



# RADIO SERVICE BULLETIN

*Issue: No. 89*  
*Date of Issue: May 1952*  
*Subject: Model A4111/2*

## SPECIFICATION OF S.T.C. MODEL A4111/2 RADIO-PHONOGRAPH

**CIRCUIT:** Four valve, A.C. operated superheterodyne with A.V.C. and reflex amplifier. Uses converter, combined I.F. amplifier-detector-audio amplifier. Power output pentode, and H.T. rectifier. Radio-phono. switch on volume control, continuously variable tone control.

**TUNING RANGE:**

530-1620 Kc/s.

**INTERMEDIATE FREQUENCY:**

455 Kc/s.

**VALVE COMPLEMENT:**

V1 Frequency changer—6BE6.  
V2 I.F. amplifier-detector-audio amplifier 6AR7-GT.  
V3 Power output—6BW6.  
V4 H.T. Rectifier—6X5-GT.

**POWER SUPPLY:**

200-240 volts, 40-60 cycles A.C.  
190 M.A. with 240 volts input on radio.  
285 M.A. with 240 volts input on phono.

**LOUD SPEAKER:**

Permag. 9 x 6 inch oval, 5000 ohm transformer.

**CIRCUIT VOLTAGES:**

Figures in brackets apply when switched to phono.

	Plate	Screen	Cathode	Heater
V1	230(0)	100(0)	—	6.2
V2	230(240)	90	—	6.2
V3	210(220)	230(240)	10.5(11)	6.2
V4	250/250	—	260(270)	6.2

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

When measuring I.F. sensitivity a .1 mfd. condenser should be used between the "hot" signal generator lead and the grid of V1. Do not disconnect any wiring.

**MEASUREMENT SPECIFICATION:**

I.F. Sensitivity—V1 grid 80 microvolts.

Broadcast Sensitivity—25 microvolts average.

These figures are related to an audio frequency output of 14 volts measured between plate of V3 and chassis through a series condenser of .1 mfd. capacity.

**ALIGNMENT FREQUENCIES:**

1400 Kc/s and 600 Kc/s.

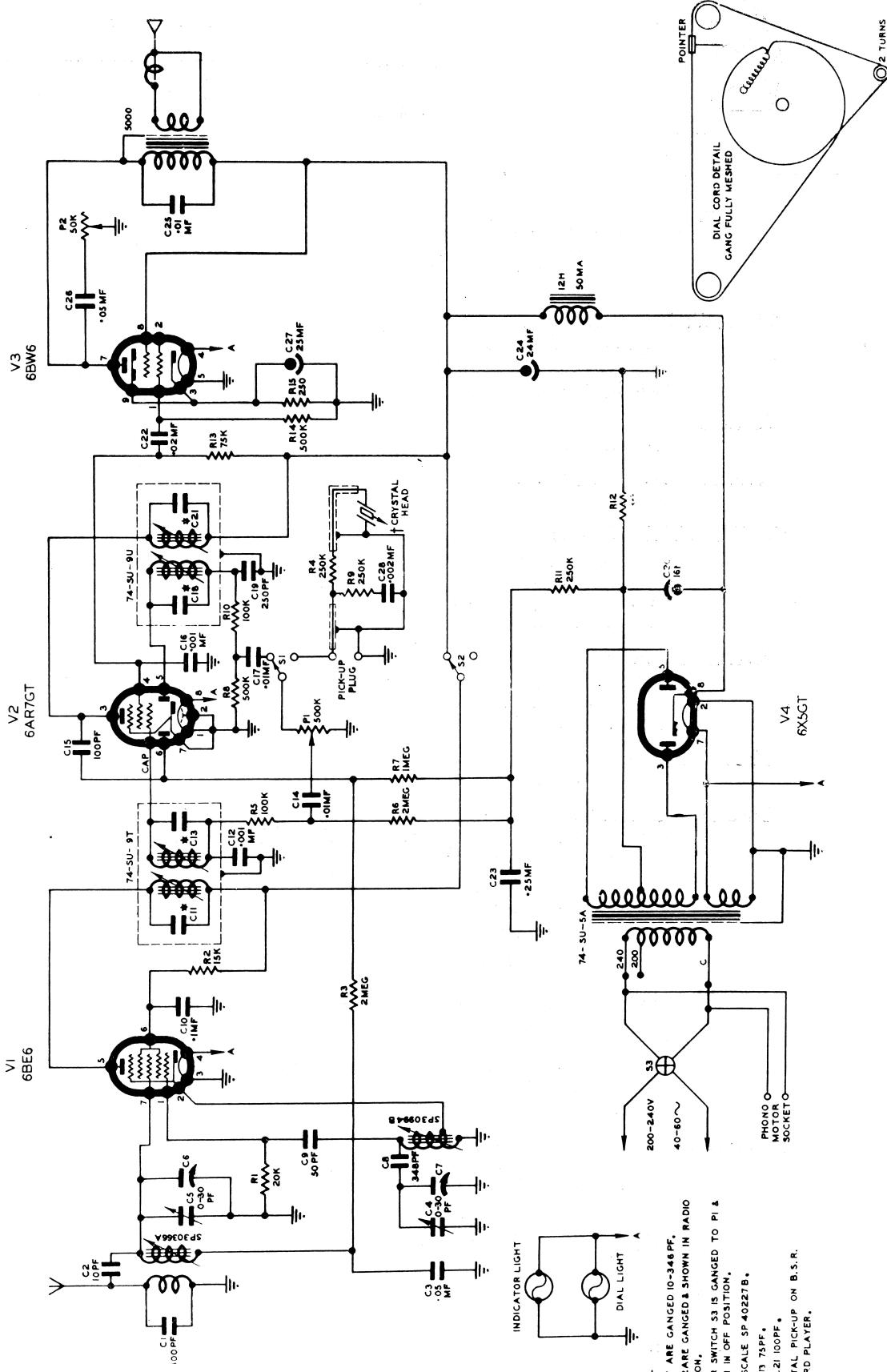
**CHECK POINT:**

1000 Kc/s.



# MODEL A 411/2

RADIO-PHONOGRAPH (CONSOLE)



NOTE:-  
C<sub>6</sub> & C<sub>7</sub> ARE GANGED TO 3.6 PF.  
S1 & S2 ARE GANGED & SHOWN IN RADIO  
POSITION,  
POWER SWITCH S3 IS GANGED TO PI &  
SHOWN IN OFF POSITION.  
DIAL SCALE SP 40227 B.

\* C<sub>11</sub> & C<sub>13</sub> 75PF.

C<sub>18</sub> & C<sub>21</sub> 100PF.

CRYSTAL PITCH-UP ON B.S.R.  
RECORD PLAYER.