NORMAL VOLTAGE READINGS

Use a good high resistance voltmeter having a resistance of at least 1000 ohms per volt.

Take all D. C. voltage readings on the 500 volt scale except where an asterisk appears.

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

Use a line voltage of 120 volts or make allowance for the variation.

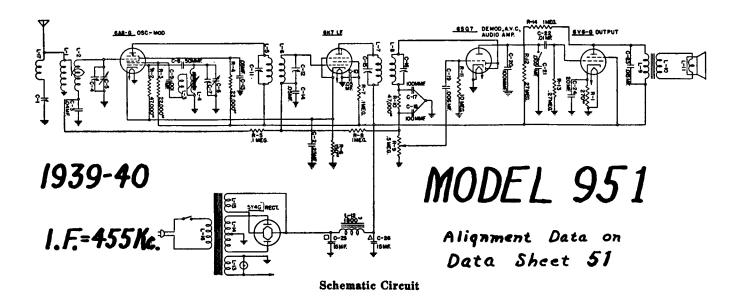
Read from indicated socket terminals to chassis base.

See Location Chart on Page 3 for position of terminals.

A. C. Voltages are indicated by italics.

			Terminals of Sockets								Heater Voltages Between Heater	
			_								Termi	
Tube	Circuit	Cap	1	2	3	4	5	6	7	8	Socket Terminal Numbers	Volts A. C.
6A8G	Mod.—Osc.	0	0	0	+175	+82		+100	6.3	+2*	2-7	6.3
6K7	I. F. Amp.	0	0	0	+175	+65	+2*		6.3	+2*	2-7	6.3
6SQ7	Dem.—A. V. C. —Audio	_	0	0	0	0	0	+75	6.3	0	7-8	6.3
6V6G	Output	_	0	0	+160	+175	0	+75	6.3	+8*	2-7	6.3
5Y4G	Rectifier	_	0	0	255	_	255		+265	+265	7-8	5

^{*}Read on lowest possible scale of voltmeter.



STROMBERG-CARLSON

DATA SHEET 50

ALIGNING INFORMATION

NEVER REALIGN UNLESS ABSOLUTELY NECESSARY.

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

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

Always have receiver volume control "full on"

Never align with tone control in bass position

See Location Chart above for location of all the aligning adjustment screws

Aligning Procedure (follow this order exactly)

Dial Pointer Adjustment

With the plates of the gang tuning capacitor fully engaged, set the dial pointer directly on the upper black line at the low frequency end of the dial.

Intermediate Frequency Adjustments

Ħ

Tune set to extreme low frequency position. (.54 megacycles on dial scale)

Connect the ground terminal of the signal generator to the ground binding post of the

Introduce a modulated signal of 455 kilocycles, with the lead from the signal generator to the the grid clip from this tube.) using a 0.1 microfarad capacitor in series grid cap of the 6A8G tube. (Do not remove

Adjust the I. F. Aligners for maximum output in the following order:

Secondary of Second I. F. Transformer. Primary of Second I. F. Transformer. Secondary of First I. F. Transformer.

Primary of first I.

Wave Trap Adjustment.

H.

Tune set to 1,000 kilocycles

Leave the ground terminal of the signal generator connected to the ground binding post of

Introduce a fairly strong modulated signal of 455 kilocycles to the antenna binding post using a 200 mmf. capacitor in series with the lead from the signal generator.

Adjust the wave trap aligner for minimum signal

Radio Frequency Adjustments

ĮV.

(Leave the signal generator connected in the same way as for the wave trap alignment).

Set the signal generator's frequency and the receiver's tuning dial to 0.6 megacycles

Adjust the iron core in the oscillator coil for maximum signal

Set the signal generator's frequency and the receiver's tuning dial to 1.5 megacycles

Adjust the two aligning capacitors on the variable capacitor for maximum signal

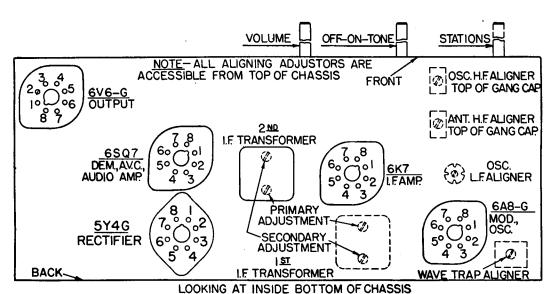
Reset both the signal generator's frequency and the receiver's tuning dial to 0.6 megacycles

Reset both the signal generator's frequency and the receiver's tuning dial to 1.5 megacycles Operation 5 and 6 may be repeated as tivity. often as necessary to obtain maximum

sensi

MODEL 951 ALIGNMENT DATA

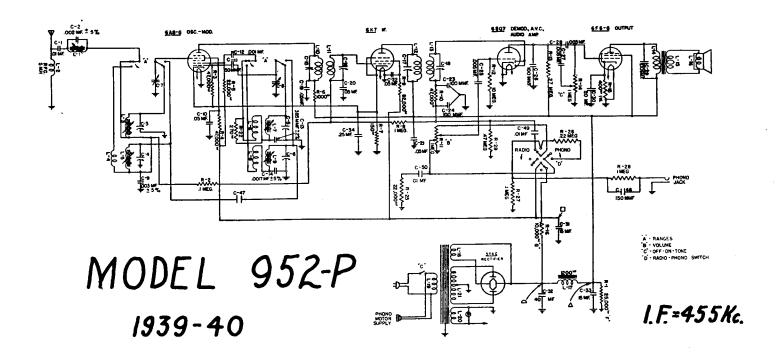
Circuit on Data Sheet 50



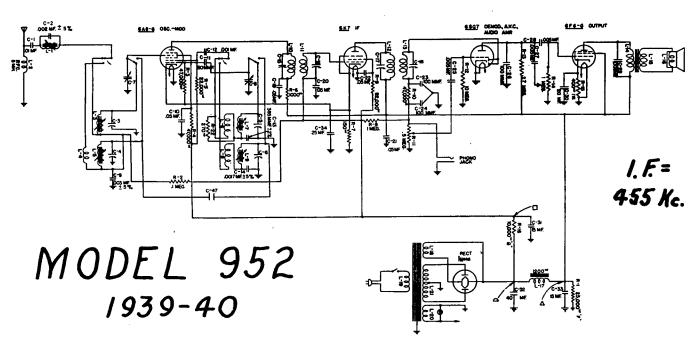
Location Chart

STROMBERG-CARLSON

DATA SHEET 5/



Alignment Data, Voltages, Layout, on Data Sheet 53



Alignment Data, Voltages, Layout, on Data Sheet 53

STROMBERG-CARLSON DATA SHEET 52

ALIGNMENT MODELS 972, 952, 952-P, 992 DATA

NEVER ALIGN 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.

adjustment is made). A strong signal makes adjustments inaccurate. Always have receiver volume control full on. Always align using the smallest possible input from the signal generator (except when wave trap

Never align with tone control in "Bass" position.

See location chart above for location of all the aligning adjustment screws.

Aligning Procedure (follow this order exactly)

Dial pointer adjustment.

With the plates of the gang tuning capacitor fully engaged, set the dial pointer directly on the vertical line located at the extreme low frequency end of the short wave band.

- II. Intermediate frequency adjustments.
- Set the range switch to Standard Broadcast position
- Tune set to extreme low frequency end of the dial.
- Connect the ground terminal of the signal generator to the ground terminal of the chassis.
- 4. Introduce a modulated signal of 455 Kilocycles to the grid cap of the 6A8G Tube, using a 0.1 microfarad capacitor in series with the output lead of the signal generator. (Do not remove the grid clip from this tube.)
- 5 Adjust the I. F. Aligners for maximum output in the following order:
- P Secondary of second I. F. transformer.
- ₿. Primary of second I. F. transformer.
- Ċ Secondary of first I. F. transformer
- Ď. Primary of first I. F. transformer

Η Radio frequency adjustments

Short Wave Range (C Band)

- Replace the 0.1 microfarad capacitor in series with the output lead of the signal generator with a 400 ohm carbon type resistor, and connect it to the antenna terminal of the chassis.
- Set the range switch to the short-wave range position (C Band).
- Set the signal generator frequency and the receiver tuning dial to 6 megacycles.
- Adjust the 6 megacycles oscillator and antenna (iron cores) for maximum signal
- Set the signal generator frequency and the receiver tuning dial to 17 megacycles.
- Adjust the 17 megacycles oscillator and antenna aligning capacitors for maximum
- Repeat operations three and four
- Repeat operations five and six.

Standard Broadcast Range (A Band)

- Replace the 400 ohm carbon type resistor in series with the output lead from the signal generator with a 200 micro-microfarad capacitor.
- Set the range switch to the Standard Broadcast Range (A Band)
- Set the signal generator frequency and the receiver tuning dial to 600 Kc.
- Adjust the 600 Kc. oscillator and antenna (iron cores) for maximum signal
- Set the signal generator frequency and the receiver tuning dial to 1500 Kc.
- Adjust the 1500 Kc. oscillator and antenna aligning capacitors for maximum signal.
- Repeat operation three and four.
- Repeat operation five and six

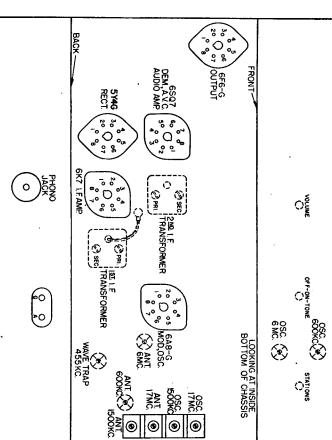
IV. Wave Trap Adjustment

(Leave the receiver connected in the same manner as when adjusting the Standard Broadcast Range ("A" Band)).

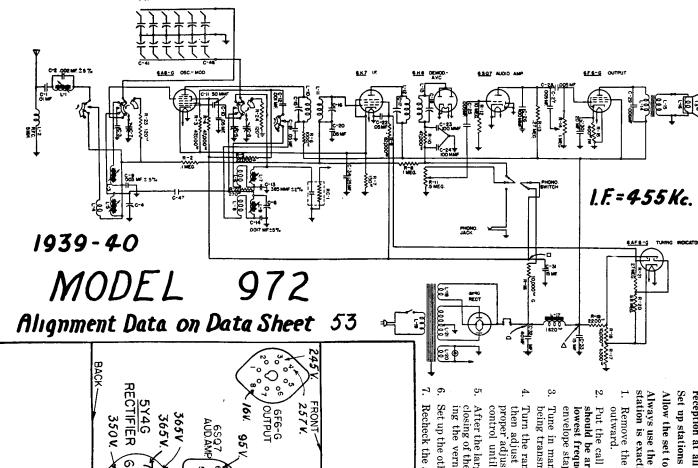
- Tune set to 1000 Kc.
- Set the signal generator frequency to 455 Kc. and introduce a fairly strong modulated signal to the receiver.
- 3. Adjust the wave trap aligner for minimum signal.

ATASHEFT 53

Location Chart - Models 952,952-P



Mod. Cir	ر ادن	7-8	+330	+330	Ì	315	0	815	0	0	i	Rectifier	5Y4G
Mod. Cir	6.5	2-7	+15	6.5	I	1	+260	+240	0	0	1	Output	6F6G
Cir.	6.5	7-8	0	6.5	+100		1	0		0	1	Dem.—A. V. C —Audio	6SQ7
PHONO JACK Normal Voltage Readings - Models 952, Structuit Cap 1 2 3 4 5 6 7 8 Numbers Mod.—Osc. 0 0 0 +260 +100 — +180 6.5 +3* 2-7	6.5	2-7	+34	6.5	+270	+3*	+100	+260	0	0	0	I. F. Amp.	6K7
Ci.	6.5	2-7	+3*	6.5	+180		+100	+260	0	0	0	Mod.—Osc.	6A8G
	Volts A. C.	Terminol Numbers	<u> </u>	7	6	CT.	4	ယ	10	H	Cap		Tube
	oltag	Heater V			kets	of Soci	rinals o	Tern			_		
FHONO JACK	52	52,9	9,	dels	Ma	75 -	dıng	Rea	age	Volt	nal	Non	
FHONO JACK									(0				
RECT. (20 0 or) (20 0 os) (30 0 os) (1811 F RANSFORMER (20 0 os) (20 0 os				9				. 0) PHON PHON			-	
C/VWW C	OOKC.	1 8	WAVE THE		NSFORM	SEC TRAI	0 <u>0</u>	AMP	6K7 1.F			574G RECT	BB.



INSTRUCTIONS FOR SETTING UP PUSH BUTTONS

IMPORTANT: The stations selected should be the local or favorite stations which give good

Allow the set to run for about twenty minutes before setting up stations.

Always use the tuning indicator unit when setting up stations in order to determine when the

- escutcheon by removing the screws and pulling downward
- Tune in manually the highest frequency station to be set up and note carefully the program lowest frequency at the left, just as on the dial. Put the call letters of the selected stations in place above the push buttons. envelope stapled inside or underneath the cabinet.) should be arranged according to frequency with the highest ighest frequency at the right and the call letters will be found inside the
- being transmitted
- control until the screw is accessible through one of the holes in the pulley. then adjust the large screw over this button until the desired program is heard. (If the proper adjusting screw cannot be reached it will be necessary to turn the station selector Turn the range switch to the push button position and push the highest frequency button,
- closing of the tuning indicator. (Be sure the large adjusting screw does not move while turn-After the large screw is carefully adjusted, adjust the small vernier screw for maximum
- Set up the other five stations in the same manner.
- Recheck the adjustment of each adjusting screw.

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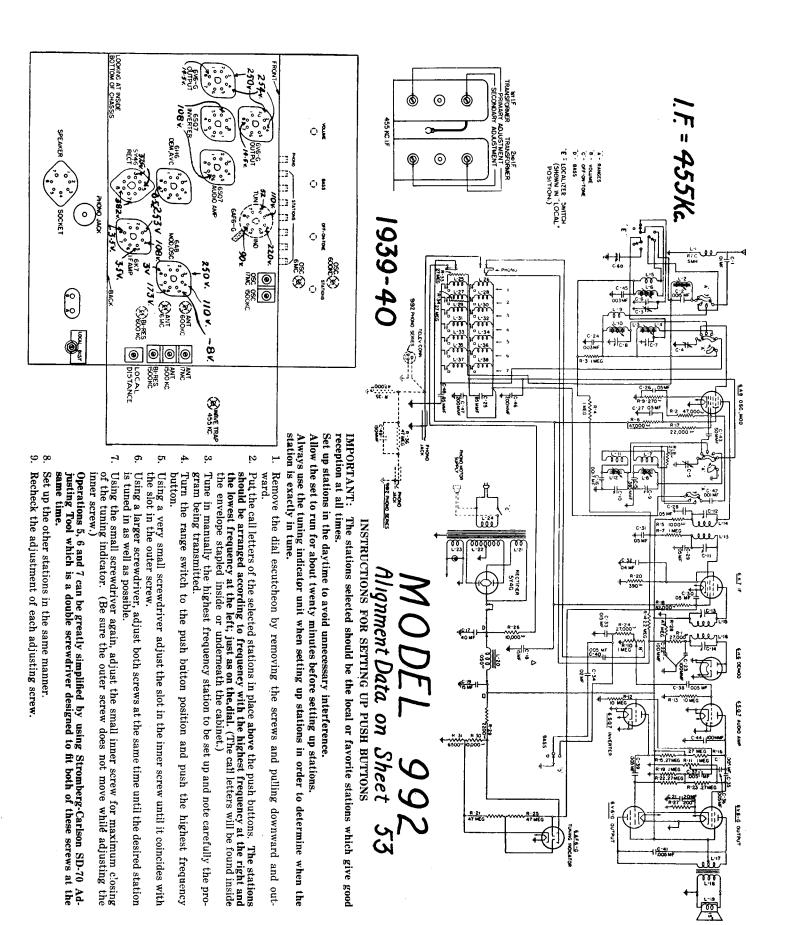
IST.I.F TRANSFORMER

57 6K7 LE AMP

255 V.

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DATA SHEET 54



STROMBERG-CARLSON

DATA SHEET 55