



# RADIO SERVICE BULLETIN

Issue: No. 112

Date of Issue: June, 1955

Subject: Model A5150

## SPECIFICATION OF S.T.C. MODEL A5150 CLOCK CONTROLLED RADIO

### DESCRIPTION:

A five valve clock controlled broadcast mantel radio incorporating:  
An automatic pre-set electric clock  
High gain aerial coil  
Inverse feedback  
High gain power output pentode.

### 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 6AT6.  
V4 Power output 6CH6.  
V5 H.T. Rectifier 6X4.

### POWER SUPPLY:

230-250 Volts, 50 cycles only.  
180 Milliamperes at 240 volts input.

### LOUD SPEAKER:

4 inch permagnetic with 6000 ohm transformer.

### CIRCUIT VOLTAGES:

	Plate	Screen	Osc. Plate	Cathode	Heater
V1	185	68	68	—	6.3
V2	185	58	—	—	6.3
V3	54	—	—	—	6.3
V4	188	184	—	—	6.3
V5	208/208	—	—	212	6.3

These voltages may vary within 5% of their stated values and must be measured to receiver earth with a voltmeter having a resistance of at least 1000 ohms per volt.

### MEASUREMENT SPECIFICATION:

I.F. Sensitivity—V1 Grid, 40 microvolts.

I.F. Sensitivity—V2 Grid 4 millivolts.

Broadcast Sensitivity—10 microvolts average.

These figures are related to an audio frequency output of 17 volts measured between the plate of V4 and Pin 7 of V5 through a series condenser of .1 MFD capacity. When measuring I.F. sensitivity a .1 MFD condenser should be used between the "Hot" signal generator lead and grid of V1 or V2. Do not disconnect any wiring.

### ALIGNMENT FREQUENCY:

Broadcast—600 Kc/s and 1400 Kc/s.

### CHECK POINT:

Broadcast—1000 Kc/s.

### REMOVAL OF CHASSIS:

To remove the sets from the cabinet it is first necessary to **SWITCH OFF THE POWER AND REMOVE THE PLUG FROM THE POWER POINT** then proceed as follows:—

- (1) Remove the time setting knob from rear of cabinet.
- (2) Remove the four screws securing the cabinet back and place the back aside.
- (3) Extract the clock power plug from its socket on the chassis.
- (4) Remove the three knobs and their felt washers from side of cabinet.
- (5) Remove the four chassis mounting screws from beneath cabinet and withdraw chassis from cabinet.

When replacing the chassis, these instructions should be observed in reverse order, making sure that the clock cable is kept away from the output valve.

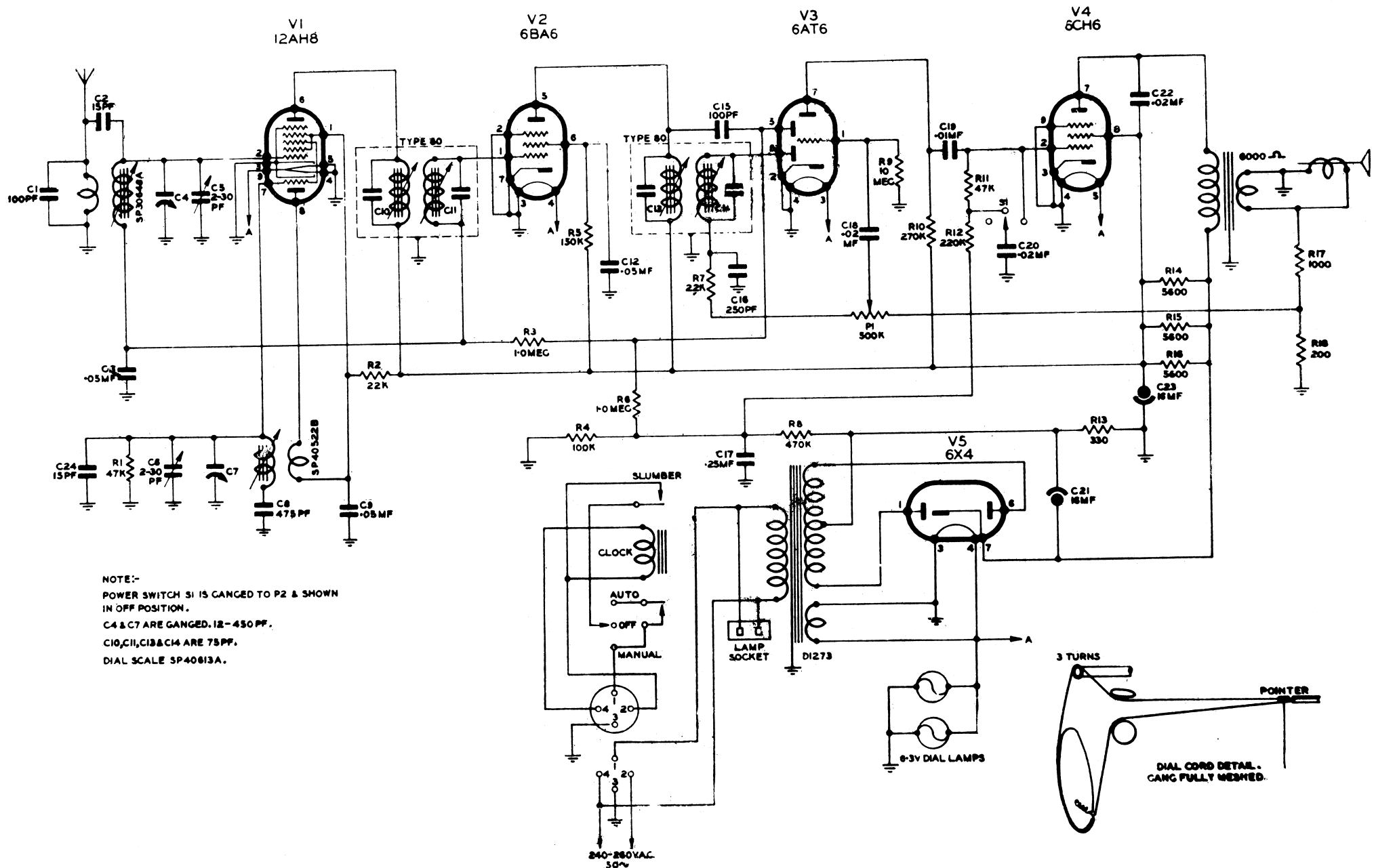
### REMOVAL OF CLOCK:

After removal of chassis from cabinet, the clock may be removed as follows:—

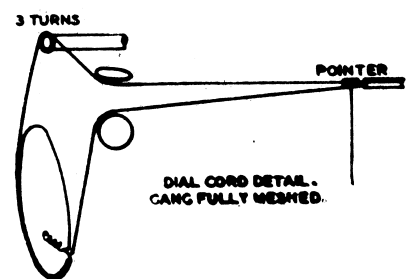
1. Remove hand setting shaft from rear of clock.
2. Remove adhesive tape sealing plastic bag around clock, open out sides of bag to provide access to the nuts at each corner of clock.
3. Using a 4 BA box spanner, remove the four nuts and withdraw clock from cabinet.



# MODEL 5150



NOTE:-  
 POWER SWITCH S1 IS GANGED TO P2 & SHOWN  
 IN OFF POSITION.  
 C4 & C7 ARE GANGED. 12-450 PF.  
 C10, C11, C13 & C14 ARE 75 PF.  
 DIAL SCALE SP40613A.



240-280VAC  
 50~