

SPECIFICATION OF S.T.C. MODEL A5131

RADIO PHONOGRAPH

CIRCUIT: Five Valve Broadcast, A.C. operated superheterodyne using converter, one stage I.F. amplification, Detector-audio stage, power output stage, and H.T. Rectifier, A.V.C., variable tone control, power switch, Radio-Phono switch.

TUNING RANGE:
530-1620 Kc/s.

INTERMEDIATE FREQUENCY:
455 Kc/s.

VALVE COMPLEMENT:
 V1. Frequency Converter. 12AH8.
 V2. I.F. Amplifier. 6BA6.
 V3. Detector and Audio Amplifier. 6N8.
 V4. Power Output. 6BW6.
 V5. HT Rectifier. 6X4.

POWER SUPPLY:
 200-260 volts, 40-60 cycles.
 188 Milliamps with 240 volts at 50 cycles input.
 283 " with 240 volts at 50 cycles input on phono.

LOUD SPEAKER:
 12 inch permagnetic with 5000 ohm transformer.

CIRCUIT VOLTAGES:

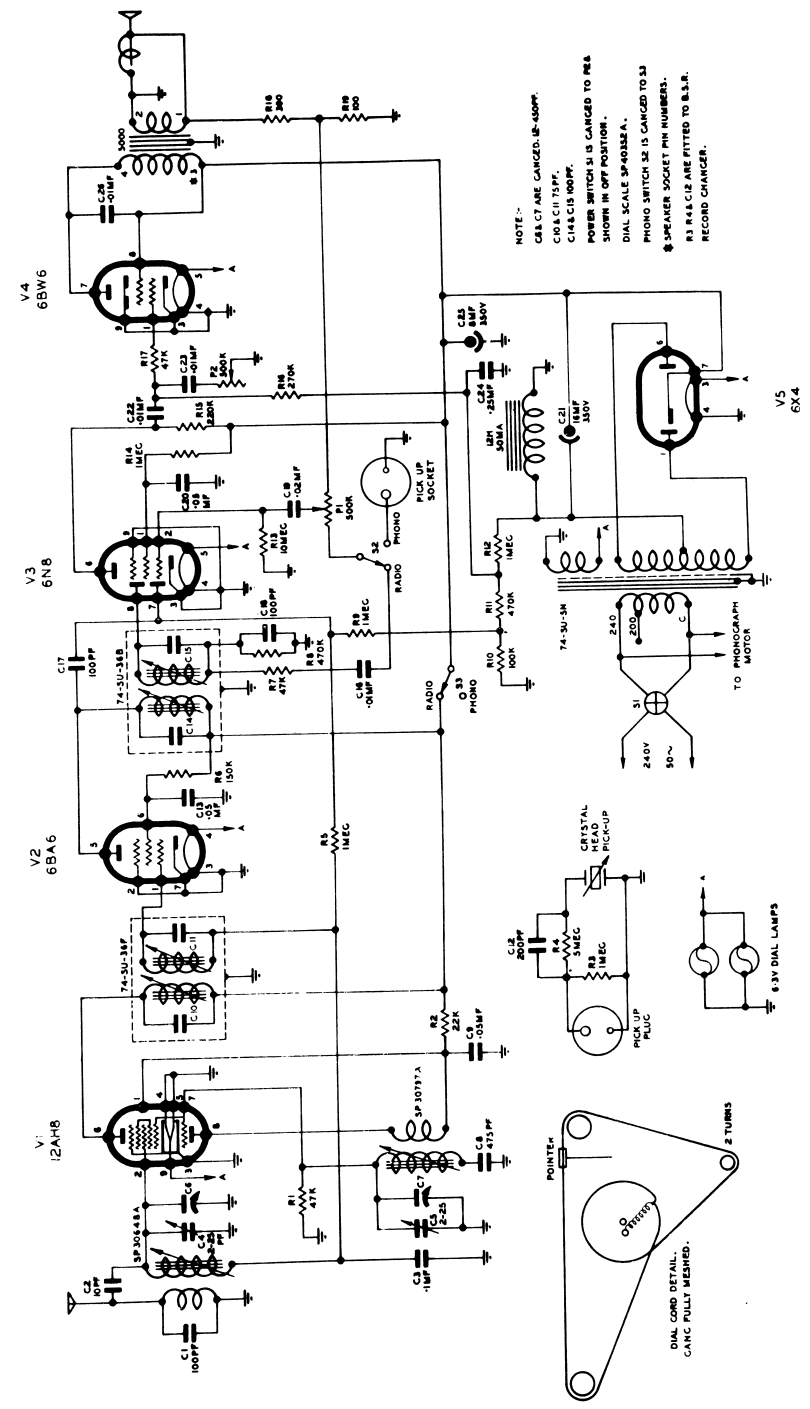
	Plate	Screen	Osc. Plate	Cathode	Heater
V1	218	76	76	0	5.9
V2	218	62	—	0	5.9
V3	63	17	—	0	5.9
V4	195	218	—	0	5.9
V5	237/237	—	—	218	5.9

These voltages must be measured to receiver earth with voltmeter having a resistance of at least 1000 ohms per volt (Tolerance ±5%). Volume control must be turned to maximum.

MEASUREMENT SPECIFICATION:
 I.F. Sensitivity—V1 grid 22 Microvolts.
 I.F. Sensitivity—V2 grid 2.2 Millivolts.
 Broadcast Sensitivity. 6 Microvolts average.
 These figures are related to an audio frequency output of 15 volts measured between plate of V4 and B + through a series condenser of .1 MFD capacity.
 When measuring I.F. sensitivity a .1 MF condenser should be used between the "HOT" signal generator lead and grid of V1. Do not disconnect any wiring.

ALIGNMENT FREQUENCIES:
 1400 Kc/s and 600 Kc/s.

CHECK POINT:
 .1000 Kc/s.



MODEL 5131

