

AMPLIFIER TV/5

Technical Instructions

Item 3 (TV/5). July, 1938

Impedances

Input impedances	..	..	..	..	..	(approx) 14,000 ohms.
Output impedances						
C.P. Output	..	..	..	..	..	(approx) 500 ohms
H.P. „	..	..	..	..	..	(approx) 50 ohms
L.S. „	..	..	..	..	..	(approx) 55 ohms

Transformers

					<i>Number</i>	<i>Impedance Ratio</i>	<i>Turns Ratio</i>
Input	..	..	..	..	137	1/4	1/2
C.P. Output	..	..	..	..	103	12/1	3.46/1
H.P. „	..	..	..	..	146	120/1	11/1
L.S. „	..	..	..	..	147	120/1	11/1

Volume Control

Continuously variable potentiometer of resistance 100,000 ohms.

Supply Data

<i>Stage</i>	<i>Valve</i>	<i>Grid Bias</i> Volts negative	<i>Anode Current</i> mA (approx.)	<i>Filaments</i>	
				Volts	Amps
1	LS 5	12	3.0	5	0.8
2 (Each)	LS 5	24	24.0	5	0.8
		<i>Total</i>	75.0		3.2
High Tension Supply	..	..	..	300 volts	
Low Tension Supply	..	..	..	6 volts (adjusted to 5V by a series resistance).	

Working Voltage Gain

Testing Conditions

Volume control set for maximum output

Gain at 1,000 c/s.

C.P. Output (loaded with 1,000 ohms and at a level of approx. + 10 db.)	..	..	16 ± 2 db.
H.P. Output (loaded with 100 ohms and at approximately zero level)	..	..	6 ± 2 db.
L.S. Output (loaded with 100 ohms and at a level of approx. + 1 db.)	..	..	6 ± 2 db.