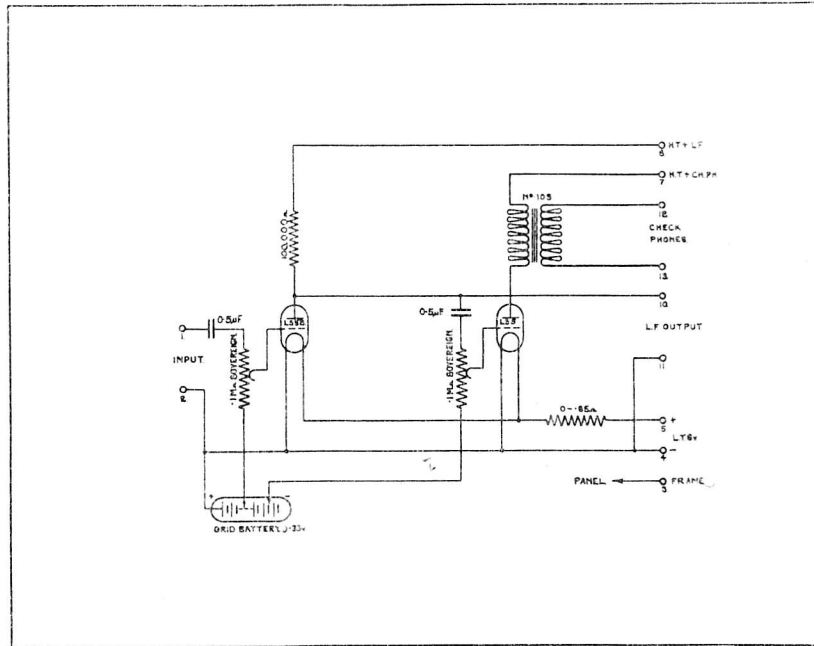


AMPLIFIER LFT/3



Drawing A. 1601, Issue 1.

Function—This amplifier is used at **S.R.T.** and **W.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 input of the **LCT/2** and **LST/2** amplifiers for comprehensive checking purposes.

Circuit—It is a two-stage amplifier having a high impedance input circuit resistance-capacity coupled to the output of the check receiver. The two stages are resistance-capacity coupled and the L.F. output is provided by the first stage, the second stage is transformer coupled to the checkphone output.

Impedances

Input impedance	..	..	..	..	..	..	..	..	100,000 ohms.
CH Output impedance	..	..	..	..	..	..	..	..	500 ohms.
L.F. Output impedance	..	..	..	..	..	..	..	..	11,000 ohms.

Transformers

	<i>Number</i>	<i>Impedance Ratio</i>	<i>Turns Ratio</i>
CH Output	103	12/1	3.46/1

AMPLIFIER LFT/3

Technical Instructions

Item 3 (LFT/3). March, 1935

Volume Control

Continuously variable potentiometer of resistance 100,000 ohms.

Supply Data

Stage	Valve	Grid Bias		Anode Feed		Filament	
		Volts		mA. (approx.)	Volts	Amps	
1	LS.5B	3		1.5	5	0.75	
2	LS.5	24		18	5	0.75	
	<i>Total</i>			19.5		1.5	
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 0 db.)	.. ..	..	..	..	23 ±2 db.
L.F. Output (loaded with 100,000 ohms and at a level of 0 db.)	.. ..	..	..	..	21 ±2 db.