

## on Data Sheet 70

## NORMAL VOLTAGE READINGS

The voltages listed in the accompanying table are measured from the respective socket terminals to the chassis base, with the set in operation but no signal tuned in. For further details reference should be made to the general layout diagram.

should be used when the volta Voltages are given for a battery voltage of 90 volts, and allowance should be made for differences lowest possible

	8	•	0	-5.	84	83	1.45	-5.2	Output
	1	1	     	1	1	57	1.45	0	Demodulator AVC First Audio
	1	0	ı	1	85	85	1.45	0	. F. Amplifier
_	1	0	88	-2.1	87	85	1.45	0	Modulator Oscillator
	00	7	6	5	•	∞	ю	_	Circuit
			S	SOCKET TERMINALS	OCKET 1	S			
4					LE	E TAB	VOLTAGE TABLE		
<b>7</b> !	on the	0 ohms pobtained	least 100 re those .00.	nce of at l s shown a 5, 0-10, 0-1	resistai ge values ges: 0-2.5	naving a Voltaging rang	meter l voltages. 1e follow	lower. A the D.C. having the	age is higher or lower. A meter having a resistance of at least 1000 ohms per volt for measuring the D.C. voltages. Voltage values shown are those obtained on the scale of a meter having the following ranges: 0-2.5, 0-10, 0-100.

1Q5GT 1H5GT 1N5GT 1A7GT

Tube

1946-47 F. 4 60KC 10DE

STROMBERG-CARLSON

DATA SHEET

### ALIGNMENT PROCEDURE

of the dial, pointing towards the 550 Kcs. designation. With the plates of the gang tuning capacitor fully engaged set the dial pointer in a horizontal position directly parallel with the dividing line between the dark and light sections

Dial Adjustment—

2.1 Tune the set to the extreme low frequency position (variable capacitor plates all the

2.2 Connect the ground terminal of the signal generator to the ground terminal of the

2.3 Introduce a modulated 460 Kc. signal, using a .1 mfds, capacitor in series with the lead from the signal generator to the "grid" terminal of the 1A7GT tube.

2.4 Adjust the I.F. aligning capacitors for maximum output in the following order: A Secondary of 2nd. I.F. Transformer C13

Primary of 2nd. I.F. Transformer C12

Primary of 1st. I.F. Transformer C8 Secondary of 1st. I.F. Transformer C9

2.5 Repeat A, B, C, D until maximum performance is obtained

Radio Frequency Adjustments with a 200 mmfds. capacitor and connect it to the receiver antenna terminal. Replace the .1 mfd. capacitor in series with the output lead of the signal generator

maximum signal and correct calibration. 3.3 Adjust the oscillator aligning capacitor C4 and the antenna aligning capacitor C2 for 3.2 Set the signal generator's frequency and the receiver's tuning dial to 1400 Kc.

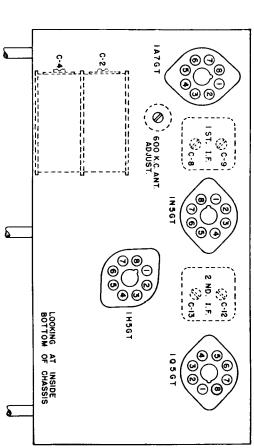
3.4 Set both the signal generator's frequency and the receiver's tuning dial to 600 Kc. Adjust the antenna coil iron core by means of the "600 Kc. Ant. Adjust" screw for maximum output, while "rocking" the gang.

STATIONS

VOLUME

OFF - ON

3.5 Repeat 3.3 and 3.4 until no further gain can be obtained and the calibration is correct.



### \_"A" BAND 600 KC. ALIGNMENT INSTRUCTIONS A-C MODEL 552

### See Data Sheet 71

See Data Sheet 69

PHONO MOTOR A.C. SUPPLY

SPEAKER SOCKET בור ונונו

TRANSFORMER

**PO ₹ E R** 

(5Y4G

6.30

2 ND I.F.
TRANSFORMER

6SK7

(6SQ7

TRANSFORMER Oc re

Oc 17

## 1946-47 .F. 460KC

### 6SA C-3 SECTION ANT SECTION OSC.

6F6G

### ANT. TRIMMER ANT. ADJUSTMENT

ALIGNING INFORMATION

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.

### Intermediate Frequency Adjustments.

2.2.—Set pointer to the extreme low frequency end of the dial. 2.1...Set the range switch to "BC" broadcast position.

2.4—Introduce a modulated 460 kilocycle signal to the grid of the 68A7 modulator tube (28 torminal or C3) using a l mfd, capacitor in scenes with the output lead of the signal generations.

B—Primary of 2nd I. F. Transformer C18 C—Secondary of 1st I. F. Transformer C17 D—Primary of 1st I. F. Transformer C16 A .- Secondary of 2nd I. F. Transformer C19

OFF-ON VOLUME

TONE - RADIO - PHONO

CHASSIS LAYOUT

RANGES

STATIONS

Always align using the smallest possible input from the signal generator, as a strong signal makes adjust-ments inaccurate. Always turn the receiver volume control "full on".

## ALIGNING PROCEDURE (Follow this order exactly).

1. Dial Pointer Adjustment.

With the plates of the gang condenser fully engaged device between the pointer is in a vertical position be save that the dial pointer is in a vertical position be save that the full same. It exposes the low frequency and if the dial same it exposes is the low frequency and if the gold before in line with the center gold dividing line. Adjust it necessary.

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

3IMETER BAND CENTERING

Adjust the I.F. 469 Kc. trimmers for maximum output in the following order:

### 3. Radio Frequency Adjustments.

Broadcast Range.

3.1-Set the range switch to Broadcast ("BC"). 3.2-Set the signal generator frequency and the receiver tuning dial to 1500 Kc.

3.3.—Connect a 200. mmfd. capacitor in series with the antenna lead from the signal generator to the "Ant" terminal on the set, replacing the 1 mfd. capacitor.

the "Ant" terminal on the set, replacing the 1 mdc capacitor.

3.4—Adjust the "82" band oscillator trimmer C10 for maximum signal and correct calibration.

3.5—Adjust antenna trimmer C3 for maximum output. "Rock" the gang to obtain maximum peak.

3.6—Check calibration and essativity at 400 Kc. Adjust "A" band "600 Kc. Adjust" for maximum sensitivity.

3.7—Recoest 3.4 and 3.5 ontil further adjustment at

## 3.7—Repeat 3.4 and 3.5 until further adjustment at either 1500 Kc. or 600 Kc. makes no improve-ment in performance.

4. 31 Meter Spread Band Range.

4.2—Set the Signal Generator frequency and the receiver tuning dial to 9.500 megacycles. 4.1-Set the Range Switch to Short Wave (SW)

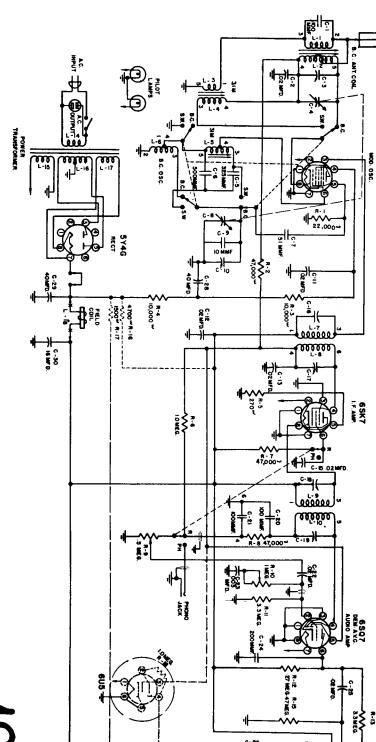
4.3—Connect a 400 ohm carbon resistor in series with the antenna lead from the Signal Generator to the "Ant." terminal on the set, replacing the 200. mmfds. capacitor.

4.5--Adjust the "31 meter antenna trimmer" for "maximum output. "Rock" the gang to obtain maximum peak. 4.4—Adjust the "31 meter Band Centering" screw for maximum signal and correct calibration.

1.6—Check sensitivity at 9.250 9.750 megacycles.

megacycles CARL

A SHE



# Further Instruction on Data Sheet 70

## 400 KC.

## NORMAL VOLTAGE READINGS

Use a line voltage of 117 volts or make allowance for

Take all readings with the chassis operating and tuned

any variations.

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

Read from indicated terminals to chassis base.

See the Location Chart for position of sockets. voltages are indicated by italics. AC

# NORMAL VOLTAGE READINGS-MODEL 552

305	305		310		310		l	Rectifier	5Y4G
16	6	 	1	250	240		1	Output	6F6G
1	6	90	6	<u> </u> .5	1	5	1	Demodulator, AVC, Audio	6SQ7
250	6	105	-1.8	6	l		I	I. F. Amplifier	6SK7
6	6		-12	110	250			Modulator & Oscillator	6SA7
œ	7	6	51	4	బ	2	-	Circuit	Tube
		SOCKETS	TERMINALS OF SOCKETS	TERMIN					
	-	-							

NOTE-"TUNING EYE" SHOWN IN DOTTED LINES USED ON RECEIVERS-662-APT

CONNECTIONS MARKED "X" WILL NOT BE MADE ON 662-APT

IF MARKED "Xo" NOT MADE ON 662-L

TWO RESISTORS SHOWN LINES USED ON-

Ī

DOTTED

P.M. SPEAKER SHOWN LINES USED ON-Z DOTTED

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SHEET