

## Sparks-Withington Co.

**Model:** 154

**Chassis:**

**Year:**

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

Resources

[Radio College Of Canada - SPARTON 29](#)

# I.F. = 345 K.C.

## ALIGNMENT PROCEDURE

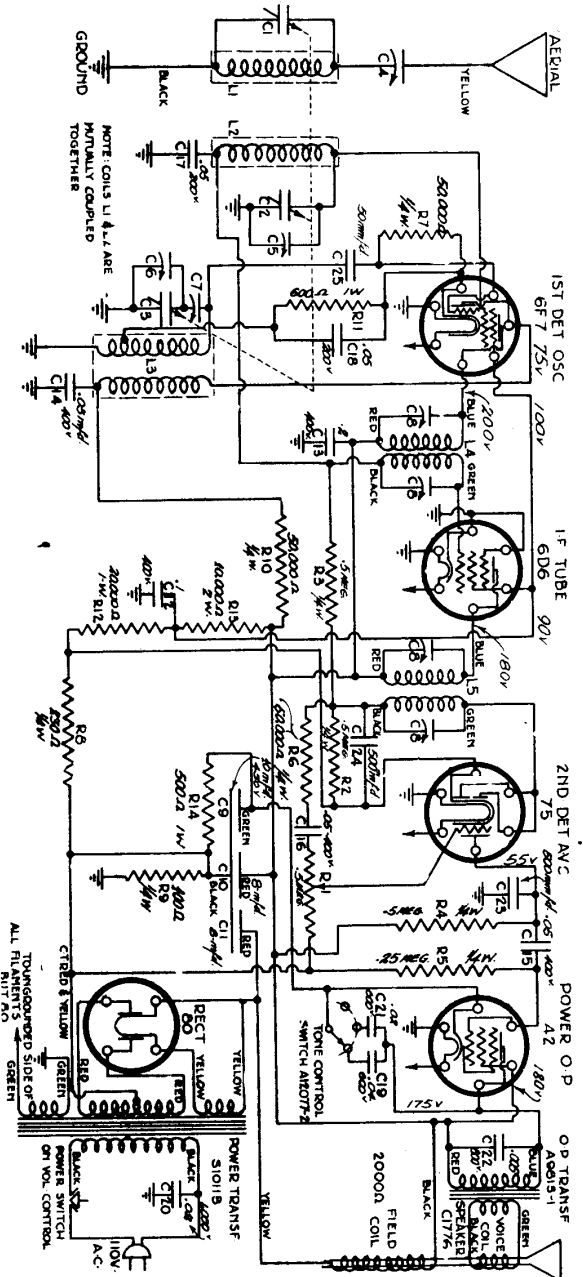
NOTE—Before commencing alignment make sure that the dial is set so that with the selector plates in place, the pointer points to the last division on the broadcast scale.

- 1. INTERMEDIATE FREQUENCY AMPLIFIER**—Set service oscillator at 345 K.C. and with test lead attached to the 6F7 (C8 for max.) trim cap, adjust trimmer on output meter.
- 2. OSCILLATOR TRIMMER**—Set service oscillator at 1500 K.C. and connect test lead to yellow aerial lead, adjust trimmer C6 until with signal tuned in dial points to 150.
- 3. OSCILLATOR PADDERS**—Set service oscillator at 600 K.C. and adjust padder (C7) until with signal tuned in dial points to 60. Re-check at 1500 as in section 2 above.
- 4. R. F. TRIMMERS**—With service oscillator at 1500 and set tuned to that frequency, adjust C4 and C5 for maximum output. NOTE—In some cases better results will be obtained if C4 (the antenna trimmer) is readjusted on a station at 1400 K.C. when the set is connected to the aerial with which it is to be used.

## WHAT TO LOOK FOR IN CASE OF TROUBLE

**EXCESSIVE NOISE**—Check alignment, check aerial, too short an aerial will result in the picking up of too large a percentage of noise. A ground should always be used.

The pointer on this set is in the form of a mark on the green dial screen, in some cases the set appears off calibration a few K.C. on all stations; this is due to the fact that the selector has slipped in its rubber mounting washers. The remedy is to tap the tuning knob gently in the desired direction, this causes the selector to shift far enough to remedy the trouble.



# MODEL. 154

## 1935-36

### VOLTAGE ANALYSIS AND RESISTANCE CHART

Tube	Location	Plate Mils	Plate Volts	Screen Volts	Grid Volts	Heater Volts	Plate	Grid	Screen	Cathode
6F7	R. F. Pent.	5	200	100	(2)	6.3	30,000	1 Meg.	20,000	600
6D6	OSC. Tri.	2	75	—	(8)	—	80,000	50,000	—	—
75	1st I. F.	7	180	90	(1)	6.3	39,000	1 Meg.	20,000	0
42	2nd Det. A.V.C.	1-	55	—	(1)	6.3	500,000	500,000	—	—
80	Output	20	175	180	10 (2)	6.3	30,000	250,000	—	600
80	Rectifier	62	300	—	—	5.0	100	—	—	—

(1) Grid bias supplied by signal, cannot be read on analyzer.  
 (2) High resistance circuit not true voltage.  
 All readings taken with volume control on full and no signal applied to aerial.  
 All readings + or - 10%. All voltages taken on 1000 ohm per volt meter.

# DATA SHEET

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COURTESY-  
**SPARTON-29**  
 OF CANADA LTD.

## CHASSIS LAYOUT

