OWNERS

SIMANUAL.

SERVICE DATA

and

REPAIR PARTS LIST

for

SEARS | Silvertone

MUSICAL INSTRUMENT AMPLIFIER

MODEL NO. 1464

GUARANTEE

We guarantee the Silvertone musical instrument amplifier to be free from defects in material and workmanship for a period of one (1) year from date of sale.

Should a defect occur, return the part or amplifier to us and we will:

- 1. during the first ninety (90) days from date of sale at our option either repair or replace and install any defective parts or transistors free of charge.
- 2. after ninety (90) days and for the balance of the year at our option either repair or replace all defective parts and transistors, charging only for labor.

This guarantee does not provide free labor for service rendered in the home, nor does it include service necessitated by damage due to misuse, abuse, improper line voltage, fire or flood, lightning or other acts of God.

This guarantee applies to Silvertone Musical Instrument Amplifier purchased and used in the United States of America.

We reserve the right to make modifications in this product, and to add or delete, accessory items without incurring an obligation to prior purchasers.

SEARS, ROBBUCK OLD CO. U.S.A.

SILVERTONE ELECTRIC MUSICAL INSTRUMENT AMPLIFIER

OPERATING INSTRUCTIONS:

NESTING CABINETS... The amplifier nests within the speaker cabinet for convenience in storage and transportation. Always remove the amplifier from the speaker cabinet before turning it on. Otherwise, severe damage from lack of ventilation may result.

PLACEMENT... The amplifier may be placed within easy reach of the controls, with the speaker cabinet located anywhere up to 25 feet away. If preferred, the amplifier may be set on top of the speaker cabinet. Any excess wire should be folded by doubling and redoubling into a small hank and tucked into the elastic retainer on the inside wall of the speaker cabinet.

POWER SUPPLY... CAUTION: This amplifier is designed for operation from 105 - 120 volt, 60 cycle A.C. source. Never connect to a power supply having a different voltage or frequency.

SWITCHES... The switch on the panel turns the amplifier on and off. The two "on" positions permit selection of the position with minimum line hum. A separate two-button foot switch to be plugged into the appropriate panel jack provides "on-off" control of the Reverb and Tremolo.

CHANNEL ONE . . . Two inputs and three controls are provided. Set the tone controls as desired. If the instrument to be used with this amplifier provides its own volume control, set it at or near maximum and adjust the amplifier volume control to the lowest setting which provides adequate loudness. When Channel One is not used, turn volume control to zero.

CHANNEL TWO... This channel is similar to Channel One except that it also includes Reverberation and Tremolo effects. Adjust the Reverb "drive" control clockwise until a maximum is reached where there is no further increase in reverberation output. The correct setting will generally be between 5 and 10 depending on the particular guitar and your playing style. Adjust the "depth" control for the desired amount of reverberation. When reverberation is not required, turn both controls to zero. Tremolo is regulated by adjusting the "strength" and "speed" controls as desired. When tremolo is not required, turn the "strength" control to zero. NOTE: The reverberation unit contains microphone elements that are sensitive to vibration. Avoid accidental bumping of the amplifier while Reverb is in use since it may cause loud noises.

CONVENIENCE OUTLET... A convenience outlet is provided on the back panel of the amplifier for use with other electrical equipment. This outlet is independent of the "on-off" switch of the amplifier.

NORMAL CARE AND MAINTENANCE

SPEAKERS... The useful life of loudspeakers depends on the style of musical input. A smooth style that avoids rattling the speakers will preserve their life and be more effective musically. A forced style will cut speaker life very short. CAUTION: Do not shortcircuit speaker terminals or serious damage to solid state elements may result.

FUSE... A protective 3 ampere safety fuse is locate! on the back panel. Disconnect the amplifier from the power source before removing the fuse for examination or replacement. A blown fuse may be a warning of trouble in the amplifier requiring a careful checkup. Use only a 3 ampere Type 3 AG fuse for replacement.

FEEDBACK... A musical instrument or microphone used too close to the loudspeaker cabinet may cause loudspeaker howl. This is the acoustical effect of vibrations from the loudspeakers reflecting back into the instrument or microphone. Therefore, the speaker cabinet should be placed well to the right or left of the performer's position, as far as reasonably possible.

MUSICAL INSTRUMENT AMPLIFIER

-HOW TO ORDER PARTS:-

WHERE TO PLACE ORDER: Replacement parts may be ordered through any Sears, Roebuck and Co. U.S.A., or in Canada, Simpsons-Sears Limited Retail or Mail Order Store. Prices available upon application.

ORDER MUST STATE:
1. The Part Number
2. The Part Description 3. The Chassis Number 4. The Model Number

USED IN MODEL 1464

LOCATION OF CHASSIS AND MODEL NUMBERS:

The chassis number will be found on the back rail of the chassis. The model number will be found on the back rail of the chassis.

CHASSIS PARTS CABINET PARTS CAPACITORS No. Description SCHEMATIC LOCATION PART NO. DESCRIPTION C1,C6,C12,C18,C23 1464 CS Speaker 20-101 Mylar,.1 mfd., 100v. Cabinet C2,C3,C8,C11,C19,C20,C31 C4,C7,C10,C21,C24,C29,C33,C34 25-2525 Electrolytic, 25 mfd., 25v. with 20-47-200 Mylar, .47 mfd., 200v Mylar, 1 mfd., 200v Speaker 20-1-200 C5,C22 Baffle. 20-0472 Mylar, .047 mfd., 200v. C9 Grille C13,C16,C25 25-250-40 Electrolytic, 250 mfd., 40v. and Back Mylar,2200 pf.,200v Electrolytic, 4000 mfd.,2.5v. C14 20-0022-2 C15, C15A 25-4000-2 1464 CA Amplifier C17 20-680 680 pf. Cabinet Mylar, .22 mfd., 200v. 20-22-200 C35 7840 Handle and Electrolytic, 5500 mfd., 26v. 25-5500-25 C26,C27 Hardware C28 20-0476 Mylar, .047 mfd., 600v. Mylar, 4700 pf., 600v Electrolytic, 250 mfd., 16v. for Speaker 20-0047-6 C30,C36 Cabinet C32 25-250-16 7835 Handle and RESISTORS (All Resistors are ½ Watt 10%, unless otherwise noted) Hardware Schematic Location Part No. Description Schematic Location Part No. Description for Amplifier 18-68201 6.8k ohm 18-47201 4.7k ohm R1,R2,R20,R35,R36,R67 18-15301 15k ohm R21.R25 R3,R6,R37,R40,R51 R22,R49,R57,R59 Cabinet 18-10301 10k ohm R23,R26 18-33001 33 ohm R4,R16,R17,R38.R56 18-10401 100k ohm 12-H8 Speaker. R28,R48,R58 18-10101 100 ohm R5,R27,R39,R62,R65 18-39301 39k ohm 12 inch, R29, R31, R55 18-02701 2.7 ohm R7,R12,R24,R41,R46,R54 18-10201 1k ohm 8 ohm R30.R32 18-615-51 615 ohm, 5w R8.R10.R13.R42.R44. 15k ohm.control voice 22-15312 18-002751 .27 ohm, 5w R33,R34 R47,R50,R60 circuit board type coil 22-10601 1 megohm, control, circuit board type R61,R66 18-15201 R9.R43.R53 (2 used) 1.5k ohm 18-68001 68 ohm R11,R45 1 megohm 150 ohm 2.2k ohm R14,R15,R19 18-22201 18-22301 R18,R52 22k ohm MISCELLANEOUS PARTS Part Schematic Part Schematic Description Location No. Description No. <u>Location</u> Ľì PTR-51 Power Transformer S 5464 Nylon spacer, heat sink mtg. (6) Nylon shoulder washer, panel mtg. (3) T2DR-51 Drive Transformer W 5437 F1 68 Fuse Holder FBR Fiber washer, panel mtg. (3) SW1 72P Switch, toggle, dpdt., 3 pos. CO 1 Convenience outlet RU-MC2 Reverberation Unit J1,J2,J3,J4 B-11 Jack **S1.S2** B-12 SO-1 Socket Transistor Jack Tremolo Unit, light operated TU-X2 PC-1000 Printed circuit board(less components) PC-1000-1 Printed circuit board(inc.all components) CP-64 Control panel MEW Metal end (wired side) PL 1 Pilot lamp assy. Metal end (blank side) FS2-2 MEB Dual foot switch Bracket, reverb mtg., right CPR. Control panel rail RBR-1 Printed circuit board rail PCBR RBL-1 Bracket, reverb mtg., left PBM Bracket, panel mtg.(3) 1170 Knob HS1, HS2 HS-51 Heat sink (less transistor & socket) 1464 M Owner's Manual **SEMICONDUCTORS** TRANSISTOR ORDERING AND MOUNTING INFORMATION Schematic Location Part No. Description Q1 Q2 41-6068 Transistor Transistors Q6 and Q7 are factory matched pairs. When 42-6068 Transistor either transistor is replaced, a matched pair MUST be in-Q3 43-7296 Transistor 44-7296 Q4 Transistor stalled. To aid heat transfer, a coating of silicone compound Q5 Q6 Q7 Q8 45-5981 Transistor (G.C. No. 8101), or equivalent, must be applied between 46-3155 Transistor, 47-3155 Matched pair (see note) transistor case and heat sink. 48-3923 Transistor Also note that power supply voltages appear on Heat Sinks Q9 49-5981 Transistor ବ୍ୟୁ ବ୍ୟୁ ବ୍ୟୁ 410-3923 Transistor HS-1 and HS-2. Care should be exercised to avoid shorting

D1,D2,D3,D4 4-4397 Diode with heat sink - FILING INSTRUCTIONS File this page in numerical order in the Division 57 Radio Technical Manual. For current selling prices, availability and

the heat sinks to the chassis or to each other.

SF 57-

Q12

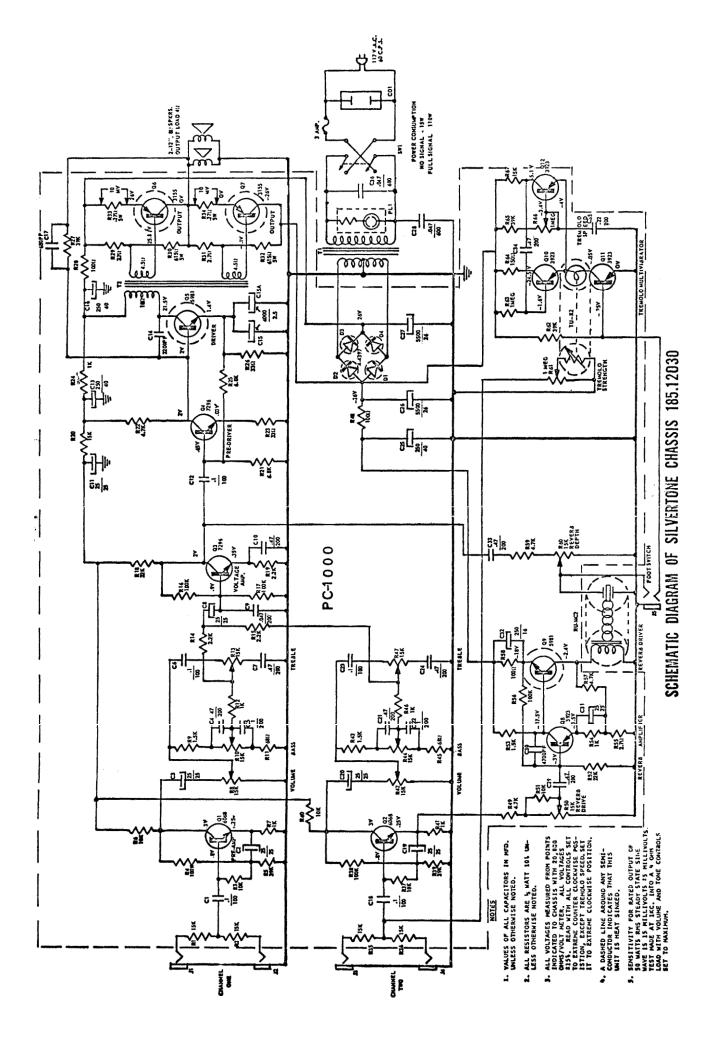
411-3923

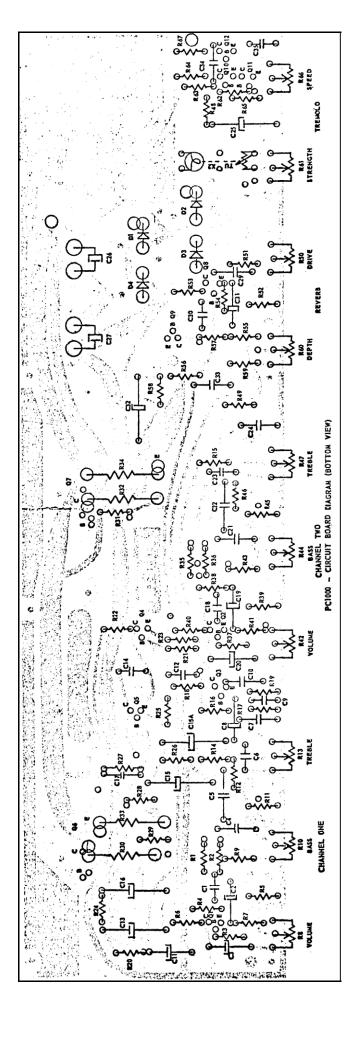
412-3923

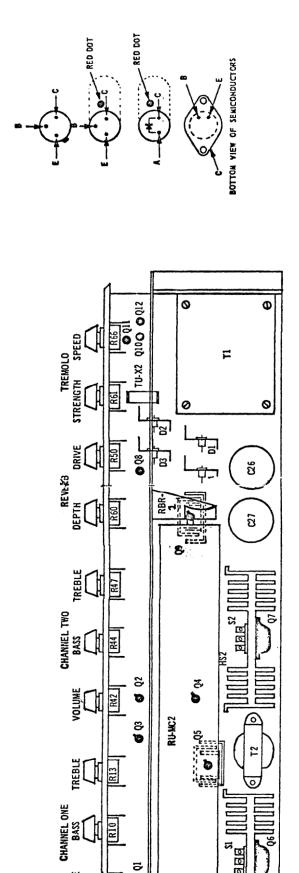
Transistor .

Transistor

ordering information refer to Division 57 Authorized Price List 185.00.







BOTTOM VIEW CHASSIS 185.12030