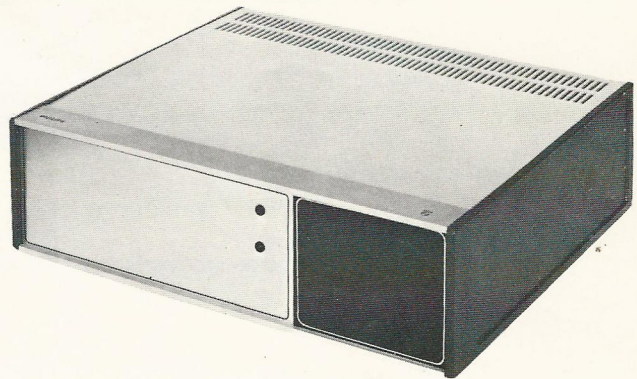




OPERATING INSTRUCTIONS

LBH 1009/01 120 WATT BOOSTER AMPLIFIER



OPERATION:

1. Ensure that voltage selector under top panel is set for the correct mains voltage.
2. Connect speaker wiring to avoid overload. Ensure that the total impedance is not less than the minimum stated in the specification. As a guide to power consumed by loud speakers on constant voltage lines the following table should be used.

SPEAKER IMPEDANCE	VOLTAGE		
	100V	70V	50V
20,000 ohms	½ w	1/4 w	1/8 w
10,000 ohms	1 w	1/2 w	1/4 w
5,000 ohms	2 w	1 w	1/2 w
2,500 ohms	4 w	2 w	1 w
2,000 ohms	5 w	2 1/2 w	1 1/4 w
1,000 ohms	10 w	5 w	2 1/2 w
500 ohms	20 w	10 w	5 w

3. Connect input signal line to appropriate pins of 7 pin din plug. A 5 pin plug can be used if the 24 v auxiliary supply is not required for other equipment.
4. The amplifier is now ready for operation. If necessary, the gain may be adjusted by means of a potentiometer behind the front panel. This is accessible by removing the top cover.

5. When the amplifier is switched on the lower red lamp will glow indicating power "on". The upper red lamp will not glow unless the DC fuse blows or the amplifier becomes overheated. Overheating causes operation of the thermal overload cut out switch and this will reset itself in a short period.

Overheating can be caused by one or a combination of the following:

Excessive mains voltage
Excessive ambient temperature
Inadequate ventilation
Lower than rated load impedance
Short circuit on speaker line
Sustained excessive drive

6. Please retain these instructions and circuit diagram for future use.

7. Service on this amplifier is available from your nearest Philips Professional Service Department.

SPECIFICATION :

Rated power output (Thermally Limited)	120 w
Constant Voltage Output	100 v with tapping for 70 v or 50 v
Minimum Loudspeaker line impedance	83 ohms on 100 v Tap 42 ohms on 70 v tap 21 ohms on 50 v tap
Damping Factor	3
Total Harmonic Distortion	1%
Frequency Response	40 - 15000 Hz \pm 2 dB
Signal to noise ratio	70 dB
Input sensitivity	0.6 v
Input impedance	100,000 ohms unbalanced
Auxilliary Equipment supply	24 v at 40 mA
Mains Voltage	245 v, 220 v, 127 v, 110 v, 50-60 Hz Selected by carousel normally set at 245 v
Power Consumption	35 VA quiescent 85 VA 120 w Music & Speech speech
Fuses	A.C. Mains 3 amps D.C. 8 amps A self resetting thermostat temporarily switches amplifier off if overheated.
Temperature Range	10 c to 45 C
Dimensions	133 mm x 390 mm x 354 mm
Weight	15.5 Kg
Input connections	Pin 0 Mechanical Earth Pin 1 Input Pin 2 Electrical Earth Pin 3 Electrical Earth Pins 4, 5, 6, No connection Pin 7 Auxilliary Supply (24 v)

OPTIONAL EXTRAS :

To provide a balanced input, transformer 3922 004 00120 may be internally mounted in the amplifier. The sensitivity will then become 200 mV at 10,000 ohms.

