



- NOTES.**
- 1 - ITEM 40 MUST BE CONNECTED IN SERIES WITH 'A' BATTERY WHEN A 2 VOLT STORAGE BATTERY IS USED.
 - 2 - WIRING SIDE OF TUBES SHOWN.
 - 3 - VOLTAGES MEASURED WITH D.C.V.T. VOLTMETER.

Northern Electric B4000



Item	Description		
1	Capacitor Gang, Antenna section 420 mmfd.,	26	Capacitor, Mica 100 mmfd., 800 volts
2	Capacitor Gang, Oscillator section 420 mmfd.,	27	Control, Volume (with switch), .5 meg.
3,4,5	Capacitor, Trimmer on gang 1.5 - 20 mmfd.	28,29	Switch, battery,
6	Capacitor trimmer RL3472 trimmer and bracket assembly 300-625 mmfd	30	Resistor 10 meg. 1/2 watt
7	Capacitor Paper, .002 mfd. 400 volt	31	Capacitor, Mica 100 mmfd., 800 volts
8	Resistor 10,000 ohms 1/2 watt	32	Resistor, 1 meg. 1/2 watt
9	Resistor .22 meg. 1/2 watt	33	Capacitor, Paper .01 mfd. 200 volts
10	Resistor 68,000 ohms 1/2 watt	34	Resistor 2.2 meg. 1/2 watt
11	Capacitor, Paper .1 mfd., 200 volts	35	Capacitor, Paper .005 mfd 400 volt
12,13	Capacitor Trimmer, 1st I.F. 20-150 mmfd.	36	Capacitor, Electrolytic 16 mfd., 150 volt
14,15	Colls, 1st I.F.	37	Transformer, Output
16	Transformer, 1st I.F. Complete	38	Loudspeaker, 5" P.M.
17	Resistor 2.2 meg 1/2 watt	39	Resistor, 820 ohms. 1/2 watt
18,19	Capacitor Trimmer, 2nd I.F. 20-150 mmfd	40	Resistor, 3.5 ohms 1/2 watt
20,21	Colls, 2nd I.F.	41	Capacitor, Paper .05 mfd. 200 volts
22	Transformer, 2nd I.F. Complete	42	Coil, Antenna Secondary
23	Resistor 47000 ohms 1/2 W	43	Coil, Antenna Primary
24	Capacitor, Mica 100 mmfd., 800 volts	44	Coil, Antenna Complete
25	Capacitor, Paper .01 mfd, 200 volts	45	Coil, Oscillator Plate
		46	Coil, Oscillator Grid
		47	Coil, Oscillator Complete
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REALIGNING DETAILS

I.F. Alignment

Rotate the gang condenser to the position of minimum capacity. Connect the signal generator ground lead to the chassis and the signal generator "Hot" lead, through a 0.1 mfd. capacitor, to the grid cap on the 1A7GT tube.

Set the signal generator to 455 KC. using 30% modulation at 400 c.p.s. and adjust the I.F. trimmer capacitors until maximum output is obtained.

R.F. Alignment

With the signal generator ground lead still connected to the chassis, connect the signal generator "Hot" lead to the antenna terminal of the receiver through a 100 mmf. capacitor.

Set the receiver tuning gang and signal generator to 1400 KC. adjust the oscillator gang trimmer, then the antenna gang trimmer for maximum output.

Set the receiver tuning gang and signal generator to 600 KC. Adjust the oscillator padder, item 6, for maximum output while rocking the gang. Reset the dial indicator to 600 KC. on the dial if necessary.

For maximum sensitivity the R.F. alignment should be repeated.