# acoustic

# 330

## GUITAR AMPLIFIER



acoustic control corporation
[redacted]
VAN NUYS, CA 91406
(213) 997-6631

# A WORD TO ACOUSTIC AMPLIFIER OWNERS

We would like to take this opportunity to thank you for choosing an ACOUSTIC product and to assure you of our continuing interest in your musical pleasure and satisfaction.

This manual has been prepared to acquaint you with the proper operation of your amplifier and to provide important information as to its many capabilities. We urge you to read it carefully and follow the recommendations contained to help assure the most enjoyable and trouble-free operation of your amplifier.

When it comes to service, remember that an authorized ACOUSTIC Protection Center knows your amplifier best and is interested in your complete satisfaction.

TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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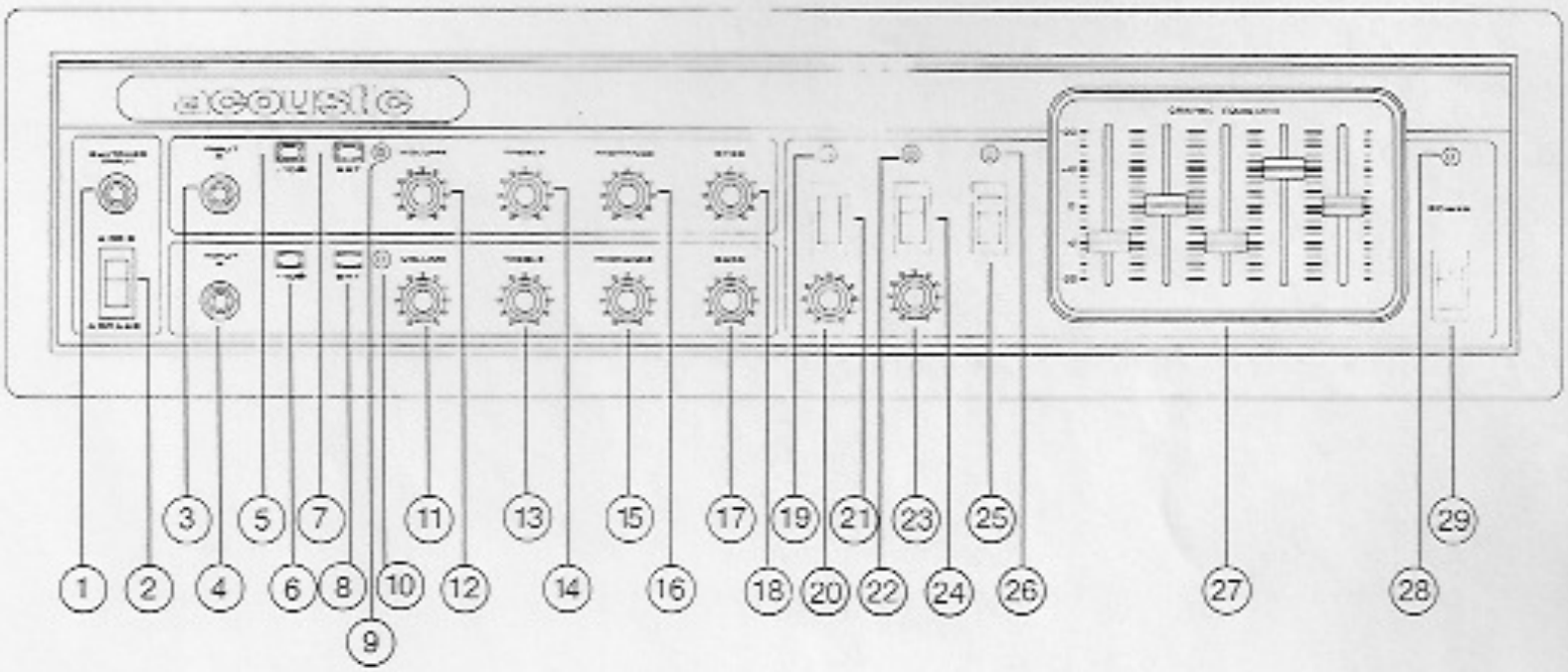
# GENERAL DESCRIPTION

Innovative. Versatile. Exciting. Words often used describing Acoustic Guitar Amps. However, these may fall short of our latest effort . . . Acoustic's 330 gives a player two separate channels complete with extremely active Bass, Mid-range, and Treble controls. These two channels can be used separately, or in unison. The player may also choose to alternate between them by using the footswitch we've provided. A specially designed 5-Band Graphic Equalizer, a deep reverb, and our exclusive "Gain Compensated" Master Volume are features that may be assigned to either channel then switched by foot. We've also provided lights that will indicate which of the channels and which effects are in use. Three in/out pre-amp jacks allow the patching of effects *between* pre-amp and power amp (for optimum performance.) These three jacks give access to Channel A, Channel B or both combined. An input pad and bright switch on each channel complete this revolutionary pre-amp. Now couple it with our all new 300 watts RMS power stage to drive a pair of our 403 speaker enclosures for the finest instrument system ever assembled. The Acoustic 330 amplifier in a word . . . one-upmanship.

# FRONT PANEL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## FRONT PANEL FEATURES

1. SWITCHED INPUT JACK ..... A standard ¼" phone jack that can be assigned to operate channels A and B either separately or combined with the aid of the footswitch. For full output at this jack 24 mv are required with an impedance greater than 100 K Ohms.
2. SWITCHED INPUT SELECTOR ..... This switch provides you to assign the channels separately, or to be switched between channel A or both channels combined.
3. INPUT JACK CHANNEL A .... A standard ¼" phone jack provided for connection of instruments to channel A only. Input for full output at this jack is 24 mv. The input impedance is greater than 100 K Ohms.
4. INPUT JACK CHANNEL B .... A standard ¼" phone jack provided for connection of instruments to channel B only. Input for full output at this jack is 24 mv. The input impedance is greater than 100 K Ohms.
5. CHANNEL A — 10db PAD SWITCH ..... Depressing this switch makes the input more compatible with high output instruments. For full output when switch depressed 80 mv are required. Input impedance is greater than 100 K Ohms.
6. CHANNEL B — 10db PAD SWITCH ..... Depressing this switch makes the input more compatible with high output instruments. For full output when switch depressed 80 mv are required. Imput impedance is greater than 100 K Ohms.
7. CHANNEL A BRIGHT SWITCH ..... Depressing this switch provides high frequency boost in channel A only.
8. CHANNEL B BRIGHT SWITCH ..... Depressing this switch provides high frequency boost in channel B only.
9. CHANNEL A INDICATOR .... A red LED that indicates when channel A is active.
10. CHANNEL B INDICATOR .... A red LED that indicates when channel B is active.
11. CHANNEL B VOLUME CONTROL ..... A continuously variable volume control that allows level adjustment of the signal before entering the master section.

## FRONT PANEL FEATURES CONTINUED

12. CHANNEL A VOLUME CONTROL ..... A continuously variable volume control that allows level adjustment of the signal before entering the master section.

13. CHANNEL B TREBLE CONTROL ..... A continuously variable high frequency control with a range of 36 db at 6 K Hz.

14. CHANNEL A TREBLE CONTROL ..... A continuously variable high frequency control with a range of 36 db at 6 K Hz.

15. CHANNEL B MIDRANGE CONTROL ..... A continuously variable mid frequency control with a range of 36 db at 600 Hz.

16. CHANNEL A MID RANGE CONTROL ..... A continuously variable mid frequency control with a range of 36 db at 600 Hz.

17. CHANNEL B BASS CONTROL ..... A continuously variable low frequency control with a range of 32 db at 150 Hz.

18. CHANNEL A BASS CONTROL ..... A continuously variable low frequency control with a range of 32 db at 150 Hz.

19. REVERB FOOTSWITCH INDICATOR ..... A Red LED that indicates when the reverb circuit is active.

20. REVERB CONTROL ..... A footswitchable control allowing the control of reverb level.

21. REVERB CHANNEL SELECTOR SWITCH ..... This switch assigns the reverb to either channel A or B.

22. MASTER VOLUME INDICATOR ..... A Red LED connected so as to indicate if the master volume control circuit is active.

23. MASTER VOLUME CONTROL ..... A Footswitchable control adjusts the level of signal allowed to pass to the power stage. Operation of the channel volume control & master volume control can provide any quantity of distortion (or no distortion) at any volume level. An initial distortion set-up might be with the front volume control (4) set to approximately 3 O'clock and the master volume control set at 9 O'clock. An initial clean set-up might be with the front and master volume controls at 12 O'clock.

## FRONT PANEL FEATURES CONTINUED

24. MASTER VOLUME SWITCH ..... This switch assigns the master volume control to either channel A or B.

25. EQUALIZER CHANNEL SELECTOR SWITCH ..... This switch assigns the E.Q. to channels A or B.

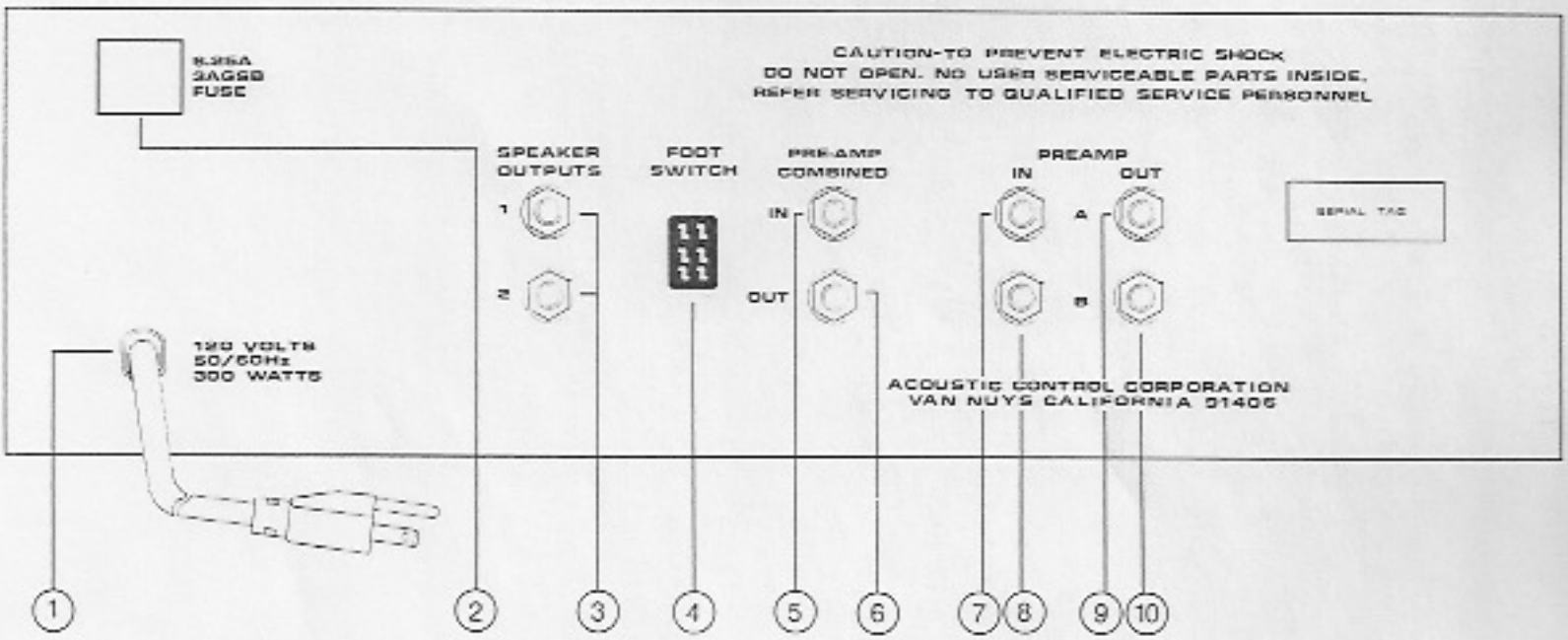
26. GRAPHIC E.Q. FOOTSWITCH INDICATOR ..... A red LED that indicates when the graphic E.Q. is active.

27. GRAPHIC EQUALIZER ..... A five band equalizer that allows an 18 db increase or decrease in signals at the specified frequencies. Use of the graphic E.Q. can provide almost any tone shaping needed.

28. POWER INDICATOR ..... A red LED that indicates when the AC power is on.

29. POWER SWITCH ..... An AC power on/off switch.

# REAR PANEL


8.0A
3AGSB
FUSE
CAUTION-TO PREVENT ELECTRIC SHOCK
DO NOT OPEN. NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL
SPEAKER
OUTPUTS
1
2
FOOT
SWITCH
PRE-AMP
COMBINED
IN
OUT
PREAMP
IN
OUT
A
B
SERIAL TAG
120 VOLTS
50/60Hz
300 WATTS
ACOUSTIC CONTROL CORPORATION
VAN NUYS CALIFORNIA 91406
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## REAR PANEL FEATURES

1. LINE CORD ..... A three connector line cord for AC connection.

2. FUSE ..... A 6.25 amp slow blow fuse*

3. SPEAKER JACKS ..... Two standard ¼" phone jacks for connection to speakers only. **CAUTION:** do not use the amplifier with speaker loads less than 2 Ohms.

4. FOOTSWITCH ..... A 6 pin female connector for the acoustic footswitch provided.

5. PREAMP COMBINED INPUT ..... A ¼" switching jack provided for external accessory connection. Insertion of a plug into this connector will break the normal connection between preamp and power amp. At this jack, 400 mv are required to achieve full output of power amp.

6. PREAMP COMBINED OUTPUT ..... A ¼" standard jack provided for either external accessory, additional power amps, or recording output connections. This output is from whatever is put into channel A or B, or A and B. The output at this jack is variable with the channel volume control at 0 to 400 mv.

7. PREAMP INPUT CHANNEL A ..... A ¼" switching jack provided for external accessory connection in channel A only. Insertion of a plug into this connection will break normal connection between preamp and power amp. At this jack 400 mv are required to achieve full output of power amp.

8. PREAMP INPUT CHANNEL B ..... A ¼" switching jack provided for external accessory connection in channel B only. Insertion of a plug into this connection will break normal connection between preamp and power amp. At this jack 400 mv are required to achieve full output of power amp.

9. PREAMP OUTPUT CHANNEL A ..... A ¼" standard jack provided for either external accessory, additional power amps, or recording output connection from channel A only. The output at this jack is variable with the channel volume control at 0 to 400 mv.

10. PREAMP OUTPUT CHANNEL B ..... A ¼" standard jack provided for either accessory, additional power amps, or recording output connection from channel B only. The output at this jack is variable with the channel volume control at 0 to 400 mv.

*For 120 VAC operation

# SPECIFICATIONS*

| | |
|---|---|
| 1. POWER OUTPUT | 160 WATTS RMS into 4 OHMS AT 5% THD<br>300 WATTS RMS into 2 OHMS AT 5% THD |

| 2. INPUT JACKS | LEVEL | INPUT IMPEDANCE |
|---|---|---|
| A. INSTRUMENT JACKS (0db) | 24 mv | >100 k ohms |
| (WITH -10db PAD) | 80 mv | >100 k ohms |
| B. PREAMP INPUTS TO POWER AMP | 400 mv | 50 k ohms |

| 3. OUTPUT JACKS | LEVEL | LOAD IMPEDANCE |
|---|---|---|
| A. PREAMP OUTPUT JACKS | 0-400 mv | <1 k ohms |
| B. SPEAKER JACKS | 160 WATTS | 4 ohms |
| | 300 WATTS | 2 ohms |

| | |
|---|---|
| 4. HUM AND NOISE (VOLUME FULL UP, POWER BOOST OFF, TONE CONTROLS 12 O'CLOCK, BRIGHT SWITCH OFF) | -76 db BELOW RATED OUTPUT |

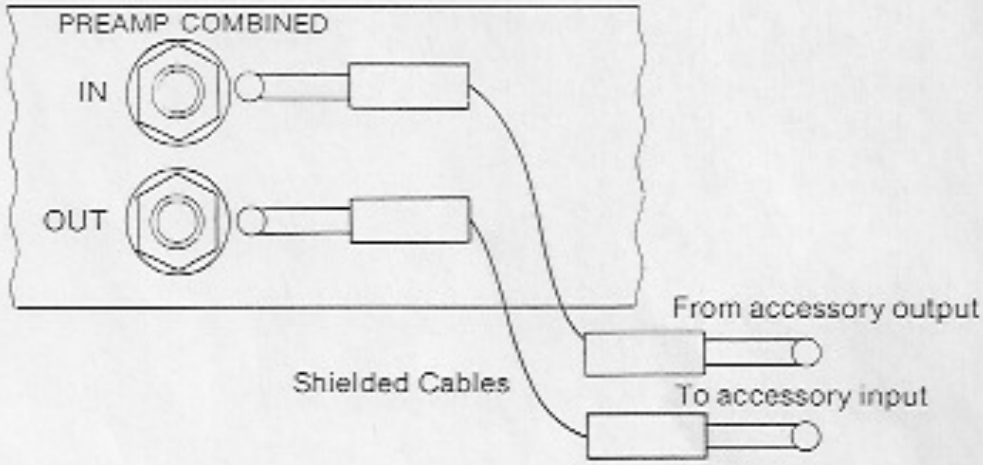
| 5. TONE CONTROL RANGE | FREQUENCY | TOTAL RANGE |
|---|---|---|
| A. BASS CONTROL | 150 Hz | 32 db |
| B. MIDRANGE CONTROL | 600 Hz | 36 db |
| C. TREBLE CONTROL | 6 K Hz | 36 db |

*ALL SPECIFICATIONS NOMINAL AND RATED AT 120 VOLTS AC OPERATION.

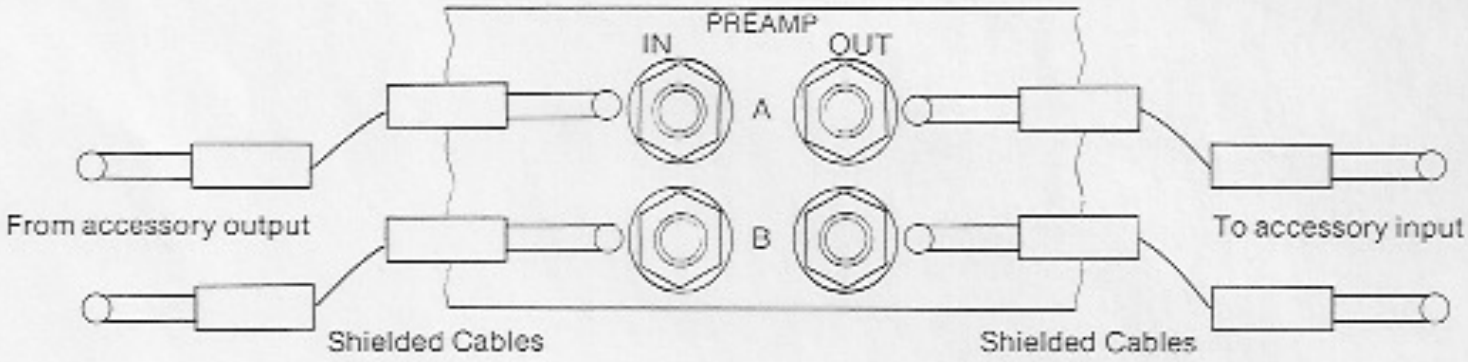
# EXTERNAL CONNECTIONS

## 1. EXTERNAL ACCESSORY

### A. Combined Channels



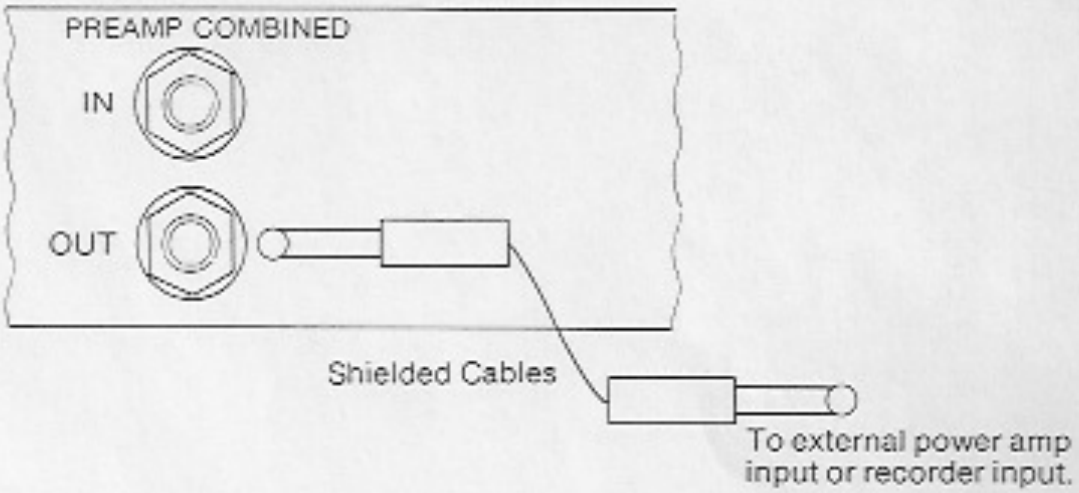

### B. Individual Channels (Channel A or B)



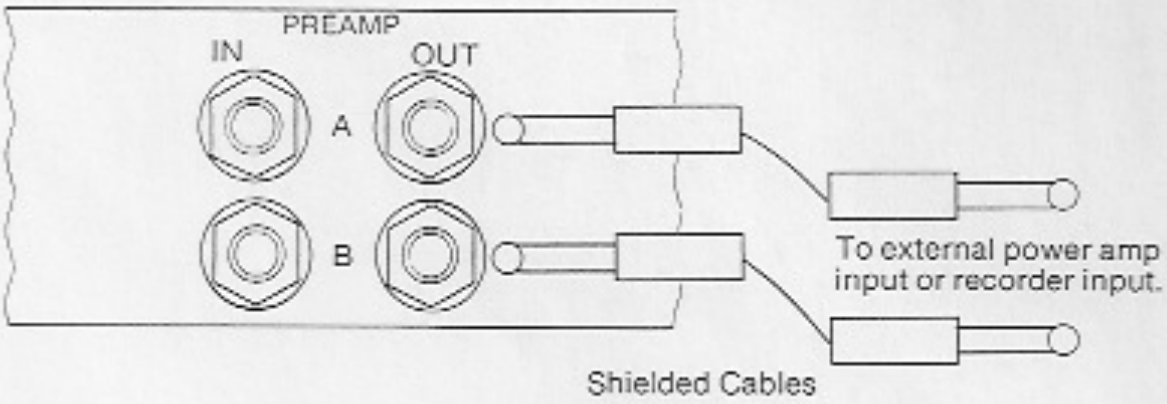
# EXTERNAL CONNECTIONS

## 2. EXTERNAL POWER OR RECORDING

### A. Combined Channels




### B. Individual Channels (Channel A or B)




## THE PROTECTION DEPARTMENT*

Every ACOUSTIC customer gets to choose between two types of protection for his unit. You can choose between Lifetime Protection for a nominal fee per item, or Six Month's Protection at no charge.

Enclosed with your ACOUSTIC amp or speaker system is a PROTECTION DEPARTMENT Brochure and Registration Card. Just fill out the registration, indicate Lifetime or Six Month Protection, enclose a check for each item if you want the Lifetime Protection and use the business reply envelope also enclosed.

PROTECTION IS VALID ONLY IF THE REGISTRATION CARD IS COMPLETED AND MAILED TO ACOUSTIC WITHIN TWENTY (20) DAYS FROM THE DATE OF PURCHASE.

Should an ACOUSTIC product require service, you must take the product to an authorized ACOUSTIC PROTECTION CENTER for repair in order for Protection to be effective. Once the product has been delivered to the PROTECTION CENTER, all repairs will be made free of charge to the original purchaser during the term of the Protection Contract and as long as the product has not been misused or mishandled.

## IMPORTANT

It is necessary for your ACOUSTIC product to be registered in the event it should ever require service. In order to register your new ACOUSTIC product and receive the services of THE PROTECTION DEPARTMENT, fill out the registration card enclosed with the unit (along with this manual) completely and return it to ACOUSTIC within twenty (20) days of the purchase date. PLEASE PRINT LEGIBLY. You will receive your PROTECTION DEPARTMENT I.D. CARD by return mail.

To avoid unnecessary expense, an owner who desires service on a piece of equipment must always bring his I.D. Card to the authorized ACOUSTIC PROTECTION CENTER when the equipment is taken there. If the card is not presented at that time, a phone call will have to be made to the factory to establish the Protection Contract on the equipment.

*Available through authorized United States dealers only.

# AMPLIFIER LINE VOLTAGE REQUIREMENTS

1. 120 Volts Line ..... Used in U.S.A. or where Line Voltage is specified as 110V thru 120V — 50/60 Hz Lines.

2. 240 Volts Line ..... Used where Line is specified as 210V thru 220V — 50/60 Hz (Mostly European countries).

## CAUTION

USE OF EQUIPMENT WITH ANY VOLTAGES OTHER THAN LISTED ABOVE MAY SEVERELY DAMAGE UNIT. CONSULT AUTHORIZED PROTECTION CENTER FOR CORRECT VOLTAGE REQUIREMENTS.

*Note: Voltage select switch is located inside main console and should be serviced by an authorized technician only.*