

# OWNER'S MANUAL

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**Fender**<sup>®</sup>

CBS MUSICAL INSTRUMENTS

1300 E. Valencia Fullerton, California 92631

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**400 PS**

**BASS AMPLIFIER**



# 400 PS

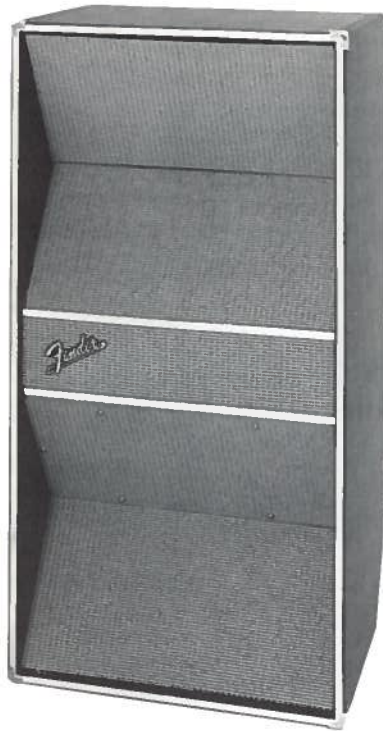
**435 WATT R.M.S.  
VACUUM TUBE**

## **BASS AMPLIFIER**

**INCLUDING "NORMAL" CHANNEL  
WITH REVERB AND VIBRATO  
FOR GUITARS AS WELL AS  
BASS INSTRUMENTS.**

NOTE: For *MAXIMUM* Service Life.

The amplifier should be operated in the stand, definitely *NOT ON TOP* of the speaker.



NOTE: This speaker is especially designed and built for Super Bass.

## **INTRODUCTION**

Here is the power which has never before been delivered by a bass amplifier. Three 145 watt channels with 435 total watts RMS power, when three speaker columns are used. Fantastic? But it's only the small part of the 400 P.S. story. The big part is the quality of the sound.

The beautiful musical harmonics and overtones which were gone with the whisper of the old acoustic bass are back. Now the bassist has the power to project an extraordinary sound in the largest hall or the smallest room.

A single speaker enclosure large enough to utilize 435 watts, without damage to the speaker would be too large to be portable. For this reason, we have divided the available power into three separate speaker output jacks. This feature enables the user to alternate jacks for triple output tube life.

The basic 400 P.S. configuration is the amplifier and one speaker enclosure which will deliver an effective 145 watts RMS.

Another speaker enclosure will double the effective wattage to 290 watts. Using a third speaker enclosure, the full 435 watts will be realized.

# AMPLIFIER-FRONT CONTROLS

## POWER ON/OFF

Master Power control for amplifier. Associated red pilot light is lighted when amplifier is turned on.

## DEEP SWITCH/ BASS CHANNEL

Adds depth in bass channel to all notes and especially the bass notes.

## INPUT JACKS/ NORMAL CHANNEL

Intended for use when the 400 P.S. Amplifier is used with guitar speakers. Use jack #1 when one guitar is played. The #2 jack should be used for an additional instrument and microphones or other equipment with a high output level. *Normal channel may also be used to achieve guitar tonality with the electric bass.*

## BRIGHT SWITCH/ NORMAL CHANNEL

Adds extra brightness to all notes, especially high frequency notes.

## SPEED DIAL

Controls the rate of vibrato.

## REVERB DIAL

Increases reverberation from zero to maximum.

## BASS DIAL/ NORMAL CHANNEL

Regulates desired amount of bass response.



## STAND BY

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

## INPUT JACKS, BASS CHANNEL

When one instrument is used, use Jack #1. Use the second jack for the second instrument or equipment with a high level output.

## VOLUME DIAL/ BASS CHANNEL

Volume control with volume setting from zero to full power output.

## TREBLE DIAL/ BASS CHANNEL

Provides additional high frequencies at a controlled rate.

## BASS DIAL/BASS CHANNEL

Regulates desired amount of bass response.

## VOLUME DIAL/ NORMAL CHANNEL

Provides volume settings from zero to full power output.

## TREBLE DIAL/ NORMAL CHANNEL

Provides additional high frequencies at a controlled rate.

## MIDDLE DIAL/ NORMAL CHANNEL

Increases presence and accents middle register.

## INTENSITY DIAL/VIBRATO

Controls amount of vibrato.

## MASTER VOLUME DIAL

Controls all volume from the Bass and Normal channels. Overrides individual channel volume controls.

## FUZZ EFFECT

This is achieved when volume is advanced and master volume is set below 8.

# -REAR CONTROLS

## POWER OUTPUT JACKS (3)

Each of three jacks with a separate output to an individual speaker of 145 watts, for a total amplifier output of 435 watts RMS.

## OUTPUT TUBES MATCHING

Inset blade screw slot used to adjust for maximum output, minimum distortion when new power tubes are installed.

## REVERB, VIBRATO JACKS FOR FOOT CONTROL

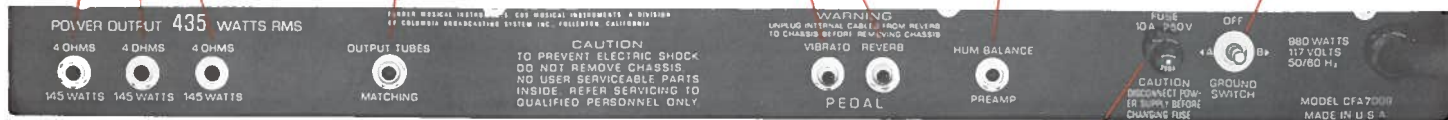
Foot control switch gives player "on/off" control of vibrato and reverb.

## HUM BALANCE, PREAMP

Inset blade screwdriver slot used to adjust preamp to minimum hum level.

## GROUND SWITCH

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



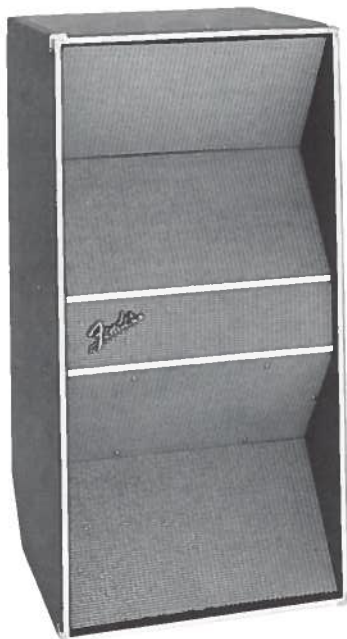
## Caution:

This is a 435 Watt RMS tube amp. **Do Not Block** any ventilation screens. As with all true heavy duty equipment, the "power" should be turned on at least 15 seconds before the "standby". For max. service, turn off the "standby" when the amp. is not in actual use.

## FUSE

**Caution:** Disconnect amplifier A.C. plug from outlet before changing fuse.

Remove fuse by pressing in and unscrewing cap. Use 10 amp, 250 volt fuse for replacement.



## SPEAKER ENCLOSURE NOTE

To prevent rattles, remove the casters at the top of the speaker enclosure before using speaker. These utility casters are to be used only when transporting the enclosure.

## SPEAKER ENCLOSURE TECHNICAL DATA

400 P.S. Bass Speaker (Bass use only)

Part Number:

Number of Speakers Used: One 18" speaker

Total Impedance: 4 ohms

Voice Coil Size: 3 inches

## CORRECTIVE CHECK LIST

If your amp and speaker are set up, but *do not* work, check the following items:

- Is the amplifier plugged in?
- Is the power at the wall plug where the amplifier is plugged in?
- Is the amplifier volume turned up so the signal is available?
- Is the "master volume" control turned up?
- Are the tone control knobs turned up to 4 or more?
- Is the amplifier properly connected to the speaker?
- Is the volume control on your electric bass turned up?
- Is the fuse good?

If, after checking all of the above, the system is still not performing correctly, consult your authorized Fender Service Dealer.

## PARTS LIST

Part Name	Part Number
<b>Amplifier</b>	
PhotoCell Assembly (Bug Unit) .....	00030874
Tube Label .....	00128488
Transformer (Choke) .....	00022699
Transformer (Reverb Driver) .....	00022921
Knob Control .....	00092585
Transformer (Power) .....	00128082
Transformer (Output) .....	00128090
Transformer (Driver) .....	00128108
Bias Pot Assembly .....	00131748
Couplate Filter .....	00064592
Switch Rocker DPDT .....	00128744
Schematic No. ....	00129049
Corner Metal .....	00024695
Handle Cap .....	00025395
Handle .....	00025403
Handle Screw .....	00054262

## SPEAKER ENCLOSURE

Caster, Upper, Removeable .....	00123513
Caster, Lower .....	00139071
Speaker, 18 inch .....	00138925

## STAND

Universal Power Unit Stand .....	09901540
Caster for Stand .....	00137364

## UNDERWRITERS

Laboratories Listed .....	CFA7009
C.S.A. Approved	

# WARRANTY

CBS Musical Instruments warrants to replace and authorizes replacement labor for any parts which become defective during normal use for a period of ninety (90) days after purchase. CBS Musical Instruments will extend this warranty to a period of one (1) full year from purchase date provided the purchaser completes and mails the attached warranty registration card within ten (10) days of the date of purchase. This warranty is valid if the 400 P.S. Bass Amplifier is purchased new from an Authorized Fender dealer and the equipment has not been modified, misused, or mishandled in the judgment of CBS Musical Instruments and their authorized repair dealer. The equipment must be returned to an Authorized Fender dealer in the event service becomes necessary.

## IMPORTANT!

FOR WARRANTY EXTENSION TO ONE YEAR,  
READ PROVISIONS STATED ABOVE.

### WARRANTY REGISTRATION CARD

400 PS BASS AMPLIFIER

PURCHASE DATE \_\_\_\_\_ SERIAL # \_\_\_\_\_

PURCHASER NAME \_\_\_\_\_ AGE \_\_\_\_\_ MALE \_\_\_\_\_ FEMALE \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DEALER \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

OWNER SIGNATURE \_\_\_\_\_

This system will be used by \_\_\_\_\_ In Club \_\_\_\_\_ At School \_\_\_\_\_

**CBS MUSICAL INSTRUMENTS**  
A DIVISION OF THE  
COLUMBIA BROADCASTING  
SYSTEM INC.

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PLACE  
STAMP  
HERE

**CBS MUSICAL INSTRUMENTS**  
1300 E. Valencia  
Fullerton, California 92631

**Attn: Warranty Registration**