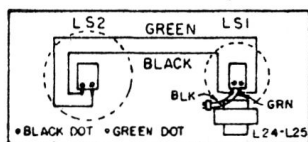
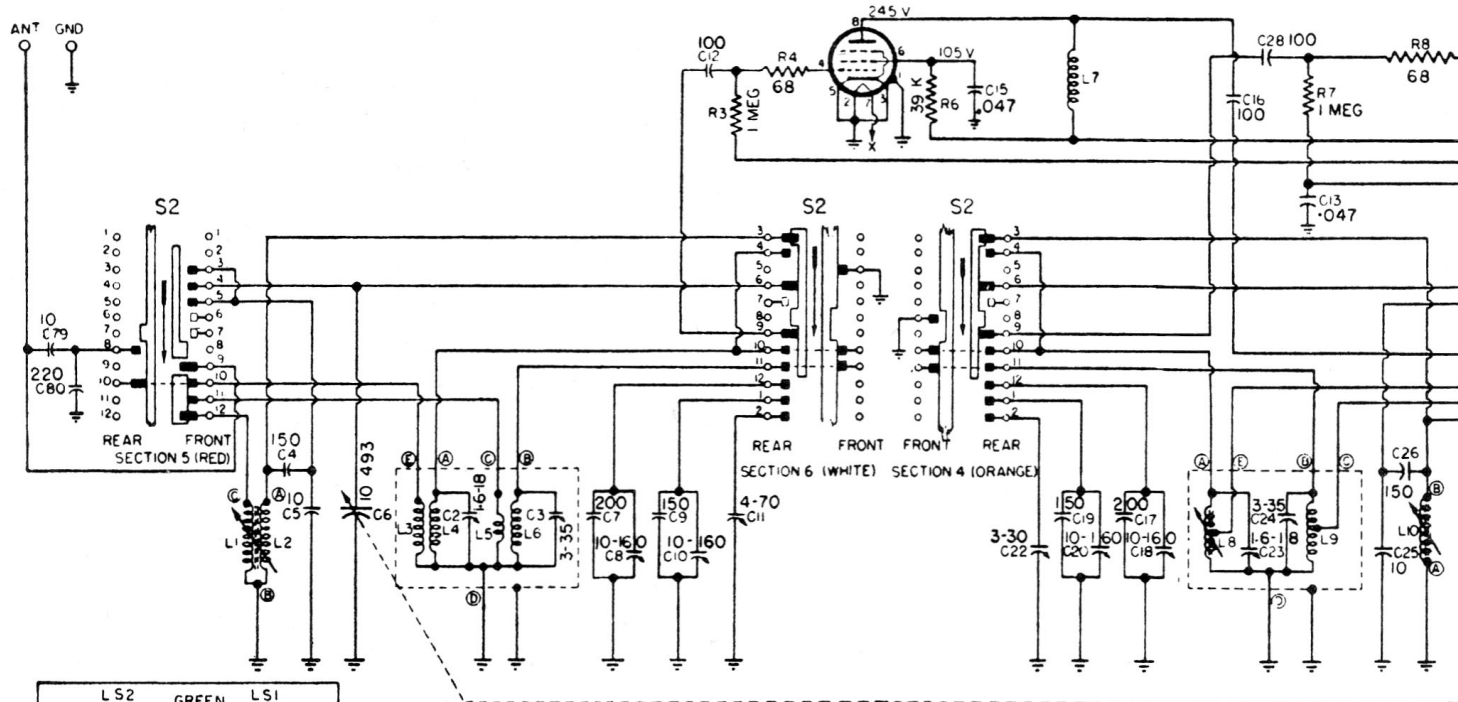


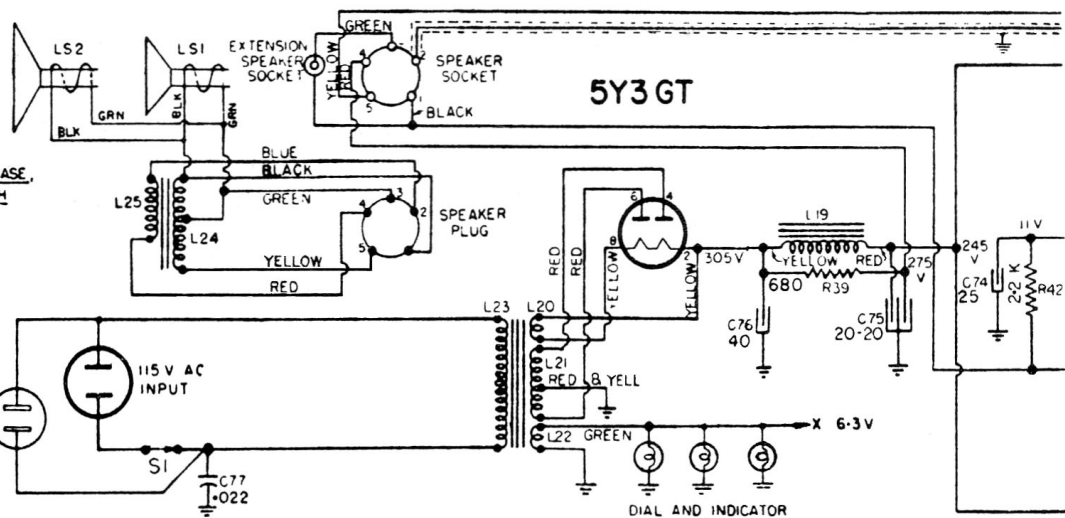
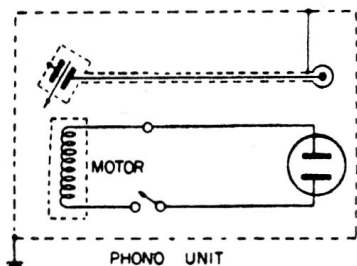
L	1	2	3	4	5	6	25	26	24	23	20	21	22	7	19	8	9	10
R	79	80	4	5	6	2	3	7	8	9	10	11	4	15	22	19	20	17
C	79	80	4	5	6	2	3	7	8	9	10	11	4	15	22	19	20	17

6SG7

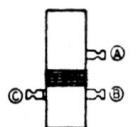


I.F. 455 KC.

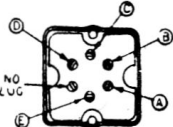
NOTE
ALL VOLTAGES MEASURED TO CHASSIS BASE,
WITH A 20,000 OHMS/VOLT METER, WITH
BAND CHANGE SWITCH IN THIRD POSITION
FROM EXTREME COUNTERCLOCKWISE



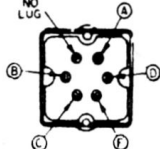
L1, L2



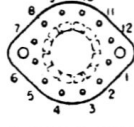
L3, L4, L5, L6



L11, L12

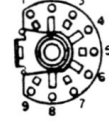


S2 AND S4



TOP OF CHASSIS

S3



TOP OF CHASSIS

SWITCHES SHOWN AS VIEWED
FROM FRONT OF CHASSIS

ALL SWITCH SECTIONS ARE SHOWN IN EXTREME COUNTER-
CLOCKWISE POSITION OF SWITCH, AS VIEWED FROM FRONT
OF CHASSIS

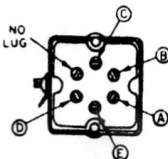
ARROW → INDICATES CLOCKWISE ROTATION OF
POTENTIOMETERS AND SWITCHES.

CAPACITOR VALUES: —, —, —, — SHOWN IN MICRO-MICRO FARADS

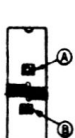
—, —, — SHOWN IN MICRO FARADS

RESISTOR VALUES: SHOWN IN OHMS, K = 1000 OHMS

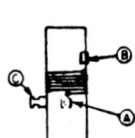
L8, L9

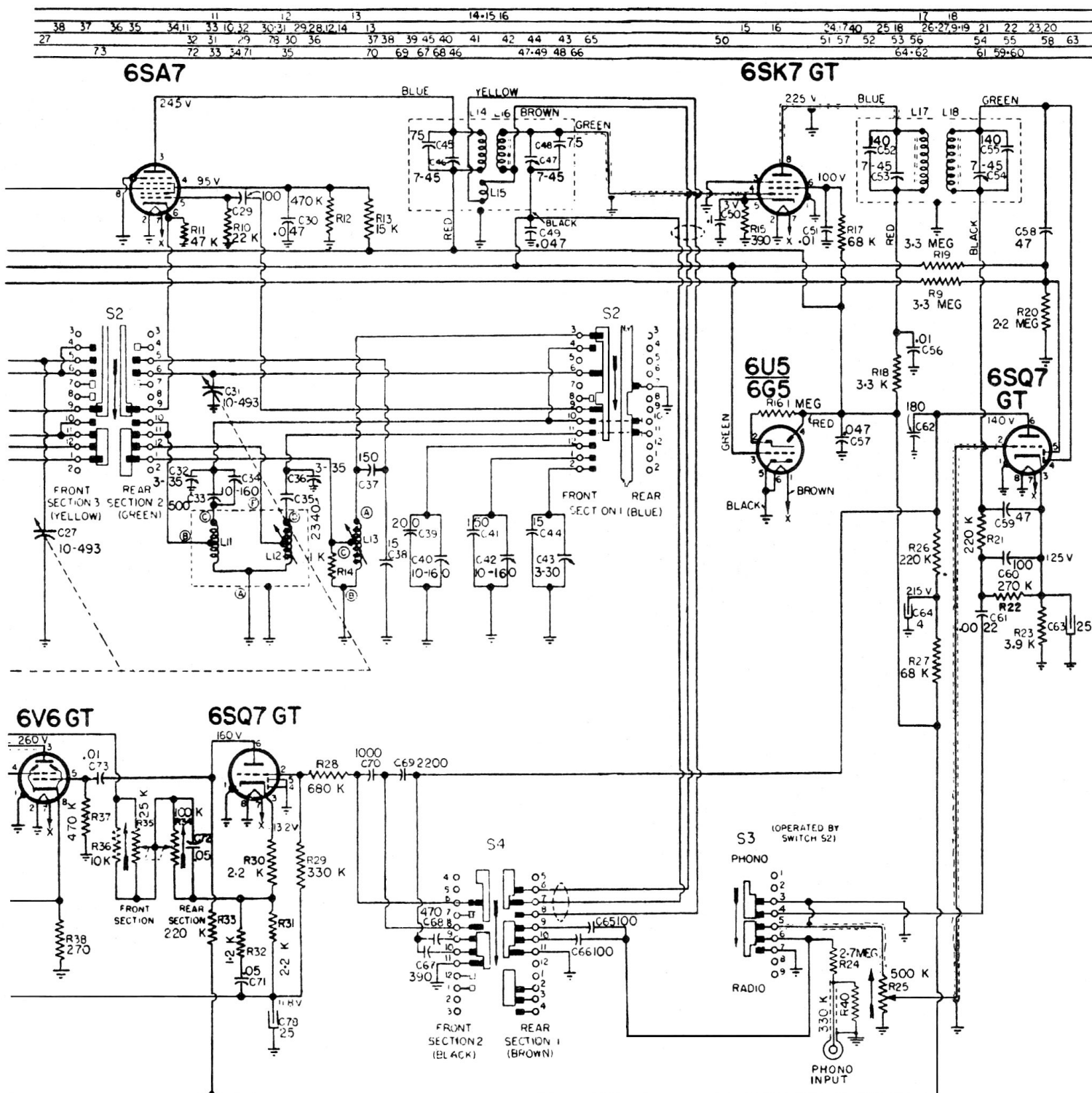


L10



L13





RANGE SWITCH POSITIONS AND TUNING RANGE:

Position	PH	Phonograph Position
"	1 (Red)	535 to 1750 kc (Special)
"	1	535 to 1750 kc (Normal)
"	2	2.45 to 7.6 Mc
"	3	9.22 to 10.41 Mc (Bandspread)
"	4	10.32 to 12.17 Mc (Bandspread)
"	5	14.6 to 22.1 Mc (Bandspread)

INTERMEDIATE FREQUENCY: 455 kc.

AUDIO OUTPUT: 3.5 watts undistorted.

SIGNAL GENERATOR

Operation Steps	Output Connections to Receiver	Frequency	Range Indicator	Tuning Capacitor	See Notes	Adjust in Stated Order for Maximum Output
1	To 6SK7GT Control Grid (4) Through .05 mfd. Capacitor.	455 kc	Black Pos. 1	Min.		2nd I.F. Trimmers C54, C53
2	T Stator C27 Through .05 mmfd. Capacitor.	455 kc	Pos. 1	Min.	A	1st I.F. Trimmers C47, C46
3	To Antenna Terminal Through 200 mmfd. Capacitor.*	570 kc	Pos. 1	570 kc		Broadcast Padder C34 BC-RF Coil L8
4	To Antenna Terminal Through 200 mmfd. Capacitor.*	1600 kc	Pos. 1	1600 kc	B	BC-Osc. Trimmer C32 BC-RF Trimmer C23 BC-Ant. Trimmer C2
5	To Antenna Terminal Through 400 ohms Resistance.*	7.0 Mc	Pos. 2	7.0 Mc	C	SW Osc. Trimmer C36 SW RF Trimmer C24 SW Ant. Trimmer C3
6	To Antenna Terminal Through 400 ohms Resistance.*	2.9 Mc	Pos. 2	2.9 Mc	D	SW Osc. Coil L12
7	To Antenna Terminal Through 400 ohms Resistance.*	21.5 Mc	Pos. 5	21.5 Mc	C	BS Osc. Trimmer C43
8	To Antenna Terminal Through 400 ohms Resistance.*	15.2 Mc	Pos. 5	15.2 Mc	D	BS Osc. Coil L13
9	To Antenna Terminal Through 400 ohms Resistance.*	21.5 Mc	Pos. 5	21.5 Mc	E	BS RF Trimmer C22 BS Ant. Trimmer C11
10	To Antenna Terminal Through 400 ohms Resistance.*	15.2 Mc	Pos. 5	15.2 Mc	F	BS RF Coil L10 BS Ant. Coil L2
11	To Antenna Terminal Through 400 ohms Resistance.*	11.6 Mc	Pos. 4	11.6 Mc	C	BS Osc. Trimmer C42 BS RF Trimmer C20 BS Ant. Trimmer C10
12	To Antenna Terminal Through 400 ohms Resistance.*	9.6 Mc	Pos. 3	9.6 Mc	C	BS Osc. Trimmer C40 BS RF Trimmer C18 BS Ant. Trimmer C8

*or through a standard dummy antenna.

Note "F"—Repeat operation 9.

PIN	6SG7	6SA7	6SK7GT	6SQ7GT Detector	6SQ7GT 2nd A.F.	6V6GT	5Y3GT	6UB5/6CS
1	—	—	—	—	—	—	—	6.3 ac
2	—	—	—	—	—	260	305	21
3	—	245	—	1.25	13.2	245	300 ac	*
4	*	95	—	—	—	—	300 ac	245
5	—	—	3	—	—	—	—	—
6	105	—	—	140	160	—	300 ac	—
7	6.3 ac	6.3 ac	100	6.3 ac	6.3 ac	—	—	—
8	245	*	225	—	—	11	305	—

All voltages are D.C. positive except where noted.
All tubes must be in their sockets during test.
Readings may vary plus or minus 10% due to line voltage fluctuations.

Philips 977

