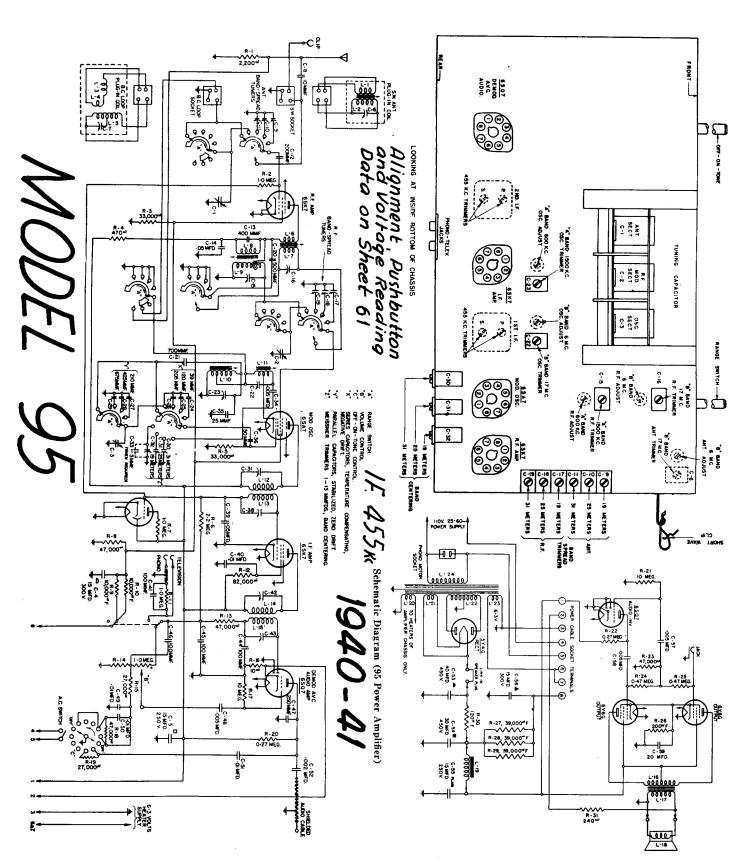


STROMBERG-CARLSON

DATA SHEET 59



STROMBERG-CARLSON DATA SHEET 60

Take all readings with chassis operating and tuneu manually to 1000 kc.—No signal.
Use a line voltage of 120 volta or make allowance for the variations.
Use a good high resistance voltmeter having a resistance of at least 1000 ohms per volt.

See location chart for position of terminals A.C. voltages are indicated by italics. Take all D.C. readings on the 500 volt scale except when an asterisk appears. Read from indicated terminals to chassis base.

MODEL 95

AMPLIFIER (POWER CHASS,

BOTTOM OF CHASSIS

		1 5 60	MINALS	IERMINALS OF SOCABIS	CLIC		•	
assis								
Circuit	-	2	8	4	51	6	7	œ
R. F. Amplifier	0	0	0	0	0	+90	6.3	+240
Modulator and Oscillator	0	0	+245	+90	0	0	6.3	0
I. F. Amplifier	0	0	0	0	0	+80	6.3	+245
Dem., A. V. C., 1st Audio	0	٥	0	0	0	+95	6.3	0
Tuning Indicator	6.3	+90	0	+250	0	0	1	1
Chassis	-	2	ఒ	•	5	6	7	
Inverter	0	0	0	0	0	+95	6.3	0
Output	0	Φ	+235	+245	0	0	6.3	+13.5
Output	0	0	+235	+245	0	0	6.3	+13.5
Rectifier	0	0	385	0	385	0	+385	+385
*Read on lowest possible scale of voltmeter	1	اءءء ماطنه	e of volt	motor				

+13.5*	+245	0 + 240	13 17
SPEAKER OUTPUT O SPEAKER OUTP	BACK BOWED	OUTPUT OUTPUT OUTPUT OUTPUT OUTPUT	RECT 646-6

Power Amplifier Chassis

ALIGNMENT & PUSHBUTTON DATA, MODELS 75 & 95 Demodulator, A. V. C., Audio 0 R. F. Amplifier Modulator and Oscillator Tuning Indicator 6.3 +65 0 +2. Rectifier 0 +350 0 *Read on lowest possible scale of voltmeter MODEL 75 I. F. Amplifier Output TERMINALS OF SOCKETS +210 +250+12* +200 +205 6V6G Tuner Chas Tube 6SK7 6SA7 M6 Amplifier

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

Never re-align unless absolutely necessary.

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

Always have the volume control "full on".

ALIGNING PROCEDURE. (Follow this order exactly.) Dial pointer adjustment.

With the plates of the gang tuning capacitor fully engaged, check to be sure that the dial pointer is in a vertical position directly on the calibration marks located at the low frequency end of the dial scale. Adjust if necessary.

Intermediate frequency adjustments.

Turn set to extreme low frequency end of dial Set range switch to Standard Broadcast position.

Connect the ground terminal of the signal generator to the ground terminal of the chassis.

Introduce a modulated signal of 455 kilocycles to the grid of the 85A7 Modulator and Oscillator tube (terminal No. 8) using a 0.1 microfarad capacitor in series with the out-put lead of the signal generator.

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. F. Transformer.

III. Radio frequency adjustments.

Standard Broadcast Range (A Band).

1. Connect a 200 mmfd capacitor in series with the antenna lead from the signal generator and the antenna binding post.
2. Set the range switch to "BR" position.
3. Set the signal generator frequency and the receiver tuning dial to 600 kilocycles.

Adjust the 600 kc. oscillator iron core for maxi mum signal.

Adjust the 600 kc. R. F. and antenna iron cores for maximum signal. Note—Where loop is used (75-H, M and P) there are no 600 kc. antenna adjustments.

TRIMER NUMBERS IN BRACKETS ARE FOR MODEL 95 ONLY

Set the signal generator frequency and the receiver tuning dial to 1500 kilocycles.

Adjust the 1500 kc. oscillatore 53 (23) R. F. c 34 (15) and antenna; 10(7) aligning capacitors for maximum signal.

Repeat operations 3, 4 and 5.

Set the range switch to the short wave range position "S-W".

Adjust the 6.0 mc. oscillator iron core for maximum signal.

Adjust the 6.0 mc. R. F. and antenna iron cores for maximum signal. Note-"Rock" gang capacitor to obtain proper

Set the signal generator frequency and the receiver tuning dial to 17 megacycles. (small red triangle).

Adjust the oscillator aligning capacitor (22/22) for maximum signal.

Adjust the R. F.c 20(16) and antennace(6) aligning capacitors for maximum signal.

Note—Two peaks are usually obtained when adjusting the 1/I mc. aligning capacitor, using a strong signal signal. The peak highest in frequency is the correct one. This is important.

Adjust the R. F. and antenna aligning capaci-tors for maximum output. "Rock" the gang capacitor so that maximum peak is obtained.

11. Repeat operations 6, 7, 8 and 9. Repeat operations 3, 4 and 5.

Band Spread Ranges.

Before aligning the Band Spread ranges make certain that the short wave range is correctly aligned then do not make any changes on these aligners. Otherwise, the whole procedure will have to be repeated.

Set the range switch to the "31 meter" position.
 Set the signal generator frequency and the receiver tuning dial to 9.53 megacycles.

Repeat operations 6 and 7.

Short Wave Range (C Band).

Connect a 400 ohm carbon resistor in series
with the antenna lead from the signal generator
and the fashnestock clip lead. Leave the antenna
binding post free of all connections.

Set the signal generator frequency and the receiver tuning dial to 6.0 megacycles.

12. Adjust the band-centering aligning capacitor c.19(32) for maximum signal.

13. Adjust the R. F. and antenna aligning capacitors C 14211(17 & 9) for maximum signal.

V. Wave Trap Adjustment (75-H only).

Tune the receiver to 1000 kc.
 Set the signal generator frequency to 455 kc. and introduce a fairly strong modulated signal to the receiver.

Adjust the wave trap aligning capacitor (C-56) for minimum signal.

INSTRUCTIONS FOR SETTING UP PUSH BUTTONS

. Adjust the band-centering aligning capacitor C 17 (30) for maximum signal.

4. Adjust the R. F. and antenna ci6xi3 (19 x 11) band spread aligning capacitors.

3. It is important that the inner peak (screw tightened) be used on the R. F. and antenna aligning capacitors. It will also be found that aligning capacitors with an antenna and R. F. aligning capacitors will influence the oscillator adjustment will influence the oscillator adjustment (therefore it increases the oscillator adjustment, therefore it in the peak capacitors be "rocked" and aligning capacitors are adjusted for true calibration and maximum signal.

4. Check for calibration and sensitivity at each end of the range. Sensitivity should not vary more than two to one from the centre point.
5. Set the range switch to the "25 meter" position.

Set the signal generator frequency and the receiver tuning dial to 11.80 megacycles.

7. Adjust the band-centering aligning capacitor c 46(34) for maximum signal.

Observe same precautions as in 3 and 4. 8. Adjust the R. F. and antenna cisca (18 410) aligning capacitors for maximum signal.

 Set the signal generator frequency and the re-ceiver tuning dial to 15.30 megacycles. Set the range switch to the "19 meter" position.

14. Observe the same precautions as in 3 and 4.

Turn the receiver "On".
 Push in the "Radio" button.
 Set the Range Switch as follows:

 If the built-in loop antenna is used, set knob so arrow points to designation "Loop". a. If an external antenna is used, set knob so arrow points to designation "BR".

4 Turn volume control about three-quarters of the way on (in a lockwise direction);

5. Pull the six station push buttons off their levers.

6. Remove the call letters of the six selected stations from the call letter steets, which are in an envelope stapled to the cannet. Insert the station call letters steet in the sides of the buttons. Next, insert a transparent tab in each slot in front of the stand returns, them push both the transparent tabs and the call letters all the way into the slot.

A periol reaser may be helfful.

7. Loosen the set screw of the lever to be set up.

8. Push in the lever and manually tune in the desired station, observing the tuning indicator in order to obtain exact resonance.

IMPORTANT: For accurate set-up, be sure that the lever is pushed in, in the same manner and with the same amount of pressure as will be used when operating the push buttons.

Tighten the set screw. Be sure not to disturb the adjustment in any way while tightening the screw.

10. Place the proper button on the lever.

Check the accuracy of the adjustment by detuning the station and retuning with the button several times, pushing the button with an even pressure. Readjust if necessary.

Set up the other five stations in the same manner

1940-41 -

DATA SHEET

STROMBERG-CARLSON