

FLEXWAVE 15R

Guitar Amplifier



CRATE

Owner's Manual






CRATE® FlexWave15R Guitar Amplifier

Congratulations and thank you for choosing the Crate FlexWave15R Guitar Amplifier. This rugged amplifier combines outstanding features with serious clean and distorted sounds. The built-in spring reverb provides that classic reverb sound for added depth and greater flexibility. A stereo mini-jack input allows connection of a CD or tape player for playing along with your favorite music, and the headphones jack lets you practice in private.

In order to get the most out of your new amplifier, we strongly urge you to read this manual before you begin playing.

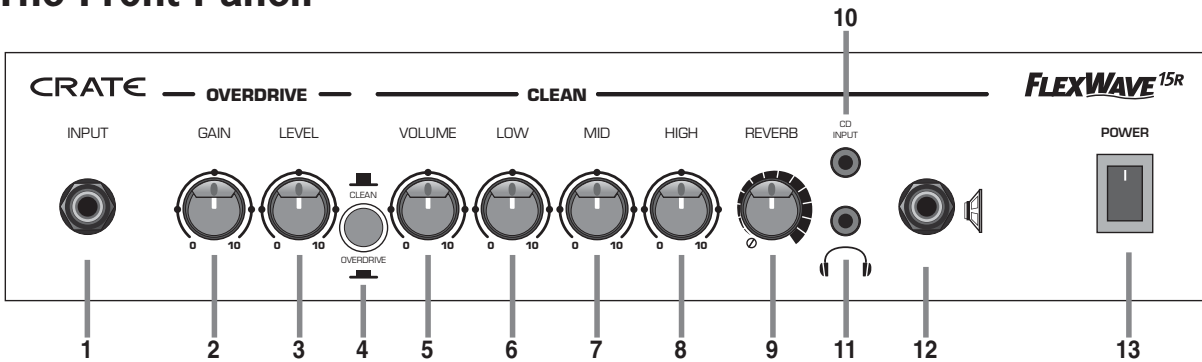
Here are some of the features packed into your new FlexWave15R Combo Amplifier:

- 15 watts rms power output
- 1 x 12" speaker
- Two-Channel Operation
 - Clean Channel
 - Overdrive Channel
- 3-band EQ
- Spring reverb with Level control
- CD Input
- Headphone Out
- External Speaker jack

 <p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p>	 <p>PRECAUCION RIESGO DE CORRIENTAZO NO ABRA</p>	 <p>ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR</p>
<p>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.</p>	<p>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 PUEDO REPARAR DEJE TODO MANTENIMIENTO A LOS TECNICOS CALIFICADOS.</p>	<p>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.</p>
IMPORTANT SAFETY INSTRUCTIONS		
<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.• WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, DO NOT EXPOSE THIS UNIT TO RAIN OR 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.• WARNING: THIS UNIT REQUIRES A SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRIC CODES HAVING THE LINE SUPPLY VOLTAGE, POWER, AND FREQUENCY IDENTIFIED ON THE REAR OF THE UNIT. THE OUTLET MUST REMAIN ACCESSIBLE TO DISCONNECT THE UNIT IF A FAULT SHOULD ARISE WHILE IN USE. THIS UNIT SHOULD BE UNPLUGGED WHEN NOT IN USE.		
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"

This device complies with part 15 of the FCC Rules, ICES-003, EN55022 and EN55024. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The Front Panel:



1. INPUT: Use this jack to connect your guitar to the amplifier 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 distortion for the Overdrive channel.

3. LEVEL: Use this control to adjust the output level of the Overdrive channel.

4. OVERDRIVE/CLEAN: Use this switch to select the Overdrive or Clean channel. With the switch in the out position, the Clean channel is selected. When the switch is depressed, the Overdrive channel is selected.

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

5. VOL: Use this control to adjust the output level of the Clean channel.

6. LOW: This adjusts the bass frequencies. Use this control to get the best sounding bass response for your instrument.

7. MID: This adjusts the midrange frequencies. Use this control to get the best projection and midrange tones for your instrument.

8. HIGH: This adjusts the treble frequencies. Use this control to attain a bright and lively sound for your instrument.

9. REV LEVEL: Use this control to adjust the level of the spring reverb effect.

10. CD INPUT: Use this 1/8" stereo mini jack to connect the output from a CD player, MP3 player, laptop, etc., to the amplifier. The signal at this jack is summed into a mono signal, which is sent to the internal

power amp circuit. Use the output level control for the signal source to adjust the signal for the proper mix with your guitar.

Note: Depending on your CD player or other signal source device, you may need to use an adapter (i.e., two phono jacks to 1/8" stereo plug), available at most electronic outlets.

11. HEADPHONES: Use this 1/8" stereo jack to connect headphones to the amplifier. The internal speaker is disconnected when headphones are used.

Note: Depending on your headphones, you may need to use a stereo 1/8" plug to 1/4" jack headphone adapter, available at most electronic outlets.

CAUTION: To avoid possible damage to your hearing, do not use headphones for extended periods of time at extremely loud levels.

12. SPEAKER: Use this jack to connect the amplifier to an external speaker. The internal speaker is disconnected when this jack is used. The impedance of the external speaker must be 4 ohms or greater.

WARNING: Do not attempt to use headphones in the Speaker jack! Permanent hearing damage could result!

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

14. 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.**

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FlexWave15R TECHNICAL SPECIFICATIONS:

Output Power Rating		15W rms @ 5% THD, 4Ω, 120 VAC
Gain	Overdrive Ch	86 dB ±6 dB @ 1 kHz
	Clean Ch	46 dB ±6 dB @ 1 kHz
	CD Input	26 dB ±2 dB
Maximum Input Signal Accepted		2.2 volts rms @ 400 Hz
Tone Controls	Low	25 dB range @ 80 Hz
	Mid	19 dB range @ 900 Hz
	High	23 dB range @ 5 kHz
Signal To Noise Ratio	Overdrive Ch	>50 dB
	Clean Ch	>65 dB
Speaker Size and Rating		12" Crate Custom Design 4 ohm
Power Requirements		120 VAC, 60 Hz, 30 VA
		100/115 VAC, 50/60 Hz, 30 VA
		230/240 VAC, 50/60 Hz, 30 VA
Size (H x W x D)		17.25 in/43.82 cm x 17.50 in/44.45 cm x
		10.75 in/37.31 cm
Weight		22.5 lb/10.2 kg

The FlexWave15R is covered with a durable Tolex material. Wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers that could damage the finish.

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

"Crate" is a registered trademark of LOUD Technologies Inc. All other brand names mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged.

Service Information:

If you are having a problem with your FlexWave15R, you can go to our website (www.crateamps.com) and click on Support for service information, or call 1-800-898-3211 during business hours (7 am to 5 pm PST, Monday-Friday). If you are outside of the U.S., contact your local distributor for technical support and service.

Declaration Of Conformity

Manufacturer:	LOUD Technologies Inc. 16220 Wood-Red Rd. NE Woodinville, WA 98072, USA
Product Name:	Crate FlexWave15R
Product Type:	Audio Amplifier
Complies with Standards:	
LVD:	92/31/EEC, 93/68/EEC, & 73/23/EWG
Safety:	EN60065
EMC:	EN55013, EN55020, EN55022, EN55103, EN61000-3-2, & EN61000-3-3

The official Declaration of Conformity for this product is kept on file at:
LOUD Technologies Inc., 16220 Wood-Red Road NE, Woodinville, WA 98072 • Tel: 1-866-858-5832

