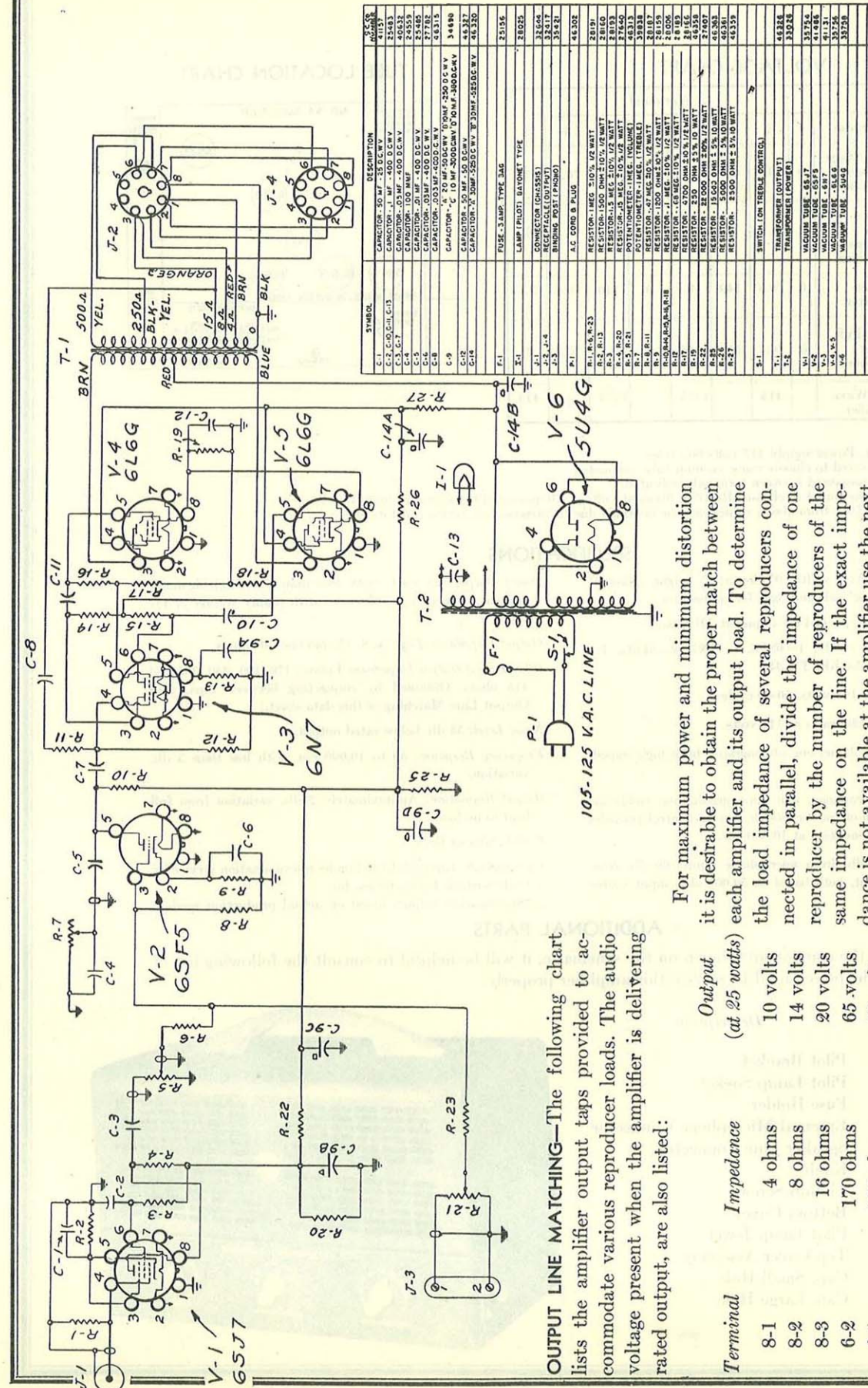


STROMBERG-CARLSON CO.

MODEL AU-34



OUTPUT LINE MATCHING—The following chart lists the amplifier output taps provided to accommodate various reproducer loads. The audio voltage present when the amplifier is delivering rated output, are also listed:

Terminal	Impedance	Output (at 25 watts)
8-1	4 ohms	10 volts
8-2	8 ohms	14 volts
8-3	16 ohms	20 volts
6-2	170 ohms	65 volts
6-1	190 ohms	69 volts
8-6	250 ohms	79 volts
7-3	350 ohms	94 volts
7-2	385 ohms	98 volts
7-1	415 ohms	101 volts
8-7	500 ohms	112 volts

For maximum power and minimum distortion it is desirable to obtain the proper match between each amplifier and its output load. To determine the load impedance of several reproducers connected in parallel, divide the impedance of one reproducer by the number of reproducers of the same impedance on the line. If the exact impedance is not available at the amplifier use the next lower tap (never a higher tap).

Example: Four reproducers whose line matching transformers are connected in parallel to the 1250 ohm tap (1250 ohm divided by four) results in a

load impedance of 312 ohms. Terminate this load on the next lower amplifier output tap which is 250 ohms. (See SED 24.11 when more detailed information is desired on impedance matching.)

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VOLTAGE CHART

Tube			Terminal							
No.	Type	Purpose	1	2	3	4	5	6	7	8
1	6SJ7	First Stage Voltage Amplifier	0	*6.3	0.8	0	0.8	20	*6.3	130
1	6SF5	Second Stage Voltage Amplifier	0	1.1	0		160		*6.3	*6.3
1	6N7	Driver-Inverter	0	*6.3	140	0	0	140	*6.3	3.1
2	6L6G	Push-Pull Power Amplifier	0	*6.3	410	350	0		*6.3	27
1	5U4G	Full Wave Rectifier		415		†375		†375		415

No signal input. Power supply 117 volts 60 cycles.

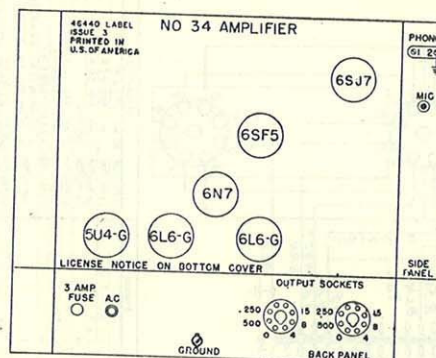
D.C. volts measured to chassis using vacuum tube voltmeter.

*A.C. voltages measured between terminals indicated.

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

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

TUBE LOCATION CHART



*SPECIFICATIONS

Size with Cover: 13½" width; 9" depth; 9" height. Allow 1" front for knobs, 2" side and back for connectors.

Weight: Net 20 lbs., packed for shipment 22½ lbs.

Tubes Required: 1—6SJ7, 1—6SF5, 1—6N7, 2—6L6G, 1—5U4G. Order Tube Kit, TK-34.

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

Power Consumed: 125 watts at 117 volts.

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

Controls: One microphone, one phonograph, one treble attenuator and on-off power switch. Treble control provides up to 18 db. attenuation at 10,000 cps.

Power Gain: 109 db. from microphone input, 69 db. from phonograph input, both based on 50,000 ohm input source impedance.

Power Output: 25 watts with less than 5% total harmonic content, measured at 400 cycles with supply voltage of 117 volts.

Output Impedance Taps: 4, 8, 15, 250 and 500-ohms.

Other Useful Output Impedance Values: 170, 190, 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: 50 to 10,000 cps. with less than 3 db. variation.

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

Finish: Glacier Gray.

Underwriters Approval: Listed under re-examination service by Underwriters' Laboratories, Inc.

*Specification ratings based on actual production models.

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 service this amplifier properly:

Part	Description
26216	Pilot Bracket
26911	Pilot Lamp Socket
46702	Fuse Holder
32643	External Microphone Connector
32657	Speaker Line Connector
39840	Knob
46310	Thumb Screw
46324	Bottom Cover
46438	Pilot Lamp Jewel
46441	Top Cover Assembly
46454	Cap, Small Hole
46456	Cap, Large Hole

