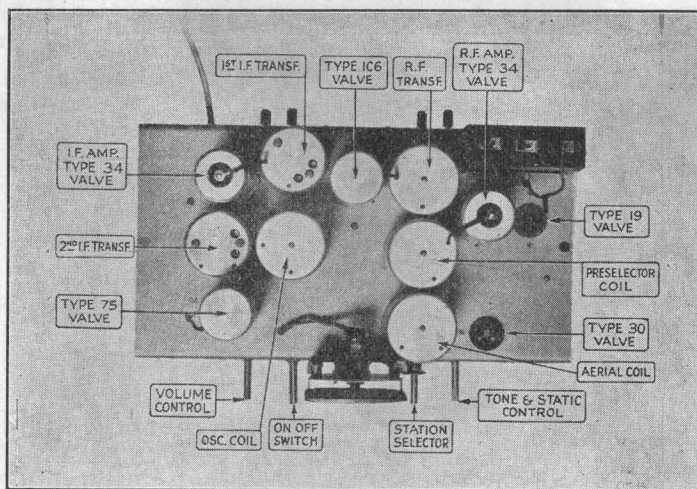


SERVICE DATA FOR HEALING RADIO

RECEIVER MODEL 65B

SUPER-HETERODYNE WITH A.V.C.



VALVES:—

- | | |
|--------------------------|---------------------------------------|
| 34 R.F. Amplifier | 1C6 Pentagrid Converter |
| 34 I.F. Amplifier | 75 Diode Demodulator & A.F. Amplifier |
| 30 First Audio Amplifier | 19 Class B Power Output |

PILOT LAMP:—

6.3 V. .1 Amp.

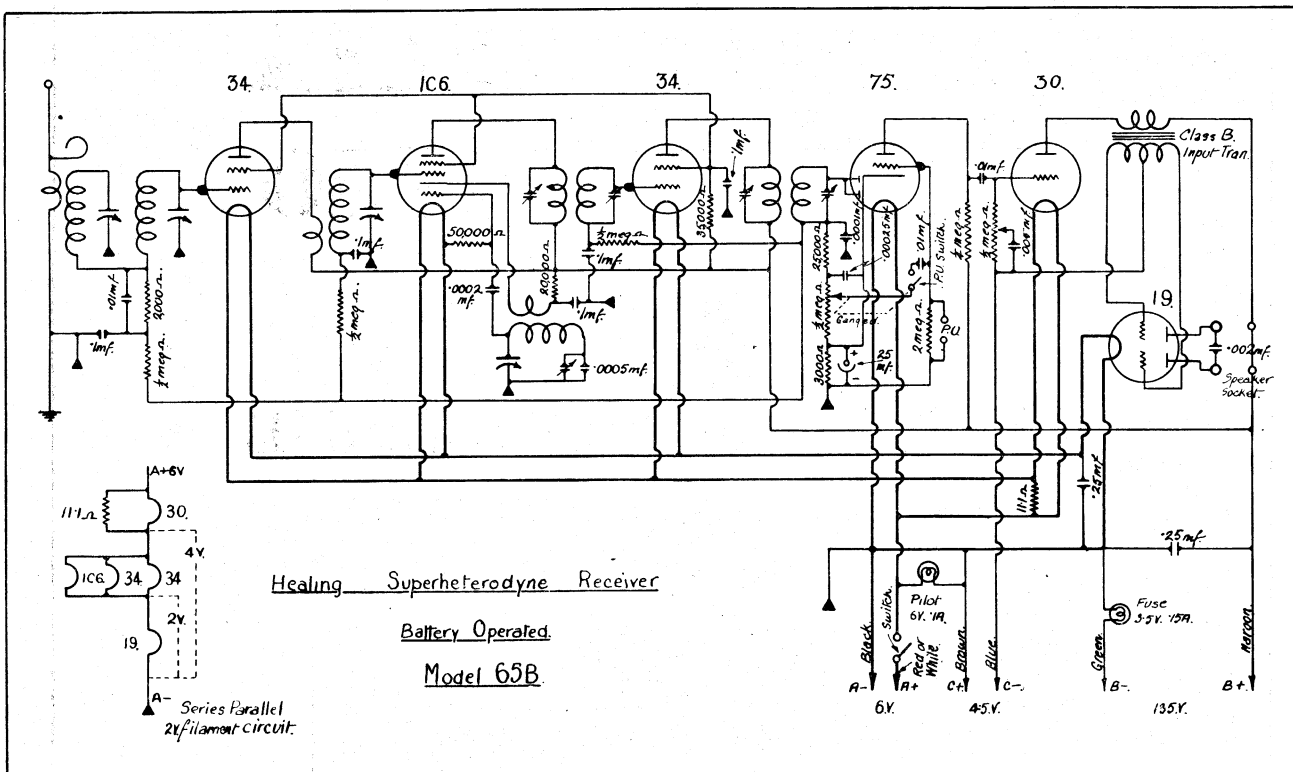
FUSE:—

3.5 V. .15 Amp.

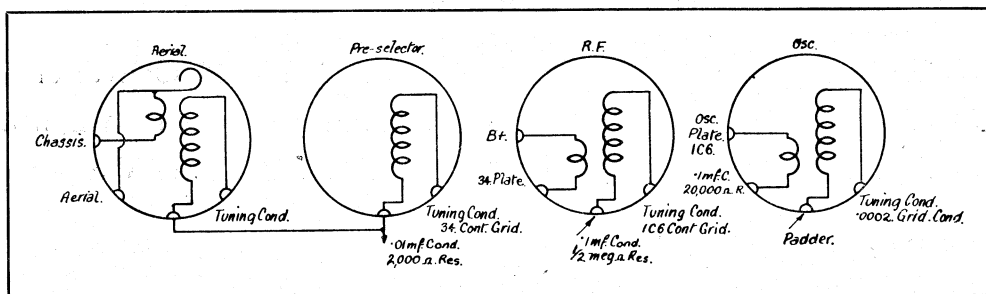
Miniature Lamps

HEALING

Service Data for Receiver Model 65B



Circuit Diagram of Model 65B.



Coil Winding Connections Viewed from Inside of Chassis.

HEALING

Service Data for Receiver Model 65B

POWER SUPPLY.

6 Volt "A" Battery.
 135 Volt "B" Battery.
 4½ Volt "C" Battery.

BATTERY CONNECTION COLOUR SCHEME.

A+	Red or White.	B+135V	Maroon.
A—	Black.	C+	Brown.
B—	Green.	C—4.5V	Blue.

For battery connection procedure see instructions for Model 65B.

"A" BATTERY CURRENT.

.54 amps. + .1 amp. for pilot light.

"B" BATTERY CURRENT.

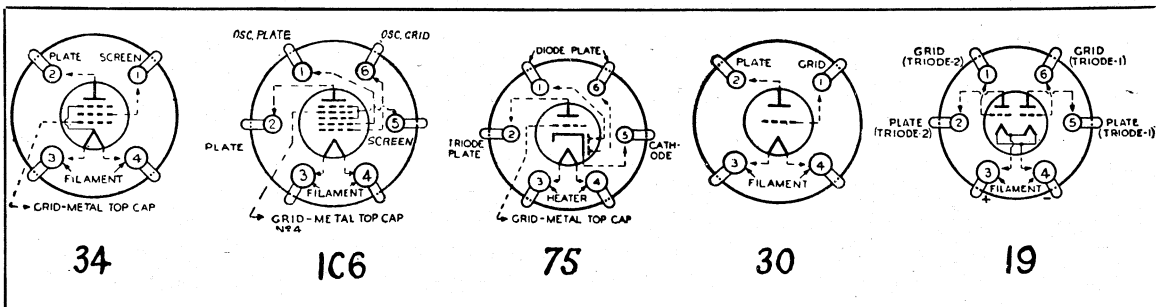
12.5 M.A. no signal.

VALVES.

Make sure the valves are in good condition, of the correct type, and are properly fitted into the correct sockets before operation.

CAUTION.

Do not remove any valves from sockets while the "A" Battery circuit is switched on, as some of the remaining valves will be slightly overloaded.



Valve Connections Viewed from Bottom of Socket.

VALVE VOLTAGES.

Valves.	Filament.	Cathode.	Screen.	Plate.	Osc. Plate
34 R.F.	2 (A)	} See Note	50 (C)	135 (C)	85 (C)
1C6	2 (A)		50 (C)	135 (C)	
34 I.F.	2 (A)		50 (C)	135 (C)	
75	6 (A)	.5 (A)		55 (C)	
30	2 (A)	} See Note		130 (C)	
19	2 (A)			133 (C)	each plate

Voltages shown measured with aerial disconnected and receiver off station.

HEALING

Service Data for Receiver Model 65B

NOTE.

The 2-volt valves are arranged in a series parallel filament circuit (see circuit diagram), and the control grid limiting voltages are those existing between the chassis and the negative pins of the following valves:—

1C6 negative filament pin 2V above chassis.

34 R.F. negative filament pin 2V above chassis.

34 I.F. negative filament pin 2V above chassis.

In the case of the 30 1st audio amp. the bias is 8.5 volts, 4.5 of which is supplied by the "C" Battery, and the remaining 4 V. appearing between the negative filament pin and the chassis.

As the 19 valve has its negative pin connected to the chassis, its bias voltage is that of the "C" Battery (4.5V.).

All the voltages given above are those indicated when using a 1000 ohm per volt meter.

Scales: 0—10 (A)—50 (B)—250 (C)—750 (D) volts.

Meters of different resistance will not indicate similar readings at the points measured.

SPEAKER.

The magnetic-dynamic speaker is matched to the power valve, and the input to the transformer is connected as follows:—

The centre tap to the plate and grid pins, and the two outers to the two filament pins of the four-pin plug.

Make sure the plug is connected to the receiver before operation.

OPERATION.

See model 65B operating instructions under "Tuning."

LINING.

The I.F. is 175 K.C.

The tuning condenser trimmers from the control end are:—

Aerial trimmer.

Pre-selector trimmer.

Oscillator trimmer.

R.F. trimmer.

See "General Service Notes" for lining method.

DIAL.

See "General Service Notes."

Read carefully the instructions for installation and operation of the Model 65B.

POSSIBLE FAULTS.

See "General Service Notes."