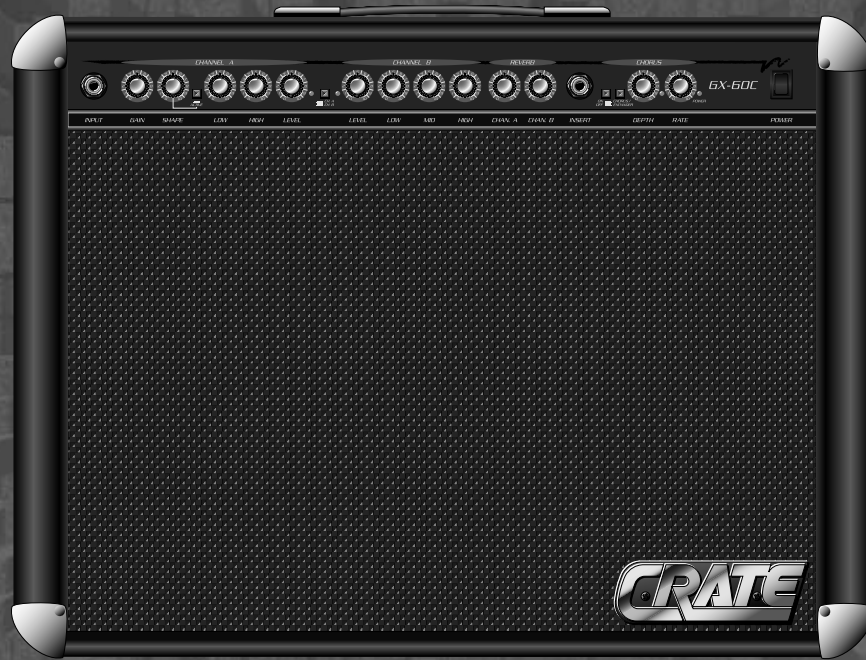


CRATE®

GX-60C AMPLIFIER



OWNER'S MANUAL

Congratulations!

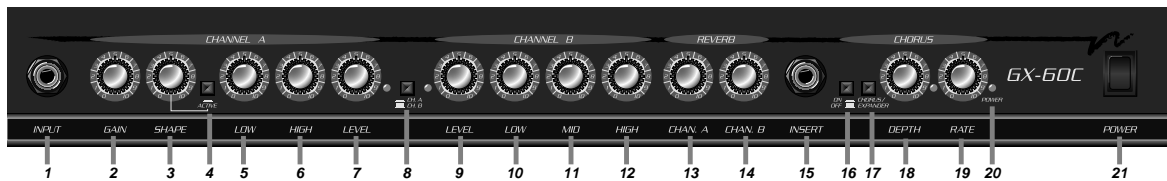
You are now the proud owner of the versatile and powerful Crate GX-60C amplifier with Stereo Chorus. With two flexible channels, Crate's patented "Flex Wave" distortion circuitry, a Stereo Effects Loop and three footswitchable functions, the GX-60C offers you more flexibility and performance than any amplifier in its class.

Like all Crate products, your GX-60C is Musician Made in the U.S.A., using only the best components. Extensive testing at the hands (and ears) of skilled technicians and musicians insures you 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 go over the information contained in this manual before you begin playing.

And ***thank you*** for choosing **CRATE®**

CRATE[®] GX-60C Amplifier



FRONT PANEL:

1: INPUT: Connect your guitar here using a shielded instrument cable.

CHANNEL A: A high gain channel giving you sounds from a slight edge to serious overdrive.

2: GAIN: Sets the amount of compression and distortion from the amplifier. At far left, the sound will have a thick compressed quality. As you turn the control to the right the amount of distortion increases. Use this along with the Shape and Level controls (#3 and 7) to create a wide variety of sounds.

3: SHAPE: Rotate the Shape control until you find the sound you're looking for. Turning the control towards the left enhances the mid frequencies; turning it to the right enhances the low and high frequencies. Controlled by the Shape Active switch (#4).

4: SHAPE ACTIVE: Boosts the gain of Channel A and activates the Shape control (#3). A footswitch (see #29, rear panel) overrides this switch.

5: LOW: Adjusts the low frequency output level: to the left reduces the low frequency output; to the right increases it. This control allows a range of 10dB at 80Hz.

6: HIGH: Adjusts the high frequency output level: to the left reduces the high frequency output, to the right increases it. This control allows a range of 10dB at 7kHz.

7: LEVEL: Sets the output volume level from Channel A: in the far-left position there is no output; turning the control to the right increases the output. Use this control along with the Gain and Shape controls (#2 & 3) to create a wide variety of sounds.

8: CHANNEL SELECT: When this switch is pressed in Channel A is engaged. Channel B is selected when this switch is out. A footswitch (see #29, rear panel) overrides this switch. The adjacent LEDs indicate which channel is selected.

CHANNEL B: A normal gain channel designed to give you crystal clear sounds.

9: LEVEL: Sets the output volume level from Channel B: in the far-left position there is no output; turning the control to the right increases the output level.

10: LOW: Adjusts the low frequency output level: to the left reduces the low frequency output; to the right increases it. This control allows a range of 20dB at 100Hz.

11: MID: Adjusts the mid frequency output level: to the left reduces the midrange output; turning it to the right increases it. This control allows a range of 14dB at 700Hz.

12: HIGH: Adjusts the high frequency output level: to the left reduces the high frequency output; to the right increases it. This control allows a range of 27dB at 10kHz.

13: REVERB A: Adjust the amount of reverb for Channel A with this control: in the full-left position the output signal is "dry" (no reverb); rotating the control to the right increases the amount of effect.

14: REVERB B: Adjust the amount of reverb for Channel B with this control: in the full-left position the output signal is "dry" (no reverb); rotating the control to the right increases the amount of effect.

15: INSERT LOOP: Connect an external effects device via this jack. Use a stereo 1/4" male Y-cord: ring = send, tip = return, sleeve = ground. See the illustration on the panel to the right for more information.

16: CHORUS ON/OFF: Turn the Chorus/Expander on and off with this switch. When the switch is pressed in, the Chorus/Expander is active. A footswitch (see #28, rear panel) overrides this switch.

17: CHORUS/EXPANDER: Select between the built-in stereo chorus or the "expander" circuit with this switch. When the switch is pressed in, the chorus section is selected. (The yellow LED next to the Depth control, #18, will glow when the Chorus is selected.) When the switch is out, the amplifier's expander circuit is activated, giving the sound a wide-open, "spatial" effect. In order for either effect to be active, the Chorus On/Off switch (#16) must be pressed in.

18: DEPTH: Set the intensity of the chorus effect with this control: in the far left position there will be almost no chorus; as you rotate the control to the right the amount of effect increases.

19: RATE: Set the speed of the chorus effect with this control: to the left for slow, smooth "phasing" sounds, to the right for faster "vibrato" sounds.

20: POWER LED: Glows when the amplifier is turned on.

21: POWER SWITCH: Turns the amplifier ON in the up position, off in the down position. The POWER LED (#20) works with this switch as a visual indicator.

CRATE[®] GX-60C Amplifier



REAR PANEL:

22: AC LINE IN: This heavy-duty, grounded, three-wire power cord is to be plugged into ONLY a safely-wired, grounded 120 volt, 60 cycle AC power outlet. DO NOT attempt to defeat the ground connection of this cable! If your GX-60C was purchased outside of the United States, see the unit's rear panel for its power rating and follow the above guidelines.

23,24: EXT. SPEAKERS: You may connect the outputs of the GX-60C to your external speakers using these jacks. When connecting speakers use a matched pair; that is, two speakers with the same impedance to insure optimum performance from the amplifier. Since these are series connections to the internal speakers there is no chance of damaging the amplifier with too small of an impedance load. The left speaker jack (#24) carries the chorus signal (when the chorus is on) while the right jack (#23) is "dry" (without the chorus effect).

WARNING: DO NOT attempt to use headphones in the Speaker jacks! Permanent hearing damage could result!

25: STEREO HEADPHONES: Plug a pair of stereo headphones here for private listening. When this jack is used the internal speakers and the external speaker jacks are disconnected.

26,27: STEREO EFFECTS LOOP: Connect the Send jack (#27) to the input of your stereo effects device to send a post-EQ, pre-chorus, pre-amplified signal for processing. Connect the outputs of the effects device to the effects Return jack (#26) to return the processed signal to the amplifier. These jacks are stereo 1/4" phone jacks, wired as follows:

Ring = right channel
Tip = left channel
Sleeve = ground

If your effects device has stereo input and output jacks, use a pair of three-conductor stereo patch cords to connect to it. If the device has separate left and right jacks, use a pair of one-stereo-male to two-mono-female Y-adapters to make the connections, as shown to the right.

28: CHORUS FOOTSWITCH: Plug a single footswitch (such as the Crate CFP-1 or the "mono" plug of the Crate CFP-3) here to control the Chorus/Expander. The footswitch overrides the front panel on/off switch (#16); selection between the Chorus and the Expander is still controlled by the front panel selector switch (#17).

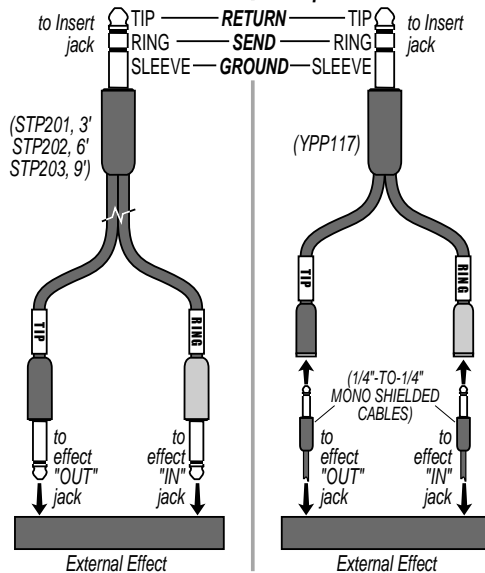
29: CHANNEL/SHAPE FOOTSWITCH: Plug a dual footswitch (such as the Crate CFP-2 or the "stereo" plug of the Crate CFP-3) here to control Channel Selection and the Shape Active button. The footswitch overrides the front panel switches (#4 and 8) and is wired as follows:

Ring = Shape
Tip = Channels
Sleeve = ground

Connecting to the Insert jack:

The Insert jack (#15) lets you patch external effects into the amplifier just prior to its power amp stage. Use Crate's CYC6MS stereo-to-mono Y-cord or an adapter such as Crate's CA11Y and 2 1/4" mono signal cables to connect to the effect as shown below.

Stereo-to-mono Y-cord: | Y-adapter and 2 cables:








CRATE® GX-60C Amplifier

GX-60C TECHNICAL SPECIFICATIONS

Output Power Rating	30 watts per channel RMS @ 5% THD 4 ohms	
Speaker Size and Rating	Crate Special Design 10" 50 watt (2)	
Input Impedance	470k ohms	
Maximum Input Signal Level Accepted	2.5 volts, peak-to-peak	
Total System Gain	Lead Channel: 107dB all controls @ 10, Shape active; 87dB Shape inactive Rhythm Channel: 56dB all controls @ 10, Bright off	
Channel A:	Low Control	10dB Range @ 80Hz
	Shape Control	Proprietary Circuit
	High Control	10dB Range @ 7kHz
Channel B:	Low Control	20dB Range @ 100Hz
	Mid Control	14dB Range @ 700Hz
	High Control	27dB Range @ 10kHz
Input Power Requirements	120 VAC, 60Hz, 80VA 100/115VAC, 50/60Hz, 80VA 230VAC, 50/60Hz, 80VA	
Cabinet Size and Weight	18-1/4" H x 23" W x 10-1/2" D, 55 lbs.	

The GX-60C is covered with a durable black Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which could damage the finish.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	 ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR	 VORSICHT ELEKTRISCHE SCHLAGGEFAHR 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 N'EST REPRABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.	VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLAGGEFAHR NICHT DEN DECKEL ABENHMEN. INTERNE TEILE KONNEN NICHT VOM BENUTZER GEWARTET WERDEN. DIE WARTUNG IS QUALIFIZIERTEM WARTUNGSPERSONAL ZU UBERLASSEN.
<p>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:</p> <p>CAUTION: 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.</p> <p>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.</p> <p>CAUTION: NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p> <p>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.</p>		
EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBOLES GRAPHIQUES:	 = "DANGEROUS VOLTAGE" "VOLTAJE PELIGROSO" "DANGER HAUTE TENSION" "GEFAHLICHE SPANNUNG"	 = "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" "UNBEDINGT IN DER BETRIEBUNGSANLEITUNG NACHSCHLAGEN"

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.



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