



SERVICE BULLETIN

SPECIFICATION OF S.T.C. MODEL A5251 RADIOGRAM

DESCRIPTION:

A five valve dual wave A.C. operated console radiogram incorporating:—

- Automatic gain control.
- Three speed mixer record changer.
- Inverse feedback.
- Power switch on tone control.

TUNING RANGE:

- 530-1620 Kc/s.
- 5.8-18.2 Mc/s.

INTERMEDIATE FREQUENCY:

455 Kc/s.

VALVE COMPLEMENT:

- V1 Frequency converter 12AH8.
- V2 I.F. amplifier 6BA6.
- V3 Detector, A.G.C. and audio amplifier 6AT6.
- V4 Power output 6BW6.
- V5 Rectifier 6X4.

POWER SUPPLY:

- 230-250 volts, 50 cycles A.C.
- 210 Milliampères with 240 volts at 50 cycles input on radio.
- 250 Milliampères with 240 volts at 50 cycles input on gram.

LOUD SPEAKER:

Twelve inch permagnetic with 5000 ohm output transformer.

CIRCUIT VOLTAGES:

	Plate	Screen	Osc. Plate	Cathode	Heater
V1	230	75	75	—	6.25
V2	230	65	—	—	6.25
V3	75	—	—	0.8	6.25
V4	260	230	—	—	6.25
V5	257/257	—	—	285	6.25

These voltages are measured to the receiver earth with a voltmeter having a resistance of at least 1000 ohms per volt and they may vary within 10% of their values.

MEASUREMENT SPECIFICATION:

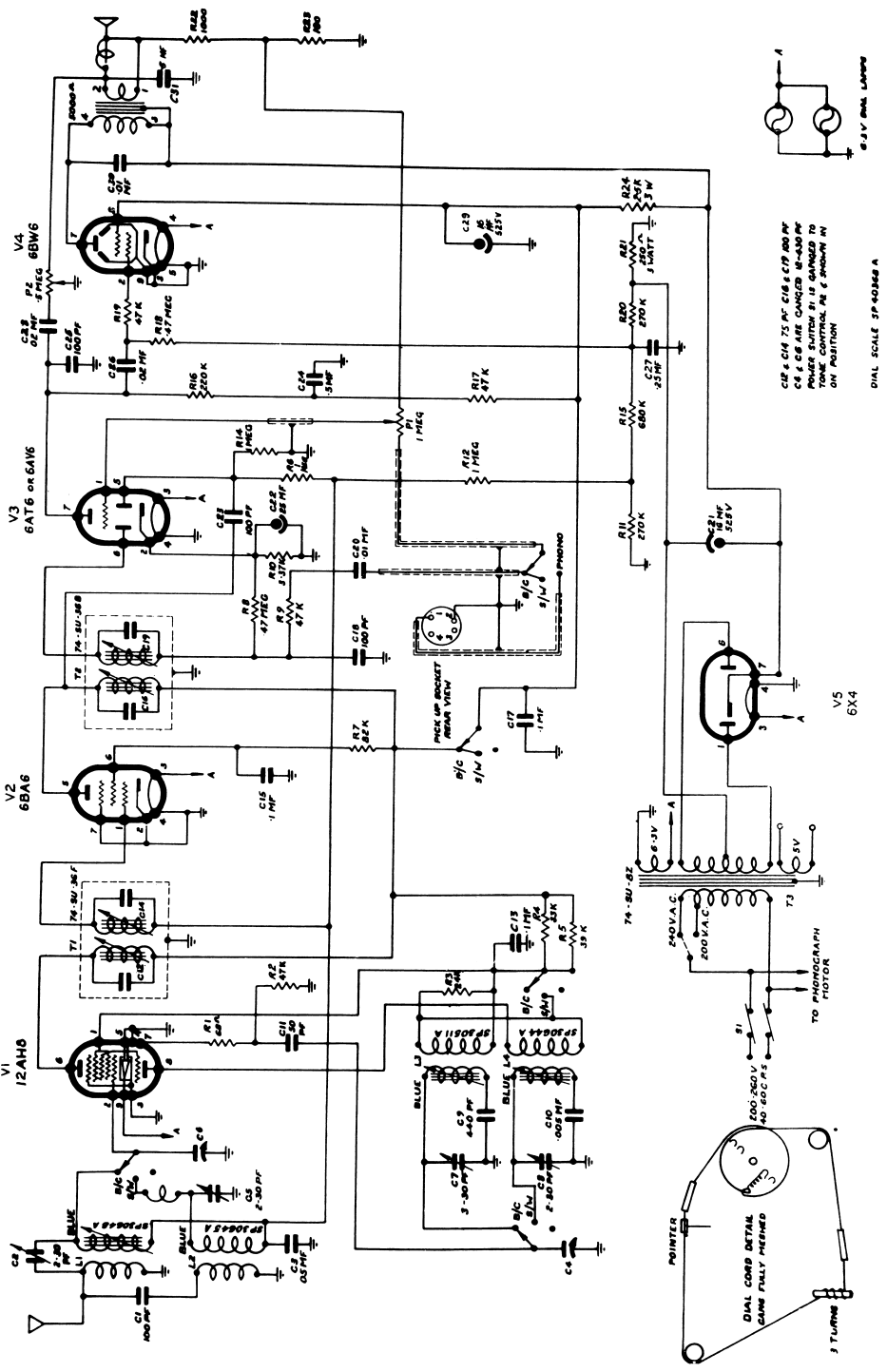
- I.F. sensitivity—V1 Grid, 30 microvolts.
 - I.F. sensitivity—V2 Grid, 2.5 millivolts.
 - Broadcast sensitivity—10 microvolts maximum.
 - Short Wave sensitivity—40 microvolts maximum.
- These sensitivity figures are related to an audio frequency output of 15 volts measured between the plate of V4 and Pin 7 of V5. When measuring I.F. sensitivity, do not disconnect any wiring and place a .1 MFD condenser between the "HOT" signal generator lead and the grid of V1 or V2.

ALIGNMENT FREQUENCIES:

- Broadcast—600 Kc/s and 1400 Kc/s.
- Short Wave—6 Mc/s and 16 Mc/s.

CHECK POINT:

- Broadcast—1000 Kc/s.
- Short Wave—10 Mc/s.





SPECIFICATION OF S.T.C. MODEL 5251/1 RADIOGRAM

DESCRIPTION:

A five valve dual wave A.C. operated console radiogram incorporating:—

- Automatic gain control.
- Three speed mixer record changer.
- New improved inverse feedback.
- Power switch on tone control.

TUNING RANGE:

530-1620 Kc/s.
4.8-16.2 Mc/s.

INTERMEDIATE FREQUENCY:

455 Kc/s.

VALVE COMPLEMENT:

- V1 Frequency converter 12AH8.
- V2 I.F. amplifier 6BA6.
- V3 Detector, A.G.C. and audio amplifier 6N8.
- V4 Power output beam tetrode 6BW6.
- V5 Rectifier 6X4.

POWER SUPPLY:

230-250 volts, 50 cycles A.C.
220 milliamperes with 240 volts at 50 cycles input on "RADIO".
220 milliamperes with 240 volts at 50 cycles input on "GRAM".

LOUDSPEAKER:

Twelve inch permagnetic with 5000 ohm output transformer.

CIRCUIT VOLTAGES:

Refer to circuit diagram.
The voltages are measured to the receiver earth with a voltmeter having a resistance of at least 20,000 ohms per volt and they may vary within 10% of their stated value.

MEASUREMENT SPECIFICATION:

I.F. Sensitivity—V1 Grid 30 microvolts.
I.F. Sensitivity—V2 Grid 3 millivolts.
Broadcast sensitivity—10 microvolts maximum.
Short Wave sensitivity—40 microvolts maximum.
These sensitivity figures are related to an audio output voltage of 15 volts measured across the output transformer primary. When measuring sensitivities do not disconnect any wiring and place a .1 MFD condenser between the "HOT" signal generator lead and the grid of V1 or V2.

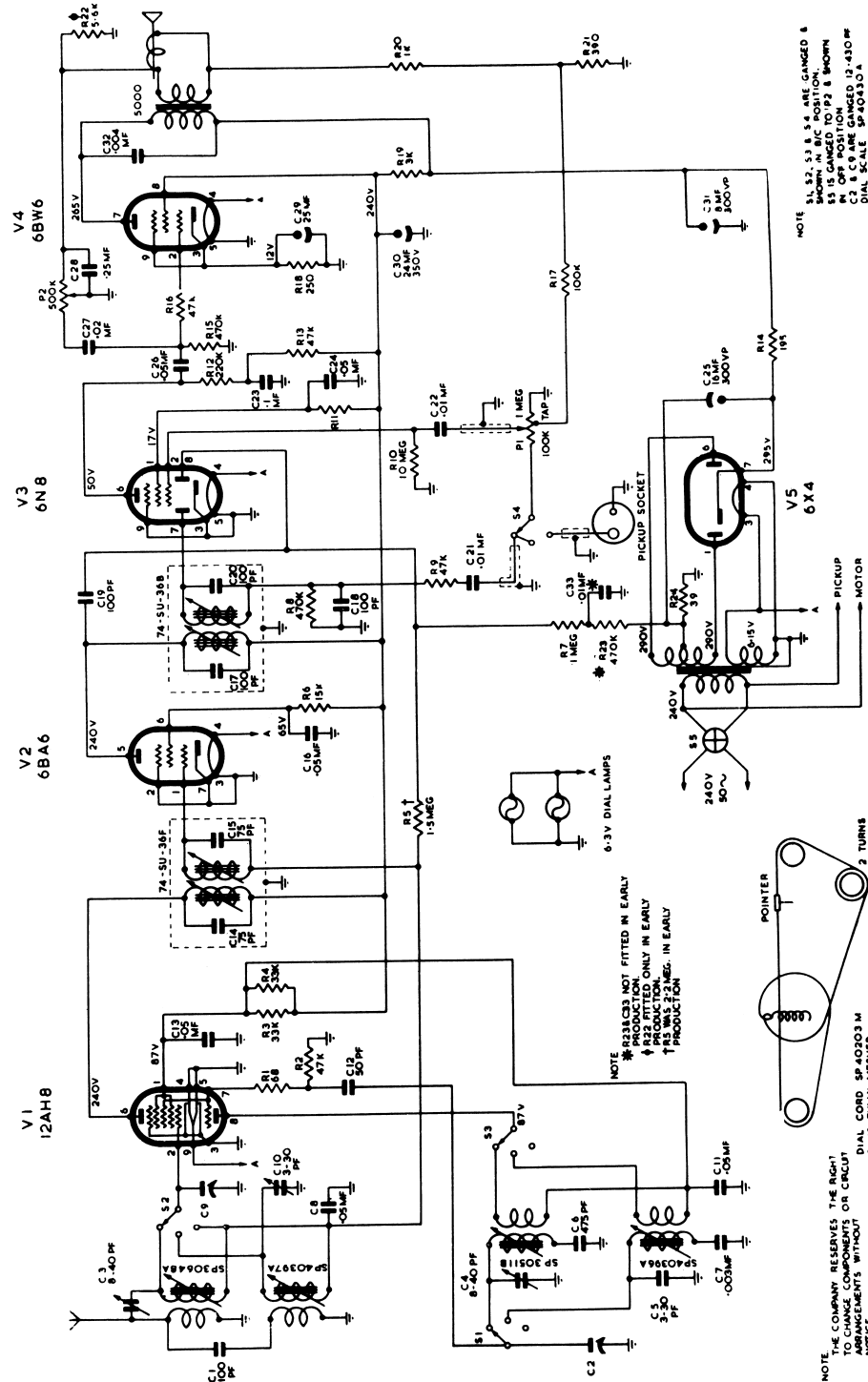
ALIGNMENT FREQUENCIES:

Broadcast—600 Kc/s and 1400 Kc/s.
Short Wave—5 Mc/s and 15 Mc/s.

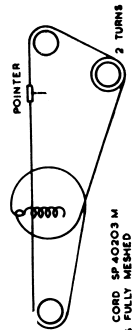
CHECK POINT:

Broadcast—1000 Kc/s.
Short Wave—9 Mc/s.

MODEL 5251/1 CONSOLE RADIOGRAM



NOTE: S1, S2, S3 & S4 ARE GANGED & SHOWN IN B/C POSITION. S5 IS GANGED WITH S2 & SHOWN IN B/C POSITION. C3 & C9 ARE GANGED 12-430 PF. DIAL SCALE SP40430A.



NOTE: THE COMPANY RESERVES THE RIGHT TO CHANGE COMPONENTS OR CIRCUIT REQUIREMENTS WITHOUT NOTICE.