

This amplifier is used at London (Maida Vale), Bangor, Glasgow (Queen Margaret College), Swansea, Daventry and Stagshaw.

## Circuit

It is a single stage push-pull amplifier with input and output transformers and a balanced volume control. The grid bias is automatic.

## **Impedances**

Output	impedan impeda l load ir	nce	··· ···	••	•••	• • • • • • • • • • • • • • • • • • • •	• •	(approx) (approx) (approx)	12,500 ohms 600 ohms 600 ohms
Transformer	rs.					N	umbe <b>r</b>	Impedance Ratio	e Turns Ratio
Input		• •					128	1/16	1/4
Output							184	7.94/1	2.82/1

## AMPLIFIER C/3 Technical Instructions

Item 3(C/3). May, 1938

Volume Control									
	$T\epsilon$	otal	No. of	$Loss \ per$	Loss on				
Ty	pe Resi	stance	Studs	Stud	Lowest Stud				
P.	16 200,	$\Omega 000$	10	2 db.	Infinite				
Supply Data									
			omatic						
Stage	Valve		Bias	Anode Curren					
			$\mathbf{negative}$	mA (approx					
1	2—ACP 1		30	40	4 2				
	(in push-pull)	)		3.1					
High Tension	Supply				r 300 volts				
					with the supply lead				
					upply is at 300 volts				
		but sh	ould be sl		en it is at 250 volts)				
Low Tension S	Supply		,		s (adjusted to 4V				
×				by a	series resistance)				
600 Ohm Test G									
Testing Condit				76	'				
	entrol set for		n output						
	s key set at 3	30 db.							
	nding level			., zero					
Gain at 1,000	) c/s			The second secon	_ 1 db.				
Gain at $50-5$ ,					db. Relative to				
5,000-	-9,000 c/s.			$\dots \pm 1$	lb. $\int gain at 1,000 c/s$ .				
	-				*				
Working Voltage									
Testing Condit			وبالمبادية						
Amplifier volume control set for maximum output									
Output loaded with 600 ohms and at a level of									
* * *	tely $+10$ db				4 11				
Gain at 1,000	) c/s	• •	• • •	11 ± 1	ı ab.				