

# GLXI200H

# Three-channel Guitar Amplifier with DSP & Channel Tracking



# **User's Guide**

## CRATE GLXI200H Guitar Amplifier with DSP & Channel Tracking

#### **Congratulations!**

You are now the proud owner of the Crate GLX1200H three-channel guitar amplifier. This rugged amp head combines outstanding features with serious clean and distorted sounds. An easy to operate DSP section lets you dial in a variety of digital effects including reverbs, delays, octave and wah-wahs – with a separate level control. Crate's unique **Channel Tracking** feature means that as you switch between channels and gains, the DSP automatically "tracks" the changes - your DSP settings for each channel are stored and automatically recalled! The supplied three-button footswitch allows you to select between the three channels and turn the DSP on and off by "remote control." The electronic tuner on the front panel lets you get tuned and stay in tune any time the amplifier is on.

Like all Crate products, your GLX amplifier is designed by musicians, and built using only the best components. Extensive testing confirms that this amplifier is the absolute best it can be.

In order to get the most out of your new amplifier, we strongly urge you to read the information contained in this manual before you begin playing.

And thank you for choosing



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#### DO NOT OPERATE NEAR ANY HEAT SOURCE AND DO NOT BLOCK ANY VENTILATION OPENINGS ON THIS APPARATUS. FOR PROPER OPERATION, THIS UNIT REQUIRES 3" (75mm) OF WELL VENTILATED SPACE AROUND HEATSINKS AND OTHER AIR FLOW PROVISIONS IN THE CABINET.

- DO NOT USE THIS APPARATUS NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS.
- CLEAN ONLY WITH LINT-FREE DAMP CLOTH AND DO NOT USE CLEANING AGENTS.
- ONLY CONNECT POWER CORD TO A POLARIZED, SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND FREQUENCY REQUIREMENTS STATED ON THE REAR PANEL OF THE APPARATUS.
- PROTECT THE POWER CORD FROM DAMAGE DUE TO BEING WALKED ON, PINCHED, OR STRAINED.
- UNPLUG THE APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.
- ONLY USE ATTACHMENTS, ACCESSORIES, STANDS, OR BRACKETS SPECIFIED BY THE MANUFACTURER FOR SAFE OPERATION AND TO AVOID INJURY.



- WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.
- SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL.
- 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 PRO-TECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.

EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBÔLES GRAPHIQUES:



"DANGEROUS VOLTAGE" "VOLTAJE PELIGROSO" "DANGER HAUTE TENSION"



"IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL" "ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES." "REFERREZ-VOUS AU MANUAL D'UTILISATION"



#### The Digital Signal Processor:

Crate's Digital Signal Processing offers 16 exciting digital effects, accessible through the DSP Mode control. The effects are described below.

	small room reverb		
2	medium room reverb		
3	large room reverb		
4	concert hall reverb		
5	short slapback w/small room reverb		
6	medium delay w/plate reverb		
7	long delay w/large room reverb		
8	slow deep flange w/reverb		
9	flange w/reverb & delay		
10	slow tremolo chorus w/reverb		
- 11	chorus w/reverb & delay		
12	rotating speaker		
13	octave divider		
14	touch wah		
15	inverse wah		
16	doubler		



Use the DSP Mode control to access any of the 16 built-in digital effects. Use the Level control to mix in the desired amount of each effect.

#### Channel Tracking:

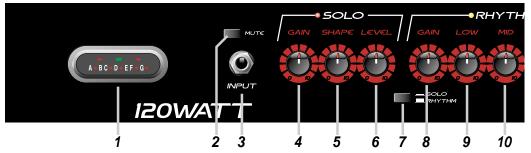
Your Crate GLX1200H amplifier gives you the power of **Channel Tracking!** Once you select a DSP setting for each channel, Channel Tracking recalls those DSP settings automatically – without changing the DSP controls! For example:

- Select the Clean channel. Set the DSP Mode to "8" (slow deep flange w/reverb)
- Select the Overdrive channel, Gain 1. Set the DSP Mode to "10" (*slow tremolo chorus w/reverb*) (the setting for the Clean channel is now saved to memory)
- Select the Overdrive channel, Gain 2. Set the DSP Mode to "14" (touch wah) (the setting for the Overdrive channel, Gain 1 is now saved to memory)
- Reselect the Clean channel (the setting for the Overdrive channel, Gain 2 is now saved to memory)

Now when you go back to the Clean channel, even though the DSP Mode was last set to Touch Wah, Channel Tracking automatically recalls the last setting for the Clean channel – in this example, Slow Flange with Reverb. Change to the Overdrive channel, Gain 1, and Slow Tremolo Chorus w/Reverb is recalled. Change to the Overdrive channel, Gain 2, and Touch Wah is recalled. That's the power of **Channel Tracking**!

(Note: Even when the power is turned off, Channel Tracking still retains the settings - until you change them!)

#### The Front Panel:



**1. ELECTRONIC TUNER:** The electronic tuner is active whenever the amplifier is turned on, providing constant, "real-time" tuning. The bottom row of LEDs indicate which note (string) is being tuned. The top row of LEDs provides directional queues to facilitate quick and precise tuning of your instrument. The indicated note (string) is properly tuned when only the center LED is illuminated.

**2: MUTE:** This switch, when depressed, silences the input signal. The Tuner (#1) remains active when this switch is depressed.

**3. INPUT:** Use this 1/4" jack to connect your guitar to the amplifier by means of a shielded instrument cable.

SOLO CHANNEL: A high gain channel giving you sounds with serious overdrive.

4: GAIN: Use this control to adjust the amount of distortion for the Solo channel.

**5: SHAPE:** Use this control to "dial in" the tone for the Solo channel. Rotating the control counterclockwise enhances the mid frequencies, while rotating the control clockwise enhances the low and high frequencies.

6: LEVEL: Use this control to adjust the output level of the Solo channel.

**7: SOLO/RHYTHM SELECT:** Use this switch to select the Solo or Rhythm channel. When this switch is depressed, the Solo channel is selected. With the switch in the out position, the Rhythm channel is selected. This switch is active only when the Solo-Rhythm/Clean Select switch (#13) is depressed.

8: GAIN: Use this control to adjust the amount of distortion for the Rhythm channel.

9: LOW: Use this control to adjust the low frequency level of the Rhythm channel.

10: MID: Use this control to adjust the midrange frequency level of the Rhythm channel.

**110: HIGH:** Use this control to adjust the high frequency level of the Rhythm channel.

12: LEVEL: Use this control to adjust the output level of the Rhythm channel.

**13: SOLO-RHYTHM/CLEAN SELECT:** Use this switch to select the Clean channel or the Solo and Rhythm channels. With the switch in the out position, the Clean channel is selected. When the switch is depressed, either the Solo or Rhythm channel is selected, depending on the setting of the Solo/Rhythm Select switch (#7).

CLEAN CHANNEL: A normal gain channel designed to give you crystal clean sounds.

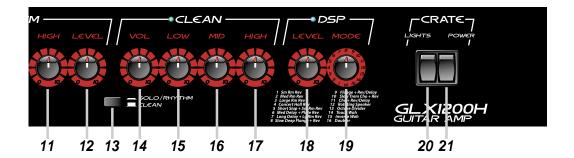
14: VOL: Use this control to adjust the output level of the Clean channel.

15: LOW: Use this control to adjust the low frequency level of the Clean channel.

**16: MID:** Use this control to adjust the midrange frequency level of the Clean channel.

17: HIGH: Use this control to adjust the high frequency level of the Clean channel.

**18: DSP LEVEL:** Use this control to adjust the amount of digital effect: in its fully counterclockwise position the signal will be "dry" (without any effect). As you rotate the control clockwise the amount of effect increases.



**19: DSP MODE:** Use this control to select one of the 16 built-in digital effects. A listing of the effects is shown on page 3 of this manual.

**20: LIGHTS:** Use this switch to turn the front panel illumination on (top of the switch depressed) and off (bottom of the switch depressed). This switch is only operative when the Power switch (#21) is at the on position.

**21: POWER:** Use this switch to turn the amplifier on (top of the switch depressed) and off (bottom of the switch depressed).

#### The Rear Panel:



**22: FUSE:** The fuse protects the amplifier from damages caused by a faulty AC power source and/or other problems. If the fuse opens, replace it ONLY with the same size and type. If fuses continue to fail, check the AC source – if the source is okay, contact your Crate dealer for service information.

**23:** AC LINE CORD: This grounded power cord is to be plugged into a grounded power outlet, wired to current electrical codes and compatible with the voltage, power, and frequency requirements stated on the rear panel. Do not attempt to defeat the safety ground connection.

24: CLEAN/SOLO/RHYTHM FOOTSWITCH JACK: Use this jack to connect the 1/4" stereo plug on the footswitch cable to the three-button footswitch (supplied). This allows you to remotely switch between the Clean and Distortion channels and between the Solo and the Rhythm channels.

**25: DSP FOOTSWITCH JACK:** Use this jack to connect the 1/4" mono plug on the footswitch cable to the three-button footswitch (supplied). This allows you to remotely turn the DSP function on and off.

**26. SPEAKER OUTPUT:** Use this jack to connect the amplifier to a speaker cabinet (or multiple cabinets). The minimum total impedance of the speaker cabinet(s) is 4 ohms.

27. EFFECTS RETURN: Use this jack to connect the signal from an external effects device to the amplifier.

**28. EFFECTS SEND:** Use this jack to connect the signal from the amplifier to an external effects device for processing.

#### **Suggested Settings:**

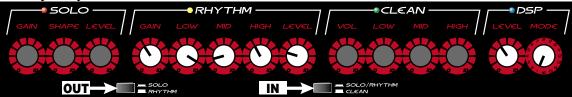
Sweet 'n Clean:



#### Just a 'Lil Nasty:



#### **Politely Gritty:**



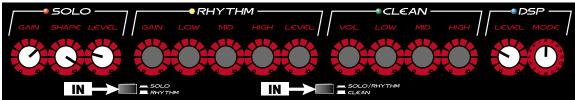
#### Octave Down 'n Dirty:



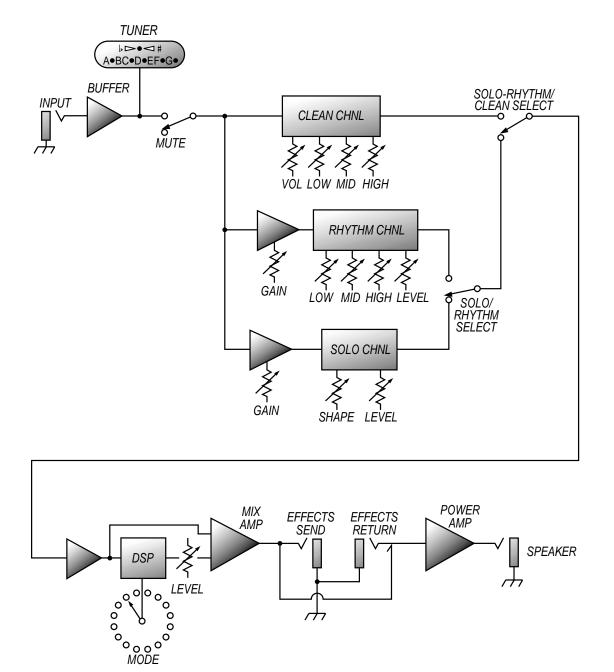
#### Wah Full House:



#### Mean & Obscene:



#### System Block Diagram:



### CRATE GLXI200H Guitar Amplifier with DSP & Channel Tracking

Output Power Rating		120W RMS @5% THD, 4Ω, 120 VAC
Input Impedance		470kΩ
Total System Gain	Solo Ch	110dB, all controls @10
	Rhythm Ch	88dB, all controls @10
	Clean Ch	58dB, all controls @10
Maximum Input Signal	Accepted	7 volts peak-to-peak
Solo Channel	Shape Control	Proprietary Circuit
Rhythm Channel	Low Control	20dB range @ 80Hz
	Mid Control	15dB range @ 1kHz
	High Control	20dB range @ 10kHz
Clean Channel	Low Control	36dB range @ 80Hz
	Mid Control	15dB range @ 800Hz
	High Control	40dB range @ 10kHz
Power Requirements		120 VAC, 60Hz, 95VA; 100/115VAC, 50/60Hz, 95VA;
		100/115VAC, 50/60Hz, 95VA
Size and Weight		9" H x 25-7/8" W x 11" D, 25 lbs.

#### **GLX1200H TECHNICAL SPECIFICATIONS:**

The GLX1200H is covered with a durable Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this manual are subject to change without notice.

Declaration Of Conformity #34, Effective 01-01-2001				
Manufacturer's Name: Production Facility: Production Facility: Shipping Facility: Office Facility:	SLM Electronics 11880 Borman Drive, St. Louis, MO 63146, USA 700 Hwy 202 W, Yellville, AR 72687, USA 1400 Ferguson Ave., St. Louis, MO 63133, USA 1400 Ferguson Ave., St. Louis, MO 63133, USA			
Product Type:	Audio Amplifier			
Complies with Standards: LVD: Safety: EMC:	92/31/EEC, 93/68/EEC, & 73/23/EWG EN60065 EN55013, EN55020, EN55022, EN61000-3-2, & EN61000-3-3			
Supplementary information provided by: SLM Electronics - R & D Engineering 1901 Congressional Drive, St Louis, MO 63146, USA Tel.: 314-569-0141, Fax: 314-569-0175				



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