

# CRATE

## *GFX-65*

### *GUITAR AMPLIFIER WITH DIGITAL SIGNAL PROCESSING*



## **USER'S GUIDE**

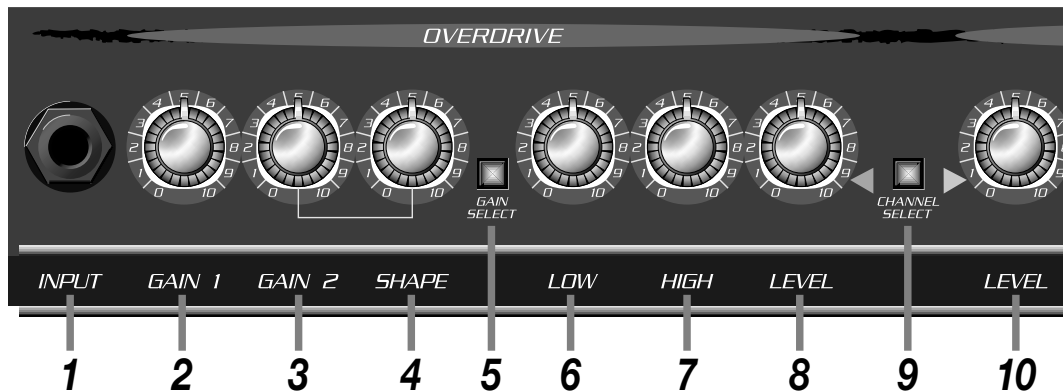
### **Congratulations!**

You are now the proud owner of the Crate GFX-65 guitar amplifier. This rugged amplifier delivers serious clean and distorted sounds through its premium 12" Crate Custom speaker. An easy to operate DSP section lets you dial in a variety of digital effects such as delay, flange, chorus and reverb – with separate level control. Channel selection and Crate's exclusive Shape circuit are controllable by the supplied two-button footswitch. An insert jack allows virtually noise-free connection of your favorite effects.

Like all Crate products, your GFX-65 is designed by musicians and built 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 read this user's guide before you begin playing.

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



**1: INPUT:** Connect your guitar here by means of a shielded instrument cable.

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

**2: GAIN 1:** Use this control to adjust the amount of moderate compression and distortion for the Overdrive channel. With the control rotated fully counter clockwise the sound will have a thick compressed quality. As you rotate the control clockwise the amount of distortion increases. Gain 1 produces less intense distortion than Gain 2 and is active when the Gain Select switch (#5) is in the out position.

**3: GAIN 2:** Use this control to adjust the amount of intense compression and distortion for the Overdrive channel. With the control rotated fully counter clockwise the sound will have a thick compressed quality. As you rotate the control clockwise the amount of distortion increases. Gain 2 produces more intense distortion than Gain 1 and is active when the Gain Select switch (#5) is depressed.

**4: SHAPE:** Working in conjunction with the Gain 2 control, rotate the Shape control until you find the sound you're looking for. Rotating the control counter clockwise enhances the mid frequencies. Rotating the control clockwise enhances the low and high frequencies. (Only affects Gain 2 when active.)

**5: GAIN SELECT:** Use this switch to select Gain 1 (switch in the out position) or Gain 2 (switch depressed). A footswitch (#18) overrides this switch.

**6: LOW:** Use this control to adjust the low frequency output level of the Overdrive channel. This control allows an adjustment range of 11dB at 80Hz.

**7: HIGH:** Use this control to adjust the high frequency output level of the Overdrive channel. This control allows an adjustment range of 10dB at 10kHz.

**8: LEVEL:** Use this control to adjust the output volume level of the Overdrive Channel. Use this control along with the Gain and Shape controls (#2, 3 & 4) to create a wide variety of sounds.

**9: CHANNEL SELECT:** Use this switch to select the Clean channel (switch in the out position) or the Overdrive channel (switch depressed). A footswitch (#18) 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:** Use this control to adjust the output volume level of the Clean Channel.

**11: LOW:** Use this control to adjust the low frequency output level of the Clean channel. This control allows an adjustment range of 22dB at 80Hz.

**12: MID:** Use this control to adjust the mid frequency output level of the Clean channel. This control allows an adjustment range of 14dB at 600Hz.

**13: HIGH:** Use this control to adjust the high frequency output level of the Clean channel. This control allows a range of 28dB at 10kHz.

**14: DSP LEVEL:** Use this control to adjust the amount of digital signal processing. With the control rotated fully counter clockwise the output signal is "dry" (no effect). As you rotate the control clockwise the amount of effect increases.

**15: DSP MODE:** Use this control to select the desired digital effect(s). Each category and its central location is called out (delay, flange, etc.) by the markings around the control..

# CRATE<sup>®</sup> GFX-65 Amplifier



There are two variations per effect, as follows:

- Slapback delay
- Long delay w/regeneration
- Light Flange
- Heavy Flange
- Slow Chorus
- Fast Chorus
- Chorus w/small room reverb
- Chorus w/large room reverb
- Small room reverb
- Large room reverb

**16: INSERT:** Use this jack to connect an external effects device to the amplifier. Use a stereo 1/4" male Y-cord: ring = send, tip = return, sleeve = ground. See the illustration to the right for more information.

**17: EXT. SPEAKER:** Use this jack to connect an extension speaker cabinet to the amplifier. This jack is wired in series with the internal speaker.

**18: FOOTSWITCH:** Use this jack to connect a two-button footswitch to the amplifier for remote control of the Channel Select and Gain Select settings.

**19: POWER ON LED:** This LED illuminates when the amplifier is turned on.

**20: POWER SWITCH:** Use this switch to turn the amplifier on (top of the switch depressed) an off (bottom of the switch depressed).

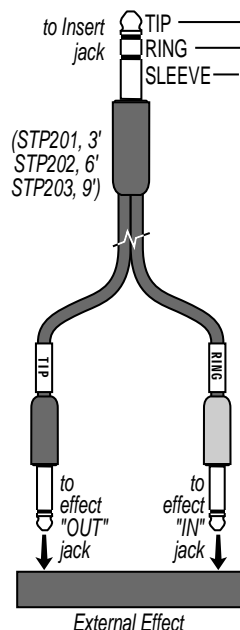
**21. POWER CORD (rear panel, not shown):** The grounded power cord should only be plugged into a grounded power outlet that meets all applicable electrical codes and is compatible with the voltage, power and frequency requirements stated on the rear panel. **Do not attempt to defeat the safety ground connection!**

**22: FUSE (rear panel, not shown):** The fuse protects the amplifier against damages caused by power overload conditions. If the fuse fails, replace it **only** with the same size and type fuse. If the fuse fails repeatedly check the AC source; if it's okay, contact your Crate dealer for service information.

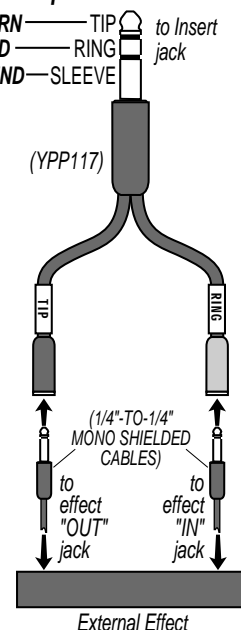
### Connecting to the Insert jack:

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> GFX-65 Amplifier

## GFX-65 TECHNICAL SPECIFICATIONS

Output Power Rating	65 watts RMS @ 5% THD 8 ohms minimum external load
Speaker Size and Rating	(1) Custom Design 12", 8 ohms
Input Impedance	470k ohms
Maximum Input Signal Level Accepted	7 volts, peak-to-peak
Total System Gain	Overdrive Channel: 110dB all controls @10, Gain 2; 88dB Gain 1 Clean Channel: 58dB all controls @10
Overdrive Channel:	Low Control: 11dB Range @ 80Hz Shape Control: Proprietary Circuit High Control: 10dB Range @ 10kHz
Clean Channel:	Low Control: 22dB Range @ 80Hz Mid Control: 14dB Range @ 600Hz High Control: 28dB Range @ 10kHz
Input Power Requirements	120 VAC, 60Hz, 90VA 100/115VAC, 50/60Hz, 90VA 230VAC, 50/60Hz, 90VA
Cabinet Size and Weight:	17-1/2" H x 20" W x 11" D, 34 lbs.

The GFX-65 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>PRECAUCION</b> RIESGO DE CORRIENTAZO NO ABRA	 <b>ATTENTION</b> RISQUE D'ELECTROCUTION NE PAS OUVRIR
WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	PRECAUCION: PARA REDUCIR EL RIESGO DE INCENDIOS O DESCARGAS ELECTRICAS, NO PERMITA QUE ESTE APARATO QUEDA EXPUESTO A LA LLUVIA O LA HUMEDAD. PARA DISMINUIR EL RIESGO DE CORRIENTAZO NO ABRA LA CUBIERTA. NO HAY PIEZAS ADEENTRO QUE EL USUARIO PUEDE REPARAR DEJE TODO MANTENIMIENTO A LOS TECHNICOS CALIFICADOS.	ATTENTION: PROTEGEZ CET APPAREIL DE LA PLUIE ET DE L'HUMIDITE AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION. 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.
<b>IMPORTANT SAFETY INSTRUCTIONS</b>		
<ul style="list-style-type: none"> <li>• READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS.</li> <li>• 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.</li> <li>• DO NOT USE THIS APPARATUS NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS.</li> <li>• CLEAN ONLY WITH LINT-FREE DAMP CLOTH AND DO NOT USE CLEANING AGENTS.</li> <li>• 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.</li> <li>• PROTECT THE POWER CORD FROM DAMAGE DUE TO BEING WALKED ON, PINCHED, OR STRAINED.</li> <li>• UNPLUG THE APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.</li> <li>• ONLY USE ATTACHMENTS, ACCESSORIES, STANDS, OR BRACKETS SPECIFIED BY THE MANUFACTURER FOR SAFE OPERATION AND TO AVOID INJURY.</li> <li>• WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE..</li> <li>• SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL.</li> <li>• 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.</li> </ul>		
EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBOLES 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"

**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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