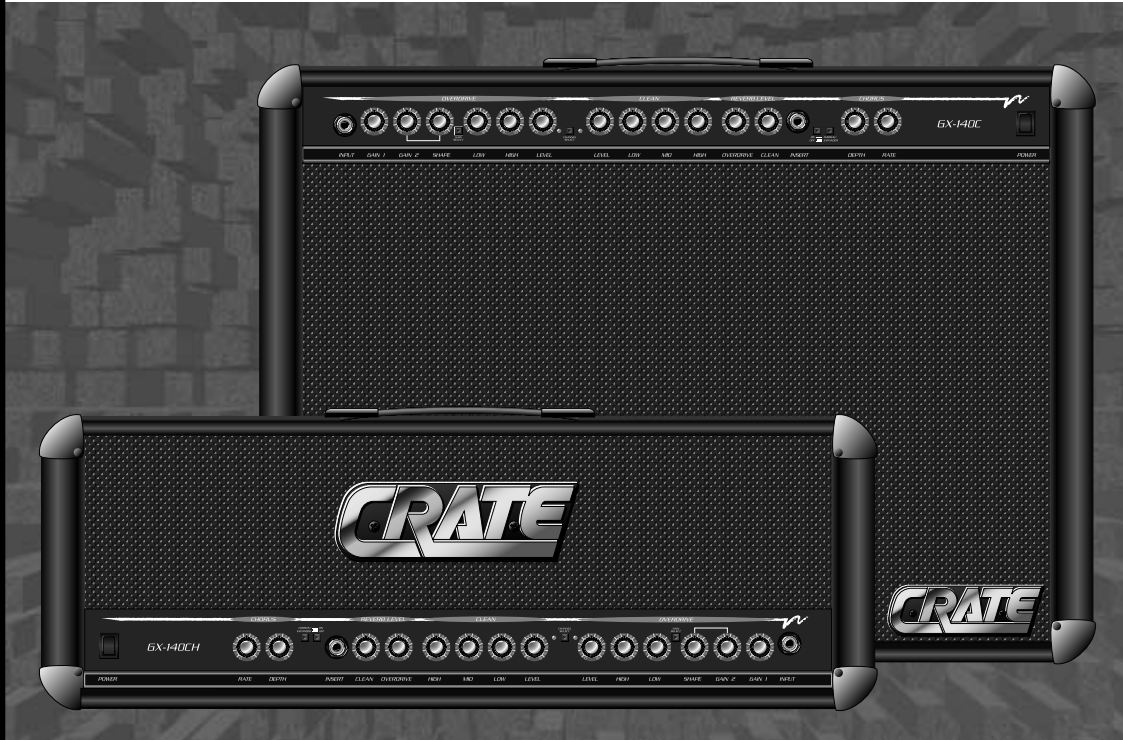


# CRATE®

## *GX-140C / CH* *STEREO CHORUS AMPLIFIER*



## **OWNER'S MANUAL**

### **Congratulations!**

You are now the proud owner of the versatile and powerful Crate GX-140C Combo Amplifier / GX-140CH Amp Head with Stereo Chorus. With two flexible channels, Crate's patented "Flex Wave" distortion circuitry, a Stereo Effects Loop and three footswitchable functions, the GX-140C/CH offers you more flexibility and performance than any amplifier in its class.

Like all Crate products, your GX-140C/CH 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<sup>®</sup> GX-140C/CH Amplifier



## FRONT PANEL:

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

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

**2: GAIN 1:** When active, 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. Gain 1 produces less intense distortion than Gain 2 and is active only when the Gain Select switch (#5) is **out**.

**3: GAIN 2:** When active, 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. Gain 2 produces more intense distortion than Gain 1 and is active only when the Gain Select switch (#5) is **in**.

**4: SHAPE:** Working in conjunction with the Gain 2 control, 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. (Only affects Gain 2 when active.)

**5: GAIN SELECT:** Switches between Gain 1 (out) and Gain 2 (in). A footswitch (see #28, rear panel) overrides this switch.

**6: 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.

**7: 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.

**8: 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 & 4) to create a wide variety of sounds.

**9: CHANNEL SELECT:** When this switch is pressed in the Overdrive Channel is engaged. The Clean Channel is selected when this switch is out. A footswitch (see #28, rear panel) overrides this switch. The adjacent LEDs indicate which channel is selected.

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

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

**11: 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.

**12: 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.

**13: 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.

**14: REVERB, OVERDRIVE:** Adjust the amount of reverb for the Overdrive Channel 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: REVERB, CLEAN:** Adjust the amount of reverb for the Clean Channel 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.

**16: 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. This is a mono pre-chorus effects loop.

**17: 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 #29, rear panel) overrides this switch.

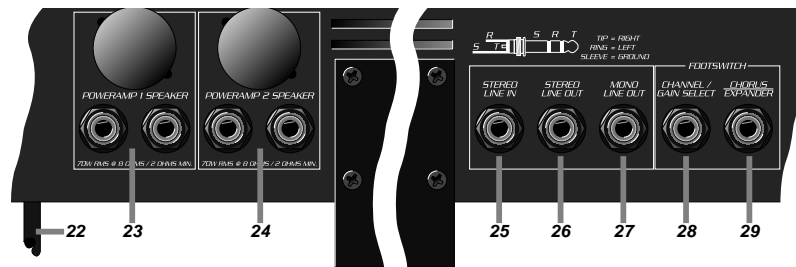
**18: CHORUS/EXPANDER:** Select between the built-in stereo chorus or the "expander" circuit with this switch. When the switch is pressed in, the chorus section is selected. When the switch is out, the amplifier's expander circuit is activated, giving the sound a wide-open, "spatial" effect. In order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

**19: 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.

**20: 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.

**21: POWER SWITCH:** Turns the amplifier ON in the up position, off in the down position. The Channel LED for the selected channel will light when the amp is switched on.

# CRATE® GX-140C/CH 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-140C/CH was purchased outside of the United States, see the unit's rear panel for its power rating and follow the above guidelines.

**23,24: POWER AMP 1, 2 SPEAKERS:** You may connect the outputs of the GX-140C/CH 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. The amp 2 speaker jack (#24) carries the chorus signal (when the chorus is on) while the amp 1 jack (#23) is "dry" (without the chorus effect).

**NOTE:** The total impedance for each side should not be less than 4 ohms.

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

**IMPORTANT NOTE ABOUT CERTAIN EXPORT UNITS:** In some areas 1/4" speaker jacks are not acceptable for use on amplifiers capable of high output power levels. For this reason the 1/4" speaker jacks on your amplifier may be sealed - in this case, use the Speakon® jacks provided.

**25: STEREO LINE IN:** When using a stereo effects device, connect its output here. This stereo 1/4" phone jack is wired as follows: Ring = amp 1, tip = amp 2, sleeve = ground.

**26: STEREO LINE OUT:** When using a stereo effects device, connect this jack to its input. This stereo 1/4" phone jack is wired as follows: Ring = output 1, tip = output 2, 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.

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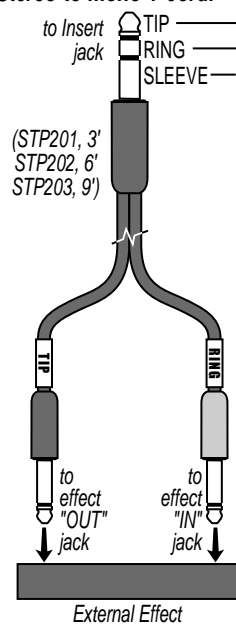
**28: CHANNEL/GAIN SELECT FOOTSWITCH:** Plug a dual footswitch (such as the Crate CFP-2 or the "stereo" plug of the Crate CFP-3) here to control Channel Selection and the Gain Select button. The footswitch overrides the front panel switches (#5 and 9) and is wired as follows: Ring = Gain Select, tip = Channels, sleeve = ground.

**29: CHORUS/EXPANDER 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 (#17); selection between the Chorus and the Expander is still controlled by the front panel selector switch (#18).

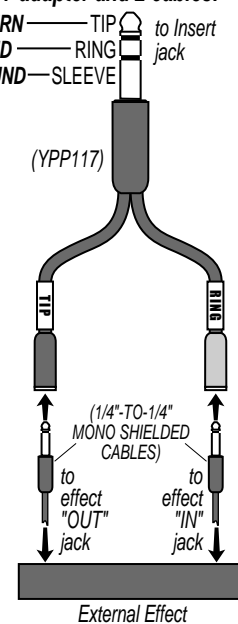
## Connecting to the Insert jack:

The Insert jack (#16) lets you patch external effects into the amplifier just prior to its power amp stage. Use Crate's STP201, STP202 or STP203 stereo-to-mono Y-cord or an adapter such as Crate's YPP117 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<sup>®</sup> GX-140C/CH Amplifier

## GX-140C/CH TECHNICAL SPECIFICATIONS

Output Power Rating	70 watts RMS @ 5% THD 8 ohms load 120VAC 100 watts RMS @ 5% THD 4 ohms load 120VAC
Speaker Size and Rating (GX-140C only)	Crate Custom Design 12" with 1-3/4" voice coil Power Handling: 65 Watts RMS
Maximum Input Signal Level Accepted	8 volts, peak-to-peak
Total System Gain	Overdrive Channel: 108dB @ 1kHz Clean Channel: 56dB @ 1kHz
Input Impedance	470k ohms
Overdrive Channel:	Low Control: 10dB Range @ 80Hz Shape Control: Proprietary Circuit High Control: 10dB Range @ 7kHz
Clean Channel:	Low Control: 20dB Range @ 100Hz Mid Control: 14dB Range @ 700Hz High Control: 27dB Range @ 10kHz
Input Power Requirements	120 VAC, 60Hz, 230VA 100/115VAC, 50/60Hz, 230VA 230VAC, 50/60Hz, 230VA
Cabinet Size and Weight:	GX-140C: 20" H x 26-1/2" W x 11" D, 58 lbs. GX-140CH: 12-1/2" H x 30-3/4" W x 10-1/2" D, 35 lbs.

The GX-140C/CH 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.

 <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 N'EST REPARABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.	VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLAGEGFAHR 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><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.</p> <p><b>WARNING:</b> TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.</p> <p><b>CAUTION:</b> NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p> <p><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.</p>		
EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBÔLES GRAPHIQUES:	 = "DANGEROUS VOLTAGE" "VOLTAJE PELIGROSO" "DANGER HAUTE TENSION" "GEFAHRICHE 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 BEDIENUNGSANLEITUNG 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.**

**CRATE<sup>®</sup>**

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