

CRATE

GFX-15 GUITAR AMPLIFIER WITH DIGITAL SIGNAL PROCESSING



OWNER'S MANUAL

Congratulations!

You are now the proud owner of the Crate GFX-15 guitar amplifier. This small but versatile amplifier features two separate channels – one crystal clear and the other with our patented “Flex-Wave” distortion – combined with a three-band EQ and an easy to operate DSP section which lets you dial in a variety of digital effects such as delay, flange, chorus and reverb. A special damping circuit simulates the “current source” type output of a tube amp, giving you solid state reliability combined with classic tube sounds.

Like all Crate products, your GFX-15 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 go over the information contained in this manual before you begin playing.

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

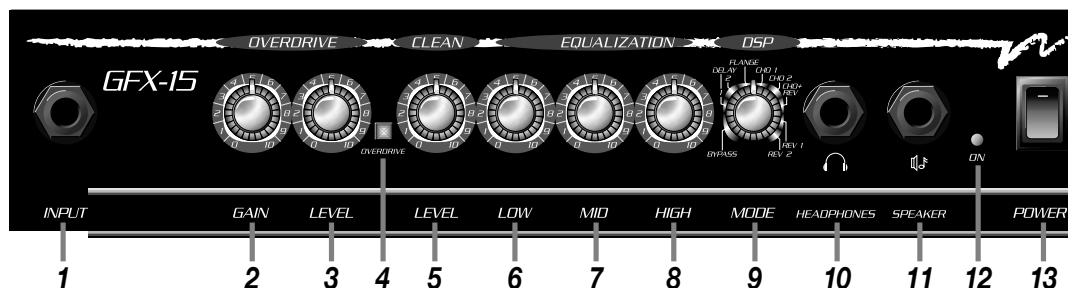
Important Safeguards and Precautions:

All Crate products are designed for continuous safe operation, as long as common sense is used and steps are taken to help avoid certain problems. Abiding by the following rules can help prevent damage to your amplifier, yourself and others.

- The amplifier is equipped with a three-pronged AC power cord. To reduce the risk of electrical shock, **NEVER** remove or otherwise attempt to defeat the ground pin of the power cord.
- Connect the amplifier **ONLY** to a properly grounded AC outlet of the proper voltage for your amp.
- Avoid sudden temperature extremes, rain and moisture. Also, avoid sudden and intense impact. (If the unit has been subjected to any of the preceding abuses, have it looked at by an authorized service center.)
- **NEVER** set the amplifier on a support that might give out under its weight.
- Always keep the total speaker impedance at or above the rated load.
- Unplug the amplifier before cleaning it. **NEVER** spray liquid cleaners onto the amplifier. Wipe it with a slightly dampened, lint-free cloth to remove dirt and film.
- Do not use the amplifier if it has sustained damage to the chassis, controls, or power cord. Refer the unit to an authorized service center for inspection.
- Amplifiers capable of producing high volume levels are also capable of inflicting permanent hearing loss or damage, if the exposure to such levels is prolonged. Such damage is progressive and irreversible! Consider using quality hearing protection devices.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	 PRECAUCION RIESGO DE CORRIENTAZO NO ABRA	 ATTENTION 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 QUEDE EXPUESTO A LA LLUVIA O LA HUMEDAD. PARA DISMINUIR EL RIESGO DE CORRIENTAZO, NO ABRA LA CUBIERTA. NO HAY PIEZAS ADENTRO 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'ADRESSEZ A UN TECHNICIEN QUALIFIE.
<h3>IMPORTANT SAFETY INSTRUCTIONS</h3>		
<ul style="list-style-type: none"> • READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS. • 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. • THIS APPARATUS DOES NOT OPERATE NORMALLY AND REQUIRES SERVICE WITH ANY PHYSICAL DAMAGE FROM IMPACT OR ANY EXPOSURE TO 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 PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME. 		
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[®] GFX-15 Amplifier



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

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

2: GAIN: Use this control to adjust the amount of compression and distortion from the amplifier. With the control fully counter clockwise, the sound will have a thick compressed quality. As you rotate the control clockwise the amount of distortion increases. Crate's exclusive "Flex-Wave" circuitry uses sequential cascading gains to deliver distortion which is rich in harmonics and "touch sensitive." Use this control along with the Level (#3) to create a wide variety of sounds.

3: LEVEL: Use this control to adjust the output volume level from the Overdrive channel: With the control fully counter clockwise there will be no output. As you rotate the control clockwise the output increases. Use this control along with the Gain control (#2) to create a wide variety of sounds.

4: OVERDRIVE SELECT: This switch, when depressed, activates the Overdrive channel. With this switch in the out position the Clean channel is activated.

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

5: LEVEL: Use this control to adjust the output volume level from the Clean channel: with this control fully counter clockwise there will be no output. As you rotate this control clockwise the output level increases. For the best results, reduce the Low control (#6) when this control is near the fully clockwise position.

EQUALIZATION

6: LOW: Use this control to adjust the low frequency output level. Rotating this control counter clockwise reduces the low frequency output, rotating it clockwise increases the low frequency output. The Low control allows a total range of 25dB of boost or cut at 80Hz. Due to the massive amount of low end available, this control should be reduced when playing at high volume levels.

7: MID: Use this control to adjust the mid frequency output level. Rotating this control counter clockwise reduces the mid frequency output, rotating it clockwise increases the mid frequency output. The Mid control allows for 19dB of boost or cut at 900Hz.

8: HIGH: Use this control to adjust the high frequency output level. Rotating this control counter clockwise reduces the high frequency output, rotating it clockwise increases the high frequency output. The High control allows a total range of 23dB of boost or cut at 5kHz.

9: DSP MODE: Use this control to select the digital effect. Each category and its central location is called out (delay, flange, etc.) by the markings around the control, with variations, as follows:

- Bypass (DSP off)
- Slapback delay
- Long delay w/regeneration
- Flange
- Slow Chorus
- Fast Chorus
- Chorus w/small room reverb
- Small room reverb
- Large room reverb

10: HEADPHONES: For private practice sessions, plug a pair of stereo headphones into this jack. The internal speaker is disconnected whenever headphones are being used.

11: EXTERNAL SPEAKER: Use this jack to connect the GFX-15 to an external speaker with a rated impedance of at least 4 ohms. The internal speaker is disconnected whenever an external speaker is used.

WARNING: Do not use headphones in the Speaker jack. Serious hearing damage could occur!

12: ON LED: The on LED illuminates when the amplifier is on.

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

14: POWER CORD (rear panel, not shown): This grounded power cord is to be plugged into a grounded power outlet, wired to current electric codes and compatible with voltage, power, and frequency requirements stated on the rear panel. **Do not attempt to defeat the safety ground connection.**

CRATE[®] GFX-15 Amplifier

GFX-15 TECHNICAL SPECIFICATIONS

Output Power Rating	12 watts RMS @ 5% THD 4 ohms, 120VAC
Gain, Overdrive Channel	86dB +/-6dB @ 1kHz
Gain, Clean Channel	46dB +/-6dB @ 1kHz
Tone Control Range, Low	25dB @ 80Hz
Tone Control Range, Mid	19dB @ 900Hz
Tone Control Range, High	23dB @ 5kHz
Signal To Noise, Overdrive Channel	>50dB
Signal To Noise, Clean Channel	>65dB
Maximum Signal Accepted	2.2 volts RMS min. @ 400Hz
Internal Speaker	8" Crate Custom Design 4 ohm
Input Power Requirements	120 VAC, 60Hz, 30VA 100/115VAC, 50/60Hz, 30VA 230VAC, 50/60Hz, 30VA
Size and Weight:	13" H x 13.63" W x 8.25" D, 15 lbs.

The GFX-15 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.

Declaration Of Conformity

#33, Effective 01-01-2001

Manufacturer's Name: SLM Electronics
Production Facility: 11880 Borman Drive, St. Louis, MO 63146, USA
Production Facility: 700 Hwy 202 W, Yellville, AR 72687, USA
Shipping Facility: 1400 Ferguson Ave., St. Louis, MO 63133, USA
Office Facility: 1400 Ferguson Ave., St. Louis, MO 63133, USA

Product Type: Audio Amplifier

Complies with Standards:
LVD: 92/31/EEC, 93/68/EEC, & 73/23/EWG
Safety: EN60065
EMC: EN55013, EN55020, EN55022, EN61000-3-2, & EN61000-3-3

Supplementary information provided by your local Sales & Services Office or:
SLM Electronics - R & D Engineering
1901 Congressional Drive, St Louis, MO 63146, USA
Tel.: 314-569-0141, Fax: 314-569-0175

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[®]
www.crateamps.com



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