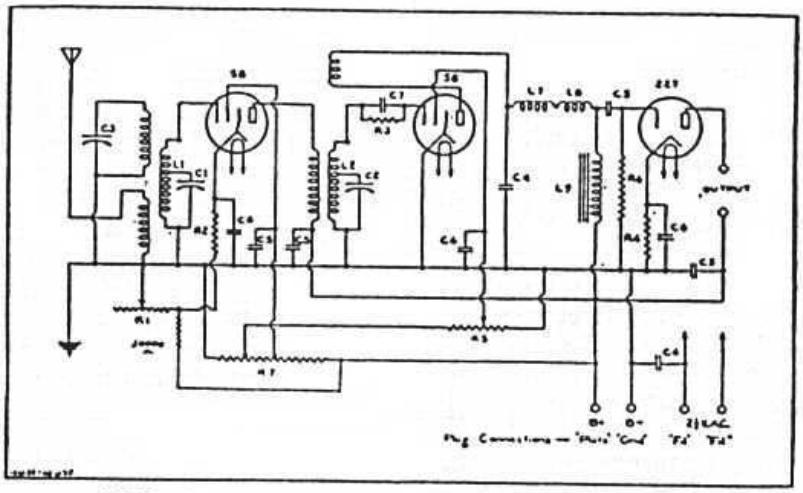
2V DCSW-3 Receiver

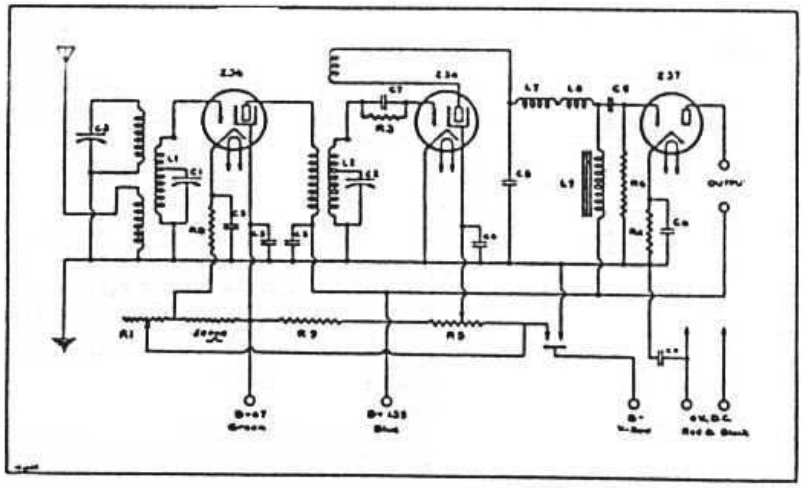
Dwg. No. 7 shows the circuit diagram and parts list. Two-type 32 tubes are used as R.F. amplifier and detector, one type 30 as audio. Filament circuits require .16 amps., 2 volts DC; "B" circuits, 67 and 135 volts; and bias circuits, 3 volts. "10-12" series coils are used.

ACSW-3 PARTS LIST

C_1 — *Dual variable air capacitor, 90 mmf. per section.*
C_2 — *Part of C_1, ganged.*
C_3 — *Variable air capacitor, 50 mmf.*
C_4 — *.00025-mfd. mica capacitor.*
C_5 — *.01-mfd. mica capacitor.*
C_6 — *.5-mfd., 200-volt paper capacitor.*
C_7 — *.0001-mfd. mica capacitor.*
L_1 — *R.F. amplifier transformer.*
L_2 — *Detector transformer.*
L_7 — *2.5-m.h. R.F. choke.*
L_8 — *5.5-m.h. R.F. choke.*
L_9 — *700-henry choke — part of coupler.*
R_1 — *10,000-ohm rheostat.*
R_2 — *300-ohm, ½-watt resistor.*
R_3 — *5-megohm, 1-watt resistor.*
R_4 — *2000-ohm, 1-watt resistor.*
R_5 — *50,000-ohm potentiometer.*
R_6 — *.25-megohm, ½-watt resistor — part of coupler.*
R_7 — *12,000-ohm voltage divider resistor — 3100, 2000, 6900-ohm sections.*



DWG. NO. 5 — CIRCUIT DIAGRAM OF THE ACSW-3

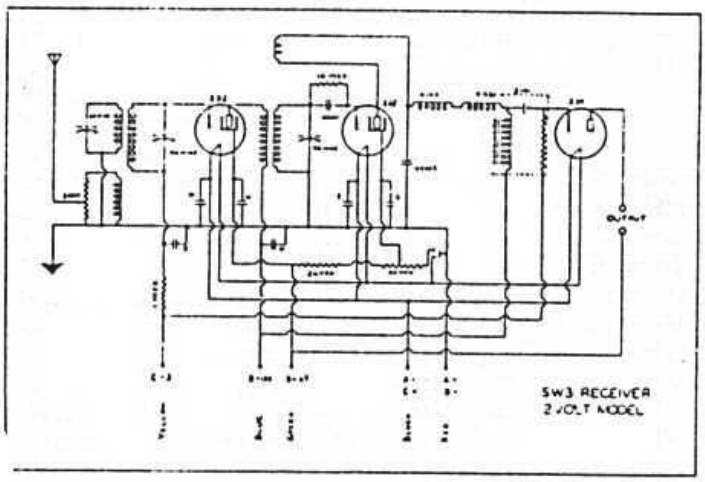


DWG. NO. 6 — CIRCUIT DIAGRAM OF THE 6V DCSW-3

6V DCSW-3 PARTS LIST

The circuit diagram shows types 36 and 37 tubes in place for 6-volt DC operation. By simply substituting type 35 for type 36 and type 27 for type 37, the receiver may be converted to 2.5-volt AC operation, without circuit or coil changes. Circuit constants are identical with those applying to DWG. No. 5 with the following exceptions:
R_8 — 350-ohm, ½-watt resistor.
R_9 — 20,000-ohm, 2-watt resistor.

DWG. No. 7 shows the circuit and the values of component parts of the 2V DCSW-3 Receiver. This model was the preferred type for portable operation with low battery power consumption before the introduction of the Universal Model, using 1.4-volt tubes.



DWG. NO. 7 — CIRCUIT DIAGRAM OF THE 2V DCSW-3 .