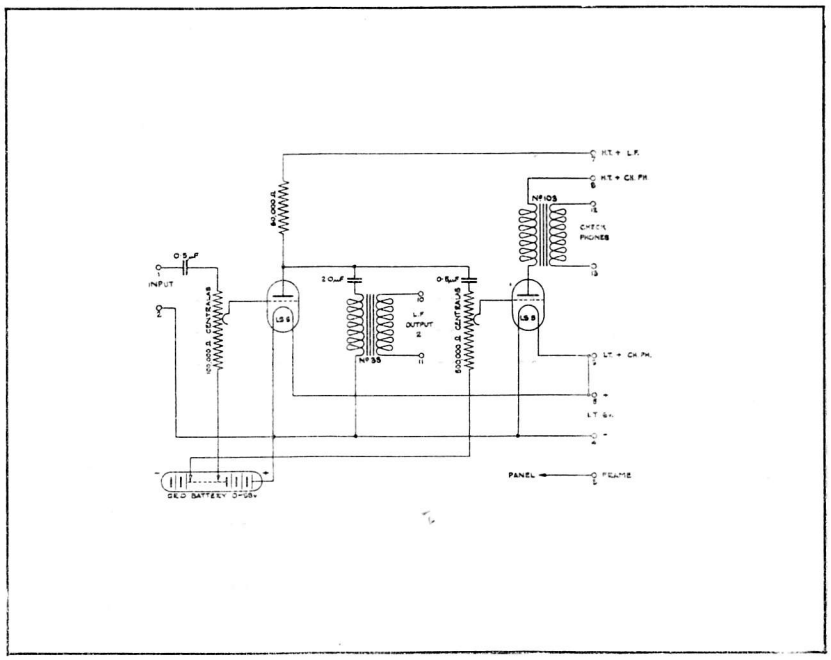
AMPLIFIER LFT/2



Drawing A.858, Issue 2.

Function—This amplifier is used at **N.R.T.** and is connected in the output of the check receiver. It has two output circuits, one connected to the checkphone circuits, and the other connected via switching to the inputs of the **LCT/1** and **LST/1** amplifiers for comprehensive checking purposes.

Circuit—This is a two-stage amplifier having a high impedance input circuit which is resistance-capacity coupled to the output of the check receiver. The L.F. output is taken from the first stage and the checkphone output from the second stage. The first stage is resistance-capacity coupled to the L.F. output transformer and also to the grid circuit of the second valve, the output of which is transformer coupled to the checkphone and loudspeaker amplifier input circuits. Individual volume controls are provided for each stage.

Impedances

Input impedance	100,000 ohms.
CH. Output impedance	500 ohms.
L.F. Output impedance	100 ohms.

Transformers

	Number	*Impedance Ratio*	*Turns Ratio*
CH. Output	103	12/1	3.46/1
L.F. Output	33	60/1	7.75/1

Volume Control

Continuously variable potentiometer of resistance 100,000 ohms.

Supply Data

Stage	*Valve*	*Grid Bias* Volts	*Anode Feed* mA. (approx.)	*Filament* Volts	Amps
1	LS.5	4.5	3	6	0.8
2	LS.5	24.0	18	6	0.8
	Total		21		1.6

High Tension Supply .. .. 300 volts.
Low Tension Supply .. .. 6 volts.
Grid Bias Supply .. .. 33 volts. (Dry battery.)

Test Data

Maximum Voltage Gain at 500 c/s.
CH. Output (loaded with 2,000 ohms and at a level of +5 db.) .. .. 13 ±2db.
L.F. Output (loaded with 600 ohms and at a level of 0 db.) .. .. −6 ±2 db.