

FENDER SOLID-STATE ECHO CHAMBER

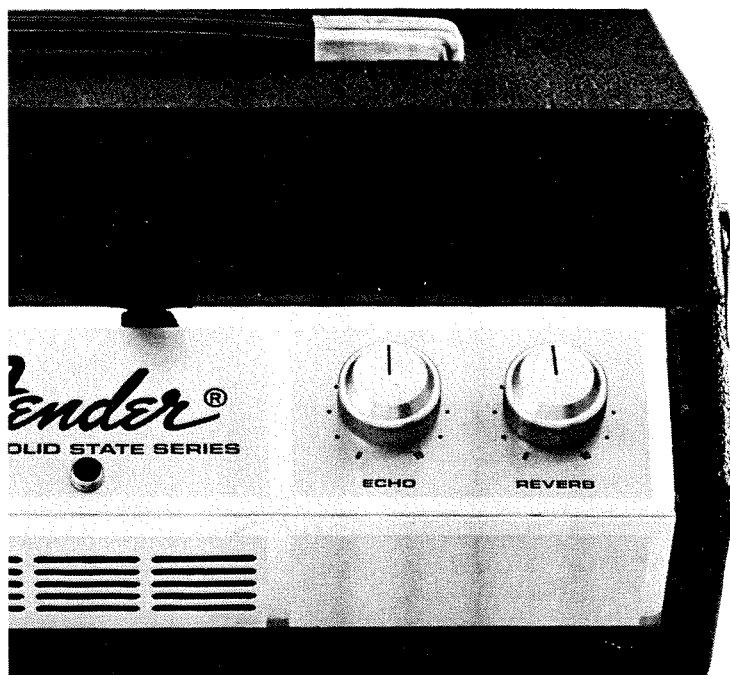


CONGRATULATIONS

Congratulations! You have just purchased a wealth of entertainment pleasure with your new Fender Solid-State Electronic Echo Chamber. Welcome to the discriminating family of Fender Equipment owners. You have the satisfaction of knowing that your new Fender unit is the world's finest in sound equipment. The custom-crafted care of Fender tradition incorporates the latest engineering advances in solid-state, all-transistor circuitry and design. Your new Fender Solid-State Electronic Echo Chamber offers you a variety of outstanding features to explore and experience, so review this Owner's Manual carefully.

To prolong and increase the playing enjoyment of your new Fender Solid-State Electronic Echo Chamber, be sure to read the section entitled "Suggestions for Maintenance" and "Suggested Accessories." Please complete and return the attached warranty card, and record your equipment serial number and model number for its protection for you.

This is an operation manual for owner's convenience. For detailed schematics, circuit diagrams, and maintenance data, see your Fender dealer for a service manual at a nominal charge.



OPERATION

1. Insert the output cord from instrument or microphone into the Input Jack of the Echo Chamber.
2. Connect a cord from the Output Jack of the Echo Chamber to an Input Jack of an amplifier.
3. Make certain that the tape is threaded properly and travels freely.
4. Switch the Echo Chamber and amplifier to "on".

NOTE: When using the FE-1000 Echo Chamber with the Fender 4100 Public Address System, connect Echo Input and Output to P.A. Echo Input and Output Jacks on the back panel. Switch the Echo Chamber P.A. /Normal Switch to P.A. position.

CONTROLS

FOOT SWITCH: A phone jack receptacle which will receive the Fender Remote Foot switch, thus enabling the performer to switch echo and reverberation on and off.

OUTPUT JACK: Plugs into input of your amplifier.

INPUT JACKS: Two instrument or microphone inputs are provided.

GAIN SWITCH: "Hi" position is used for low signal such as guitar, bass, piano etc., or high impedance single instrument devices.

"Lo" position is used for high signal output level devices (such as F.M. tuner mike preamplifiers, etc..) to prevent overloading. "Lo" position gives a reduction in input signal.

ECHO DELAY LEVER: Adjusts the delay of the echo. To obtain maximum delay, the lever is moved to the left.

ECHO CONTROL: Regulates the intensity of the reproduced echo signal.

REVERB CONTROL: Controls the number of times the echo signal is repeated.

P.A. SWITCH (Normal Position): Provides a straight-through signal from the source (guitar, mike, etc.) to the internal pre-amp of the Echo Chamber. The original note or sound and subsequent echos from the Echo Chamber are amplified by the P.A. System.

P.A. SWITCH (P.A. position): Interrupts the straight-through signal from the source to the internal pre-amp of the Echo Chamber and provides a direct path to the delay tape of the Echo Chamber. The first and subsequent echos of the note or sound are amplified by the P.A. System.

ON-OFF SWITCH: Turns the unit on and off.

LINE FUSE: 3/4 AMP SLO-BLO

REVERB LIMIT CONTROL: This control limits the number of times the echo is allowed to repeat when the Reverb control is in full clockwise position.

NOTE: Reverb Limit Control can be set to exceed the point at which the echo becomes self sustaining, in which case a runaway condition results and the unit become inoperative. This condition is corrected by turning this control counterclockwise.

TAPE MAINTENANCE AND REPLACEMENT

INSTALLING TAPE CARTRIDGE: Having removed the old tape cartridge, inspect the new tape cartridge to ensure tape is not turned or twisted and that the tape travels freely out of the slot. Mount the cartridge on the two spindles and thread tape according to diagram and tape deck. See Figure 1.

CLEANING AND CARE: Tape Heads-A cotton swab dipped in isopropyl alcohol will clean the magnetic dust, etc., that will accumulate on the heads. Be sure to remove the tape before cleaning the heads, and that the heads are thoroughly dry before replacing the tape. Cleaning the tape heads as described is a must in order to get the

maximum results from the unit and to insure a longer tape and tape head life. This cleaning should be done about every 10 hours of usage.

NOTE: Do not throw away used cartridges as they can be rewound for a nominal fee at your authorized Fender Service Centers.

CAUTION: Make certain tape is properly threaded before power is turned on. See Figure 1.

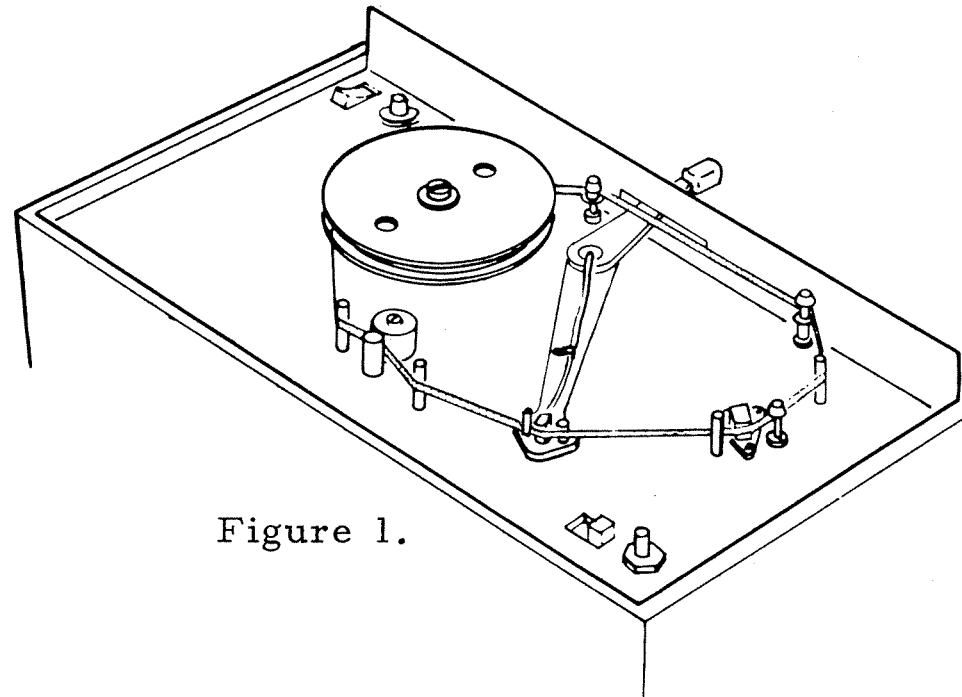


Figure 1.

WARRANTY

Fender Musical Instruments warrants the parts in any Fender Solid-State Electronic Echo Chamber to be free from defects in workmanship and material arising from normal usage. Its obligation under this warranty is limited to replacing any such parts of the solid-state Electronic Echo Chamber which, after regular installation and under normal usage and service, shall be returned within ninety (90) days from the date of original purchase of the solid-state Electronic Echo Chamber to the authorized dealer from whom the purchase was made and which shall be found to have been thus defective in accordance with the policies established by Fender Musical Instruments. All transistors are guaranteed for one year. The obligation of Fender Musical Instruments is limited to making replacement parts available to the purchaser, and does not include either the making or furnishing of any labor in connection with the installation of such replacement parts nor does it include responsibility for any transportation expense.

Fender Musical Instruments assumes no liability and shall not be liable in any respect for failure to perform or delay in performing its obligations with respect to the above warranty if such failure or delay results, directly or indirectly, from any perference, priority or allocation order issued by the Government, or because of any other act of the Government, or by war, conditions or war, inadequate transportation facilities, conditions of weather, acts of God, strikes, lockouts, Governmental controls, or Fender's reasonable requirements for manufacturing purposes, or any cause beyond its control or occurring without its fault, whether the same kind or not.

CONDITIONS and EXCLUSIONS This warranty is expressly in lieu of all other agreements and warranties, expressed or implied, and Fender Musical Instruments does not authorize any person to assume for it the obligations contained in this warranty and neither assumes nor authorizes any representative or other person to assume for it any other liability in connection with such solid-state Electronic Echo Chamber or parts thereof.

The warranty herein extends only to the original consumer purchaser and is not assignable or transferable and shall not apply to any solid-state Electronic Echo Chamber or parts thereof which have been repaired or replaced by anyone else than an authorized Fender dealer's service contractor, or which have been subject to alteration, misuse, negligence or accident, or to the parts of any solid-state Electronic Echo Chamber which have had the serial number or name altered, defaced or removed.

If during your one (1) year warranty period you should experience a malfunction with your unit that cannot be corrected by test information in this owner's manual, we suggest you either return it to your dealer, so that he may forward it, or return it directly to a Fender Service Center.

Fender Musical Instruments—A Division of Columbia Broadcasting System, Inc.

MODEL NAME _____		SERIAL NUMBER _____	
NAME _____	AGE _____	MALE _____	FEMALE _____
ADDRESS _____	CITY _____	STATE _____	
DEALER NAME _____	CITY _____	STATE _____	

<input type="checkbox"/> I play: <input type="checkbox"/> Country/Western <input type="checkbox"/> Folk <input type="checkbox"/> Jazz <input type="checkbox"/> Classic <input type="checkbox"/> Rock 'n Roll <input type="checkbox"/> Pop	<input type="checkbox"/> Student <input type="checkbox"/> I chose a Fender because of <input type="checkbox"/> a Friend <input type="checkbox"/> a Teacher <input type="checkbox"/> a Professional <input type="checkbox"/> Superior Quality <input type="checkbox"/> Company Advertising <input type="checkbox"/> Ease of playing	<input type="checkbox"/> Professional <input type="checkbox"/> I noticed Fender advertising <input type="checkbox"/> on TV (Station) _____ <input type="checkbox"/> on Radio (Station) _____ <input type="checkbox"/> in Newspaper (Name) _____ <input type="checkbox"/> in Magazine ad (Name) _____ <input type="checkbox"/> Dealer contact <input type="checkbox"/> Direct mail <input type="checkbox"/> Other _____
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STAMP
HERE

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Santa Ana, California