

AMPLIFIER DRP/1

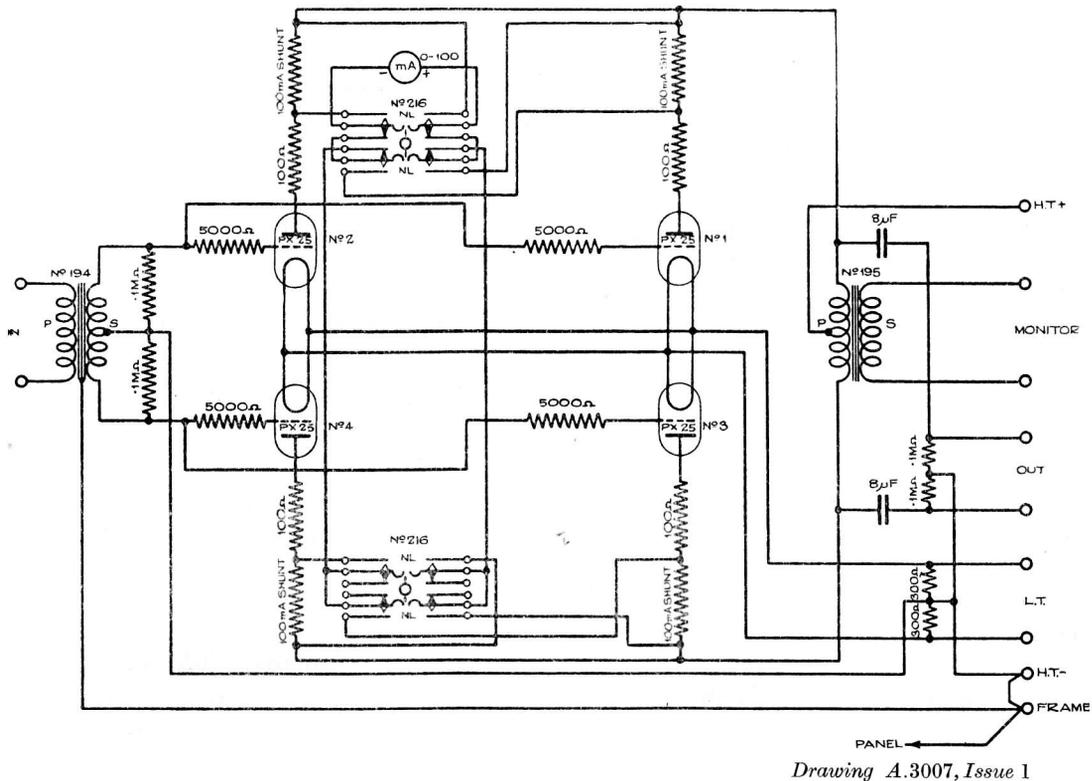


Figure 1. Circuit of Amplifier.

Drawing A.3007, Issue 1

This is a disc recording power amplifier and is used at **Maida Vale**. It is installed together with its mains unit DRM/1 in the disc recording desks.

Circuit

It is a single-stage amplifier employing four PX 25 valves connected in parallel push-pull. The input is applied via a screened transformer with a balanced loaded secondary circuit, and the grids are connected to the outer ends of the secondary winding respectively, via individual 5,000 ohm stabilising resistances. A monitoring output is obtained via an output transformer, but the main output is obtained via a choke-capacity coupling provided by the primary of the output transformer in conjunction with $8\mu\text{F}$ condensers connected in the output leads and is balanced with respect to H.T. negative. Milliammeter shunts are provided in each anode lead, and keys enable the milliammeter to be connected across any of them so as to read the individual anode currents. The valves are of the directly heated type, but automatic bias is provided by returning the H.T. negative to the centre point of the filaments, provided by two 300 ohm resistances which are effectively paralleled in the common H.T. return circuit.

Working Voltage Gain

Testing Conditions

Main output loaded with 1,500 ohms and at a level of approximately + 40 db.

Monitor output loaded with 18,000 ohms and at approximately zero level

Gain at 1,000 c/s (Main output) 38 ± 2 db.
(Monitor output) zero.