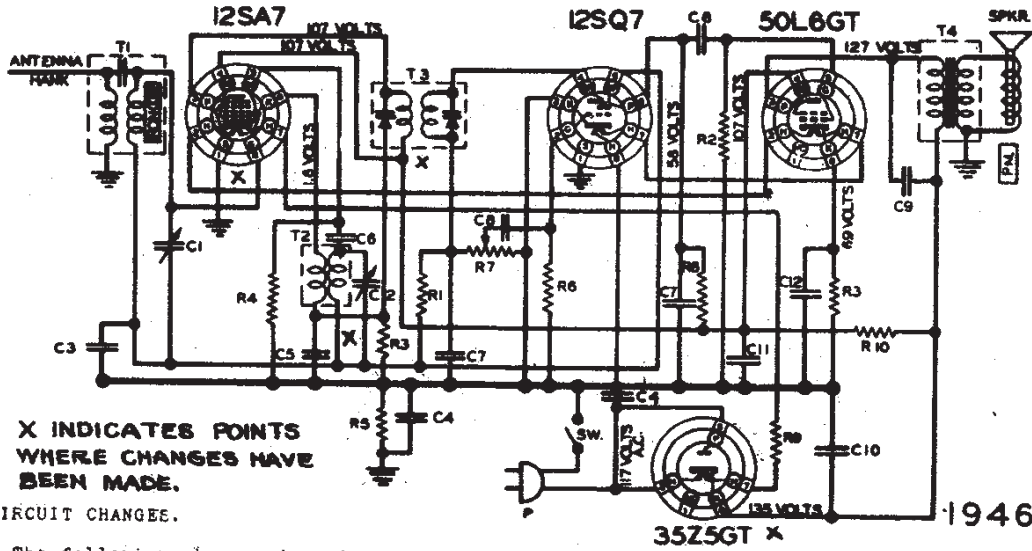


MODELS 444,444A  
Chassis RE-200

NOBLITT-SPARKS INDUSTRIES INC.



X INDICATES POINTS WHERE CHANGES HAVE BEEN MADE.

CIRCUIT CHANGES.

The following changes have been made in Chassis RE-200 since the start of production.

1. Connections to pins 2 & 7 have been interchanged on 12EA7 tube.
2. A 15 ohm resistor, R-11 has been added in B+ lead at Cathode of 35Z5GT tube.
3. .005 Condenser C-5 and 150 ohm Resistor R-3 have been deleted from oscillator circuit.
4. Tap has been added to Primary of IF transformer T-3 and trimmer connected directly across primary winding.

PRELIMINARY.

### ALIGNMENT PROCEDURE

Output meter connection	.....	Across loudspeaker voice coil
Output meter reading to indicate 200 milliwatts (standard output)	.....	0.8 volts
Dummy antenna to be in series with signal generator output	.....	See chart below
Connection of generator ground lead	.....	Floating ground
Generator modulation	.....	30% 400 cycles
Position of Volume Control	.....	Fully clockwise
Position of pointer with variable fully closed	.....	54 on dial

Position of Variable	Generator Frequency	Dummy Antenna	Generator Output Connection	Trimmers Adjusted	Trimmer Function	Approximate Sensitivity
Open	455 Kc	.05 uf	12SA7 Grid (Stator of C-1)	2 trimmers on top of T-3	IF	3000 uv
1400 Kc	1400 Kc	.00005 uf	Antenna lead	**C-2	Oscillator	360 uv

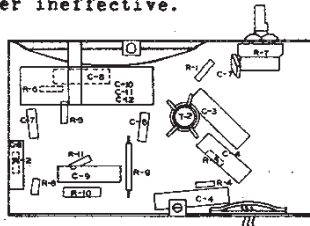
\*\*Since the antenna section of the variable has no trimmer, the rotor of the variable should be rocked back and forth on both sides of 1400 Kc while adjusting the oscillator trimmer for maximum output. This is to obtain the combination of rotor and trimmer setting to give perfect tracking of the two sections of the variable condenser and consequently give maximum output.

Check sensitivity at 600 Kc. If weak, adjust antenna section plates for maximum output at 600 Kc. Tracking of the condenser at points other than 1400 Kc is accomplished by bending the outside plates on the variable condenser rotor, which are cut for this purpose. When bending plates to track the condenser at any given frequency, keep in mind the fact that this will effect the tracking at all frequencies below that point. A tuning wand is very helpful in checking the tracking of this condenser, to indicate whether more or less capacity is needed.

The alignment procedure should be repeated stage by stage in the original order for greatest accuracy.

Always keep the output from the test oscillator at its lowest possible value to make the AVC action of the receiver ineffective.

LOCATION OF PARTS UNDER CHASSIS



TUBE LAYOUT

