

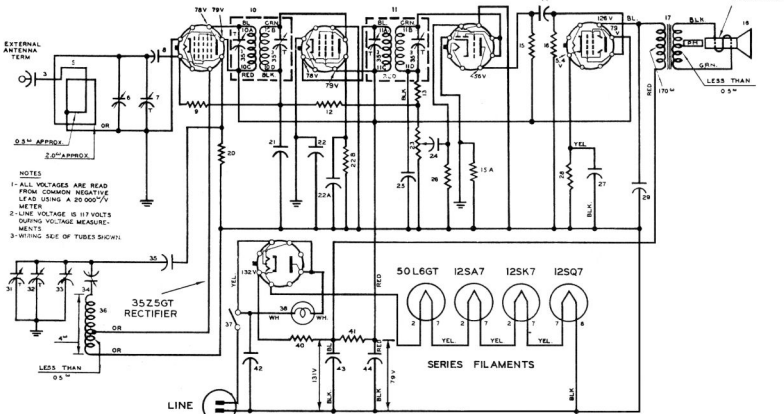
12 SA7  
CONVERTER

12 SK 7  
I-F AMPLIFIER

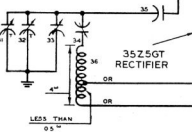
12 SQ7  
2ND DETECTOR AVC.  
& 1st A-F AMPLIFIER

50 L6GT  
OUTPUT AMPLIFIER

VOICE COIL  
IMPEDANCE 3.2 Ω



- NOTES
- 1- ALL VOLTAGES ARE READ FROM COMMON NEGATIVE LEAD USING A 20 000-V/V METER
  - 2- LINE VOLTAGE IS 117 VOLTS DURING VOLTAGE MEASUREMENTS
  - 3- WRITING SIZE OF TUBES SHOWN



## Northern Electric 5110

### ALIGNMENT

Alignment procedure should be carried out according to the following table and in the order shown.

Alignment Frequency	Dummy Antenna	Receiver Connection	Items to be adjusted for maximum output and their location.
L.F. 455 KC	.1 Mfd (Paper)	Antenna Section Gang	L.F. Trimmers, items 10A, 10B, 11A and 11B, on I.F. Transformers (tuning gang open)
B.C. 1400 KC	100 Mmf (Mica)	Antenna Terminal	(a) Oscillator trimmers on gang 31 and 32. (b) Antenna trimmer on gang 7.
B.C. 600 KC	100 Mmf (Mica)	Antenna Terminal	Oscillator lag trimmer 34. Recheck at 1400 KC

Item	Description	Quantity
3	Capacitor, Paper, .003 Mfd 600 V.	21
5	Loop Antenna Assembly	22
6	Capacitor, Gang, Antenna Section, 420 Mmf.	22A
7	Capacitor, Trimmer, 1.5-20 Mmf.	22B
8	Capacitor, Mica, 1,000 Mmf 300 V.	23
9	Resistor, 1.0 Meg, ½ W.	24
10	Transformer, 1st I.F.	25
10A	Capacitor, Trimmer, 20-150 Mmf.	26
10B	Capacitor, Trimmer, 20-150 Mmf.	27
10C & D	Coil, 1st I.F.	28
11	Transformer, 2nd I.F.	29
11A	Capacitor, Trimmer, 20-150 Mmf.	30
11B	Capacitor, Trimmer, 20-150 Mmf.	31
11C & D	Coil, 2nd I.F.	32
12	Resistor, 2.2 Meg, ½ W.	33
13	Resistor, 47,000 Ohm, ½ W.	34
14	Capacitor, Paper, .01 Mfd 600 V.	35
15	Resistor, 22 Meg ½ W.	36
15A	Resistor, 22 Meg ½ W.	37
16	Resistor, .47 Meg ½ W.	38
17	Transformer, Output	39
18	Loudspeaker	40
20	Resistor, 22,000 Ohm ½ W.	41
21	Capacitor, Paper, .05 Mfd 400 V.	42
22	Capacitor, Paper, 0.2 Mfd 200 V.	43
22A	Capacitor, Paper, .05 Mfd 400 V.	44
22B	Resistor, 270 Ohm ½ W.	
23	Volume Control, .5 Meg.	
24	Capacitor, Paper, .01 Mfd 600 V.	
25	Capacitor, Mica, 390 Mmf 500 V.	
26	Resistor, 10 Meg ½ W.	
27	Capacitor, Electrolytic, 20 Mfd 25V.	
28	Resistor, 150 Ohm 1 W.	
29	Capacitor, .02 Mfd 600 V.	
30	Capacitor, Trimmer, 1.5-20 Mmf.	
31	Capacitor, Trimmer, 1.5-20 Mmf.	
32	Capacitor, Trimmer, 1.5-20 Mmf.	
33	Capacitor, Gang, Oscillator Section, 420 Mmf.	
34	Capacitor, Trimmer, 225-750 Mmf.	
35	Capacitor, Mica, 51 Mmf 500 V.	
36	Coil, Oscillator	
37	Switch, ON-OFF	
38	Lamp, Dial, 6.3 Volts, 250 ma.	
39	Resistor, 33 Ohm ½ W.	
40	Resistor, 2,700 Ohms, 1 W.	
41	Capacitor, Paper, .025 Mfd 600 V.	
42	Capacitor, Electrolytic, 40 Mfd, 150 V.	
43	Capacitor, Electrolytic, 40 Mfd, 150 V.	
44	Capacitor, Electrolytic, 40 Mfd 150 V.	

