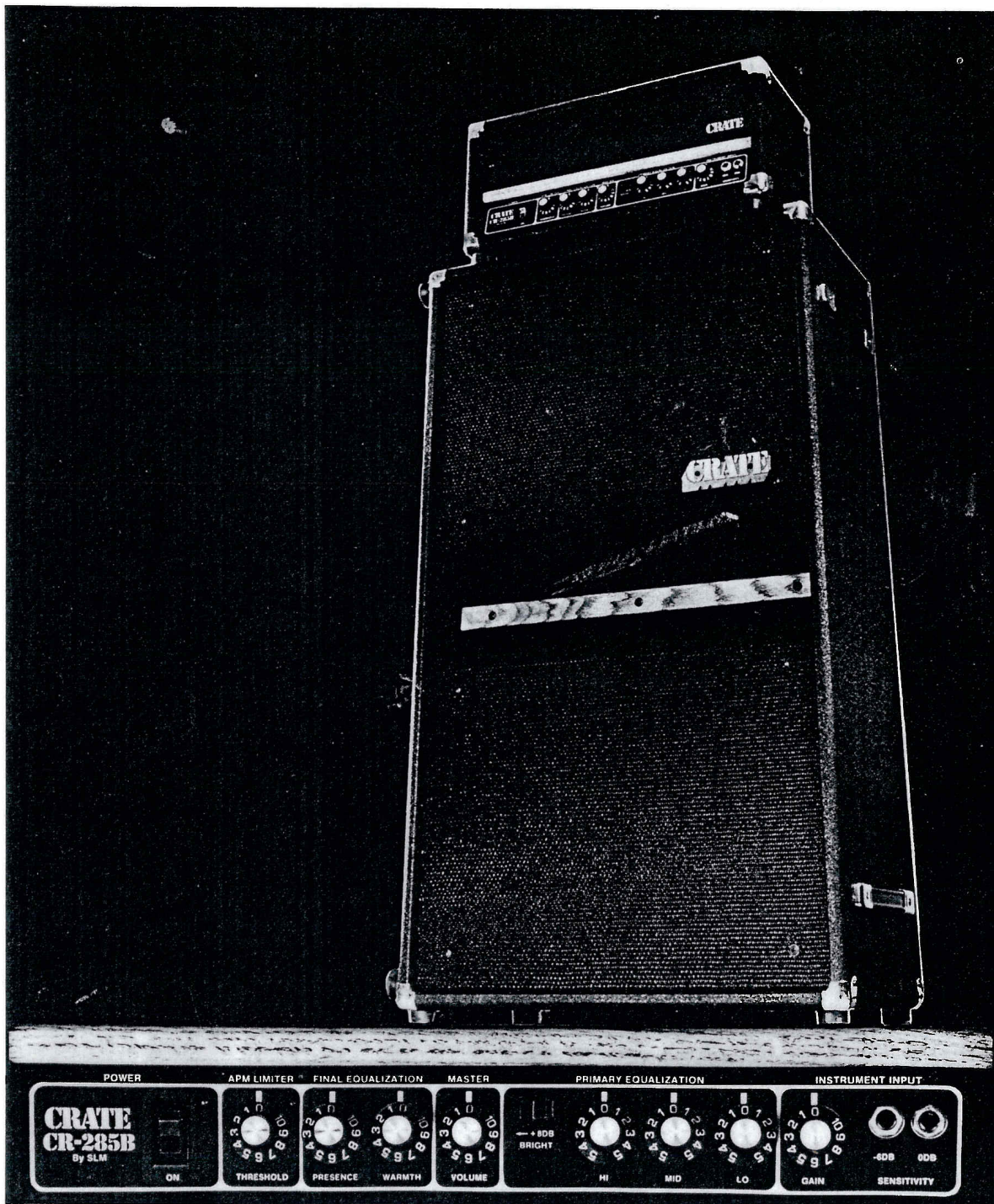




CRATE *Sprint* series

CR-285B BASS AMPLIFIER

CRATE *Sprint* series



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

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 the Crate factory located in St. Louis, Mo. Only the finest available components and materials are used in the manufacture of each Crate amplifier.

All Crate amplifiers are subjected 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 amplifier was designed for. Any Crate 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 co-operative 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.

Model #CR-285B Bass Amplifier Features:

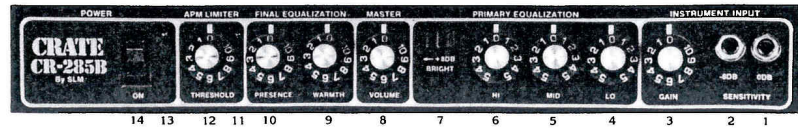
Bass Head and Enclosure Models:

CR-285BH	Black Tolex Head Only	BE-215	Black Tolex Enclosure Only, with 2—15" Speakers
CR-285B	Black Tolex Head w/BE-215 Enc.		
CR-285B18	Black Tolex Head w/BE-18210 Enclosure	BE-18210	Black Tolex Enclosure Only, with 1—18" and 2—10" Speakers

Front Panel (Right to Left):		Enclosure Features:
Input Jack 0DB	Limiter Threshold Control	BE-215 2—15" Special Design Speakers In A Dual Chamber, Dual Ported Enclosure with Two Input Jacks.
Input Jack -6DB	A-C LED "On" Indicator	BE-18210 1—18" and 2—10" Special Design Speakers In A Dual Chamber, Dual Ported Enclosure, Built In Crossover, with Two Input Jacks.
Gain Control	A-C Power Switch	
Lo Control	Rear & Top Panel (Lf. to Rt.):	
Mid Control	Line Out/Effects Send	
Hi Control	Line In/Effects Return	
Bright Switch +8DB	Ext. Speaker Jack	
Master Volume Control	Int. (Main) Speaker Jack	
Final EQ—Warmth Control	A-C Conv. Outlet	
Final EQ—Presence Control	External Fuse Holder	
Limiter "On" Indicator LED	9' Heavy Duty A-C Cord	

OPERATION and MAINTENANCE

FRONT PANEL VIEW



INSTRUMENT INPUT:

1) 0DB INPUT JACK (0DB):

This input is to be used with most guitars. It will provide the player with optimum performance of his instrument.

2) -6DB INPUT JACK (-6DB):

If unwanted distortion is present when the guitar is plugged into the 0DB input, this may be remedied by using the -6DB input.

3) GAIN CONTROL (Gain):

This gain control, located prior to the limiter and tone circuits, is used to regulate the amount of gain developed in the preamp. Advanced "gain" settings with reduced "master" settings can help to achieve "overdrive" or "distortion" sounds, while reduced "gain" and higher "master" settings provide a "clean" sound. Middle to higher settings of this control when using the limiter can create "sustain" or "compression".

PRIMARY EQUALIZATION:

4) LO EQ CONTROL (Lo):

The desired amount of "bass" or "bottom" may be increased or decreased with this knob.

5) MID EQ 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.

6) HIGH EQ CONTROL (High):

This control will affect the upper harmonic range of the instrument, adding more or less highs or "crispness".

7) BRIGHT SWITCH (Bright +8DB):

This switch affects the brilliance of the guitar sound by adding additional "crispness" or "bite".

MASTER:

8) MASTER VOLUME (Volume):

This control sets the overall volume or level of the amplifier. When using full limiter ("10" on threshold), the master control will need to be set at "10" to obtain full RMS output.

FINAL EQUALIZATION:

9) WARMTH CONTROL (Warmth):

This knob acts similar to an additional bass control, and allows the player to adjust the "warmth" or "bottom" of the guitar sound in the final stages of the preamp.

10) PRESENCE CONTROL (Presence):

This knob acts similar to an additional treble control, and allows the player to adjust the "presence" or "crispness" of the guitar sound in the final stages of the preamp.

APM LIMITER:

11) LIMITER LED:

This LED will light when limiting occurs.

12) THRESHOLD CONTROL: (Threshold)

The threshold control adjusts the amount of limiting or compression of the guitar signal. It may be used to assure that the amplifier will not exceed its maximum output and create "clipping" or unwanted distortion. Maximum limiting is achieved with the threshold limiting control at "10". The LED indicator (11) will light when the limiter is affecting the guitar signal. Different effects can be achieved with different settings of the gain and master controls. Try "gain" at "8-9" and master at "6" to create more of a sustain or compressor effect. Experiment to find those settings most suitable for your instrument or style of playing.

POWER:

13) ON/OFF LED INDICATOR:

The amplifier is on when this LED is lit.

14) ON/OFF SWITCH (On):

This is a two position switch. The down position will turn the unit on, while the up position is off.

REAR PANEL:

ADDITIONAL INPUTS AND OUTPUTS

(Located on Top of Rear Panel):

15) LINE OUT JACK (Line Out):

This output enables the player to link the

CR-285B to other amplifiers for increased volume and coverage. Simply run a cord from the line out jack to the input or line in of another amplifier. In addition, this output can be used as an effects loop send.

16) LINE IN JACK (Line In):

This jack provides an input into the CR-285B power amplifier. It can be used as an effects loop return, or in stacking the amplifier with another preamp. The internal preamp of the CR-285B is disconnected when using this jack.

EFFECTS LOOP OPERATION:

When the Line In and Line Out Jacks are properly connected to an external effects unit, an effects loop is created, and the amplifiers pre-amp signal will be routed to the effects unit and returned to the power amplifier input. Simply connect a cord from the Line Out Jack of the amplifier to the input or instrument jack of the effect, and an additional cord from the effect output or "To Amp" jack to the Line In Jack of the amplifier.

17) EXTERNAL SPEAKER JACK (Ext):

For additional speaker usage, connect to this speaker jack. Use only speakers of 4 ohms or higher impedance.

18) INTERNAL SPEAKER JACK (Int.):

This is the output for the amplifiers main speakers.

19) AC CONV. OUTLET:

This outlet is for additional power needs, such as effects boxes or additional amplifiers. Be sure not to overload this outlet.

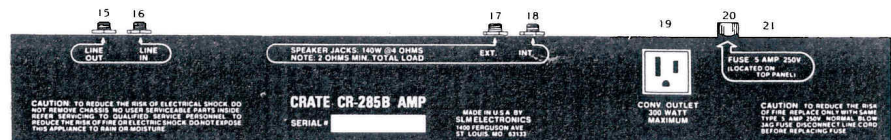
20) FUSE HOLDER:

This is a safety valve for the amplifier. Should problems occur, check the fuse. If problems persist after fuse replacement, consult an authorized Crate service center.

21) POWER CORD:

Be sure the amplifier is properly plugged into a safely wired outlet before use.

REAR PANEL VIEW



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.

Crate speakers are guaranteed for ninety (90) days against manufacturing defects. Realizing that any speaker can be overloaded or misused causing failure, Crate 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 Crate equipment was purchased from an authorized Crate Dealer. If this Crate piece of equipment is to be returned to SLM Electronics, it must be accompanied with an authorized Crate 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 Crate equipment at our option.

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

DETAILED SPECIFICATIONS:

INPUT IMPEDANCE	220K Ohms 0DB Jack (Hi Sensitivity) 44K Ohms -6DB Jack (Lo Sensitivity)
MAXIMUM SIGNAL LEVEL ACCEPTED	0DB Input 17 V.P.P./6V. RMS. -6DB Input 30 V.P.P./10V.RMS.
EQUALIZATION	Special Design Lo, Mid, High Passive Controls, +8DB Bright Boost, Special Design Warmth and Presence Active Controls.
TOTAL GAIN	GAINS "FULL" — Tones @ "0" 46DB Gain/380 MV P.P. Sensitivity @ 1,000 Hz.
SIGNAL TO NOISE RATIO	All Tones "Full" — Bright "On" — Gains @ Mid Rotation — 78DB.
PREAMP OUTPUT/ LINE OUT	Normal 1.5V.P.P. @ 10K Load Maximum 12 V.P.P. @ 10K Load
POWER AMP INPUT/LINE IN	Sensitivity = 1.7 V.P.P. for Full RMS Output @ 4 Ohms = .6V. RMS or -4DBV.
OUTPUT POWER RATING	All Ratings @ 5% THD 120 VAC Line 16 Ohm Load — 54 Watts 8 Ohm Load — 93 Watts 4 Ohm Load — 150 Watts 2 Ohm Load — 208 Watts Loads Below 2 Ohms Not Recommended
INPUT POWER REQUIREMENTS	@ 150 Watts into 4 Ohms @ 5% THD, 250 Watts Power Input Required. Nominal Idle Power Required = 20 Watts.
FUSE, RATING AND TYPE	External Fuse Holder with 5 Amp Fast Acting 250V. Fuse— Type 3AG-5 or Equiv.
AC CONV. OUTLET RATING	300 Watts Maximum.
EXTERNAL SPEAKER JACK	4 Ohm Minimum Impedance.
CR-285BH CABINET SIZE AND WEIGHT	10" H. x 19 3/4" W. x 9 1/2" D. Weight = 28 Lbs. Total. Shipping Weight = 33 Lbs. Total.

BE-215 CABINET SPECIFICATIONS:

SPEAKER SIZE AND RATING	2-15" Dia. Special Design 8 Ohm Speakers 2" Dia. Alum. Voice Coil, 38 Oz. Magnet. Rated 80 Watts RMS/120 Watts E1A Each. Total Cabinet Impedance 4 Ohms.
CABINET SIZE AND WEIGHT	42" H. x 24" W. x 13 1/2" D. Weight = 100 Lbs. Total. Shipping Weight = 110 Lbs. Total.

BE-18210 CABINET SPECIFICATIONS:

SPEAKER SIZE AND RATING	1-18" Dia. Special Design 4 Ohm Speaker w/ 3" Dia. Alum. Voice coil, 95 Oz. Magnet. Rated 200 Watts RMS/300 Watts E1A. 2-10" Dia. Special Design 8 Ohm Speaker w/ 1 1/2" Dia. Alum. Voice Coil, 30 Oz. Magnet. Rated 60 Watts RMS/120 Watts E1A Each. Total Cabinet Impedance 4 Ohms.
CABINET SIZE AND WEIGHT	42" H. x 24" W. x 13 1/2" D. Weight = 108 Lbs. Total. Shipping Weight = 118 Lbs. Total.

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.

CAUTION:

To reduce the risk of fire, replace fuse with only same type 5 amp 250 V. normal blow 3AG fuse. Disconnect line cord before replacing fuse.