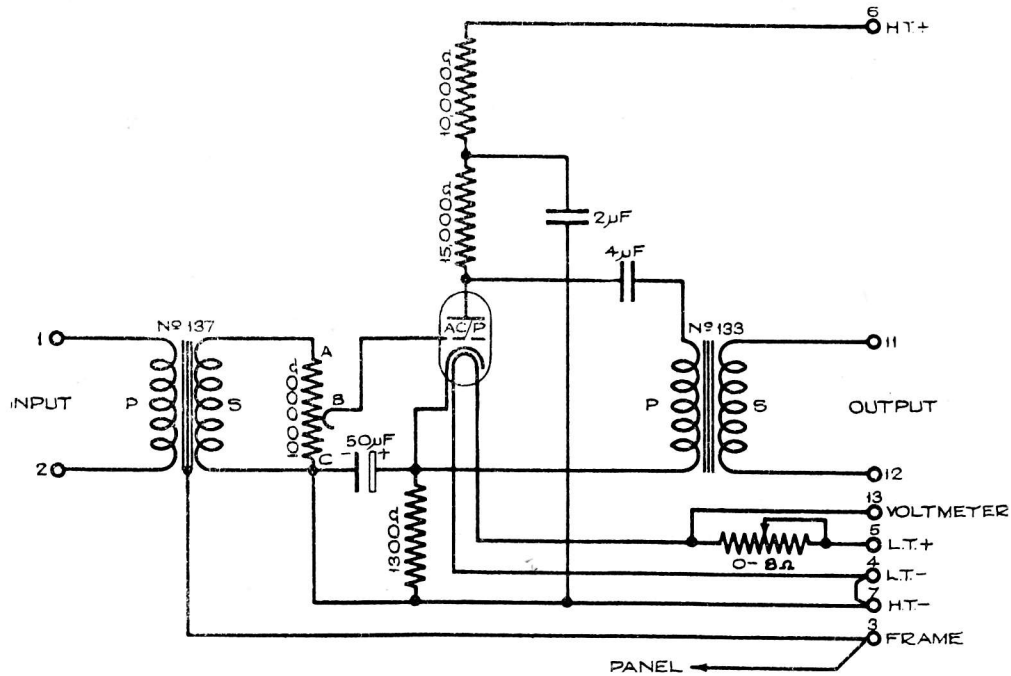


TRAP VALVE AMPLIFIER TV/10



Drawing A.3018, Issue 3

This amplifier is used in the disc recording rooms at **Maida Vale** for monitoring programme incoming from the Control Room. Its input is connected in parallel with that of the D.R. amplifier and its output is wired, via key switching, to the phone jacks on the recording position.

Circuit

It consists of a single-stage amplifier with a screened input transformer and volume control, the output of which is resistance-capacity coupled to the output transformer. The grid bias is automatic.

Impedances

Input impedance	.. .. .	(approx) 26,000 ohms
Output impedance	.. .. .	(approx) 550 ohms
Normal load impedance (Ericsson headphones at 1,000 c/s)	.. .. .	18,000 ohms

Transformers

		Number	Impedance Ratio	Turns Ratio
Input	137	1/4	1/2
Output	133	12.1/1	3.47/1

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Technical Instructions

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Volume Control

Continuously variable potentiometer of resistance approximately 100,000 ohms.

Supply Data

Valve	Automatic Grid Bias		Anode Current		Filaments	
	Volts negative		mA (approx)		Volts	Amps
ACP	8.5		6.5		4	1
High Tension Supply	..	..	..	..	(approx) 300 volts	
Low Tension Supply	..	..	..	..	(approx) 6 volts (adjusted to 4V by a series resistance).	

Working Voltage Gain

Testing Conditions

Volume Control set for maximum output

Output loaded with 18,000 ohms and at a level of approximately + 10 db.

Gain at 1,000 c/s 10 ± 2 db.