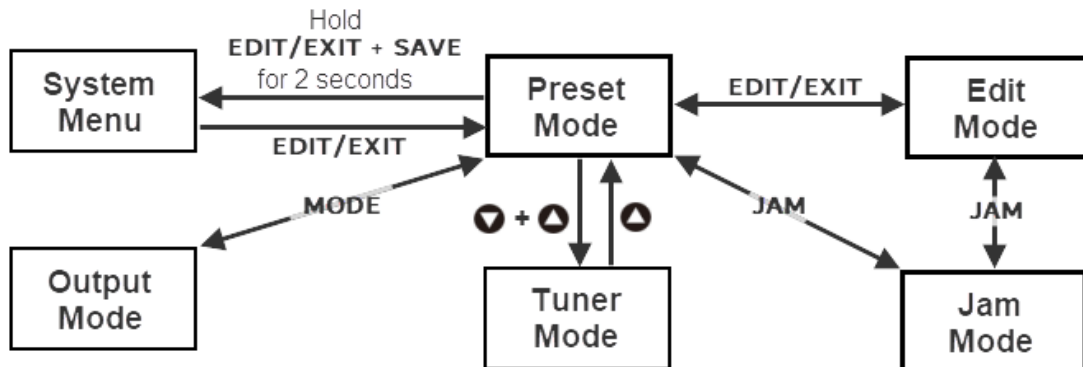
Written and compiled by Danny Bartel. Comments welcome, please use the **NUX MG-300 Group | Discussion & Patch/IR Sharing** Facebook Group. V1.3 supports Firmware V3.10.13.

Some text and images are copied from material provided by NUX. Effects List based on a spreadsheet by Steve Conrad.

The MG-300 has 3 main Modes and a number of other Modes:

- **Preset Mode**
- **Edit Mode**
- **Jam Mode**
- Tuner Mode
- System Menu
- Output Mode

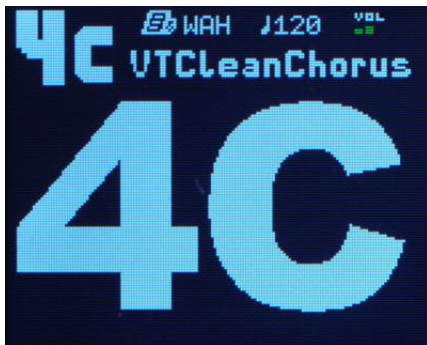
The default mode, active when the unit is turned on, is Preset Mode.



PRESET MODE

The MG-300 includes 36 User presets (1A through 9D) and 36 Factory Presets (1A through 9D). Initially the User presets duplicate the Factory presets, but may be modified or replaced.

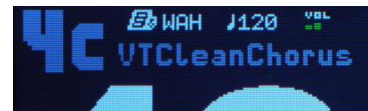
In preset mode, any User or Factory preset can be selected using the footswitches or SELECT knob, stepping forward or backward through the 72 Presets.



When turned on, the Display in Preset Mode is initially in **Preset Name View**. The Preset ID takes up most of the display, allowing it to be easily recognized from a distance.

The top of the display shows the Preset ID, Preset Name, Expression Pedal assignment, tempo (beats per second) and Master Volume indicator.





If a Factory Preset is selected, the ID and Name will be shown in a darker color.



In **Pedalboard View**, the lower part of the display shows a virtual pedal board with representations of the effects and other pedals used in the preset.

Swap between these two views by pressing and holding EDIT/EXIT for 2-3 seconds.

PRESET MODE

The DOWN  and UP  foot switches can be used to cycle backwards or forwards through the presets, one preset at a time, as can the SELECT knob. To quickly change between Banks (1 through 9), use the Group Module buttons ( and ); the Bank number will flash, and pressing either footswitch will select that bank.

While in Preset Mode, the Gain knob controls the Gain setting of the selected Amp (if any) in the current preset, the Level knob controls the Level setting of the selected Amp, and the Master knob controls the Master Volume of the MG-300 (if it is not Locked). Note that the Pedal may also provide another global volume control for the MG-300.

Pressing SAVE in Preset Mode will allow you to save (and rename) the current Preset, setting it as the default Preset when the MG-300 is powered on.

EDIT MODE



When in Preset Mode, press EDIT/EXIT to enter Edit Mode. In this mode you can change the amp, cabinet, mic, effects and all their settings. Any changes will remain in effect, even if you switch to Preset Mode, until a new Preset is loaded (eg Next or Previous Preset). When any other preset is selected, any changes not saved will be lost.










In Edit Mode, there are 3 parts to the display. The top section is the same as in Preset Mode, and shows the current Preset ID and Name, as well as Expression Pedal assignment, Tempo and Master Volume.

The middle section shows a representation of the currently selected component and its settings.

The lower section shows the chain of components, with input on the left and output on the right. Bypassed components show only a label and no icon.



Use the Group Module buttons ( and ) to select a component to edit. P.L is initially offscreen to the right and appears when you move past RVB.

								
CMP	EFX	AMP1 – AMP2 – CAB/MIC	EQ1 – EQ2	NR	MOD	DLY	RVB	P.L

The middle section of the display shows which settings of the selected component are controlled by the GAIN, LEVEL and MASTER knobs. The drive/effect unit (or Bypass) selected for each component can be changed using the SELECT Knob, and a representation of the selected unit is shown in the middle of the display. The selected component can also be bypassed or enabled by pressing both GROUP MODULE buttons at the same time. The AMP component has 2 or 3 sets of settings, depending on the selected Amplifier, and the EQ has 2 sets.

P.L (Preset Level) allows the overall output volume to be tailored for each preset. Turn the GAIN knob to increase or decrease the output level for the current preset. Turn the LEVEL knob to reset the level to the neutral position.




Note that when an Amp is selected, the matching Cabinet is also selected. However the Cabinet may then be selected independently of the Amp.

The MOD and DLY components may each be repositioned to earlier in the effects chain before the AMP.

The complete Effects/Amps list including all settings and controls is at the end of this manual.


Examples

AMP – TWIN RVB (based on 67 Fender Twin Reverb) & TWIN 212 Cabinet

AMP1	AMP2	CAB/MIC
 <p>SELECT → Select Amp GAIN Knob → GAIN LEVEL Knob → BRIGHT On/Off MASTER Knob → LEVEL</p>	 <p>SELECT → Select Amp GAIN Knob → BASS LEVEL Knob → MID MASTER Knob → TREB</p>	 <p>SELECT → Select Cabinet GAIN Knob → Select Mic LEVEL Knob → Mic position</p>

EFX – DIST+ (Based on MXR DISTORTION+)


EFX



SELECT → Select EFX
GAIN Knob → LEVEL
LEVEL Knob → DIST



EFX – PITCH BENDER (Based on Digitech WHAMMY)

EFX



SELECT → Select EFX
GAIN Knob → PITCH
LEVEL Knob → HARMONY (UP/DOWN)

RVB – HALL REVERB (based on Lexicon 224 Hall Reverb)







RVB (Page 1)	RVB (Page 2)
 <p>SELECT → Select RVB GAIN Knob → MIX LEVEL Knob → DECAY MASTER Knob → PAGE (1 or 2)</p>	 <p>SELECT → Select RVB GAIN Knob → PRE DELAY LEVEL Knob → DAMP MASTER Knob → PAGE (1 or 2)</p>

EDIT MODE

Expression Pedal

When the MG-300 is turned on, the Pedal initially provides an output volume control.

Pressing firmly at the toe end (Max) of the Pedal will toggle between volume control and the assigned effect. The current Pedal assignment is shown at the top of the display. The initial assigned effect depends on the current Preset, and will be one of:

-  WAH (Wah Filter)
-  EFX (GAIN/DRIVE of Overdrive or Distortion, PITCH of Pitch Bender)
-  AMP (LEVEL parameter of selected Amp)
-  MOD (Controls the MIX level of the selected Modulation effect)
-  DLY (Controls the MIX level of the selected Delay effect)
-  RVB (Controls the MIX level of the selected Reverb effect).

In Edit Mode the assigned effect can be cycled through these options by pressing the PEDAL button.

Saving Presets

If you select another preset, all unsaved changes to the preset will be lost. To save your changes, press SAVE. The Save screen will be displayed allowing the Preset Name and ID to be changed before saving. If you were editing a Factory Preset, the default save preset will be the User Preset of the same ID. Use the Select knob to change the character highlighted by the red cursor, selecting from the letters, numbers and symbols displayed. Use the GROUP MODULE buttons (◀ and ▶) to move the red cursor left or right through the preset name.



If you want to save in a different Preset location, use the DOWN ▼ and UP ▲ foot switches to select a Preset ID. Then Press SAVE to save your preset. The display will briefly show DATA SAVING. This will also set the selected Preset as the default Preset for when the MG-300 is turned on.

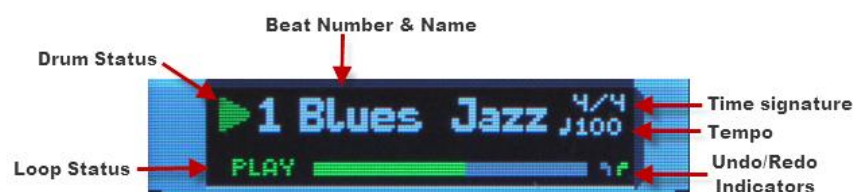
JAM MODE

Jam Mode enables the Drum track and Looping. Press JAM to enter Jam Mode, the JAM button will light up green, and press it again to exit and return to either Preset or Edit Mode, depending which mode the MG-300 was in previously.

The Drum Track and Looper functions may be used independently, but are best used together to take advantage of the Phrase Loop synchronization with Rhythm. The Drum Track will not be recorded by the Looper, and does not appear on the USB out, but will be recorded by any external DAW or recording device if connected via audio interface from the Output socket.









Any Drum and Loop that is active will continue while you switch out of Jam Mode to access other controls, eg to change presets, master volume, etc. The volume of the Drum track and Loop are independent of the Master Volume or footswitch Volume, and can only be changed by the Level knob (Drum Volume) and Master Knob (Loop Volume) while in Jam Mode.



Drums

MG-300 has 8 rhythm styles, each style has 7 different beats. The 9th style is a metronome which provides bars of 1 through 7 beats.

Press  (DRUM ) to start or stop the drum track. The ring around the switch will light green while the drum track is playing. The Drum controls are listed in the table below.

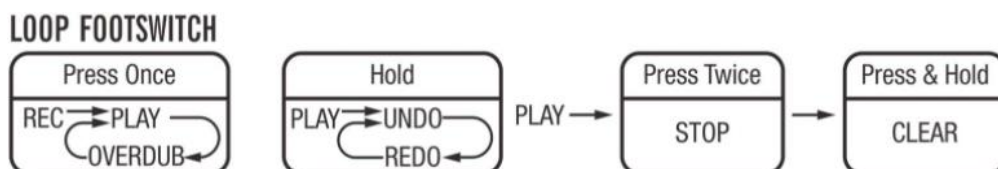
 (DRUM )	Start/Stop the drum track
TAP	Tap to set tempo (Flashes in time with the beat)
GROUP MODULE ( and )	Select Style
SELECT knob	Tempo (40-240 BPM)
GAIN knob	Select Beat (1-7)
LEVEL knob	Drum Volume
MASTER knob	Loop Volume

Drum Styles and Beats

Style/Beat	Sig	Tempo	Style/Beat	Sig	Tempo	Style/Beat	Sig	Tempo
ROCK			COUNTRY			BLUES		
1 STANDARD	2/4	120	1 WALK LINE	4/4	120	1 SLOW BLUES	12/8	87
2 SWING ROCK	6/8	108	2 BLUE GRASS	4/4	220	2 CHICAGO	4/4	120
3 POWER BEAT	4/4	107	3 COUNTRY	4/4	130	3 R&B	4/4	109
4 SMOOTH	4/4	88	4 WALTZ	3/4	120	4 BLUES ROCK	4/4	160
5 MEGA DRIVE	4/4	140	5 TRAIN	4/4	130	5 ROAD TRAIN	6/8	132
6 HARD ROCK	4/4	150	6 CTRY ROCK	4/4	68	6 SHUFFLE	4/4	140
7 BOOGIE	4/4	180	7 SLOWLY	4/4	97	7 SHERRIFF	4/4	100
METAL			FUNK			JAZZ		
1 2X BASS	4/4	140	1 BOUNS	4/4	93	1 BLUES JAZZ	4/4	120
2 CLOSE BEAT	4/4	140	2 EAST COAST	4/4	93	2 CLASSIC 1	4/4	90
3 HEAVY BASS	4/4	130	3 NEW MANN	4/4	104	3 CLASSIC 2	4/4	130
4 FAST ROCK	4/4	220	4 R&B FUNK	4/4	120	4 EASY JAZZ	4/4	110
5 HOLY CASE	4/4	183	5 80 FUNK	2/4	113	5 FAST	4/4	185
6 OPEN HIHAT	4/4	89	6 SOUL	4/4	109	6 WALKING	4/4	180
7 EPIC	4/4	100	7 UNCLE JAM	4/4	125	7 SMOOTH	4/4	160
BALLAD			POP			BEATS		
1 BLUESY	6/8	100	1 BEACH SIDE	4/4	120	1 METRO1	1/4	120
2 GROOVES	4/4	73	2 BIG CITY	4/4	120	2 METRO 2	2/4	120
3 BALD ROCK	4/4	125	3 FUNKY POP	4/4	120	3 METRO3	3/4	120
4 SLOW ROCK	4/4	130	4 MODERN	4/4	120	4 METRO 4	4/4	120
5 TUTORIAL	4/4	89	5 SCHOOL POP	4/4	102	5 METRO 5	5/4	120
6 R&B BALD	4/4	120	6 MOTOWN	4/4	120	6 METRO 6	6/4	120
7 GOSPEL	12/8	90	7 RESISTER	4/4	120	7 METRO 7	7/4	120

Loops

The MG-300 has a 30 second Loop recording function. It is controlled using the LOOP Footswitch ()

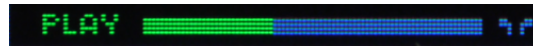


Press LOOP to begin recording. The Loop Status will show "REC" and the bar will indicate how much of the 30 second buffer has been used.



JAM MODE (LOOPS)

Push LOOP again to finish recording. The recorded track will be played in a loop. The LOOP Status will show “PLAY” and the bar will indicate progress through the recorded segment.



The ring around the LOOP switch lights green during playback. It blinks once each time the loop restarts.

During Loop play, press LOOP again to record another track (overdub). The Loop Status will change to “OVDUB”.



After recording a second or more, the Undo Indicator lights green, showing that the last track may be removed by pressing the LOOP switch and holding for 1 second. The Redo Indicator will light, and holding the LOOP switch will restore the removed track. Only the last recorded track can be removed/restored.

Press LOOP twice to stop playback. The Loop Status will show “STOP”. Press loop to restart the loop playback, or press and hold for 1 second to clear the Loop recording. The Loop Status will show “EMPTY”

Note that the Tempo can only be changed while the Loop Status shows EMPTY. It cannot be changed during recording or playback.

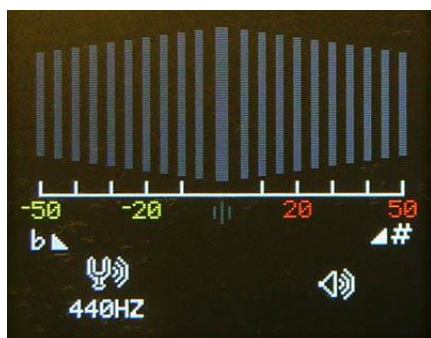
CONTROL SUMMARY FOR THE MAIN MODES

The table below describes the function of each button and knob in the 3 main Modes.

Button/Knob	Preset Mode	Edit Mode	Jam Mode
Edit/Exit	Enter EDIT Mode	Enter PRESET Mode	no effect
Save	Save (enter Name)	Save (enter Name)	no effect
Mode	Enter/Exit "Output Modes" Mode		
Jam	Enter Jam Mode	Enter Jam Mode	Exit Jam Mode
Tap	Set Tempo for FX		Set Tempo for drums
Pedal	no effect	Cycle Pedal Assignment	no effect
Group			
Module	Prev/Next Preset	Prev/Next component	Prev /Next Drum style
Select	Prev/Next Preset	Select drive/effect	Down/Up Tempo
Gain	Gain (amp)	Modify selected component settings (see Effects List)	Select Beat 1-7
Level	Level (amp)		Drum volume
Master	Volume (master)		Loop volume
Down	Prev Preset	Prev Preset	Press: Rec/Play/Overdub Press & Hold: Undo/Redo Press twice: Stop Press twice & Hold: Clear
Up	Next Preset	Next Preset	Drum Play/Stop

TUNER MODE

When in Preset or Edit mode, press both DOWN ▼ and UP ▲ foot switches at the same time to enter Tuner Mode.



While in Tuner Mode, the preset is not applied; only the clean signal from the guitar is sent to the Tuner and the Output. The Output can be muted/unmuted by pressing the left footswitch (DOWN ▼).



The Tuner uses a reference C of 440Hz, but this may be changed up or down between 430Hz and 450Hz using the SELECT knob.

When you play a note, the nearest semitone will be identified, while the meter shows how many cents the note is flat or sharp. To help with viewing at a distance, the meter is green for flat notes, red for sharp notes, and blue when the note is right on.



Press the right footswitch (UP ▲) to exit Tuner Mode and return to the previous Mode (Preset or Edit).

SYSTEM MENU

The System Menu is entered by pressing and holding both the EDIT/EXIT and SAVE buttons for at least 2 seconds.

The System Menu provides 4 options:

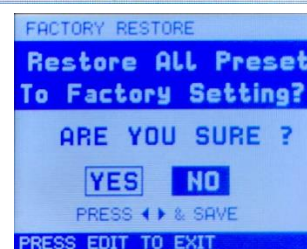
- Factory Reset
- Pedal Calibration
- USB Settings
- Master Setting

Use the Group Module buttons (◀ and ▶) to cycle between these options. Press SAVE to select an option, or EDIT/EXIT to exit the System Menu.



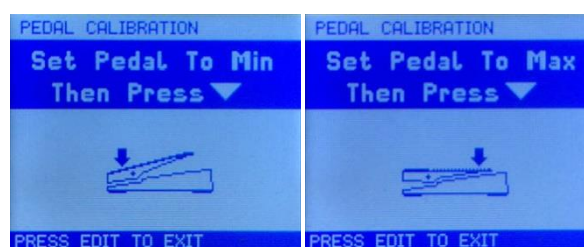
FACTORY: Select this to restore all User Presets to their factory settings. You will be presented with a Prompt. Press ▶ followed by SAVE to perform the reset. Or press EDIT/EXIT to cancel.

It may be wise to backup your presets before performing a reset.



PEDAL: You will be required to calibrate the Pedal after any Firmware upgrade to the MG-300, and may need to do so at other times.

When you select this you will be prompted to move the pedal to its minimum (heel down position) and press the left footswitch (DOWN ▼) then move the pedal to its maximum (toe down) and press the left footswitch (DOWN ▼) again. The display will briefly show "SAVING" before returning to Preset or Edit Mode.



SYSTEM MENU

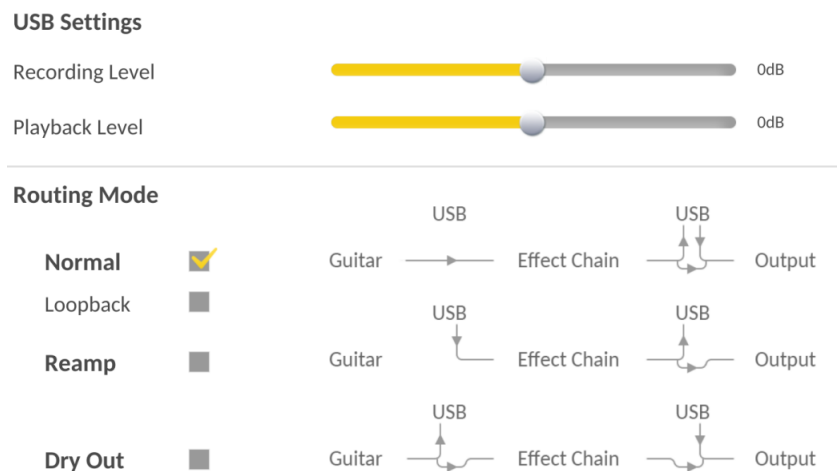
Don't press down on the toe switch (hard press in the toe down position) while calibrating the maximum.

USB: Select this to modify the USB connection to your computer/DAW.

Use the GAIN dial to set the USB Recording Level between -12dB and +12dB.

Use the LEVEL dial to set the USB Playback Level between -12dB and +12dB.

Use the MASTER dial to select between Normal, Reamp and Dry Out Routing Modes. These routing modes are described in the QuickTone software settings as shown below.



When using the QuickTone software, you can also select Loopback, which is not available via the MG-300 System Menu. When **Loopback** is selected, USB In is mixed into the signal chain before being directed to USB Out.

Master:

Master Volume settings reflects the current Master output volume level for the AMP and effects chain (it does not affect the Drum and Loop volume), and sets the default value for the Master Volume when saved. When the MG-300 is turned on the Master Volume will initially be set to the value saved here.



Master lock allows you to lock the Master Volume setting to the value saved here. Turning the Master knob in Preset Mode will no longer change the Master Volume.

These settings do not affect the Foot pedal Volume setting, so the Expression Pedal in volume mode can still be used to control the overall output volume when Master Volume is locked.



OUTPUT MODES

The MG-300 has 5 output modes to support your setup. Use the SELECT knob to change the current mode.

- Studio Direct: In this mode you can connect the MG-300 directly to a mixer, active speakers, or audio interface.
- Combo Front: Connected to the front instrument input of a combo amplifier.
- Combo Rear: Connected to the FX LOOP (Return) on a combo amplifier.
- Stack Front: Connected to the front instrument input of a head amplifier.
- Stack Rear: Connected to the FX LOOP (Return) on a head amplifier.

The Output Mode also includes a global 3-band equalizer. Use the GAIN, LEVEL and MASTER knobs to adjust the Low, Mid and High levels.

Press EDIT/EXIT or MODE to accept any changes and return to Preset or Edit mode.

Although there is no prompt on screen, you can press SAVE to save the current Mode and equalizer settings as the defaults when the unit is powered on. The screen will briefly show “DATA SAVING” before returning to Preset or Edit Mode.



EFFECTS LIST

COMPRESSION		
Select Knob	Gain Knob	Level Knob
Bypass/RED COMP	OUTPUT LEVEL	SENSITIVITY

EFX (DRIVE EFFECTS / PITCH SHIFTER)			
SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob
Bypass			
DIST+	Level	Distortion	
RC BST	Level / Bass *	Gain / Treble*	Page 1/2 *
AC BST	Level / Bass *	Gain / Treble*	Page 1/2 *
DIST UNO	Level	Tone	Drive
T SCREAMER	Level	Tone	Drive
BLUES DRIVE	Level	Tone	Gain
MORNING DRIVE	Level	Tone	Drive
MODERN DIST	Level	Filter	Distortion
RED DIST	Level	Tone	Drive
CRUNCH	Level	Tone	Gain
MUF DIST	Level	Tone	Sustain
PITCH BENDER	Pitch	Harmony (Up/Down)	

* The GAIN and LEVEL Knobs control different functions depending on the Page selection.

EFFECTS LIST

AMP1			
SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob
Bypass / Select AMP	GAIN	Presence/Tone/Cut/Bright *	LEVEL
AMP2			
SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob
Bypass / Select AMP	Bass *	Mid *	Treble*
CAB/MIC			
SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob
Bypass / Select Cabinet	Select Mic	Mic Position	Level (User IR only)

* Where supported by the Amp.

AMP LIST	CABINET LIST
JAZZ CLEAN	JAZZ 212
DELUXE RVB	BLACK 112
BASS MATE	TWEED 410
TWEEDY	TWEED 112
TWIN RVB	TWIN 212
HIWIRE	CUSTOM 412
CALI CRUNCH	CALI 112
CLASS A15	BLUE 112
CLASS A30	BLUE 212
PLEXI 100W	GREEN 412
PLEXI 45	G12L 412
BRIT 800	T75 412
1987X 50W	V30 412
SLO 100	SLO 412
FRIEDMAN	HBE 412
DUAL RECT	RECT 412
DIE VH4	BOTM 412
VIBRO KING	VIBRO 212
BUDDA	EVL 112
MR.Z 38	BUTQ 212
SUPER RVB	SUPER 212
BRIT BLUES	BRIT 212
MATCH D30	DC 212
BRIT 2000	G12M 412
UBER HIGAIN	UBER 412
STAGEMAN (Acoustic)	T 814 (Acoustic)
	M OM28 (Acoustic)
	USER IR CAB

When an AMP is selected, the matching Cabinet will be selected. The Cabinet can then be changed to make a different combination.

EQ (Low)				EQ (High)			
SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob	SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob
Bypass/EQ	100Hz	220Hz	500Hz	Bypass/EQ	1.2kHz	2.6kHz	6.4kHz

Use the Group Module buttons (◀ and ▶) to switch between EQ (Low) and EQ (High). A red indicator on the left or right of the display indicates which is selected.

NR (Noise Reduction)		
Select Knob	Gain Knob	Level Knob
Bypass/NOISE REDUCTION	THRESHOLD	DECAY

MOD (Modulation Effects)			
SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob
Bypass			
CE-1	DEPTH / MIX *	RATE / POSITION *	Page 1/2 *
CLASSIC CHORUS	DEPTH	RATE	POSITION
STEREO CHORUS	DEPTH / MIX *	RATE / POSITION *	Page 1/2 *
VIBRATO	DEPTH	RATE	POSITION
DETUNE	DELAY LEFT OUT / MIX *	DELAY RIGHT OUT / POSITION *	Page 1/2 *
FLANGE	DEPTH / FEEDBACK / POSITION	RATE / WIDTH / -	Page 1/2/3 *
PH 90	RATE	POSITION	POSITION
PHASE 100	MIX	RATE	POSITION
CHORUS+	DEPTH / MIX / POSITION *	RATE / (Chorus/PitchMod/Flange) / - *	Page 1/2/3 *
U-VIBE	DEPTH / VOL / POSITION *	SPEED / (Chorus/Vibrato) / - *	Page 1/2/3 *
TREM	DEPTH	RATE	POSITION
RTY SPK	BALANCE	SPEED	POSITION
HARMONY	MOD (Maj/min) / HARM ($\pm 3/4/5/6/8$) / POSITION *	KEY / MIX / - *	Page 1/2/3 *

* The GAIN and LEVEL Knobs control different functions depending on the Page selection.
POSITION is Pre/Post AMP.

DLY (Delay Effects)			
SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob
Bypass			
ANALOG DELAY	TIME / MIX / POSITION	FEEDBACK / SUBDIVISION / -	Page (1 / 2 / 3)
DIGI DELAY	TIME / MIX / POSITION	FEEDBACK / SUBDIVISION / -	Page (1 / 2 / 3)
MODULATE	TIME / MIX / SUBDIVISION	FEEDBACK / MOD / POSITION	Page (1 / 2 / 3)
TAPE ECHO	TIME / MIX / POSITION	FEEDBACK / SUBDIVISION / -	Page (1 / 2 / 3)
REVERSE	TIME / MIX / POSITION	FEEDBACK / SUBDIVISION / -	Page (1 / 2 / 3)
PAN	TIME / MIX / POSITION	FEEDBACK / SUBDIVISION / -	Page (1 / 2 / 3)

* The GAIN and LEVEL Knobs control different functions depending on the Page selection.
POSITION is Pre/Post AMP. SUBDIVISION is Dotted Sixteenth, Sixteenth Triplet, Sixteenth, Eighth Triplet, Dotted Eighth, Eighth, Quarter Triplet, or Quarter.

RVB (Reverb Effects)			
SELECT Knob	GAIN Knob	LEVEL Knob	MASTER Knob
Bypass			
ROOM	MIX	TONE	DECAY
HALL	MIX / PRE DELAY *	DECAY / DAMP *	Page (1 / 2) *
PLATE	MIX	DECAY	
SPRING	MIX	DECAY	

* The GAIN and LEVEL Knobs control different functions depending on the Page selection.