# Stromberg Carlson Co.

| | | | |
|---|---|---|---|
| | Model: 1100H | Chassis: | Year: Pre 1948 |
| | Power: | Circuit: | IF: |
| | Tubes: | | |
| | Bands: | | |

| Resources |
|---|
| Riders Volume 15 - STROMBERG 15-5 |
| Riders Volume 15 - STROMBERG 15-6 |
| Riders Volume 15 - STROMBERG 15-7 |

Courtesy Nostalgia Air

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| Model | Input Power Frequency | Chassis | Cabinet | Speaker | Phonograph Equipment |
|---|---|---|---|---|---|
| 1020PLM | 50-60 Cycles | 33449 | 35924 | 33435 | 41650 |
| 1120LW | 50-60 Cycles | 37086 | 37057 | 33435 | ----- |
| 1120PLW | 50-60 Cycles | 37086 | 35987 | 33435 | 41650 |
| 1120PLM | 50-60 Cycles | 37086 | 108012 | 33435 | 41650 |

## Capacitors

| Part No. | | |
|---|---|---|
| 24405 | C-21 | .04 mf. |
| 25150 | C-9 | .02 mf. |
| 25481 | C-31 | .002 mf. |
| 25485 | C-27 | .01 mf. |
| 27760 | C-23, 29 | .005 mf. |
| 27782 | C-24 | .03 mf. |
| 29891 | C-22, 22A | .05 mf. |
| 31480 | C-28, 28A | .01 mf. |
| 32056 | C-13A | 25 mmf. |
| 27305 | C-10 | 50 mmf. |
| 24559 | C-7, 8, 19, 20, 25, 26, 30 | 100 mmf. |
| 33907 | C-11 | .147 mmf. |
| 33909 | C-6 | 200 mmf. |
| 33904 | C-12 | 410 mmf. |
| 33894 | C-32, 33, 34, 35 | Electrolytic—20-15-15-40 |
| 27081 | C-13 | Aligning Capacitor |
| 33567 | C-14 | Aligning Capacitor |
| 33885 | C-1, 2, 3 | Aligning Capacitor |
| 33755 | C-4, 5 | Variable Condenser and Pulley |
| 33906 | RC-1 | Compensator |

## Controls—Switches—Knobs

| Part No. | | |
|---|---|---|
| 29560 | R-13 | Volume Control—1 Meg. |
| 32063 | | Off-On Tone Switch |
| 32064 | | Phono-Radio Switch |
| 33893 | | Range Switch |
| 35725 | | Knob—Off-On, Range |
| 32224 | | Knob—Volume, Tone |
| 37093 | | Knob Selector |
| 32156 | | Push Buttons |
| 35996 | | Push Button—Phono |
| 35997 | | Push Button—Radio |

## Coils—Transformers

| Part No. | | |
|---|---|---|
| 33876 | L-3 | Antenna Coil, "A" Band |
| 33877 | L-6 | Oscillator Coil, "A" Band |
| 33878 | L-4 | Antenna Coil, "SW" Band |
| 33879 | L-7 | Oscillator Coil, "SW" Band |
| 33880 | L-9, 10; C-15, C-16 | 1st I. F. Transformer |
| 33882 | L-11, 12; C-17, C-18 | 2nd I. F. Transformer |
| 33886 | L-5 | RF Choke Assembly |
| 33908 | L-8 | Wave Trap |
| 33910 | L-1 | Antenna Coupling Coil |
| 33900 | L-16, 17, 18, 19 | Power Transformer |
| 33853 | L-14, 15 | Output Transformer |
| 37114 | L-2 | Loop (1020PL) |
| 33845 | L-2 | Loop (1120L) |
| 33435 | | Speaker |
| 33438 | | Speaker Cone |

## Resistors

| Part No. | | |
|---|---|---|
| 26329 | R-26 | 470 Ohms |
| 26331 | R-3 | 680 Ohms |
| 26333 | R-10, R-1 | 1,000 Ohms |
| 26335 | R-15 | 1,500 Ohms |
| 26345 | R-20 | 10,000 Ohms |
| 26346 | R-22 | 12,000 Ohms |
| 26347 | R-23 | 15,000 Ohms |
| 26349 | R-4 | 22,000 Ohms |
| 26351 | R-8 | 33,000 Ohms |
| 26353 | R-7, 9, 11 | 47,000 Ohms |
| 26355 | R-21 | 68,000 Ohms |
| 26365 | R-16, 17, 18, 19, 28 | 470,000 Ohms |
| 26373 | R-2, 12 | 2.2 Megohms |
| 26375 | R-14 | 3.3 Megohms |
| 30417 | R-5, 6 | 10,000 Ohms |
| 33913 | R-24 | 240 Ohms |
| 149003 | R-29-30 | 60,000 Ohms |

## Cabinet Parts—Hardware

| 1020PL—1120PL Part No. | | 1120L Part No. |
|---|---|---|
| 38427 | Pulls—Ornamental | 37147 |
| 37084 | Key Pull | |
| 37143 | Hinge | |
| 37145 | Lid Support | |
| 38382 | Pussy Foot Glider | |
| 37156 | Grille Cloth—Album Door | |
| 37157 | Grille Cloth—Baffle | 37163 |
| 41102 | Stop Hinge Door—Lower | |
| 41103 | Stop Hinge Door—Upper | |
| 38442 | Bullet Catch with Strikes and Nails | |
| 37155 | Metal Grille | 37162 |

## Miscellaneous

| Part No. | | |
|---|---|---|
| 22973 | | Tube Socket, 5 PT. |
| 30151 | | Tube Socket, 8 PT. Wafer |
| 33248 | | Tube Socket, 8 PT. Molded |
| 32048 | | Socket (AC Outlet) |
| 28694 | | Socket (Pilot Lamp) |
| 28652 | | AC Cord |
| 33056 | | Cable Assembly—Rectifier |
| 33824 | | Cable Assembly—Speaker |
| 32078 | | Drive Assembly |
| 35728 | | Pointer Assembly |
| 33891 | (1020) | Dial |
| 37070 | (1120) | Dial |
| 29956 | | Pilot Lamp |
| 32128 | | Cord Assembly—Pointer Drive |
| 80000 | | Cord Assembly—Cond. Drive |
| 30224 | | Phono Plug |
| 33444 | | Speaker Plug |
| 35866 | | Station Call Letters—Kit |

| Model | Input Power Frequency | Chassis | Cabinet | Speaker |
|---|---|---|---|---|
| 1100-H | 25-60 Cycles AC (or DC) | 35982 | 33528 | 34505 |
| 1100-HI | 25-60 Cycles AC (or DC) | 35982 | 37269 | 34505 |

## Capacitors

| Part No. | | |
|---|---|---|
| 34506 | C-1, C-2 | Electrolytic Capacitor, 2—40 mfd. |
| 27921 | C-28 | Aligning Capacitor |
| 24166 | C-17 | 25 mmf. |
| 27101 | C-3 | 200 mmf. |
| 29371 | C-5 | 500 mmf. Capacitor |
| 24560 | C-7, C-24 | 50 mmf. Capacitor |
| 27760 | C-25 | .005 mfd. Capacitor |
| 27646 | C-6 | .002 mfd. Capacitor |
| 25485 | C-27, C-8 | .01 mfd. Capacitor |
| 29891 | C-13, C-26 | .05 mfd. Capacitor |
| 40632 | C-16 | .05 mfd. Capacitor |
| 28002 | C-29 | .25 mfd. Capacitor |
| 31698 | C-19, C-22 | Variable Capacitor and Pulley |

## Resistors

| Part No. | | |
|---|---|---|
| 26322 | R-15 | 120 Ohm Resistor |
| 26323 | R-21, R-3 | 150 Ohm Resistor |
| 26341 | R-14 | 4700 Ohm Resistor |
| 26349 | R-10 | 22,000 Ohm Resistor |
| 26353 | R-8 | 47,000 Ohm Resistor |
| 26362 | R-11, R-5 | 270,000 Ohm Resistor |
| 26365 | R-4 | 470,000 Ohm Resistor |
| 26369 | R-13, R-7 | 1 Megohm Resistor |
| 26373 | R-9 | 2.2 Megohm Resistor |
| 26381 | R-6 | 10 Megohm Resistor |
| 41580 | R-22 | 22 Ohm Resistor |

## Coils, Transformers and Speakers

| Part No. | | |
|---|---|---|
| 33205 | L-10, 11 | Loop |
| 33206 | L-8, 9 | Oscillator Coil |
| 33249 | L-12 | Wave Trap |
| 31686 | L-6, 7; C-14, 15 | 1st I. F. Transformer |
| 33208 | L-4, 5; C-9, 10, 11, 12 | 2nd I. F. Transformer |
| 34505 | | Speaker Assembly |

## Controls and Knobs

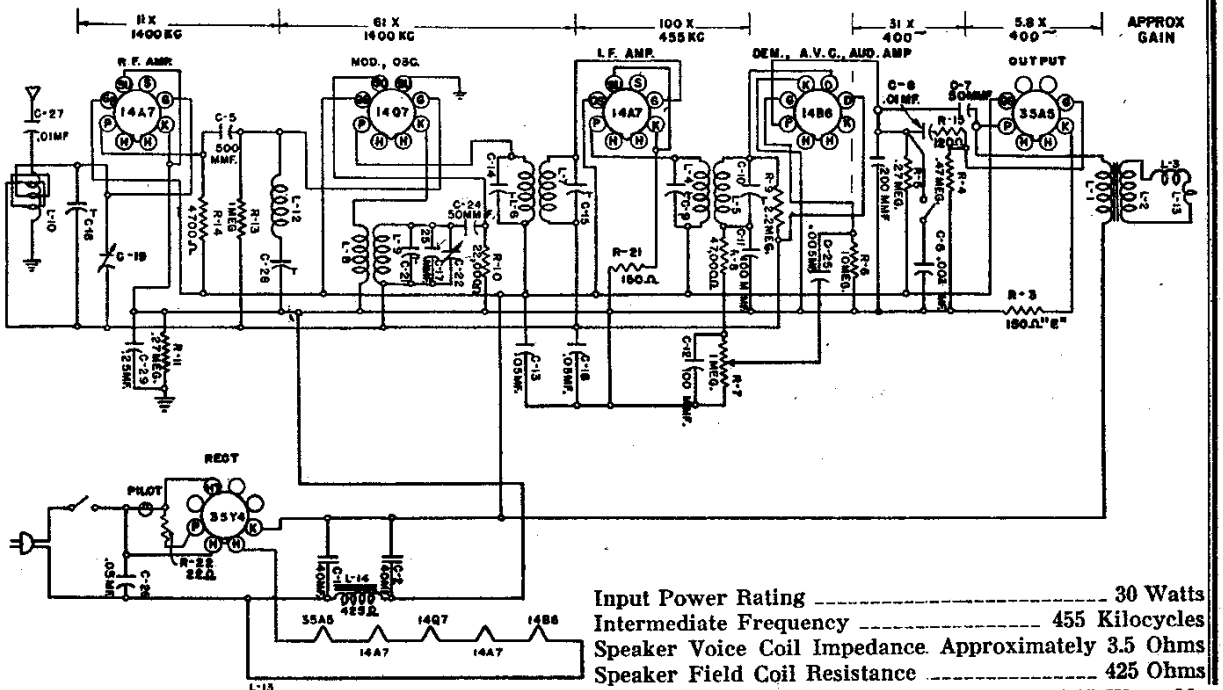
| Part No. | | |
|---|---|---|
| 31694 | R-7 | Off-On Switch and Volume Control |
| 42495 | | Switch |
| 31260 | | Knob (3) |

## Miscellaneous Parts

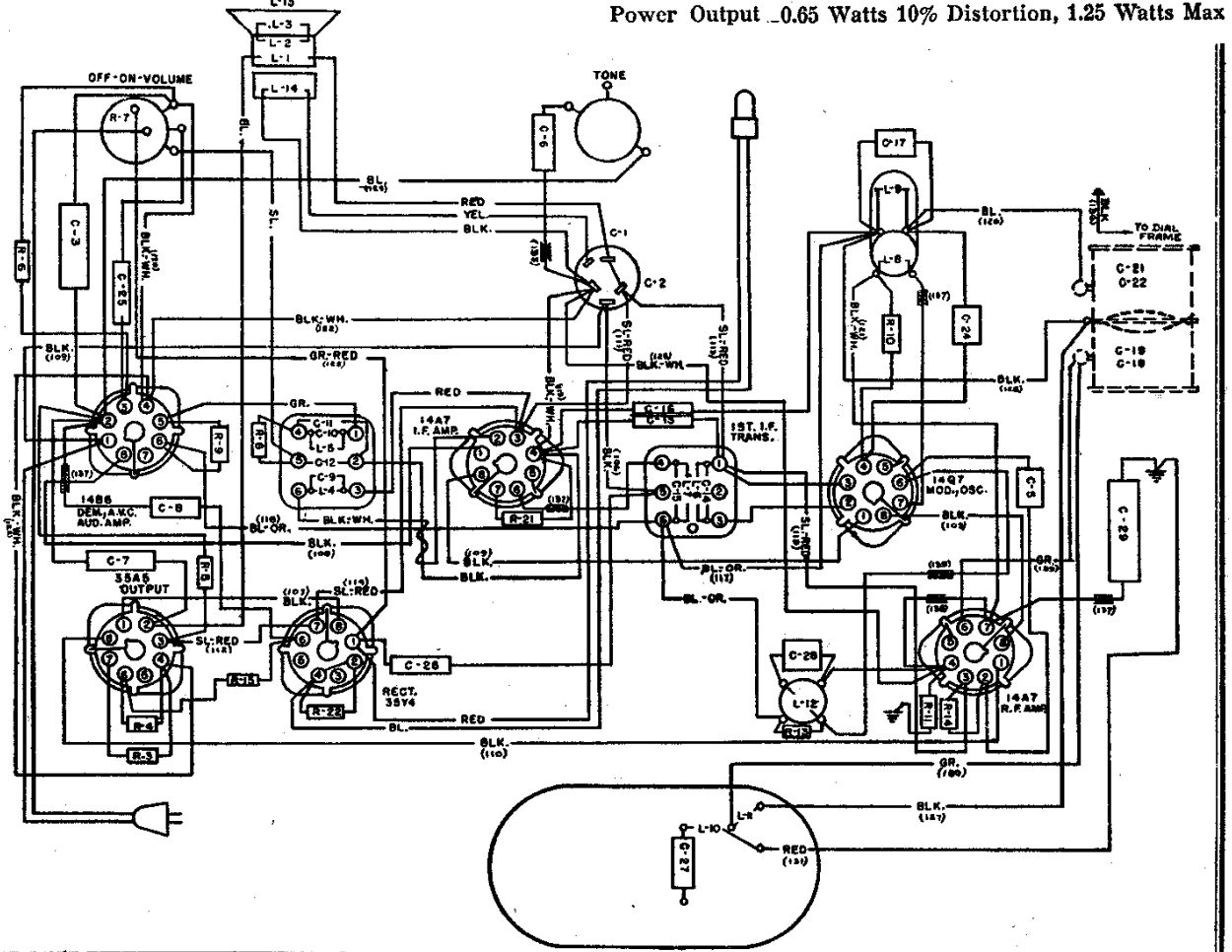
| Part No. | | |
|---|---|---|
| 33599 | | Back Panel |
| 34590 | | Tube Socket |
| 37125 | | Dial |
| 33531 | | Dial Glass |
| 33533 | | Grill Cloth |
| 31693 | | Bottom Cover |
| 33211 | | Pointer |
| 31824 | | Dial Cord Assembly |
| 30947 | | Socket (Pilot Lamp) |
| 30933 | | Pilot Light |
| 33218 | | Power Supply Cord |

MODELS 1100H, 1100HI

# STROMBERG CARLSON CO.




| | |
|---|---|
| Input Power Rating | 30 Watts |
| Intermediate Frequency | 455 Kilocycles |
| Speaker Voice Coil Impedance | Approximately 3.5 Ohms |
| Speaker Field Coil Resistance | 425 Ohms |
| Power Output | 0.65 Watts 10% Distortion, 1.25 Watts Max |

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# STROMBERG CARLSON CO.

## VOLTAGE CHART FOR ELECTRONIC VOLTMETER

| Tube | Circuit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 14B6 | Dem. A.V.C. Audio Amp. | —B | 81 | 14 | 26.5 | 23.5 | 18 | 27 | 12AC |
| 14A7 | I. F. Amp. | 11.5AC | 105 | 105 | 36.5 | 26 | 18.4 | 27.6 | 24AC |
| 14A7 | R. F. Amp. | 47AC | 69 | 105 | 26.7 | 26 | 18.4 | 26.7 | 35AC |
| 35A5 | Output | 82.5AC | 100 | 105 | 26.5 | 0 | 25 | 32 | 49AC |
| 14Q7 | Mod. Osc. | 27.5AC | 105 | 105 | 18 | 26 | 17.2 | 26.5 | 36AC |
| 35Y4 | Rect. | 105AC | 117AC | 0 | 117AC | 0 | 25.8 | 105 | 85AC |

## NORMAL VOLTAGE READINGS

Use a good voltmeter having a resistance of at least 1000 ohms per volt. See chart below if electronic voltmeter is used.

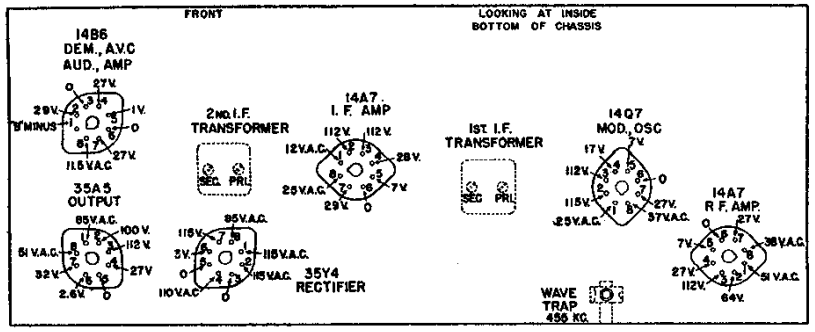
Take all readings with chassis operating and tuned to approximately 1000 Kc.—no input signal.

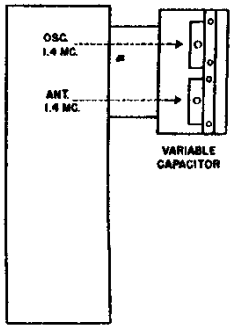
Use a line voltage of 117 volts or make allowance for the variation.

Read from indicated socket terminals to B minus. A convenient point is terminal No. 1 of the 14B6 Dem. A.V.C. Socket.

See Location Chart for position of terminals.

A. C. Voltages are indicated as A. C.; when the receiver is operated from a D. C. power supply, D. C. voltages will be obtained in place of A. C. voltages shown.




## ALIGNING INFORMATION

Never realign unless absolutely necessary.

Use a good modulated signal generator (test oscillator) with variable output voltage and a sensitive output meter across the voice coil of the speaker.

Always align using the smallest possible input from the signal generator. A strong signal makes adjustments inaccurate.

Always have the volume control "full on".

**Important: Be sure the metal plate is fastened in place on the bottom of the chassis before alignment is attempted.**

**ALIGNING PROCEDURE (follow this order exactly).**

**I. Intermediate Frequency Adjustments.**

1. Turn the tuning control to the extreme low frequency position. (Variable capacitor plates all the way in.)
2. Connect the ground terminal of the signal generator to the chassis base.
3. Introduce a modulated signal of 455 kilocycles using a .01 mfd. capacitor in series with the lead from the signal generator to the antenna connection located at rear of the pickup loop.
4. Adjust the I. F. aligners for maximum output in the following order:
   - A. Secondary of second I. F. Transformer.
   - B. Primary of second I. F. Transformer.
   - C. Secondary of first I. F. Transformer.
   - D. Primary of first I. F. Transformer.

**II. Dial Pointer Adjustment.**

With the plates of the gang tuning capacitor fully engaged set the dial pointer in a horizontal position directly on the upper edge of the calibration mark located at 550 Kc. on the dial scale.

**III. Radio Frequency Adjustments.**

1. Replace the .01 mfd. capacitor in series with the output lead of the signal generator with a 200 mmf. capacitor and connect to the antenna terminal located on the back of the loop assembly.
2. Set the signal generator's frequency and the receiver's tuning dial to 1.4 megacycles.
3. Adjust the oscillator and antenna aligning capacitors for maximum signal.
4. Set both the signal generator's frequency and the receiver's tuning dial to 0.6 megacycles and check calibration.
   NOTE: If the calibration is too far off at 0.6 megacycles, operations 2 and 3 may be repeated until the best results are obtained.

**Wave Trap Adjustment.**

(Leave the receiver connected in the same manner as when making the Radio Frequency Adjustments.)

1. Tune set to 1000 K. C.
2. Set the signal generator frequency to 455 K. C. and introduce a fairly strong modulated signal to the receiver.
3. Adjust the wave trap aligner for minimum signal.

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