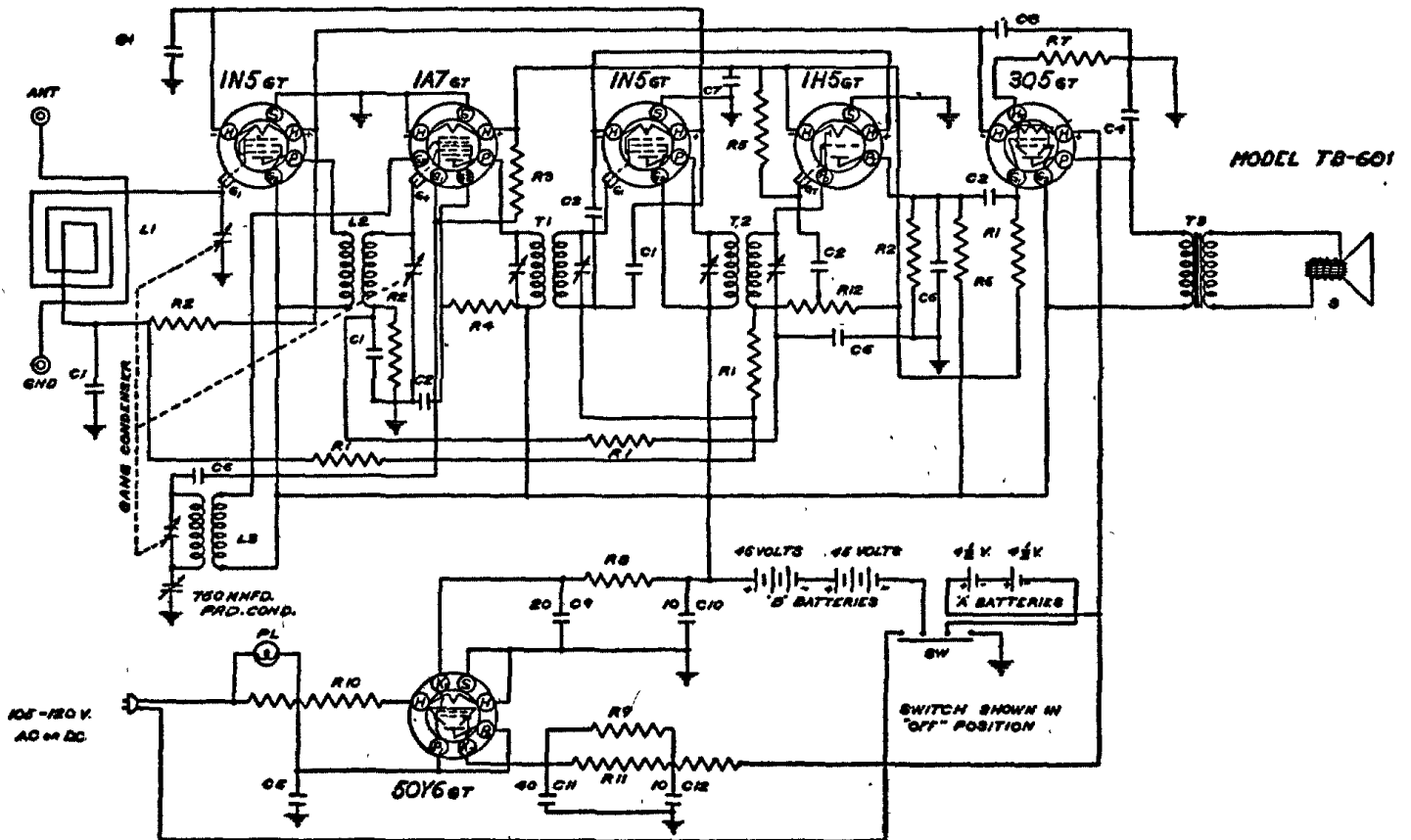


SPIEGEL INC.

MODELS EP2120, DP7120

SCHEMATIC DIAGRAM



DRAWN BY E.D.K. APPROVED BY T.C.

TO CHANGE FROM BATTERY TO AC OR DC

When the set is to be used as a strictly portable set using the batteries for power, it is only necessary to turn on the volume control knob as described above and the set is operating on batteries.

When it is desired to operate this set on house current, merely remove the cord from the back of the set, plug it into the outlet making sure that the outlet is alive and the set will be operating on either AC or DC, whichever is available. It is not necessary to use any switches whatsoever to make this change. Just plugging into a live outlet automatically changes from battery to AC or DC.

This set is designed to operate on 110 volts, either AC or DC. If you are in doubt as to the voltage at the outlet to be used, check with your service man or local power company.

When operating this set on DC, plug the cord into the outlet and turn the set on. After about three minutes have elapsed, giving the rectifier tube a chance to warm up, reverse the plug in the outlet, watching the pilot light to see which position gives the greatest brilliance. That is the position in which the set should be operated.

When changing from AC or DC operation to battery operation merely remove the plug from the outlet and the set will be running on batteries.

BATTERY LIFE

In normal use (three to four hours daily) the batteries your set is originally equipped with, will give approximately 250 or more working hours' service. Replacement should be made with one of the following kits of batteries, or their equivalent in another make:

- 2—"Ray-O-Vac" 45 V. "B" No. 5303.
- 2—"Ray-O-Vac" stand. 4½ V. "A" P63A.
- 2—"General" 45 V. "B" Bat. No. V-30-B.
- 2—"General" 4½ V. "A" Bat. 3H3.

If batteries inferior to the ones initially installed are used, service may be shortened considerably.

PART NO.	SCHEMATIC LOCATION	DESCRIPTION
3-2	R1	2 MEG-½ W 80% RESISTOR
3-6	R2	100,000
3-108	R3	100,000
3-157	R4	50,000
3-311	R5	5 MEG
3-309	R6	500,000
3-29	R7	700
3-312	R8	3000
3-8	R9	25,000
4-301	R10	465 - WIREWOUND
4-302	R11	2200
6-304	R12	5 MEG - VOLUME CONTROL
6-12	SW	4 SWITCH
6-12	C1	55 MFD-200V CONDENSER
6-3	C2	01 MFD 400V
6-46	C3	1 MFD 200V
6-60	C4	002 MFD 400V
6-42	C5	1 MFD 400V
6-807	C6	00005 MFD HIGH
6-808	C7	35 MFD 25V
7-305	C8	70 MFD 75 ELECT.
7-304	C9	20 MFD 150V
7-306	C10	10 MFD 150V
10-305	C11	40 MFD 150V
10-306	C12	30 MFD 80V ELECT. COND.
10-307	L1	LOOP
10-308	L2	RF COIL
10-309	L3	OSCILLATOR COIL
10-310	T1	INPUT 1: TRANSFORMER
10-311	T2	OUTPUT 1: TRANSFORMER
10-312	T3	OUTPUT 2: TRANSFORMER
10-313	S	ON PA SPEAKER
10-314	PL	PILOT LIGHT #47
10-315	1N56T	RF AMPLIFIER
10-316	1A76T	OSCILLATOR-MIXER
10-317	1N56T	IF AMPLIFIER
10-318	1H56T	DETECTOR-AUDIO
10-319	3Q56T	POWER AMPLIFIER
10-320	50Y66T	RECTIFIER