

TABLE 1

TABLE FOR USE OF COILS IN 301 TRANSMITTER

OPERATING FREQUENCY KC.	CRYSTAL FREQUENCY KC.	POSITION #1 OSCILLATOR COIL SOCKET	POSITION #2 BUFFER COIL SOCKET	POSITION OF GREEN PLATE LEAD	POSITION OF YELLOW PLATE LEAD	GRID TANK UNIT	OUTPUT COIL UNIT
1715 to 2000	1715 to 2000	7000B-6	7000B-7 1700 KC.	On Insulated Post	On 802 Osc. Tube	131C-1A 1700 KC.	130BA-3
3500 to 4000	1750 to 2000	7000B-7 1700 KC.	7000B-4 3500 KC.	On 802 Osc. Tube	On 807 Buff. Tube	131C-11 3500 KC.	130BA-2
3500 to 4000	3500 to 4000	7000B-6	7000B-7 3500 KC.	On Insulated Post	On 802 Osc. Tube	131C-11 3500 KC.	130BA-2
7000 to 7300	3500 to 3650	7000B-7 3500 KC.	7000B-4 7000 KC.	On 802 Osc. Tube	On 807 Buff. Tube	131C-12 7000 KC.	130BA-1
14000 to 14400	3500 to 3600	7000B-7 7000 KC.	7000B-4 14000 KC.	On 802 Osc. Tube	On 807 Buff. Tube	131C-12 14000 KC.	130BA-1
28000 to 30000	3500 to 3750	7000B-4 7000 KC.	7000B-4 14000 KC.	On 802 Osc. Tube	On 807 Buff. Tube	131C-9 28000 KC.	130BC-2
56000 to 60000	4667 to 5000	7000B-4 10,000 KC.	7000B-4 20,000 KC.	On 802 Osc. Tube	On 807 Buff. Tube	131C-14 56,000 KC.	130BC-1

TABLE FOR USE OF COILS IN 30J TRANSMITTER

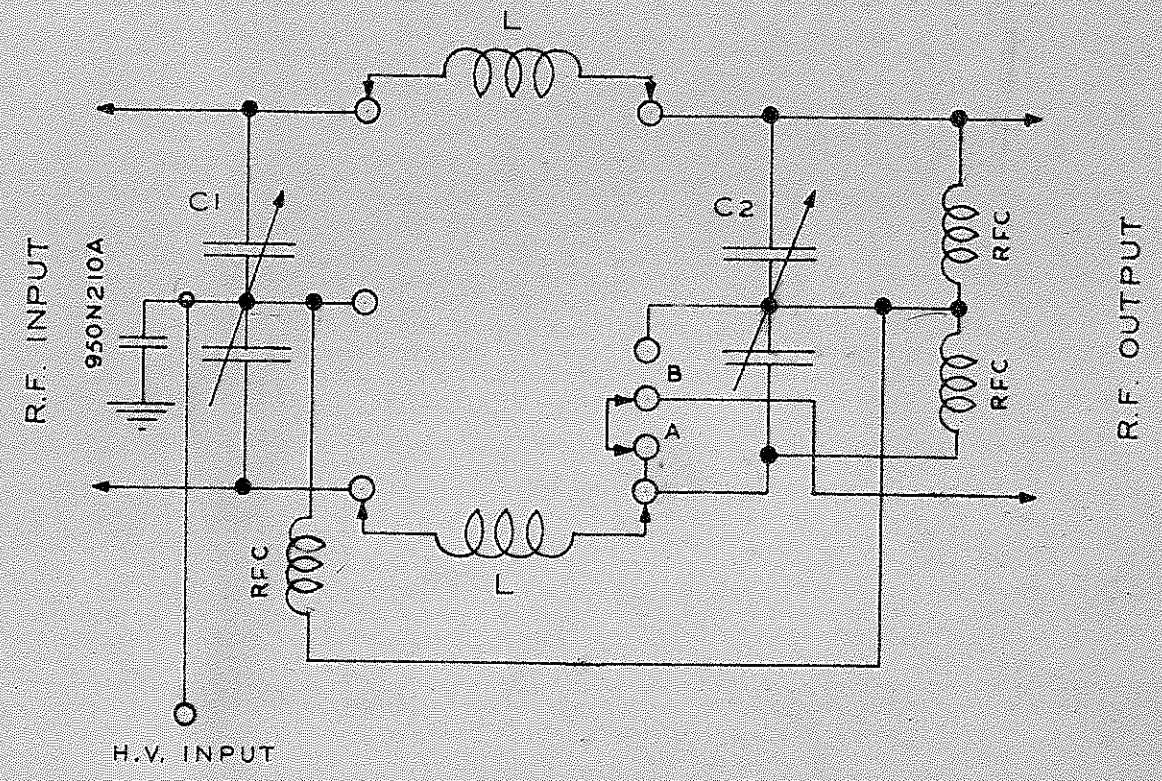
OPERATING FREQUENCY KC.	CRYSTAL FREQUENCY KC.	POSITION #1 OSCILLATOR COIL SOCKET	POSITION #2 BUFFER COIL SOCKET	POSITION OF GREEN PLATE LEAD	POSITION OF YELLOW PLATE LEAD	GRID TANK UNIT	OUTPUT COIL UNIT
1715 to 2000	1715 to 2000	7000B-8	7000B-7 1700 KC.	On Insulated Post	On 802 Osc. Tube	1310-11 1700 KC.	1308A-3
3500 to 4000	1750 to 2000	7000B-7 1700 KC.	7000B-4 3500 KC.	On 802 Osc. Tube	On 807 Buff. Tube	1310-11 3500 KC.	1308A-2
3500 to 4000	3500 to 4000	7000B-8	7000B-7 3500 KC.	On Insulated Post	On 802 Osc. Tube	1310-11 3500 KC.	1308A-2
7000 to 7300	3500 to 3650	7000B-7 3500 KC.	7000B-4 7000 KC.	On 802 Osc. Tube	On 807 Buff. Tube	1310-12 7000 KC.	1308A-1
14000 to 14400	3500 to 3600	7000B-7 7000KC.	7000B-4 14000 KC.	On 802 Osc. Tube	On 807 Buff. Tube	1310-12 14000 KC.	1308A-1
28000 to 30000	3500 to 3750	7000B-4 7000 KC.	7000B-4 14000 KC.	On 802 Osc. Tube	On 807 Buff. Tube	1310-9 28000 KC.	1308C-2
56000 to 60000	4667 to 5000	7000B-4 10,000 KC.	7000B-4 20,000KC.	On 802 Osc. Tube	On 807 Buff. Tube	1310-14 56,000 KC.	1308C-1

MAT. GRADE: COLLINS RADIO COMPANY
 CEDAR RAPIDS, IOWA
 DRAWING NO. 5067-2

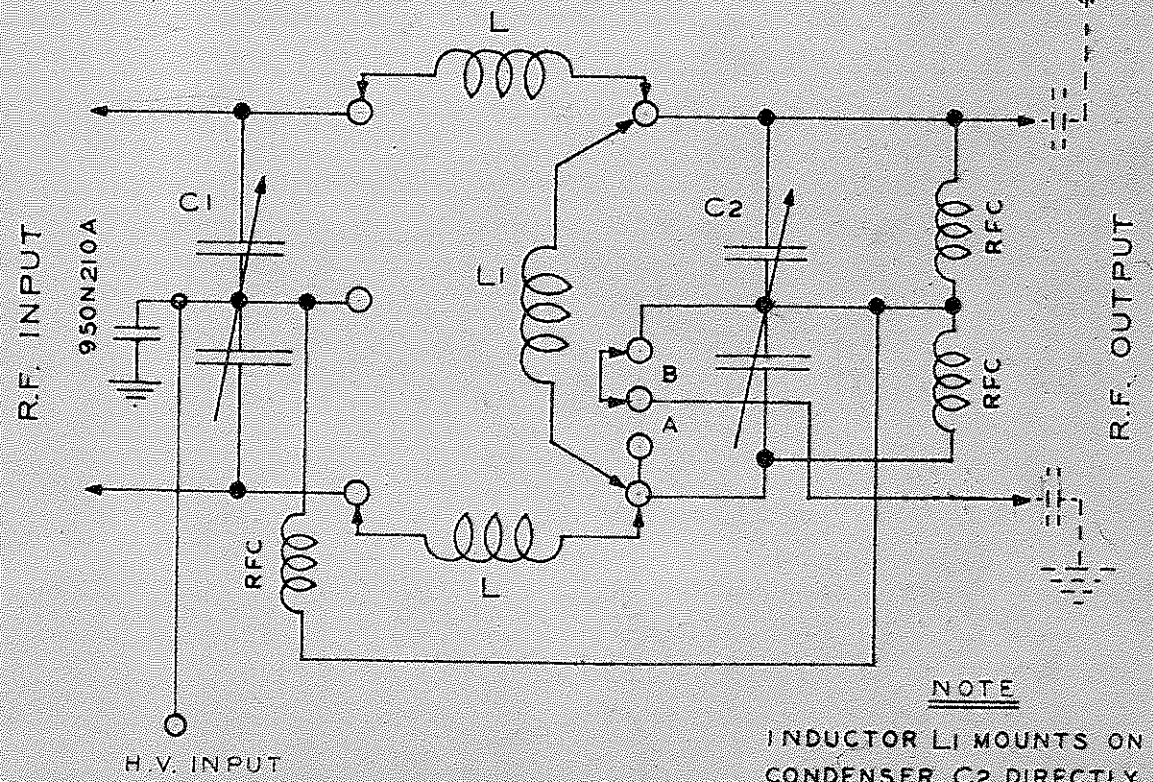
DRAWN BY: M. S. S. DATE: 5-10-1938
 TRACED BY: R. G. A. DATE: 5-18-1938
 CHECKED BY: DATE: 6-3-38

SCALE: UNIT: 122C SCHEMATIC DIAGRAM

NETWORK ARRANGED FOR BALANCED OUTPUT



NETWORK ARRANGED FOR UNBALANCED OUTPUT



NOTE
 INDUCTOR L1 MOUNTS ON
 CONDENSER C2 DIRECTLY.

TRANSMITTER METER READING RECORD

PH CW

Frequency/Power	240KC			
Oscillator				
Fil. Voltage				
Plate Voltage				
Plate Current				
1st Doubler/Amp.	80%	50%		
Fil. Voltage	61	61		
Bias Voltage	-70	-90		
Screen Voltage	200	200		
Plate Voltage	340	340		
Grid Current	.75	.75		
Plate Current Cathode	16	16		
2nd Doubler/Amp.				
Fil. Voltage				
Bias Voltage				
Screen Voltage				
Plate Voltage				
Grid Current				
Plate Current				
3rd Doubler/Amp.				
Fil. Voltage				
Bias Voltage				
Screen Voltage				
Plate Voltage				
Grid Current				
Plate Current				
4th Int/Amp.	2-907	2-807		
Fil. Voltage	63	63		
Bias Voltage	-140	-150		
Screen Voltage	120	150		
Plate Voltage	570	570		
Grid Current	.7	.7		
Plate Current Cathode	30	30		
Final Amplifier	2-813	2-813		
Fil. Voltage	10.0	10.0		
Plate Voltage	1200	1280		
CW Bias Voltage		-155		
Ph. Bias Voltage	-150			
Ph. Grid Voltage	360	360		
C.W. Grid Current		16		
Ph. Grid Current	16			
C.W. Plate Current		300		
Ph. Plate Current Total	385			
Ant. or Line Current	2.4	2.5		
Lead	300w lamp			
Power Output				
C.W.				

TRANSMITTER TUNING DATA

FREQUENCY/POWER	2170 KC	2170 KC		
Oscillator	802	802		
Condenser		—		
Coil		B-8		
Dial Reading				
Dial Reading <i>A</i>		—		
1st Doubler/Amp.				
Condenser				
Coil				
Dial Reading				
Dial Reading				
2nd Doubler/Amp.				
Condenser				
Coil				
Dial Reading				
Dial Reading				
3rd Doubler/Amp.				
Condenser				
Coil				
Dial Reading				
Dial Reading				
4th/Int. Amplifier	2-807	2-807		
Condenser		140-140		
Coil <i>GRID</i>		B7		
Dial Reading <i>B</i>		51		
Dial Reading <i>D</i>		75		
Final Amplifier	2-813	2-813		
Condenser <i>GRID</i>		140-140		
Coil <i>GRID</i>		131C-11		
Dial Reading <i>E</i>		49		
Dial Reading				
Antenna Network	Balanced	Unbalanced		
Coil <i>TURNS</i>		37-37		
Pos. <i>ANT</i>	<i>ANT</i>	<i>ANT</i>		
Padding Cond. Value		.001-.001		
Load		300W Load		
Dial Reading <i>Plate</i>		56		
Condenser <i>ANT</i>		72		.005 Blocking condensers
Inductor or Cond. <i>Phasing</i>		15 TURNS		