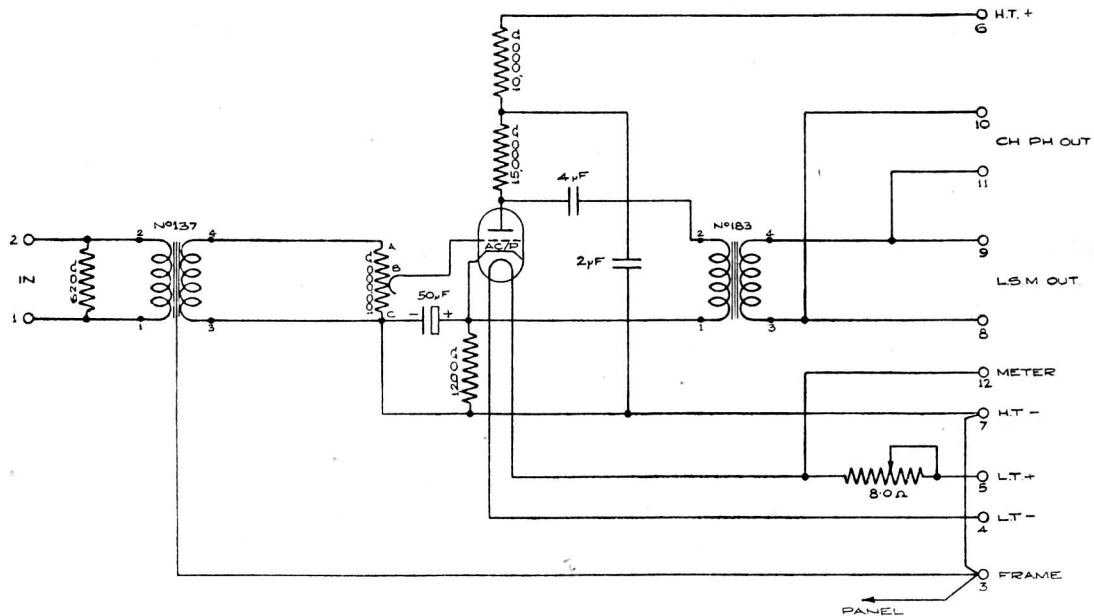


TRAP VALVE AMPLIFIER TV/14



Drawing A.4399, Issue 3

This amplifier is used at **Daventry** and is connected across the output of the 'B' amplifier providing an output used both for checkphones and loudspeaker units.

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) 600 ohms
Output impedance	..	..	..	..	..	(approx) 100 ohms
Normal load impedance	..	..	..	..	..	(approx) 550 ohms

Transformers

						<i>Impedance</i>	<i>Turns</i>
					<i>Number</i>	<i>Ratio</i>	<i>Ratio</i>
Input	..	..	..	..	137	12.1/1	3.47/1
Output	..	..	..	..	183	50/1	6.7/1

Volume Control

Continuously variable potentiometer of resistance approximately 100,000 ohms.

TRAP VALVE AMPLIFIER TV/14

Technical Instructions

Item 3 (TV/14). July, 1938

Supply Data

<i>Valve</i>	<i>Automatic</i>		<i>Anode Current</i>	<i>Filaments</i>	
	<i>Grid Bias</i>				
ACP	Volts negative		mA (approx)	Volts	Amps.
	8.5		6.5	4	1
High Tension Supply	..	..	..	(approx) 310V	
Low Tension Supply	..	..	..	(approx) 6V (adjusted to 4V by a series resistance)	

Working Voltage Gain

Testing Conditions

Volume control set for maximum output.

Output loaded with 550 ohms and at approximately zero level.

Gain at 1,000 c/s. - 6 ± 1 db.