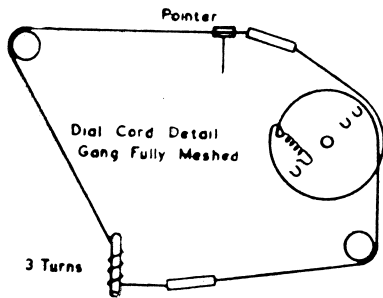
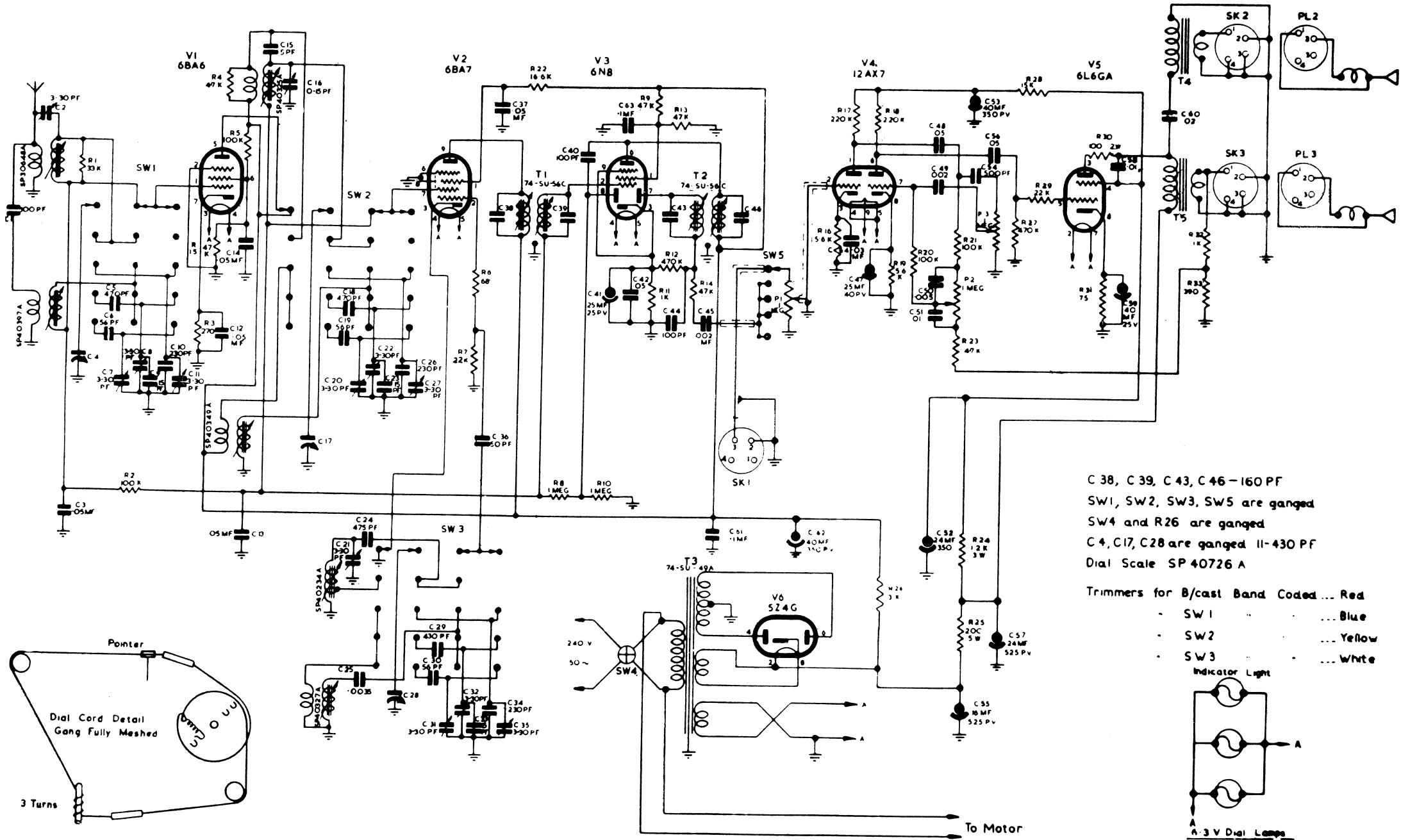




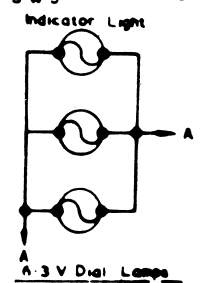
MODEL 6461

RADIOGRAM



C 38, C 39, C 43, C 46 - 160 PF
 SW1, SW2, SW3, SW5 are ganged
 SW4 and R26 are ganged
 C 4, C17, C28 are ganged 11-430 PF
 Dial Scale SP 40726 A

Trimmers for B/cast Band Coded ... Red
 - SW1 ... Blue
 - SW2 ... Yellow
 - SW3 ... White



To Motor



RADIO SERVICE BULLETIN

Issue: No. 119

Date of Issue: July, 1956

Subject: Model A6461

SPECIFICATION OF S.T.C. MODEL A6461 RADIOGRAM

DESCRIPTION:

A six valve four band A.C. operated console radiogram incorporating:—

- Automatic gain control
- Three speed high fidelity mixer record changer.
- Inverse feedback across two circuits.
- Separate bass and treble tone controls.
- Power switch on treble tone control.
- Extended short wave scale divided into three bands.
- Twin loudspeakers:—
 - 12 inch for low frequencies.
 - 5 inch for high frequencies.
- High power beam output tetrode.

TUNING RANGE:

- 530-1620 Kc/s.
- 3.95-6.25 Mc/s.
- 6.15-11.7 Mc/s.
- 11.6-15.6 Mc/s.

INTERMEDIATE FREQUENCY: 455 Kc/s.

VALVE COMPLEMENT:

- V1. R.F. Amplifier 6BA6.
- V2. Converter 12AH8.
- V3. I.F. Amplifier detector and A.G.C. 6N8.
- V4. Audio amplifier and tone control 12AX7.
- V5. Power output beam tetrode 6L6GA.
- V6. Rectifier 5Z4G.

POWER SUPPLY:

- 230-250 volts 50 cycles A.C. only.
- 300 milliamperes with 240 volts at 50 cycles input on "RADIO".
- 360 milliamperes with 240 volts at 50 cycles input on "GRAM".

LOUD SPEAKERS:

- Twelve inch permagnetic low frequency speaker with 2500 ohm transformer.
- Five inch permagnetic high frequency speaker with 5500 ohm transformer.

CIRCUIT VOLTAGES:

	Plate	Screen	Cathode	Heater
V1	250	46	1.0	6.0
V2	250	95	0	6.0
V3	250	80	3.0	6.0
V4	140/140	—	1.3/1.3	6.0
V5	255	250	13.0	6.0
V6	255/255	—	285	5.0

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

MEASUREMENT SPECIFICATION:

I.F. sensitivity—V2 Grid 100 microvolts.
 I.F. sensitivity—V3 Grid 8 millivolts.
 Broadcast sensitivity—3 microvolts maximum.
 Short Wave sensitivity—12 microvolts maximum.
 These sensitivity figures are related to an audio frequency output of 11 volts measured across the primary of the output transformer. When measuring I.F. sensitivity do not disconnect any wiring and place .1 MFD condenser between the "HOT" signal generator lead and the grid of V2 or V3.

ALIGNMENT FREQUENCIES:

Broadcast—600 Kc/s and 1400 Kc/s.
 Short Wave—3.95 Mc/s and 6.25 Mc/s.
 11.7 Mc/s.
 15.6 Mc/s.

CHECK POINT:

Broadcast—1000 Kc/s.
 Short Wave—5 Mc/s, 6 Mc/s, 9 Mc/s, 13 Mc/s.

ALIGNMENT PROCEDURE:

To obtain the best results from this receiver the following table has been prepared to facilitate the alignment procedure on broadcast and short wave.

Range	Osc. Section		Aer. and R.F. Section	
	Peak Slug at	Peak Trimmer at	Peak Slug at	Peak Trimmer at
Broadcast	530 Kc/s	1620 Mc/s	600 Kc/s	1400 Kc/s
SW1, 3.95-6.25 Mc/s	3.95 Mc/s	6.25 Mc/s	5 Mc/s	6 Mc/s
SW2, 6.15-11.7 Mc/s		11.7 Mc/s		9 Mc/s
SW3, 11.6-15.6 Mc/s		15.6 Mc/s		13 Mc/s