

R-23 is 68,000 ohms where phono assembly is VM-407, 3 speed
 R-23 is 470,000 ohms where phono assembly is VM-800A, 1 speed

Stromberg-Carlson Model 982 AM-FM-Phonograph Receiver Schematic

Stromberg-Carlson Model 982 Specifications, Dial Cord Stringing, Chassis Layout, Model Identification Table

SPECIFICATIONS

Voltage Rating.....105-125 Volts A.C.
Type of Circuit.....Superheterodyne
Tuning Range.....A.M. 535-1700 Kc.
F.M. 88-108 Mc.

Number and Type of Tubes—8

R.F. Amp. and 2 I.F. Amp.

3—6BA6.....Converter
1—6BE6.....F.M. Detector
1—6AT6.....1st Audio AM det. and A.V.C.
1—6V6GT.....Power Output
1—5Y3GT.....Rectifier

Input Power Rating.....105 Watts at 117 Volts
Intermediate Frequency.....AM 455 Kc. FM 10.7 Mc.
Speaker Voice Coil Impedance (P.M.).....6.8 Ohms
Power Output.....7 watts maximum, 3.5 watt 10% distortion

Note A: Early production of Series 982 had the link on antenna board connecting AM antenna over to the FM antenna line. This coupled into the receiver all the power line noise.

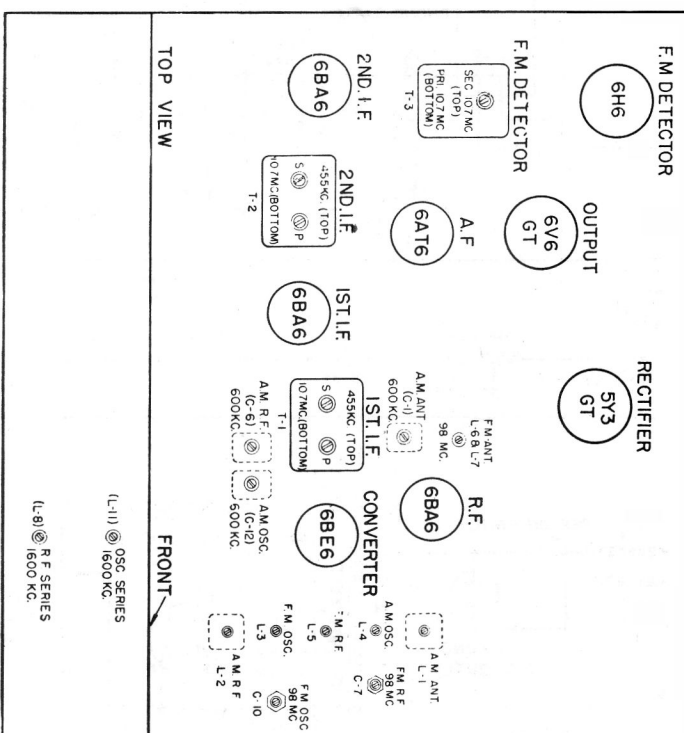
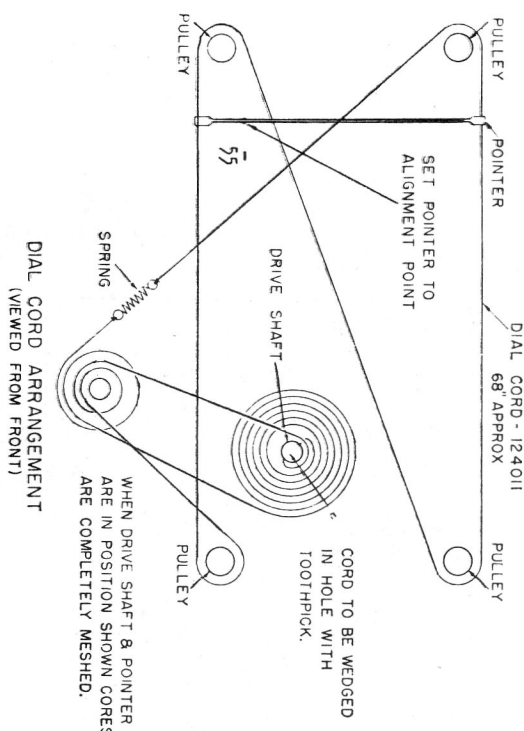
Open link and install 2 lengths of wire (total length 139 inches) along cabinet for FM antenna. Connect to terminals marked D.D.

Note B: Phono feed-back.

Record player binding on mounting holes or on support block under mounting hole. Increase size of mounting hole from $\frac{3}{8}$ to $\frac{1}{2}$ inches.

Note C: Hum or flutter on phono.

Motor mounting too loose. Place washer under head of phono mount clip to tighten motor to chassis. (Washer should be placed under motor).



Stromberg-Carlson Model 982 AM-FM Receiver Alignment Information

ALIGNMENT PROCEDURE 982

Band and Pointer Setting	Generator Setting	Input & Dummy	Meter Connection	Trimmer Adjustment and Notes
(1) AM Pointer near middle of dial	455 Kc. 30% modulated	1 mfd. pin #7 of 6BE6 tube	Output meter across voice coil	Adjust iron cores on top side of chassis in I.F. transformers for maximum output. (As aligning adjustments are made, the input must be reduced to keep output at approximately 500 milliwatts).

FM ALIGNMENT RATIO DETECTOR

(1) FM Pointer near middle of dial	10.7 mc. unmodulated at .1 volts	5000 mmd pin #1 6BA6 of ratio det. driver	V.T.V.M. to junction C47 & R27	Adjust core on underside of ratio detector transformer for maximum output.
(2) FM Pointer near middle of dial	10.7 mc. unmodulated at .1 volts	5000 mmd pin #1 6BA6 of ratio det. driver	V.T.V.M. to junction of C46 & R26	Adjust core on top side of ratio detector transformer for zero reading, making sure further adjustment increases voltage positively or negatively.
(3) Repeat steps (1) and (2) for improvement on readings.				

FM I.F. ALIGNMENT

(1) FM Pointer near middle of dial	10.7 mc. unmodulated	5000 mmd pin #7 of 6BE6	V.T.V.M. to junction C47 & R27	Adjust cores on underside of chassis in I.F. transformers for maximum output. Adjust in this order: Primary of input I.F.; secondary of input I.F.; and primary of secondary I.F. Keep adjusting input to 1.5 to 2 volts of V.T.V.M.
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AM R.F. ALIGNMENT

Band and Pointer Setting	Generator Setting	Input & Dummy	Meter Connection	Trimmer Adjustment and Notes
(1) AM 600 Kc. calibration mark	600 Kc.	200 mmd antenna terminal (loop or substitute must be attached)	Output meter to voice coil	(Set pointer to marker on left end of scale with tuner C1 for extreme low frequency position). Adjust C12, C6 and C1 for maximum output.
(2) AM 1600 Kc. calibration mark	600 Kc.	200 mmd antenna terminal (loop or substitute must be attached)	Output meter to voice coil	Adjust L1 and L8 to maximum output.
(3) AM 1000 Kc.	1000 Kc.	200 mmd antenna terminal (loop or substitute must be attached)	Output meter to voice coil	Adjust permeability tuning oscillator coil by means of second screw from front in tuner carriage to bring in signal at 1000 Kc.
(4) AM 1000 Kc.	1000 Kc.	200 mmd antenna terminal (loop or substitute must be attached)	Output meter to Voice coil	Adjust RF and antenna permeability tuning cores by means of 1st and 5th screws from front of carriage for maximum output.

Repeat for improvement on readings.

FM R.F. ALIGNMENT

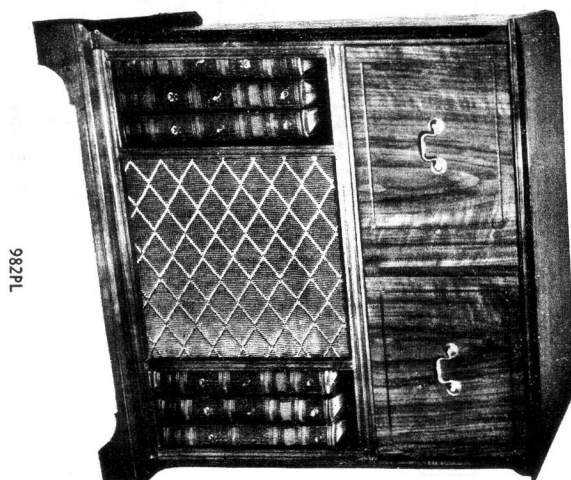
FM/9 Mc. calibration mark	99 Mc. modulated 22.5 Kc.	150 ohm resistor each terminal	Output meter across voice coil	Adjust C10 maximum output; adjust C7 for maximum output, rocking the generator to allow for oscillator pulling. Adjust core of L6 and L7 for maximum output.
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- (1) Set underside of inductive tuner carriage to 0.7 inches above the top surface of the inductive tuner mounting bracket.
- (2) Adjust the three broadcast band cores by means of the screw adjustment until the wire end of each core is coincident with the end of its coil form.
- (3) Glycol adjusting screws to prevent movement.

VOLTAGE CHART

Line 117V. 25 amp.
Weston Analyzer Model 779
Italic figures are AC

	1	2	3	4	5	6	7	8
6BA6 R.F. Amplifier	6.	...	180.	100.	...	8.
6BE6 Converter	6.	...	200.	120.	...	...
6BA6 1st I.F. Amplifier	6.	...	200.	70.	...	6.
6BA6 2nd I.F. Amplifier	6.	...	200.	100.	...	9.
6AT6 A.F.	6.	...	...	...	...	55.
6H6 F.M. Detector	6.
6V6GT Output	265.	...	230.	...	...	13.
6V3GT Rectifier	...	280.	...	250.	...	250.	...	280.



982PL