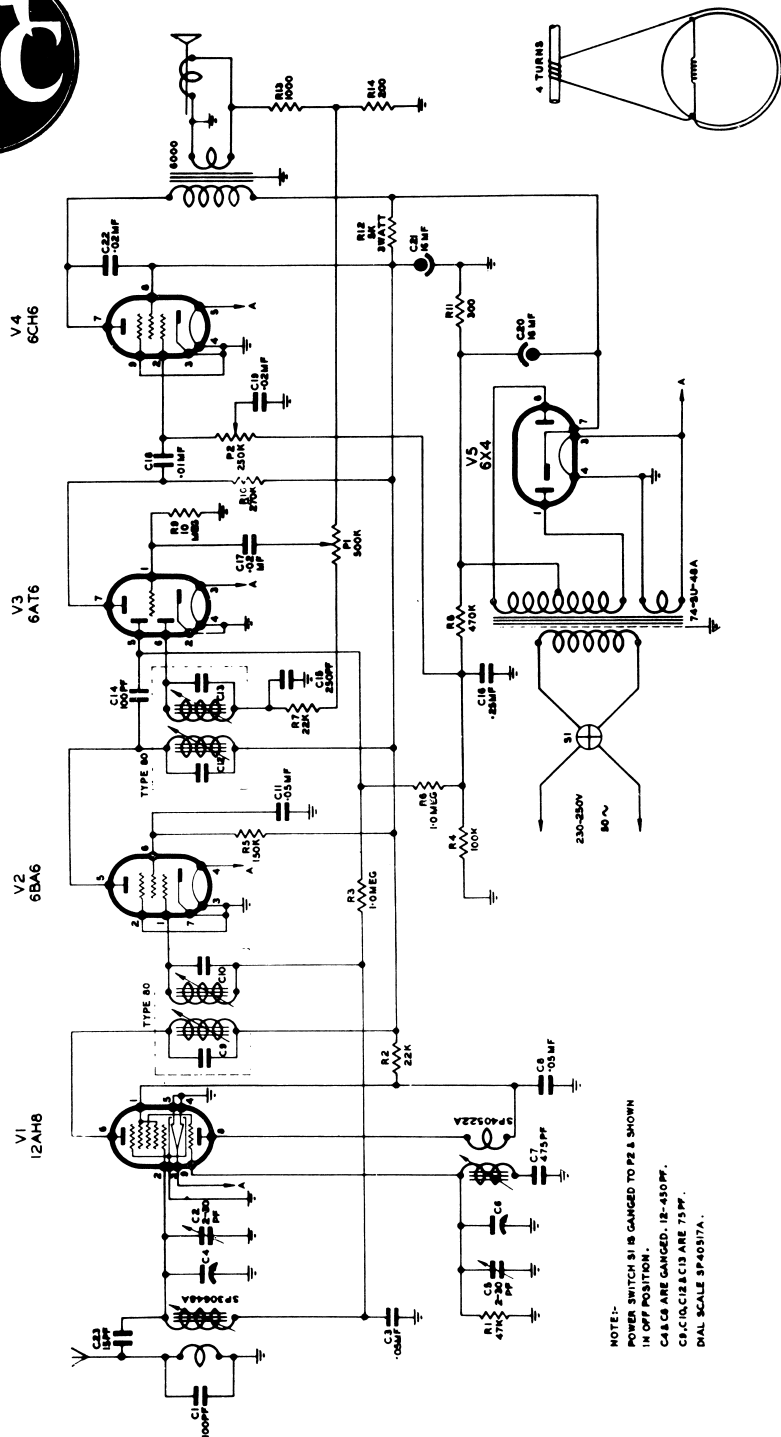




MODEL 5140



DIAL CORD DETAIL.  
GANG FULLY MESHED.

# SERVICE BULLETIN

## SPECIFICATION OF S.T.C. MODEL A5140

### DESCRIPTION:

A five valve broadcast mantel radio incorporating:—  
Automatic volume control.  
Power switch on tone control.  
High gain power output pentode.  
Inverse feed back.

### TUNING RANGE:

530-1620 Kc/s.

### INTERMEDIATE FREQUENCY:

455 Kc/s.

### VALVE COMPLEMENT:

- V1. Frequency Converter. 12AH8.
- V2. I.F. Amplifier. 6BA6.
- V3. Detector, A.V.C. and audio amplifier. 6AT6.
- V4. Power output. 6CH6.
- V5. H.T. Rectifier. 6X4.

### POWER SUPPLY:

230-250 volts, 50 cycles A.C.  
180 milliamperes with 240 volts at 50 cycles input.

### LOUD SPEAKER:

5 inch permagnetic with 6000 ohm transformer.

### CIRCUIT VOLTAGES:

	Plate	Screen	Osc. Plate	Cathode	Heater
V1	205	76	76	—	6.25
V2	205	65	—	—	6.25
V3	68	—	—	—	6.25
V4	235	205	—	—	6.25
V5	252/252	—	—	275	6.25

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

### MEASUREMENT SPECIFICATION:

I.F. Sensitivity—V1 grid. 60 microvolts.  
I.F. Sensitivity—V2 grid. 4 millivolts.  
Broadcast Sensitivity. 10 microvolts.  
These figures are related to an audio frequency output of 17 volts measured between the plate of V4 and Pin 7 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. Do not disconnect any wiring.

### ALIGNMENT FREQUENCIES:

Broadcast—600 Kc/s. and 1400 Kc/s.

### CHECK POINT:

Broadcast—1000 Kc/s.