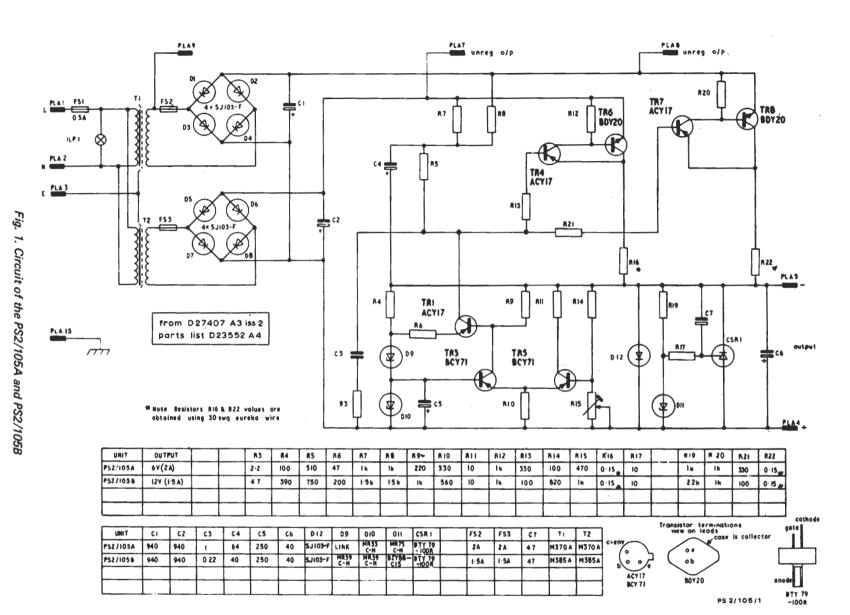
POWER SUPPLIER PS2/105A AND PS2/105B

PS2/105



Introduction

The PS2/105 power supplier is a modified version of the PS2/82. The unit is mains operated and produces the following outputs:

PS2/105A

6 volts at 2 amperes

PS2/105B

12 volts at 1.5 amperes

Both models have built-in over-voltage protection circuits which operate at about 125 per cent of the nominal output voltage.

Each supplier is built on a printed wiring board which is mounted on a CH1/26A chassis. The index peg positions are:

PS2/105A

60 and 61

PS2/105B

60 and 63

General Specification

	PS2/105A	PS2/105B
Output Voltage	6 volts	12 volts
Maximum Load Current	2 amperes	1.5 amperes
Output Impedance at Zero Frequency	<0.2 ohms	<0.3 ohms
Output Impedance at 100 kHz	<0.6 ohms	<1.0 ohms
Output Voltage Drop at Maximum Load	<400 mV	<450 mV
Output Voltage Ripple	<12mV p-p	<9 mV p-p
Power Requirements at 50 Hz	240 volts ±10 per cent	
Operating Temperature Range	-15 to +45 degrees C	

Circuit Description (Fig. 1)

Fig. 1 is a diagram of the PS2/105A and B power suppliers. The operation of the PS2/105 is the same as the PS2/82 except that the over-current protection circuit used in the PS2/82 has been omitted from the PS2/105.

Maintenance

Output Voltage Adjustment

The output voltage is adjusted by resistor R15.

Over-voltage Protection

If the over-voltage protection circuit operates, fuses FS2 and FS3 rupture. To check the operation of the circuit, the fuses must be replaced by resistors of at least nine-watt rating. The PS2/105A requires a 56-ohm resistor and the PS2/105B requires an 82-ohm resistor.

When the resistors have been substituted for the fuses, momentarily connect pin PLA5 to the negative terminal of capacitor C1. The output voltage should fall to 1.5 ±0.5 volts. The circuit is reset by switching off the mains input for a few seconds.

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