

Owner's Guide

for the

CRATE

MFX1200H

Guitar Amplifier



MFX1200H Guitar Amplifier

Congratulations!

You are now the proud owner of the Crate MFX1200H Guitar Amplifier. This rugged amp head combines outstanding features with serious clean and distorted sounds. An easy to operate DSP section lets you dial in a variety of digital effects such as delay, flange, chorus and reverb – with its own level control. Channel selection, Crate's exclusive Shape circuit, and DSP on/off are controllable by the supplied three-button footswitch. A front panel insert jack allows virtually noise-free connection of your favorite effects.

Like all Crate products, your MFX1200H is designed by musicians and built using only the best components. Extensive testing confirms 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 the information contained in this manual before you begin playing.

And **thank you** for choosing 

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 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN  <small>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.</small>	 PRECAUCION RIESGO DE CORRIENTAZO NO ABRA  <small>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 ADENTRO QUE EL USUARIO PUEDE REPARAR DE JE TODO MANTENIMIENTO A LOS TECNICOS CALIFICADOS.</small>	 ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR  <small>ATTENTION: PROTÉGEZ CET APPAREIL DE LA PLUIE ET DE L'HUMIDITÉ AFIN D'ÉVITER TOUT RISQUE D'INCENDIE OU D'ÉLECTROCUTION. POUR RÉDUIRE D'ÉLECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIÈCE INTERNE N'EST REPARABLE PAR L'UTILISATEUR. POUR TOUTE RÉPARATION, S'ADRESSER À UN TECHNICIEN QUALIFIÉ.</small>
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. • 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. 		
<small>EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBOLES GRAPHIQUES:</small>	 = "DANGEROUS VOLTAGE" "VOLTAJE PELIGROSO"  = "DANGER HAUTE TENSION"	<small>"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"</small>

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Important Safeguards and Precautions:

All Crate products are designed for continuous safe operation. 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.)
- Do not expose the unit to splashing or dripping liquid. Do not place liquid filled objects on the unit.
- **NEVER** set the amplifier on a support that will not bear 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.
- Prolonged exposure to high volume levels may cause permanent hearing loss or damage. Such damage is progressive and irreversible!

Declaration Of Conformity

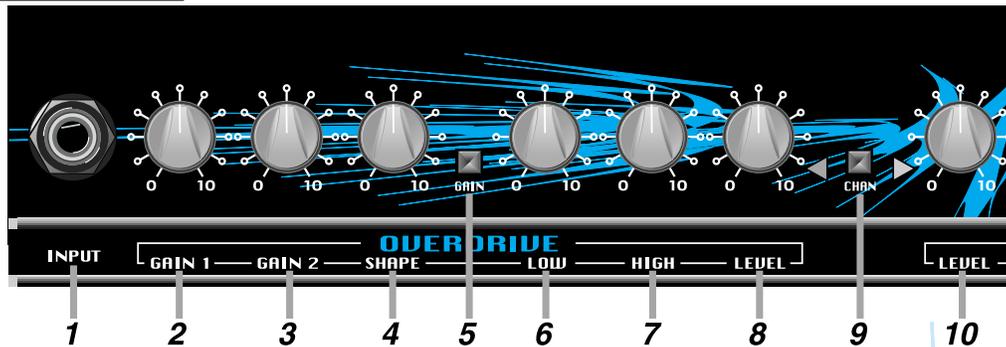
#30, Effective 01-01-2001

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:
SLM Electronics - R & D Engineering
1901 Congressional Drive, St Louis, MO 63146, USA
Tel.: 314-569-0141, Fax: 314-569-0175

MFX1200H Guitar Amplifier

The Front Panel:



1: INPUT: Use this 1/4" jack to connect your instrument 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 1: Use this control to adjust the input gain for the Overdrive channel. Gain 1 produces less distortion than Gain 2 (#3) and is active when the Gain switch (#5) is in the out position.

3: GAIN 2: Use this control to adjust the input gain for the Overdrive channel. Gain 2 produces more distortion than Gain 1 (#2) and is active when the Gain switch (#5) is depressed.

4: SHAPE: Use this control to adjust the tone of the input signal for Gain 2. Rotating this control counterclockwise emphasizes the midrange frequencies. Rotating this control clockwise emphasizes the low and high frequencies. This control is active when the Gain switch (#5) is depressed.

5: GAIN: Use this switch to select Gain 1 or Gain 2 for the Overdrive channel. When the switch is in the out position Gain 1 is selected. Gain 2 is selected when the switch is depressed.

6: LOW: Use this control to adjust the bass response of the Overdrive channel. Rotating the control counterclockwise reduces the low frequency output. Rotating the control clockwise increases the low frequency output. The Low control provides a range of 11dB of boost or cut at 80Hz.

7: HIGH: Use this control to adjust the high frequency response of the Overdrive channel. Rotating the control counterclockwise reduces

the high frequency output. Rotating the control clockwise increases the high frequency output. The High control provides a range of 10dB of boost or cut at 10kHz.

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

9: CHAN: Use this switch to select the Overdrive channel or the Clean channel. When the switch is in the out position the Clean channel is selected. The Overdrive channel is selected when the switch is depressed. The adjacent LEDs illuminate to indicate which channel is selected. Channel selection may also be made with a footswitch (#17).

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

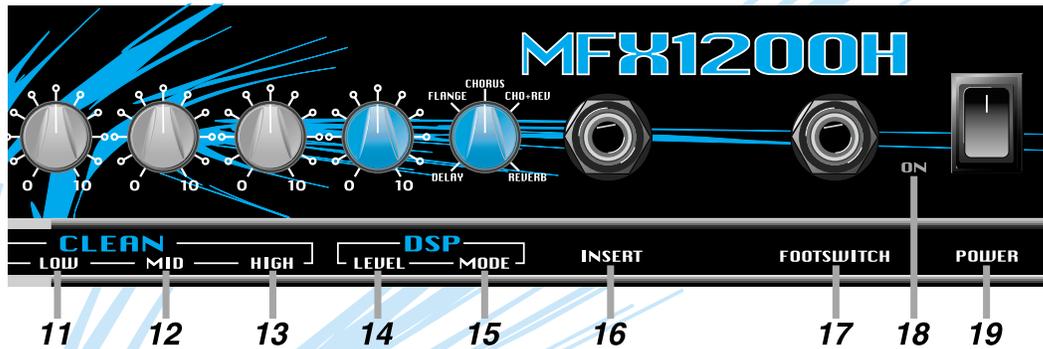
10: LEVEL: Use this control to adjust the output level of the Clean channel.

11: LOW: Use this control to adjust the bass response of the Clean channel. Rotating the control counterclockwise reduces the low frequency output. Rotating the control clockwise increases the low frequency output. The Low control provides a range of 22dB of boost or cut at 80Hz.

12: MID: Use this control to adjust the midrange frequency response of the Clean channel. Rotating the control counterclockwise reduces the midrange frequency output. Rotating the control clockwise increases the high frequency output. The Mid control provides a range of 14dB of boost or cut at 600Hz.

13: HIGH: Use this control to adjust the high frequency response of the Clean channel. Rotating the control counterclockwise reduces

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the high frequency output. Rotating the control clockwise increases the high frequency output. The High control provides a range of 28dB of boost or cut at 10kHz.

14: DSP LEVEL: Use this control to adjust the amount of digital signal processing to be applied to the signal. In the fully counterclockwise position the output signal is "dry" (no effect applied). As you rotate the control clockwise the amount of effect increases. The DSP may be turned on and off with a footswitch (#17).

15: DSP MODE: Use this control to select one of the ten digital effects. The nomenclature around the Mode control defines the five types of effects available. Each effect listed has two variations as described below:

DELAY: Slapback delay
Long delay w/regeneration

FLANGE: Light Flange
Heavy Flange

CHORUS: Slow Chorus
Fast Chorus

CHO-REV: Chorus w/small room reverb
Chorus w/large room reverb

REVERB: Small room reverb
Large room reverb

16: INSERT: Use this jack to connect an external signal processor to the amplifier. Refer to the adjacent illustration for additional information.

17: FOOTSWITCH: Use this jack to connect a two-button footswitch to the amplifier for remote control of channel selection and DSP on and off.

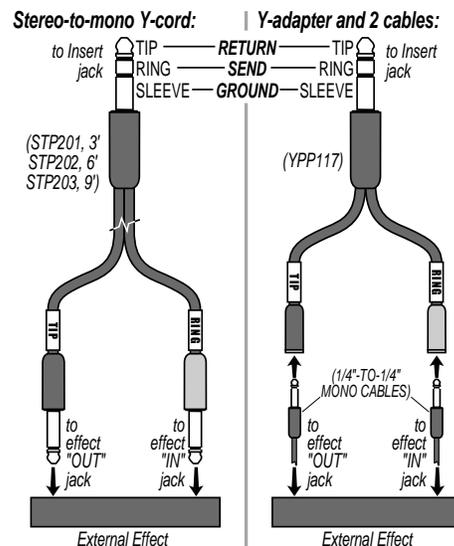
18: ON LED: This LED illuminates when the amplifier is turned on.

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

20: 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.**

Connecting to the Insert jack:

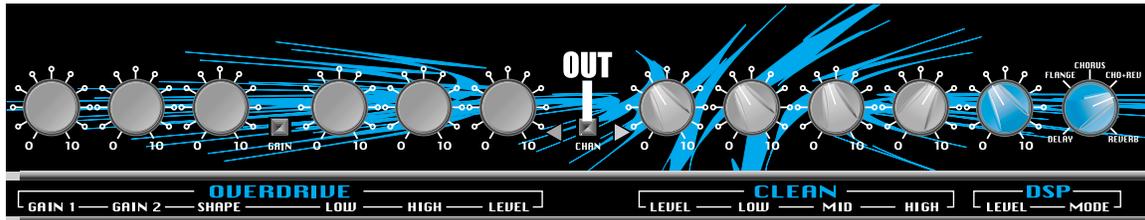
The Insert jack (#16) allow you to patch an external effects device into the amplifier prior to its power amp stage. Use Crate's STP201, STP202 or STP203 stereo-to-mono Y cord or an adapter such as Crate's YPP117 and two 1/4" mono signal cables to connect the effect as shown below.



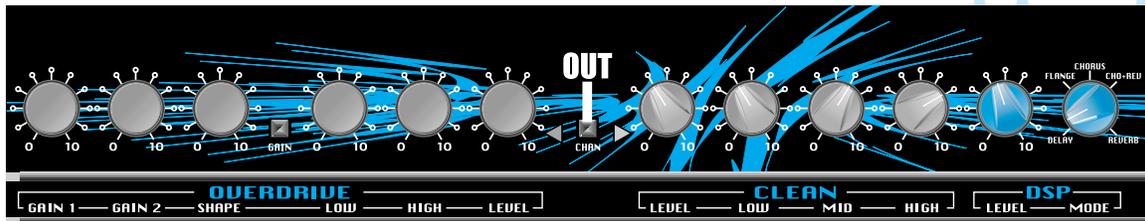
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Suggested Settings:

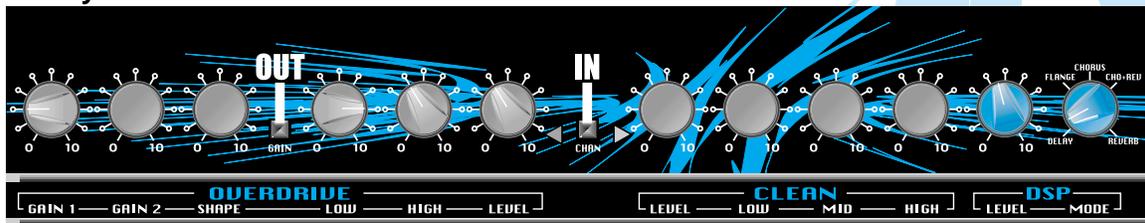
Clean:



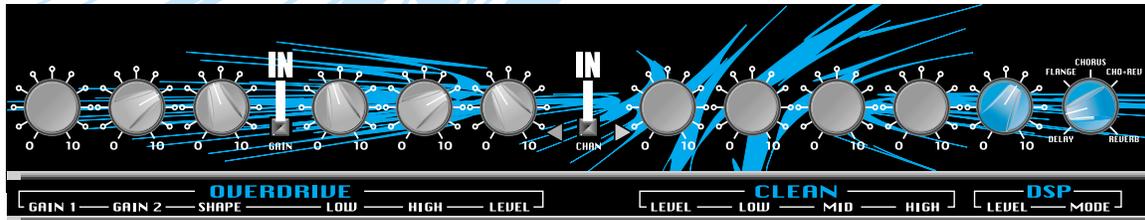
Blues:



Rhythm:

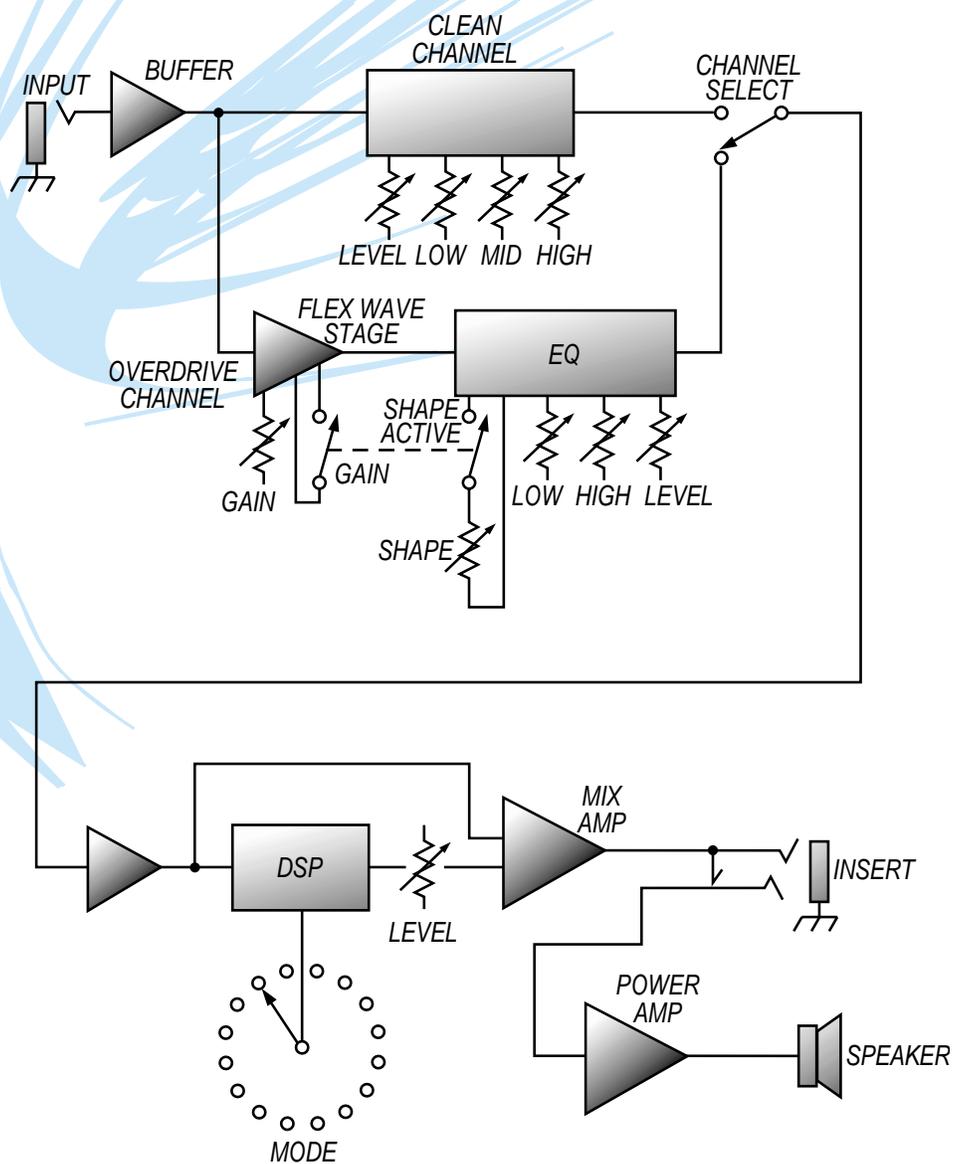


Lead:



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System Block Diagram:



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MFX1200H TECHNICAL SPECIFICATIONS:

Output Power Rating	70 watts RMS @ 5% THD 8 ohms, 120 VAC 100 watts RMS @ 5% THD 4 ohms, 120 VAC
Maximum Input Signal Accepted	8 volts peak-to-peak
Input Impedance	470k ohms
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
Power Requirements	120 VAC, 60Hz, 230VA 100/115VAC, 50/60Hz, 230VA 230VAC, 50Hz, 230VA
Size and Weight	9.38" H x 19.75" W x 9.5" D, 25 lbs.

The MFX1200H 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 would 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.



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