

November 1936



Note No. 16

LIGHT GUN FACTORY, ERITH, KENT

SERVICE NOTES

Model C.N. 251

BATTERY "ALL WAVE" BANDPASS RECEIVER.

To examine the underside of the chassis, remove sub-base of the cabinet. Instructions for removing the chassis from the cabinet are given on the label affixed to the inside of all cabinets.

Wavebands :—13·5—48·5, 48—145, 190—550 and 800—2100 metres.

GANGING—Set the tuning pointer to coincide with both the top and bottom ends of the scale.

Unscrew the anode trimmer (under chassis, behind the HL2 valveholder) and the G and A trimmers (on the gang Condenser) to minimum. The reaction condenser must also be turned right off. Turn the pointer to 250 metres and inject a strong 250 metre signal via the A and E terminals. Adjust A trimmer on gang condenser (nearest back of chassis) for maximum volume.

Then without touching the main tuning control, adjust the anode trimmer for maximum output, with the reaction condenser advanced as far as possible without reaction actually taking place, at the same time reducing the input from the signal generator as the set comes into gang.

Finally adjust the grid trimmer (centre one on gang condenser) for maximum volume.

Calibration should then be found correct on all wavebands.

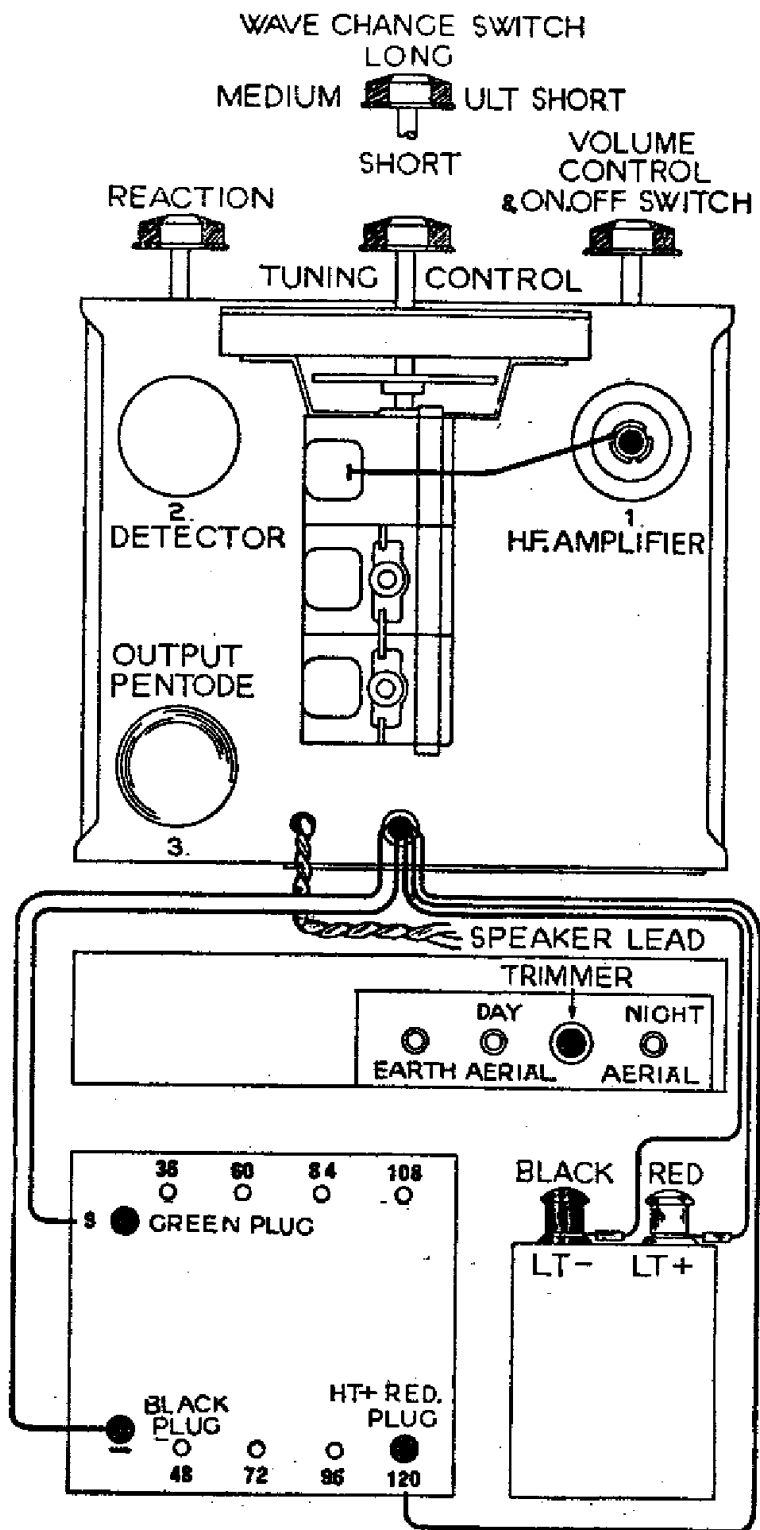
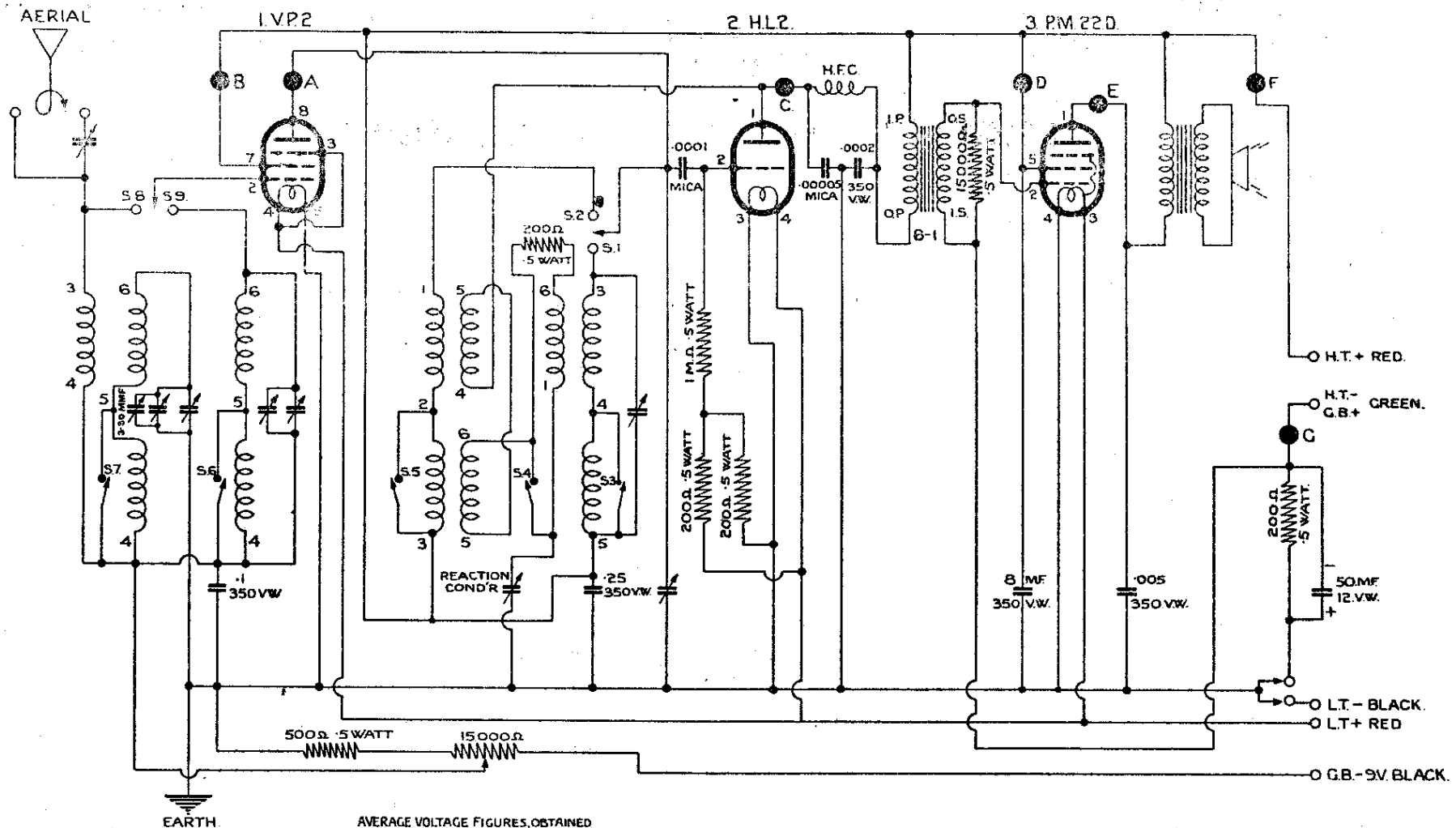


Fig. 1.

Top View of Chassis and Connections.

CIRCUIT DIAGRAM OF MODEL CN 251



VALVE.	VP2	HL2	PM22D
REF. N ^o .	1	2	3
METALLISING.	1		
HEATER.	4	3	3
HEATER.	5	4	4
SCREEN GRID.	7		5
SUPPRESSOR GRID.	3		
CONTROL GRID.	2	2	2
ANODE.	8 T.C.	1	1

AVERAGE VOLTAGE FIGURES, OBTAINED WITH UNIVERSAL AVOMETER BETWEEN POINT INDICATED & EARTH UNDER "NO SIGNAL" CONDITIONS WHEN USING 120V. BATTERY INCORPORATING G.B.

	VOLTS	CURRENT M/A
A	109	1.5
B	109	.5
C	105	3
D	109	.5
E	105	4.5
F	109	10
G	-2	10.

X = CONTACTS CLOSED.

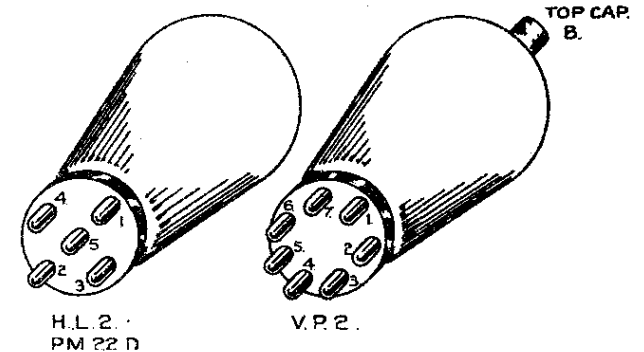
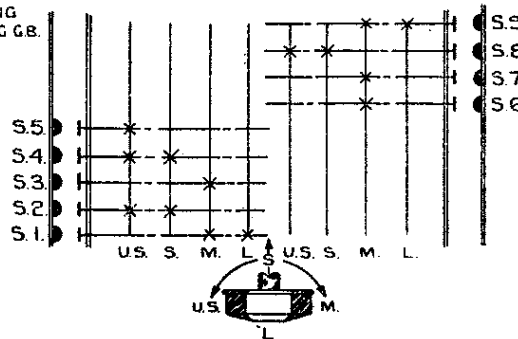


Fig. 2

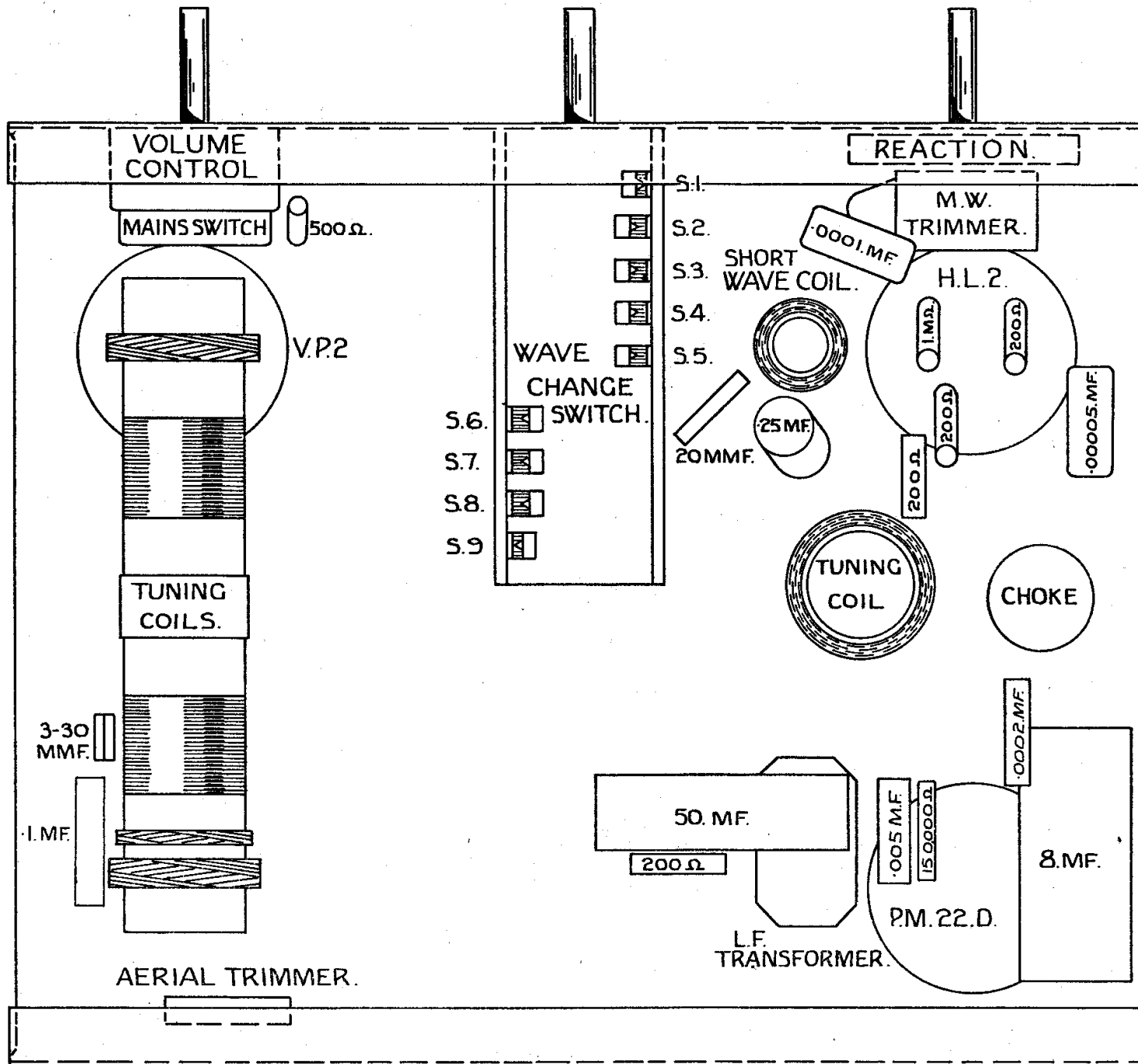


Fig. 3. Underside View of Chassis.