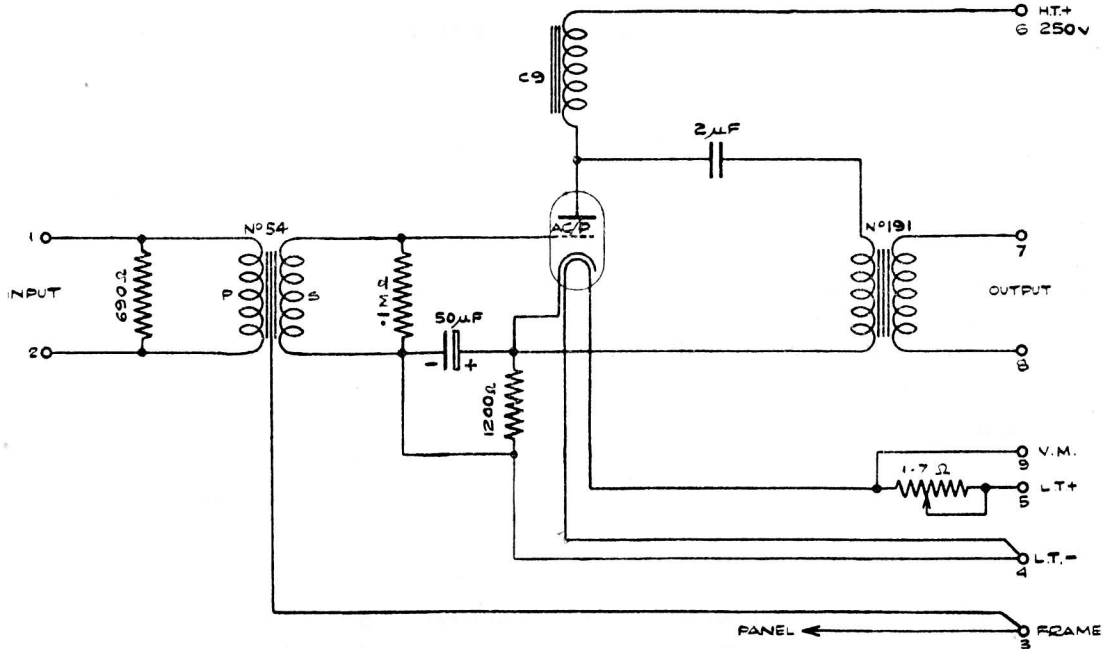# AMPLIFIER RS/1

Drawing A.2995, Issue 2

This amplifier is used at **London (Maida Vale)** as a recording supply amplifier for terminating lines incoming from Broadcasting House.

Circuit

It is a single-stage amplifier with an input transformer and with its output choke-capacity coupled to the output transformer. The grid bias is automatic.

Impedances

Input impedance	(approx) 600 ohms
Output impedance	(approx) 56 ohms
Normal load impedance	(approx) 80 or 160 ohms

Transformers

	Number	Impedance Ratio	Turns Ratio
Input	54	1/10.9	1/3.1
Output	191	91/1	9.53/1

1

Supply Data

Valve	Automatic Grid Bias Volts negative	Anode Current mA approx.	Filaments Volts	Amps.
ACP	15	12.5	4	1

H.T. supply	250 volts rectified A.C.	
L.T. supply	6 volts rectified A.C. (adjusted to 4V by series resistance)	

600 Ohm Test Gain

Testing Conditions.

Loss Pads key set at **30 db.**

T.M.S. sending level .. .. .. + 5 db.

Gain at 1,000 c/s. .. .. **9 ± 1 db.**

Gain at 50—5,000 c/s. .. .. ± 0.5 db. ⎫ Relative to gain

Gain at 5,000—9,000 c/s. .. .. ± 1.0 db. ⎭ at 1,000 c/s.

Working Voltage Gain

Gain at 1,000 c/s

Output loaded with 80 ohms and at zero level **5 ± 1 db.**

Output loaded with 160 ohms and at zero level **7.5 ± 1 db.**