



CRATE

G-212 AMPLIFIER

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We would like to take this opportunity to thank you for selecting a Crate product, and to tell you of our commitment to the design and manufacture of only the finest musical instrument amplification equipment; built for you, the musician.

You have purchased one of the most innovative sound amplification devices available today. Your Crate amplifier gives you more performance features than ever before; features that you, the musician, have asked for.

Your Crate amplifier is an American product, manufactured at our factory in St. Louis, Missouri. Only the finest available components and materials are used in the manufacture of each amplifier.

All Crate amplifiers are subject to seven or more inspection and testing steps to assure you of a high quality product. The final test for each amp is conducted by a trained musician with the instrument the amp was designed for. Any unit that does not meet the standards of his discriminating ear will not be passed.

Since all Crate products are designed, developed, and manufactured through the cooperative efforts of engineers and professional musicians, the end result is a product that responds to the musician's audio requirements, and a product that will serve your needs for years to come.

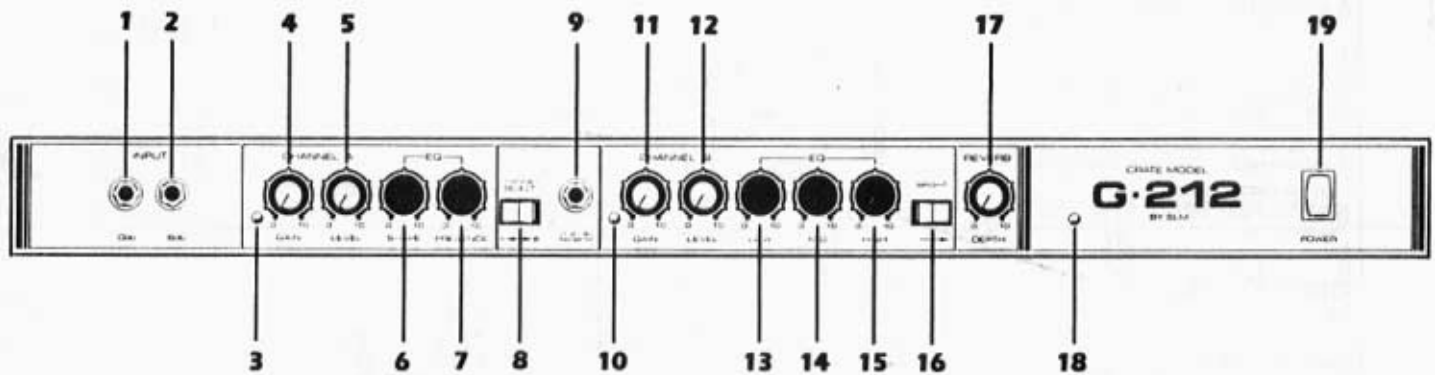
G-212 TECHNICAL SPECIFICATIONS

Output Power Rating	60 watts RMS @ 5% THD 4 ohm load — 120 VAC line
Speaker Size and Rating	G-212: 2 Custom Design 12" with 1-1/2" coil Power Handling 60 watts RMS each G-212GT: 2 Celestion G12L-35
Bass Control	15 db range @ 80 Hz
Mid Control	8 db range @ 700 Hz
Treble Control	15 db range @ 5 KHz
Presence Control	10 db range @ 5 KHz
Bright Switch	8 db boost @ 6 KHz
Input Impedance	220 K ohms/"0 db" input 44 K ohms/"-6 db" input
Maximum Input Signal Level Accepted	4 volts, peak to peak/"0 db" input 8 volts, peak to peak/"-6 db" input
Total System Gain	Channel A: 85 db Channel B: 60 db
Signal to Noise Ratio	Channel A: -55 db Channel B: -65 db
Input Power Requirements	120 VAC, 60 Hz, 200 watts max
Cabinet Size and Weight	21"H x 26-1/2"W x 11"D 50 lbs./[GT] 55 lbs.

CAUTION: To reduce the risk of electric shock, do not remove chassis. No user serviceable parts inside. Refer servicing to qualified service personnel. To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Specifications subject to change without notice.

FEATURES and FUNCTIONS



FRONT PANEL—INPUT

- 1. 0 dB INPUT JACK:** This input accepts a standard 1/4" phone plug and is suitable for any low to line level signal source such as an electric guitar.
- 2. -6 dB INPUT JACK:** This input also accepts a standard 1/4" jack but is padded 6 dB for hotter inputs such as tape decks or guitars with hot pickups. If both jacks are used, this input is not padded and will be equal to the 0 dB input jack.

CHANNEL A CONTROLS

- 3. CHANNEL A INDICATOR:** When this red L.E.D. is lit, Channel A is active.
- 4. GAIN CONTROL:** This control sets the amount of gain for channel A and is used to vary the amount of distortion. Minimal distortion is achieved with this control rotated counterclockwise. A fully clockwise setting creates maximum distortion.
- 5. LEVEL CONTROL:** The overall volume of Channel A is controlled with this knob and should be used in conjunction with the GAIN CONTROL (4).
- 6. SHAPE CONTROL:** This is the primary tone control for Channel A. Set at half rotation, a sound emphasizing midrange is achieved. When rotated fully clockwise, a "heavy textured" sound is created, with extra boost in lows & highs. Rotated fully counterclockwise, a lighter textured sound is produced, with more low midrange and less highs.

- 7. PRESENCE CONTROL:** This knob affects the upper harmonics of Channel A. When rotated to the right, the Presence Control boosts upper harmonics and adds "bite" or "edge" to the sound, while turning the knob fully to the left will deliver a more mellow tone.
- 8. CHANNEL SELECT SWITCH:** This switch is used to select between Channel A and Channel B. When using the optional footswitch, this switch should be in the Channel A position.

- 9. FOOTSWITCH JACK:** This Jack is to be used with the Channel Selector/Reverb footswitch. When the footswitch is in use, the front panel channel selector switch (6) should be in the Channel A position.

CHANNEL B CONTROLS

- 10. CHANNEL B INDICATOR:** When this green L.E.D. is lit, Channel B is active.
- 11. GAIN CONTROL:** This control sets the gain of Channel B. Higher (clockwise) settings may be desired if the guitar has a weak output or when an overdriven, distorted sound is needed. Lower settings may be wanted for a hotter guitar, particularly for achieving a clean sound.
- 12. LEVEL CONTROL:** The overall volume of Channel B is controlled by this knob, which is used in conjunction with the Gain Control (11). Start with a low setting of the Level Control and adjust the Gain Control (11) for the desired clean or overdriven sound. Turn

the Level Control up to the volume wanted.

- 13. LOW CONTROL (Bass):** The desired amount of "Bottom" or "Warmth" may be increased or decreased with this knob.
- 14. MID CONTROL (Mid):** The tonal qualities of the midrange are very important to a good guitar sound. This knob can "thin-out" the sound when turned down, or "fatten-up" the tone when larger amounts are used.
- 15. HIGH CONTROL (Treble):** This knob will affect the upper harmonic range of the guitar. Boosting it sharpens or adds crispness to the sound. For additional effect, use this control in conjunction with the Bright Switch (16).
- 16. BRIGHT SWITCH:** This switch affects the brilliance of the guitar's sound by adding additional "bite" or sharpness. This switch affects only Channel B.

- 17. DEPTH CONTROL (REVERB):** This control allows the player to alter the apparent acoustical qualities of a room. The sound can be altered from very "Flat" or "Dry" when the control is turned off, to that of a concert hall when used in larger amounts.

POWER

- 18. ON/OFF LED INDICATOR:** The amplifier is on when this L.E.D. is lit.
- 19. ON/OFF SWITCH (POWER):** This is a two position switch, the down position will turn the unit on, while the up position off.



REAR PANEL

20. POWER CORD: Be sure the amplifier is properly plugged into a safely wired AC outlet before use.

21. EXTERNAL SPEAKER JACKS: This jack is used for additional speaker hookup. The G-212 external speaker jack is hooked up in parallel with the internal speaker jack so adding additional speakers will lower the total load impedance connected to the power amp. Do not go below 2 ohms total load impedance.

22. INTERNAL SPEAKER JACK: The internal Custom Design speakers are plugged into this jack, (total load 4 ohms). To disconnect the internal speakers, simply unplug the cable from this jack. Another external speaker may be plugged in if the total load will still be at least 2 ohms. Total load should not be less than 2 ohms.

23. LINE IN JACK: This jack is used as a direct input to the power amp. Plugging into this jack disconnects

the direct (normal) connection between the preamp and power amp. The Line Out jack may then be used with the Line In jack as an effects loop.

24. LINE OUT JACK: This jack is used to link the G-212 to additional amplifiers or to connect the amp to a tape recorder. Simply run a cable from the output of this jack to the input of another amplifier or tape deck. External speakers cannot be hooked up to this jack.

WARNING: NEVER PLUG HEADPHONES INTO EITHER SPEAKER JACK — YOU COULD SUFFER PERMANENT LOSS OF HEARING OR DAMAGE YOUR HEADPHONES.

LIMITED WARRANTY

SLM Electronics, a division of St. Louis Music Supply Company, warrants this electronic equipment for one (1) year from date of purchase to the original purchaser and is not transferable. This warranty includes defects in workmanship and materials within this one (1) year period except for tubes, meters and speakers covered separately. Tubes and meters will carry a 90 day warranty.

Excluded from this warranty are defects caused by wear and tear, misuse, neglect, alterations or modifications, or any act of nature. Such determinations will be made by SLM Electronics.

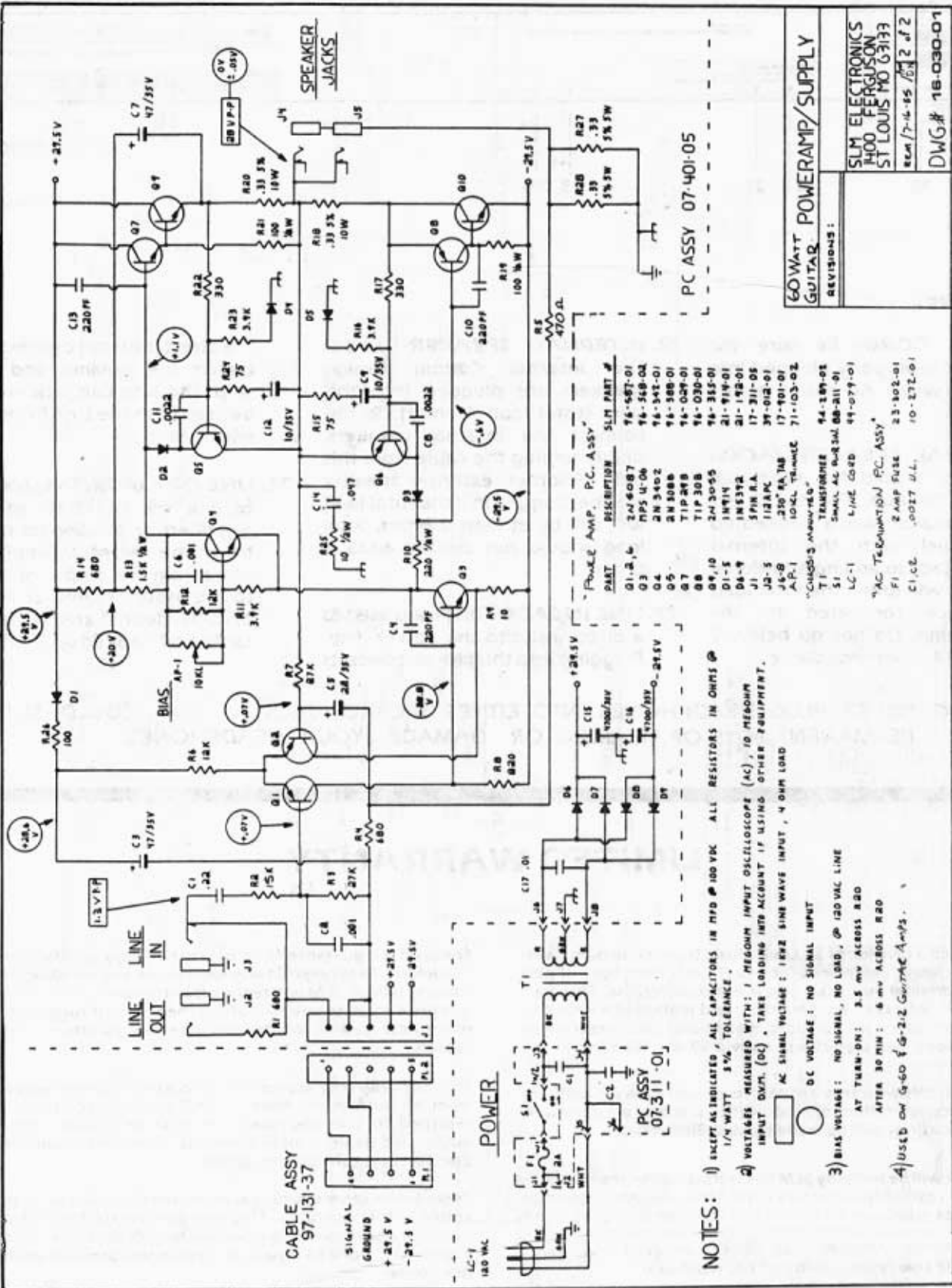
All parts costs will be borne by SLM Electronics within the warranty period. Labor costs will be covered within this warranty period according to rate schedules established by SLM Electronics. Warranty service will be done either at SLM Electronics or an authorized field service center. Transportation charges involved in warranty service are the sole responsibility of the purchaser.

Speakers are guaranteed for ninety (90) days against manufacturing defects. Realizing that any speaker can be overloaded or misused causing failure, SLM will replace it with a speaker of the same type at a price equal to one-half of the then current suggested list price of the new speaker for life from date of registration, regardless of reason.

This warranty only applies if this piece of equipment was purchased from an authorized dealer. If this piece of equipment is to be returned to SLM Electronics, it must be accompanied with an authorized dealer's instructions as to needed repairs and a SLM Electronics return authorization.

There are no other warranties expressed or implied other than those stated in this warranty. This warranty registration card must be filled out and returned to us within ten (10) days after purchase. We reserve the right to repair or replace this piece of equipment at our option.

SLM ELECTRONICS division of ST. LOUIS MUSIC
1400 Ferguson Ave. • St. Louis, MO 63133



60WATT POWERAMP/SUPPLY
 GUITAR
 REVISIONS:
 SLIM ELECTRONICS
 1400 FERGUSON
 ST LOUIS MO 63113
 REV 17-11-85 / 2 of 2
 DWG# 18-030-01

PART	DESCRIPTION	SLM PART #
Q1,2,6	2A7 6087	74-587-01
Q3	6X4	74-548-02
Q4	6AV6	74-541-01
Q5	6BE6	74-388-01
Q7	TIP 29B	74-029-01
Q8	TIP 30B	74-030-01
Q9,10	2N 3055	74-315-01
Q1-5	1N914	21-192-01
Q6-9	1N5312	21-192-01
J1	SPIN HA	17-311-05
J2-5	1/2" APC	37-012-01
J6-8	250 VA TB	17-701-01
A.P.1	100K TRIMMER	71-103-02
T1	TRANSFORMER	74-189-02
T2	SMALL AC TRANS	08-311-01
LC-1	LINE COIL	49-079-01
F1	ZAMP FUSE	23-302-01
C1,C2	.0027 uL	10-272-01

- NOTES:
- 1) EXCEPT AS INDICATED, ALL CAPACITORS IN MFD @ 100 VDC ALL RESISTORS IN OHMS @ 1/4 WATT 5% TOLERANCE.
 - 2) VOLTAGES MEASURED WITH: 1 MEGOHM INPUT OSCILLOSCOPE (AC), 10 MEGOHM INPUT DVM. (DC). TAKE LOADING INTO ACCOUNT IF USING OTHER EQUIPMENT.
 AC SIGNAL VOLTAGE: 1 ERZ SINE WAVE INPUT, 4 OHM LOAD
 DC VOLTAGE: NO SIGNAL INPUT
 - 3) BIAS VOLTAGE: NO SIGNAL, NO LOAD, @ 120VAC LINE
 AT TURN-ON: 2.5 mV ACROSS R20
 AFTER 30 MIN: 6 mV ACROSS R20
 - 4) USED ON G-60 & G-212 GUITAR Amps.

Schematic provided for use by qualified service personnel only.

CAUTION: These servicing instructions are for use by qualified personnel only. To avoid electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.