

OWNERS MANUAL

Fender[®]

MUSICAL INSTRUMENTS

1300 E. Valencia Fullerton, California 92631

PA 100

Vocal Sound System

MANUAL NO. 011156 (C/GE)

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Vocal Sound System

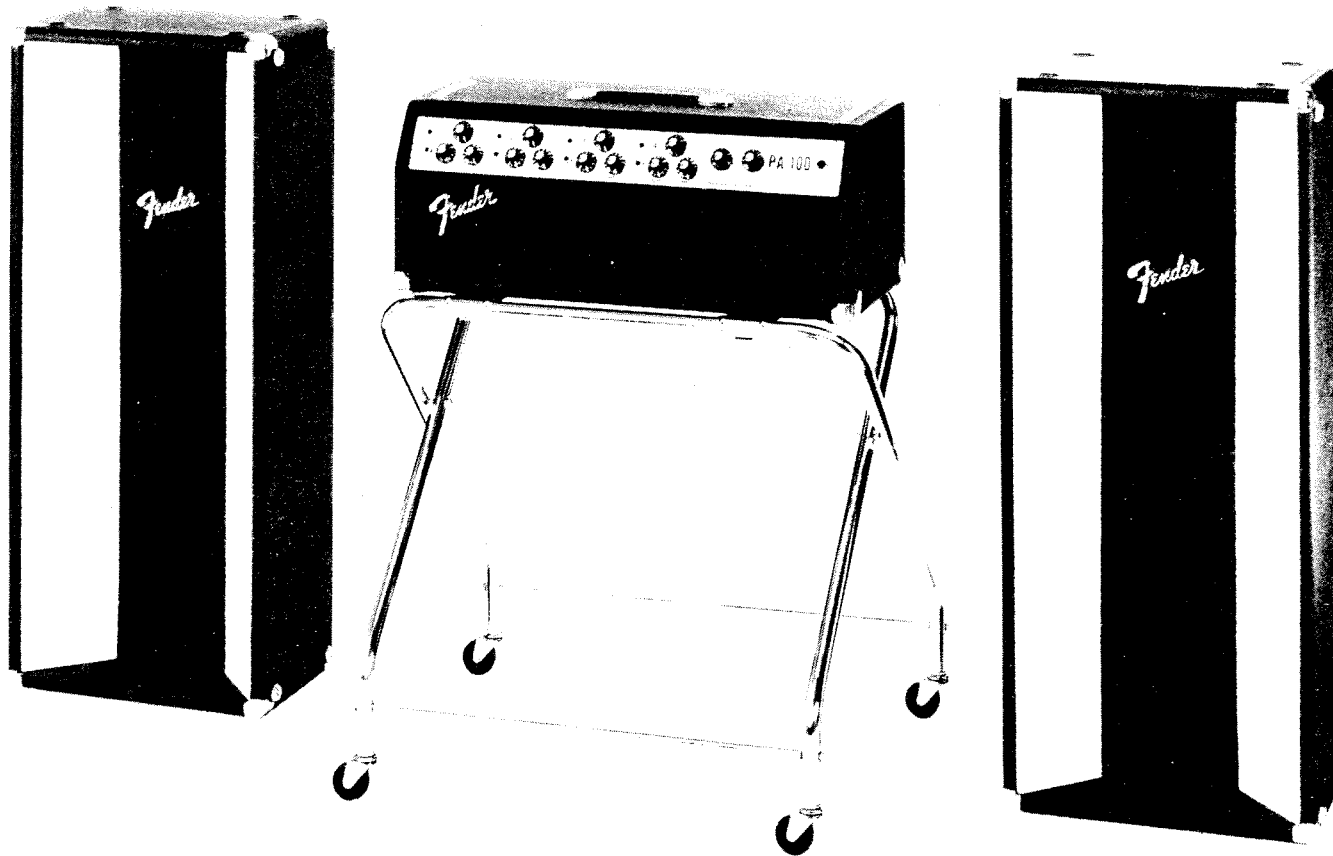
Your selection of the Fender Vocal Sound System will be rewarded with years of high quality audio performance.

This booklet is designed to familiarize you with the equipment and to acquaint you with its many fine features. Please read it carefully before setting up this Vocal Sound System for the first time.

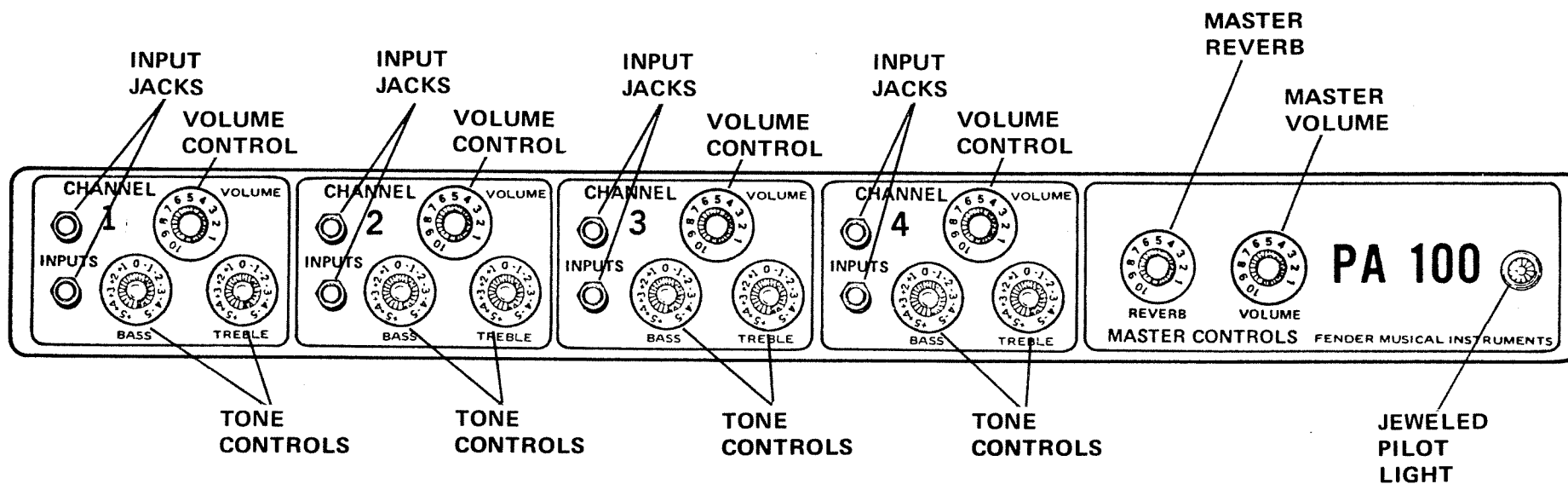
The Warranty Card is contained in the back section of this manual. Be sure to fill in and mail the Warranty Card.

FEATURES

- 100 watts RMS power into 4 ohms with 220 watts peak music power.
- Four separate input channels. Two jacks for each channel.
- High or Low Impedance Microphones. (See Page 2).
- Each channel's controls separated and numbered for easy identification.
- Two portable speaker columns each containing 4 8-inch high fidelity speakers.
- Four separate sets of volume and tone controls allowing boost and cut of both treble and bass on each of the four channels.



FRONT PANEL



FRONT PANEL FUNCTIONS

INPUT JACKS

The Fender PA100 is designed to operate up to 8 microphones simultaneously. For best results, the popular "high" impedance microphones should be used. However, in the event that microphone cables in excess of 20 feet are necessary, the use of "low" impedance microphones with a plug-in impedance matching transformer is recommended in order to maintain the treble response.

CONTROLS

Volume Control — Controls volume for individual channel outputs.

Treble Control — Provides additional high frequencies as required.

Bass Control — Regulates desired amount of bass response.

MASTER CONTROLS

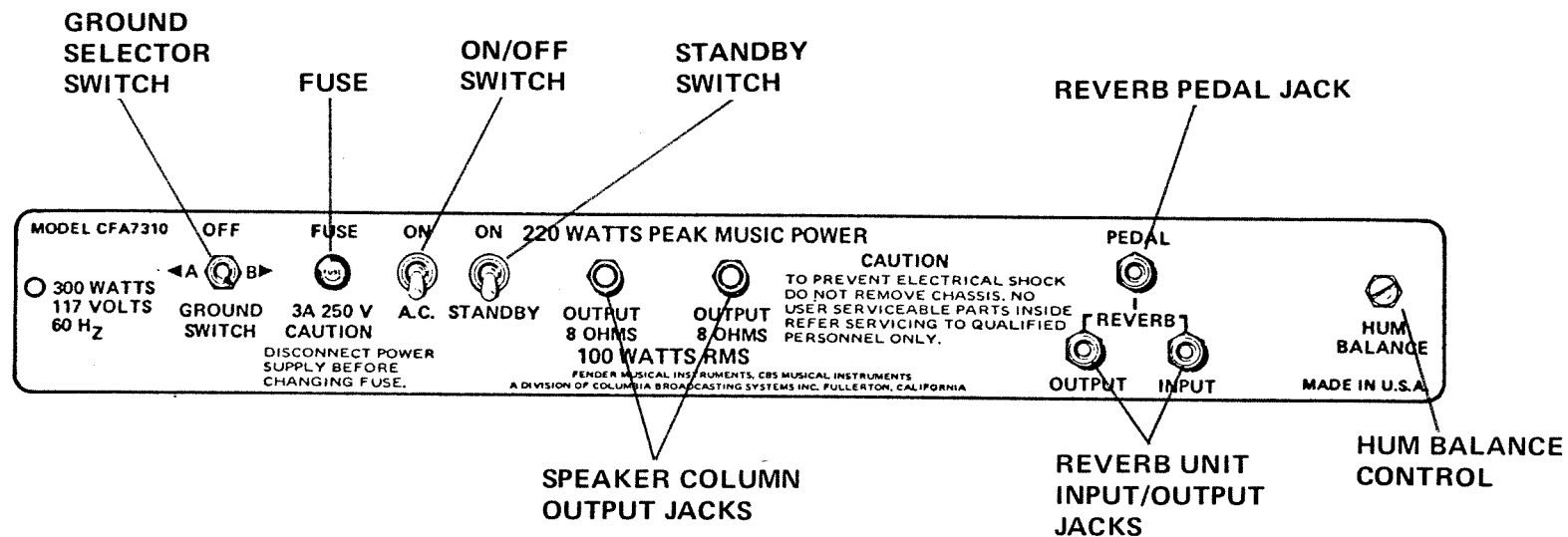
Reverb Control — Regulates amount of reverb for all channels simultaneously.

Volume Control — Simultaneously controls the output of all channels of the amplifier.

JEWELLED PILOT LIGHT

Indicates when amplifier is turned on.

REAR PANEL



REAR PANEL FUNCTIONS

GROUND SWITCH

Gives player control of polarity. Position "A" and "B" ground to each side of the AC line respectively. The "Off" position disconnects all but the third line chassis ground. Try each position to find minimum hum condition.

FUSE

Caution — Disconnect amplifier AC plug from outlet before changing fuse. Remove fuse by pressing in and unscrewing cap. Use fuse type specified on chassis back plate.

ON/OFF SWITCH

Turns amplifier on and off.

STANDBY SWITCH

Allows tube filaments to remain heated during standby periods. Amplification is instantly available without warm-up time. No danger of unwanted sound when in quiet periods.

SPEAKER COLUMN OUTPUT JACKS

Connect output of amplifier to each of 2 speaker sound columns.

REVERB PEDAL JACK

Foot switch jack, for on/off foot control of reverb.

REVERB INPUT/OUTPUT JACKS

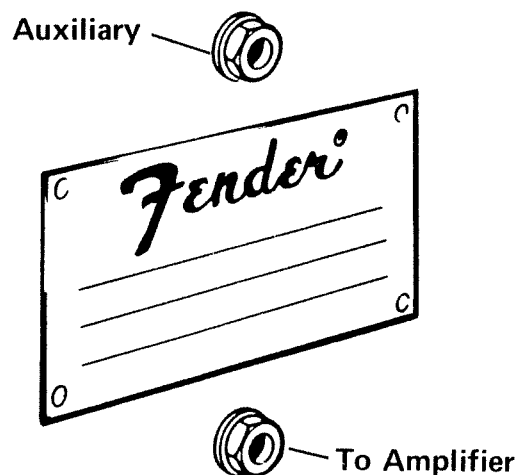
Connect to internally mounted reverbation unit.

HUM BALANCE CONTROL

Once the ground switch has been positioned to provide minimum hum, the hum balance control can be used to further reduce hum. This control should not need adjustment unless tubes or other components have been changed.

SOUND COLUMN FEATURES

- Each 8 ohm column is supplied with four 8" high efficiency speakers.
- Two jacks are installed on each column.
- It is suggested that the lower jack be used to connect the SOUND COLUMN to the amplifier. The upper jack is convenient for connecting an optional auxiliary horn tweeter, monitor speakers or any additional sound column.



OPERATION NOTES

If the red pilot light doesn't light when the power switch is turned "on," verify that the AC cord is plugged into an operating outlet and that the fuse is installed and operable. If in doubt try a new fuse.

If there is no sound:

1. Verify that the "STANDBY" switch is in the "ON" position.
2. Check the volume control on the channels in use and the Master Volume Control. At the "1" setting, the volume is off.
3. Inspect the microphone and speaker plugs for positioning in their respective jacks.
4. If the microphone you are using has an on/off switch, be sure this switch is in the "on" position.
5. Check for bad connections or broken lines or connectors between the major components of the P.A. system.

Minimizing Feedback

Acoustic feedback is the condition which occurs when the microphone picks up a sound from the speakers and the sound is reamplified over and over until it builds into a loud, ear-splitting roar. This condition can develop with any Public Address System. A room will have a maximum volume level and when the volume is increased above that level feedback will result. The following suggestions will increase the volume which can be used in any given area without feedback resulting.

1. Use a high quality uni-directional microphone of a high impedance dynamic type.
2. Experiment with the placement of the speakers and microphone in each room where the system is to be used. Placing the speakers in front of the microphone is a good place to start.
3. Tone control settings are most important when using the Vocal Sound System. Careful checking of various tone settings will often improve coverage and increase the intelligibility factor.

ACCESSORIES



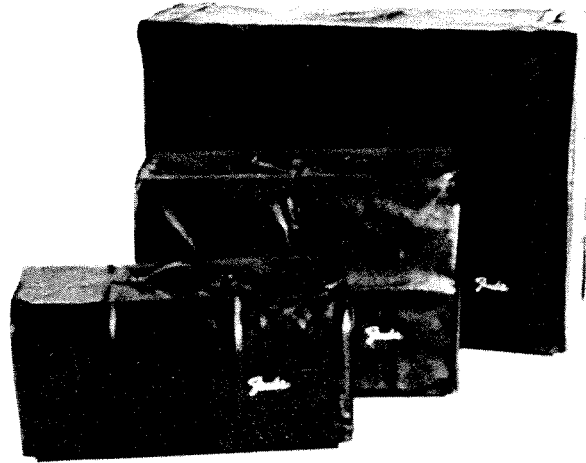
HIGH FREQUENCY HORNS

Increase treble response. Especially useful where maximum projection is required.

PLACE
STAMP
HERE

UNIVERSAL STAND

Designed to adapt to P.A. tops, this stand offers convenience casters and heavily plated all metal components.



FIBER CASES

For those desiring the utmost in amplifier protection. These cases are of .060" fiber, have nickel plated corners. Cases are available with or without swivel casters.

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Attn: Warranty Registration

WARRANTY

Fender Musical Instruments warrants this product to be free from defects in materials and workmanship for a period of one year from date of purchase. The warranty herein extends only to the original purchaser at retail of a new product. This warranty shall not apply to products purchased from anyone other than an authorized Fender dealer, or to products which have been subject to alteration, misuse, accident, neglect (such as extremes of temperature and/or moisture), or to wear resulting from normal usage.

The warranty herein becomes effective upon receipt of the completed attached owner registration card within ten (10) days after date of purchase. Upon its receipt the owner will be sent a personalized Fender warranty identification card. Presentation of the card within the warranty period will entitle the owner to receive authorized service and repair from any authorized Fender dealer. Such service and repair shall include all labor and materials necessary to make the repairs and replacements covered under the terms of this warranty.

If the product must be returned to the factory service center for repair, it must be accompanied by an authorized Fender dealer's written direction to such effect and a Fender shipping label. Transportation charges to and from the service center shall be borne by the owner unless otherwise specified by law. This warranty is expressly in lieu of all other agreements and warranties, express or implied, except as may be otherwise required by law.

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WARRANTY REGISTRATION CARD PA100

The Fender warranty becomes effective only if this card is returned to Fender Musical Instruments within ten (10) days after purchase. It should be filled out, signed, detached, and mailed immediately. Upon receipt of this card, you will be mailed your Fender-owner identification card.

Purchase date _____ Serial No. _____

Owner's name _____ Age _____ Sex _____

Address _____ City _____ State _____

Zip _____ Purchased from _____

City _____ State _____

Owner's Signature _____

I am: professional semi-professional amateur

I bought a Fender because of:

Personal preference Advertising Reputation Recommended Other

Education: _____ Years _____

List two of your favorite magazines _____