

TRAP VALVE AMPLIFIER TV/13

Technical Instructions

Item 3 (TV/13). July, 1938

Impedances

Input impedance	..	..	..	..	..	(approx)	12,500 ohms
Output impedances							
H.P. output	..	..	..	..	..	(approx)	100 ohms
L.S. output	..	..	..	..	..	(approx)	110 ohms
Normal load impedances							
H.P. output	..	..	..	..	..	..	200 ohms
L.S. output	..	..	..	..	..	..	200 ohms

Transformers

					<i>Number</i>	<i>Impedance Ratio</i>	<i>Turns Ratio</i>
Input	..	..	..	..	137	1/4	1/2
Output							
H.P. output	..	..	..	..	236	25/1	5/1
L.S. output	..	..	..	..	183	44.9/1	6.7/1

Volume Control

Continuously variable potentiometer of resistance approximately 100,000 ohms.

Supply Data

<i>Stage</i>	<i>Valve</i>	<i>Automatic</i>	<i>Anode Current</i>	<i>Filaments</i>	
		<i>Grid Bias</i>	<i>mA (approx)</i>	<i>Volts</i>	<i>Amps.</i>
		Volts negative			
1	ACP	7.5	6	4	1
H.P. output	ACPI	27	18	4	1
L.S. output	ACP	15	12	4	1
			—		—
		<i>Total</i>	36		3

High Tension Supply	..	..	..	..	(approx)	250 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.

H.P. output loaded with 200 ohms at approximately zero level.

L.S. output loaded with 200 ohms and at a level of approximately - 6 db.

Gain at 1,000 c/s.—H.P. output	..	..	..	..	18 ± 2 db.
L.S. output	..	..	..	..	12 ± 2 db.