



# OSCILLATOR AMPLIFIER OA/1

Technical Instructions

Item 9 (OA/1). April, 1937

Transformers	Number	Impedance	Turns
		Ratio	Ratio
Input	41	1/20	1/4.47
Inter Valve	42A	16/1	4/1
Output	102	12/1	3.45/1

## Supply Data

Stage	Valve	Grid Bias Volts	Anode Feed mA <sup>35-40</sup>	Filament Volts <sup>?</sup>	Amps.
1	2-LS.5's (in push-pull)	24	6-10	4	1.6
2	2-PX.25's do.	24	35-50	4	4.0
<i>Total</i>			41-60		5.6
High Tension supply .. ..		300 volts.			
Low Tension supply .. ..		6 ,, (adjusted to 4 V. by a series resistance).			

## Test Data

600 ohm Test Gain at 1,000 c/s ..  $35 \pm 2$  db.

600 ohm Test Frequency Characteristic.

250-5,000 c/s .. .. .	$\pm 0.5$ db.	} Relative to gain at 1,000 c/s.
5,000-9,000 c/s .. .. .	$\pm 1.0$ db.	

Below 250 c/s the gain increases and reaches its maximum value at about 33 c/s due to the tuning of the input circuit.

Maximum output available into 600 ohms +30 db. (approx.)

**Maintenance**—If it should be necessary to replace a valve in either stage, matched valves should always be requisitioned and the pair replaced.