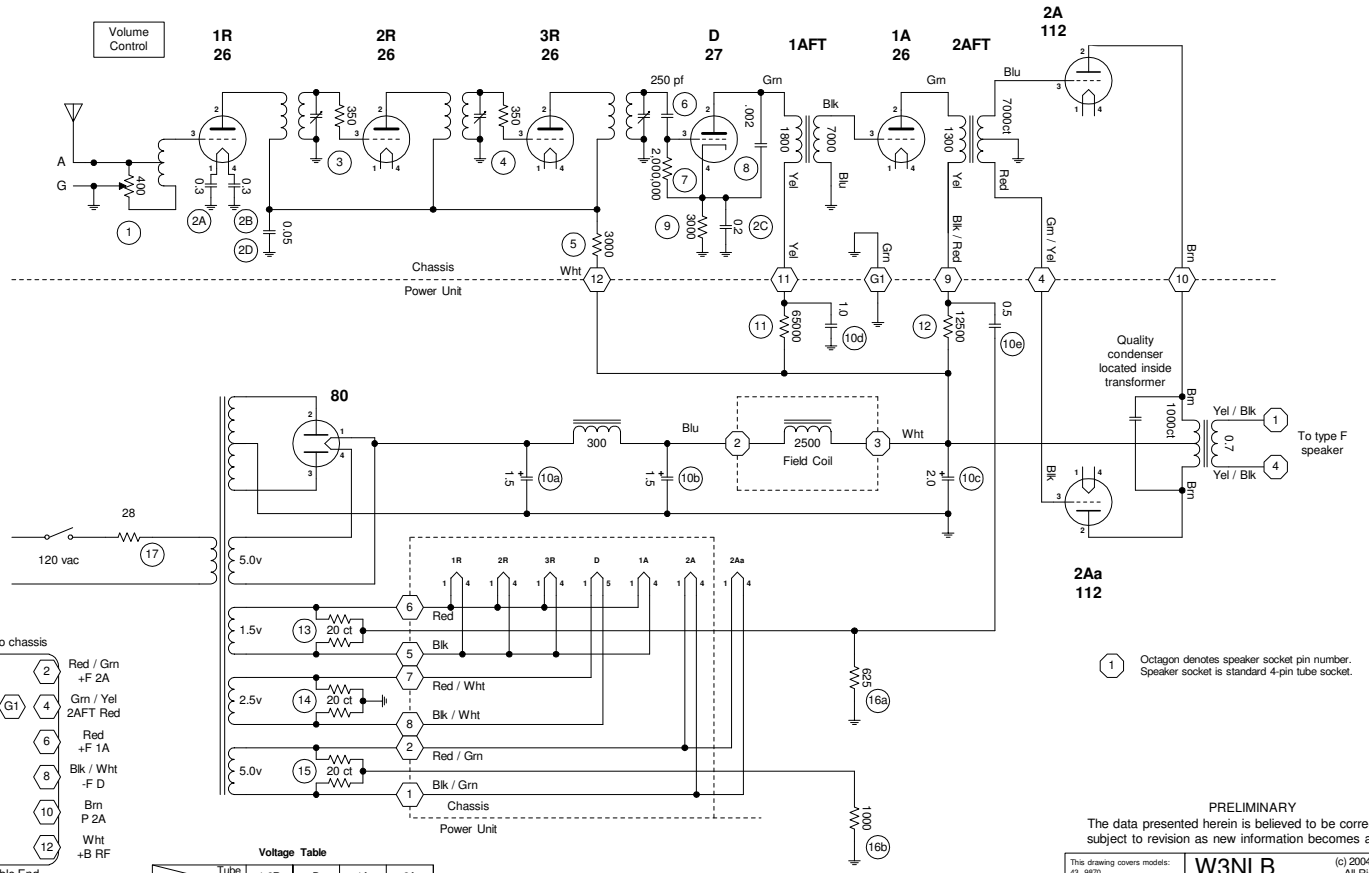
REF	PART NO.	VALUE	DESCRIPTION
1	13604	400	Volume control
2A	15158	0.3 / 200v	RF filament bypass
2B	15158	0.3 / 200v	RF filament bypass
2C	15158	0.2 / 400v	Detector cathode bypass
2D	15158	0.05 / 400v	RF B+ bypass
3	8439	350	2R grid resistor
4	8439	350	3R grid resistor
5	13369	3000	RF plate circuit resistor
6	8112	250 pfd / 500v	Det. grid condenser
7	15892	2 Meg	Det. grid leak
8	9598	0.002 / 500v	Phone condenser
9	13369	3000	Detector cathode resistor
The following components are located in the Power Unit			
10a	14743	1.5 / 450v[4]	Filter condenser #1
10b	14743	1.5 / 450v[3]	Filter condenser #2
10c	14743	2.0 / 450v[4]	Filter condenser #3
10d	14743	1.0 / 350v[4]	Detector filter condenser
10e	14743	0.5 / 350v[4]	1st AF bypass condenser
11	15592	65,000	Detector plate resistor
12	15941	12,500	1st AF plate resistor
13	9434	20 ct	RF-1st AF filament shunt resistor
14	9434	20 ct	Detector filament shunt resistor
15	9434	20 ct	2nd AF filament shunt resistor
16a	14427	625	RF-1st AF bias
16b	14427	1000	2nd AF bias
17	13645	28	Line voltage regulator

Notes
1 - Removable condenser block.



Voltage Table

Element \ Tube	1-3R	D	1A	2A
Plate	160	45	155	180
Grid	-13		-4.8	-15

All voltages measured from tube -F with volume at maximum. Taken with 1000 ohm-per-volt meter at 120 volt line. Reduce by 9% for 110 volt line.

NOTE
This schematic is 11 x 21 inches. The PDF file should print legibly on 8½ x 11 or 8½ x 14 paper.

PRELIMINARY
The data presented herein is believed to be correct, but is subject to revision as new information becomes available.

REV	DATE	DESCRIPTION
A	30 NOV 2010	Revised voltage table Changed output tubes to type 112
O	23 NOV 2010	Original
REVISIONS		

This drawing covers models: 43 9870

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W3NLB

Atwater Kent Model 43 9870
Schematic Diagram

Drawn by: Leigh Bassett W3NLB
Date: 30 NOV 2010
Size: B
FSCM NO:
DWG NO: AK09870SCH
REV: A
SCALE:
SHEET: 1 OF 1