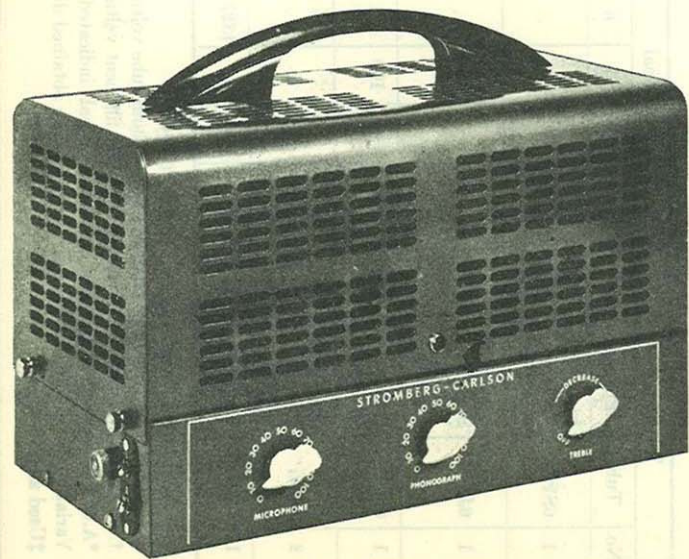


SYMBOL	DESCRIPTION	SC. NO.
G-1, C-2	CAPACITOR 500 MMF	29371
C-3	CAPACITOR .01 MF - 600 DC.W.V.	25485
C-4, C-5, C-7, C-11	CAPACITOR .05 MF - 400 D.C.W.V.	40632
C-6	CAPACITOR .003 MF - 400 D.C.W.V.	46315
C-8	CAPACITOR (A) 50 MF - 50 D.C.W.V. 15 MF - 300 D.C.W.V. (C) 30 MF - 350 D.C.W.V. (D) 50 MF - 450 D.C.W.V.	35590
C-9	CAPACITOR (A) 20 MF - 50 D.C.W.V. (C) 10 MF - 300 D.C.W.V. (D) 10 MF - 350 D.C.W.V. (E) 10 MF - 250 D.C.W.V.	34698
C-10	CAPACITOR 50 MF - 25 D.C.W.V.	41157
C-12	CAPACITOR .1 MF - 400 D.C.W.V.	25483
F-1	FUSE - 2 AMP. TYPE 3AG	23150
I-1	PILOT LAMP (RAYONET TYPE)	28025
J-1	CONNECTOR (MIC)	32644
J-2, J-3	RECEPTACLE (OUTPUT)	32417
J-4	BINDING POST (PHONO)	39421
P-1	A.C. CORD & PLUG	46302
R-1	POTENTIOMETER 1 MEG. (TREBLE)	39838
R-2, R-3, R-13, R-14, R-18	RESISTOR 1 MEG. $\pm 10\%$ , 1/2 WATT	28191
R-4, R-7	RESISTOR 68,000 OHMS $\pm 10\%$ , 1/2 WATT	28179
R-5, R-6, R-16, R-17	RESISTOR .33 MEG. $\pm 10\%$ , 1/2 WATT	28185
R-8, R-12	POTENTIOMETER 1 MEG. (VOLUME)	46313
R-9	RESISTOR .1 MEG. $\pm 10\%$ , 1/2 WATT	28006
R-10	RESISTOR 10,000 OHMS $\pm 10\%$ , 1/2 WATT	28170
R-11	RESISTOR 200 OHMS $\pm 5\%$ , 10 WATT	46357
R-15	RESISTOR 1500 OHMS $\pm 10\%$ , 1/2 WATT	28160
R-19	RESISTOR 3900 OHMS $\pm 10\%$ , 1/2 WATT	28165
R-20	RESISTOR 2200 OHMS $\pm 10\%$ , 1/2 WATT	28162
R-21	RESISTOR 2200 OHMS $\pm 10\%$ , 1 WATT	30616
R-22, R-23	RESISTOR 10,000 OHMS $\pm 10\%$ , 1 WATT	30417
R-24	RESISTOR 47,000 OHMS $\pm 10\%$ , 2 WATT	149060
R-25	RESISTOR 3500 OHMS $\pm 5\%$ , 10 WATT	46360
S-1	SWITCH (ON TREBLE CONTROL)	46317
T-1	TRANSFORMER (OUTPUT)	46316
T-2	TRANSFORMER (POWER)	46316
V-1	VACUUM TUBE 6SF5	41486
V-2	VACUUM TUBE 6J5	41132
V-3	VACUUM TUBE 6CS7	46713
V-4, V-5	VACUUM TUBE 6L6G	35756
V-6	VACUUM TUBE 5Y3GT/G	35836



Model AU-42 Amplifier

**FUSE REPLACEMENT**—When replacing a blown fuse use only a 2 amp. 250 volt, type 3AG. To use a fuse of higher rating will needlessly endanger the windings of the power transformer.

**REPRODUCER LINES**—When supplied as the Model PS-42 Portable, two speakers each with 25 feet of cable and plug are provided correctly-wired for insertion in the output sockets of the amplifier. One speaker case has a socket installed, into which the speaker cord plug of the second speaker can be inserted for cascade connection.

MODELS AU-42,  
PS-42

STROMBERG-CARLSON CO.

### SPECIFICATIONS

*Size with Cover:* Width 13½", depth 7½", height 10¼". Allow 1" front for knobs, 2" side and back for connectors.

*Weight:* Net 19 lbs., packed for shipment 22½ lbs.

*Tubes Supplied:* 1-6SF5, 1-6J5 or 6C5, 1-6SC7, 2-6L6G, 1-5Y3GT/G.

*Power Supply:* 105-125 volts, 50-60 cycles.

*Power Consumed:* 90 watts at 117 volts.

*Inputs:* One microphone, one phonograph, both high impedance.

*Controls:* One microphone, one phonograph, one treble attenuation control with combined on-off switch. Treble control provides up to 18 db. attenuation at 10,000 c.p.s.

*Power Gain:* 108 db. from microphone input, 75 db. from phonograph input, ratings based on 50,000 ohm input source impedance.

*Power Output:* 15 watts with less than 5% total harmonic content, measured at 400 c.p.s. with a supply voltage of 117 volts.

*Output Tap Impedances:* 4, 8, 15 and 500 ohms.

*Other Useful Output Impedance Values:* 350, 385, and 415 ohms. Obtained by connecting between taps. (See Output Line Matching of this data sheet.)

*Noise Level:* 55 db. below rated output.

*Frequency Response:* 75 to 10,000 c.p.s. Variation less than +0 db. -3 db. from the 400 c.p.s. value.

*Output Regulation:* Approximately 3 db. variation from full load to no load.

*Finish:* Glacier Gray.

### ADDITIONAL PARTS

In addition to the components shown on the schematic, it will be helpful to consult the following list of parts that might be required to properly service this amplifier.

Part No.	Description	Part No.	Description
27958	Fuse Holder	39844	Pilot Light Assembly
32643	External Microphone Connector	39847	Handle for Top Cover
32657	Speaker Line Connector	46306	Bottom Cover
39840	Knob	46310	Thumb Screw

### VOLTAGE CHART

Tube			Terminal							
No.	Tube	Purpose	1	2	3	4	5	6	7	8
1	6SF5	First Stage Voltage Amplifier	0	1.2	0	0	145	..	*6.3	*6.3
1	6J5 or 6C5	Second Stage Voltage Amplifier	0	*6.3	45	..	0	..	*6.3	1.6
1	6SC7	Driver-Inverter	0	100	0	0	100	1.1	*6.3	*6.3
2	6L6G	Push-Pull Power Output	0	*6.3	310	280	0	..	*6.3	21
1	5Y3GT/G	Rectifier	..	320	‡	‡327	..	‡327	..	320

No signal input. Power supply 117 volt, 60 cycles.

D.C. voltages measured to chassis using vacuum-tube voltmeter.

‡A.C. voltages measured to chassis. Rectifier filament voltage 5.0 measured between terminals 4 and 6.

\*A.C. heater voltage measured between terminals indicated.

Variations of ±10% from above values may be obtained due to variations in tubes, resistors, etc.

‡Used as tie post.

### TUBE LOCATION CHART

