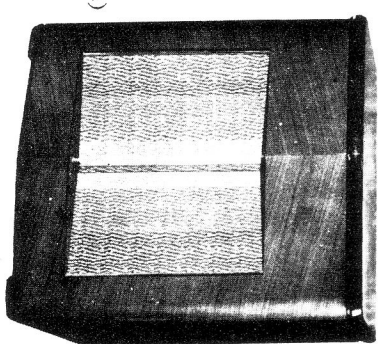
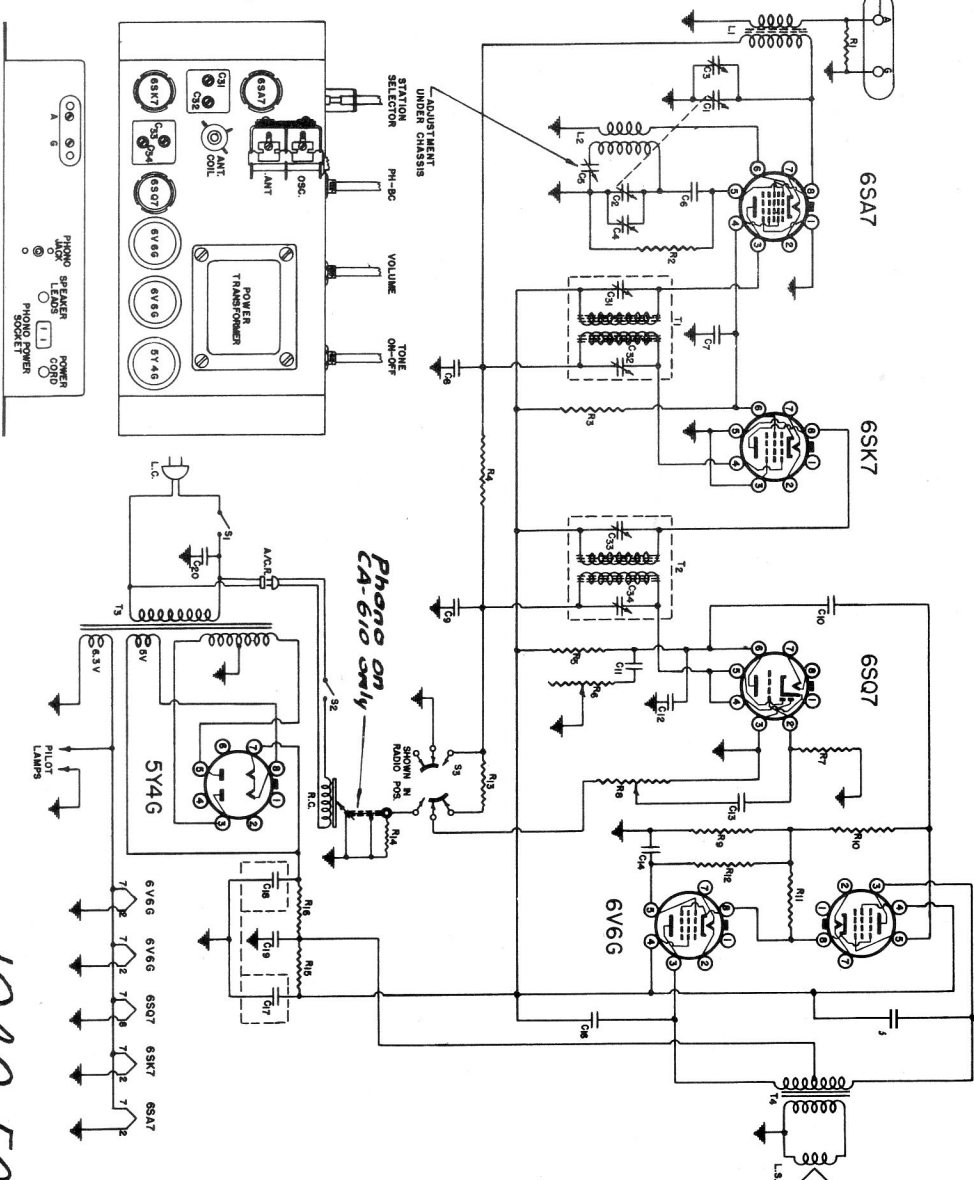


C	1	R. F. Tuning
C	2	Osc. Tuning
C	3	R. F. Trimmer
C	4	Osc. Trimmer
C	5	Padder 600 mmf. max.
C	6	100 mmf.
C	7	.05 mfd.
C	8	.05 mfd.
C	9	100 mmf.
C	10	.05 mfd.
C	11	.01 mfd.
C	12	220 mmf.
C	13	.005 mfd.
C	14	.01 mfd.
C	15	.005 mfd.
C	16	.005 mfd.
C	17	20 mfd.
C	18	20 mfd.
C	19	20 mfd.
C	20	.01 mfd.
R	1	4,700 ohms, 1/2 watt
R	2	22,000 ohms 1/2 watt
R	3	10,000 ohms 2 watt
R	4	2.2 meg. 1/2 watt
R	5	220,000 ohms 1/2 watt
R	6	500,000 ohms Tone Control
R	7	10. meg. 1/2 watt
R	8	1. meg. Volume Control
R	9	390 ohms 2 watt
R	10	470,000 ohms 1/2 watt
R	11	330 ohms 2 watt
R	12	470,000 ohms 1/2 watt
R	13	47,000 ohms 1/2 watt
R	14	220,000 ohms 1/2 watt
R	15	1,500 ohms 2 watt
R	16	300 ohms 10 watt
L	1	Antenna coil
L	2	Oscillator coil
L	3	1st. I. F. Transformer
T	1	2nd. I. F. Transformer
T	2	Power transformer (60 cycles)
T	3	Power transformer (25 cycles)
T	4	Output transformer
S	1	Switch rotary wafers D.P.D.T.
S	2	Speaker 12" P. M.
L.S.	1	Line cord 87 1/2"
L.C.	1	Record changer (less motor)
R.C.	1	Socket A.C. Female
A/CR	1	Terminal strip (Antenna-Ground)
A/G	1	Motor (Alliance) 60 cycle
M	1	Motor (Alliance) 25 cycle



Model CA-610

LOUDSPEAKER
 Type 12 inch P.M.
 Impedance V.C. 6.8 ohms at 400 cycles

PICKUP
 Type Crystal
 Output 1. Volt across .5 Meg.

1949-50
 ALIGNMENT
 DATA ON
 SHEET 16

IF = 456 Kc

AC
 MODELS
 CA-610. CU-610

ASTRA

DATA SHEET 15

CA-610 ALIGNMENT PROCEDURE

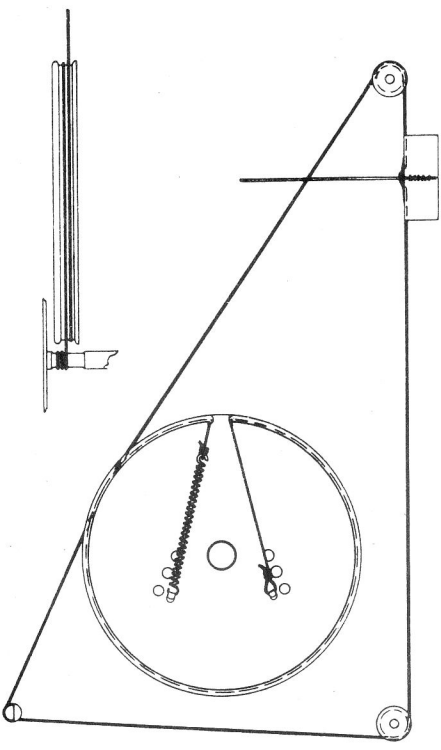
CONNECT S.C. OUTPUT	INPUT FREQUENCY	RECEIVER DIAL SETTING	ADJUST	CIRCUIT RESONATED	REMARKS
*6SA7 Det. Grid	456 KC.	Gang at min.	C34,C33 C32,C31	No. 2 I.F. No. 1 I.F.	Adjust for Max. output.
†Ant. Lead	600 KC.	600 KC.	C5	Oscillator	Adjust for resonance.
Ant. Lead	1500 KC.	1500 KC.	C4 C3	Oscillator R.F.	Adjust for Max. output.

* Short oscillator section of gang through 0.1 mfd. capacitor to chassis.
 † Before proceeding with R.F. alignment see that pointer is set over last division on right hand side of dial scale with gang at minimum.

SOCKET VOLTAGES

TYPE	PLATE	SCREEN GRID	CATHODE	FILAMENT
6SA7	300.V.	118.V.		6.3V.A/C.
6SK7	300V.	118.V.		6.3V.A/C.
6SQ7	120V.			6.3V.A/C.
6V6's	350V.	Approx. 300V.	18 V.	6.3V.A/C.
5Y4G	340 A/C Volts per plate.		340 D.C.	5 V.A/C.

NOTE—All voltages measured with line voltage of 117. V. A. C.



1949-50

AC

CIRCUIT DATA
 ON SHEET 15
 MODELS
 CA-610
 CU-610