

# **CRATE**

## **G40CXL STEREO CHORUS AMPLIFIER**



### **OWNER'S MANUAL**

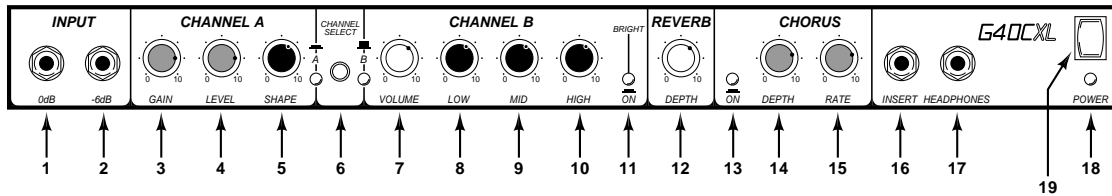
We would like to take this opportunity to thank you for selecting a Crate product, and to tell you of our commitment to the design and manufacture of only the finest musical instrument amplification equipment; built for you, the musician.

You have purchased one of the most innovative sound amplification devices available today. Your Crate amplifier gives you more performance features than ever before; features that you, the musician, have asked for.

Your Crate amplifier is proudly Made in America. Only the finest available components and materials are used in the manufacture of each amplifier.

All Crate amplifiers are subject to seven or more inspection and testing steps to assure you of a high quality product. The final test for each amp is conducted by a trained musician with the instrument the amp was designed for. Any unit that does not meet the standards of his discriminating ear will not be passed.

Since all Crate products are designed, developed and manufactured through the cooperative efforts of engineers and professional musicians, the end result is a product that responds to the musician's audio requirements, and a product that will serve your needs for years to come.



## FRONT PANEL – INPUT SECTION

1. **0dB INPUT JACK:** This input accepts a standard 1/4" phone plug and is suitable for any low to line level signal source such as an electric guitar.
2. **-6dB INPUT JACK:** This input jack also accepts a standard 1/4" jack but is padded 6 dB for hotter inputs such as tape decks or guitars with hot pickups. If both jacks are used, this input is not padded and will be equal to the 0 dB input jack.

## CHANNEL A CONTROLS:

3. **GAIN CONTROL:** This control sets the amount of gain for Channel A and is used to vary the amount of distortion. Minimal distortion is achieved with this control rotated counter-clockwise. A fully clockwise setting creates maximum distortion.
4. **LEVEL CONTROL:** The overall volume of Channel A is controlled with this knob and should be used in conjunction with the Gain Control (3).
5. **SHAPE CONTROL:** This is the overall tone control for Channel A. When turned to the left, a setting with heavy emphasis on mid range is achieved. When rotated to the right, the amp creates a "fat" sound with extra boost on lows and highs.
6. **CHANNEL SELECT SWITCH:** This switch is used to select between Channel A and Channel B. When using the optional footswitch (23), this switch is inoperative.

## CHANNEL B CONTROLS:

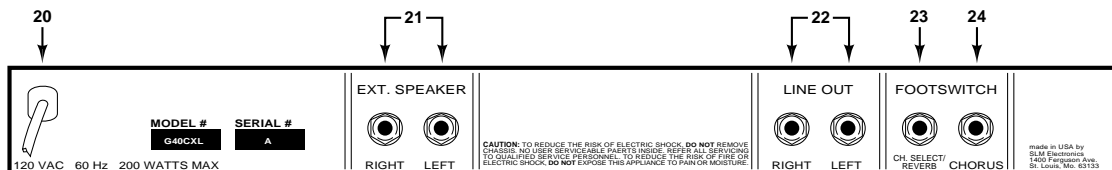
7. **VOLUME CONTROL:** This control sets the overall listening level of Channel B. This control is independent of any setting made in Channel A.
8. **LOW CONTROL (Bass):** The desired amount of "Bottom" or "Warmth" may be increased or decreased with this knob.
9. **MID CONTROL (Mid):** The tonal qualities of the midrange are very important to a good guitar sound. This knob can "thin-out" the sound when turned down, or "fatten-up" the sound when larger amounts are used.
10. **HIGH CONTROL (Treble):** This knob will affect the upper harmonic range of the guitar. Boosting it sharpens or adds crispness to the sound. For additional effect, use this control in conjunction with the Bright Switch (11).
11. **BRIGHT SWITCH:** This switch affects the brilliance of the guitar's sound by adding additional "bite" or sharpness. This switch affects both Channel A and B.
12. **DEPTH CONTROL (REVERB):** This control allows the player to alter the apparent acoustical qualities of a room. The sound can be altered from very "Flat" or "Dry" when the control is turned off, to that of a concert hall when used in larger amounts.

## CHORUS SECTION

13. **CHORUS SWITCH:** This switch turns on the stereo chorus when depressed. It must be in this position to enable the chorus footswitch (24).

- 14. DEPTH:** This control sets the amount or depth of the chorus effect.
- 15. RATE:** This control sets the sweep speed of the chorus effect. Together, these two chorus controls determine the overall chorus effect from a slow, "phasing" sound to a lively, shimmering effect and beyond. The stereo nature of the G40CXL gives a "three-dimensional" quality to the unit making it sound full and "alive."
- 16. INSERT JACK:** This stereo 1/4" jack is a line out (tip)/line in (ring) jack.
- 17. HEADPHONES JACK:** Standard stereo headphones may be plugged into this jack. This disconnects all speakers from the unit, allowing private listening.
- 18. ON/OFF LED INDICATOR:** The amplifier is on when this LED is lit.
- 19. ON/OFF SWITCH:** This is a two-position switch; the down position will turn the unit on, while the up position will turn the unit off.

## REAR PANEL











- 20. POWER CORD:** Your G40CXL is equipped with a heavy-duty grounded three-wire power cord. Be sure this cord is properly plugged into a safely wired grounded 120 volt, 60 Hz AC power outlet before use. (If your G40CXL was purchased outside the United States, refer to the rear panel for power ratings.) For your safety, never attempt to defeat the ground connection on this cord.
- 21. EXTERNAL SPEAKER JACKS:** These jacks are for additional speaker hookup. Any number of speakers may be added since these jacks are in series with the internal speakers.
- 22. LINE OUT JACKS:** These jacks are used to connect the unit to additional amplifiers or to connect the amp to a tape recorder or mixing board. Using both the left and right outputs will preserve the proper stereo signal. External speakers cannot be connected to these jacks.
- 23. CHANNEL/REVERB FOOTSWITCH JACK:** This jack is to be used with the Channel Selector/Reverb footswitch.
- 24. CHORUS FOOTSWITCH JACK:** This jack is to be used with any standard footswitch to control the chorus. The Chorus Switch (13) must be depressed to enable this footswitch.

# CRATE® G40CXL Amplifier

## G40CXL TECHNICAL SPECIFICATIONS:

Output Power Rating	40 watts RMS @ 5% THD 4 ohm load – 120 VAC line
Speaker Size and Rating	G40CXL: Custom Design 8" Power Handling 20 watts RMS G40CXLs: Celestion G8L-35
Bass Control	30dB range @ 100 Hz
Mid Control	12dB range @ 1 kHz
Treble Control	26dB range @ 5 kHz
Bright Switch	8dB boost @ 6 kHz
Input Impedance	220k ohms/"0dB" input 44k ohms/"-6dB" input
Maximum Input Signal Level Accepted	4 volts peak to peak/"0dB" input 8 volts peak to peak/"-6dB" input
Total System Gain	Channel A: 88dB @ 1 kHz (Shape @ 0, Bright Switch off) Channel B: 58dB @ 1 kHz (Controls @ 10, Bright Switch off)
Signal To Noise Ratio	Channel A: 51dB – with Gain @10 Shape @0 Level @10 Channel B: 62dB – with all controls @10, Bright Switch off
Input Power Requirements	120 VAC, 60Hz, 200 watts max
Fuse Rating and Type	2 amp Slo-Blo, 250V internal
Cabinet Size and Weight	15-1/2" H x 20-3/4" W x 8-3/4" D, 30 lbs.

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

 <b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN		 <b>ATTENTION</b> RISQUE D'ELECTROCUTION NE PAS OUVRIR		 <b>VORSICHT</b> ELEKTRISCHE SCHLAGEGFAHR NICHT OFFENEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		ATTENTION: POUR REDUIRE D'ELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE NEST REPRABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.		VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLAGEGFAHR NICHT DEN DECKEL ABENHMEN. INTERNE TEILE KÖNNEN NICHT VOM BENUTZER GEWARTET WERDEN. DIE WARTUNG IS QUALIFIZIERTEM WARTUNGSPERSONAL ZU ÜBERLASSEN.	
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:					
<b>CAUTION:</b> 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 PROPERLY GROUNDED AC POWER OUTLET.					
<b>WARNING:</b> TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.					
<b>CAUTION:</b> NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.					
<b>CAUTION:</b> 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" "UNBEDINGT IN DER BEDIENUNGSANLEITUNG NACHSCHLAGEN"		

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