POWER SUPPLIER

PS2/83

General

The PS2/83 is a mains-fed stabilised power supplier with outputs of 0·4 A at 15 V and 1 A at −5·2 V. The voltage of the transformer centre-tap supplying the 15 V rails is controlled by series stabiliser to give outputs at +8 V and −7 V relative to chassis. Fig. 1 gives the circuit diagram.

The PS2/83 was designed to power the Television Waveforms Generator GE6L/507 and is constructed on a CH1/12A chassis using index-peg positions 25 and 41.

Alignment *(On-test adjustment of output voltages)*

Connect 100 kilohm variable resistor as R10 AOT.
Power the associated equipment with all boards inserted.
Connect an AVO on 25-V DC range across C10
Adjust the variable resistor to give 15 V d.c.
Remove the variable resistor and measure its value using the AVO.
Connect the nearest preferred-value resistor in the position R10
Check that the AVO reads 15·0 ±0·1 V.
Connect the AVO across C13; it should read −7·0 ±0·3 V relative to chassis.
Connect the AVO across C18; it should read −5·25 ± 0·25 V relative to chassis

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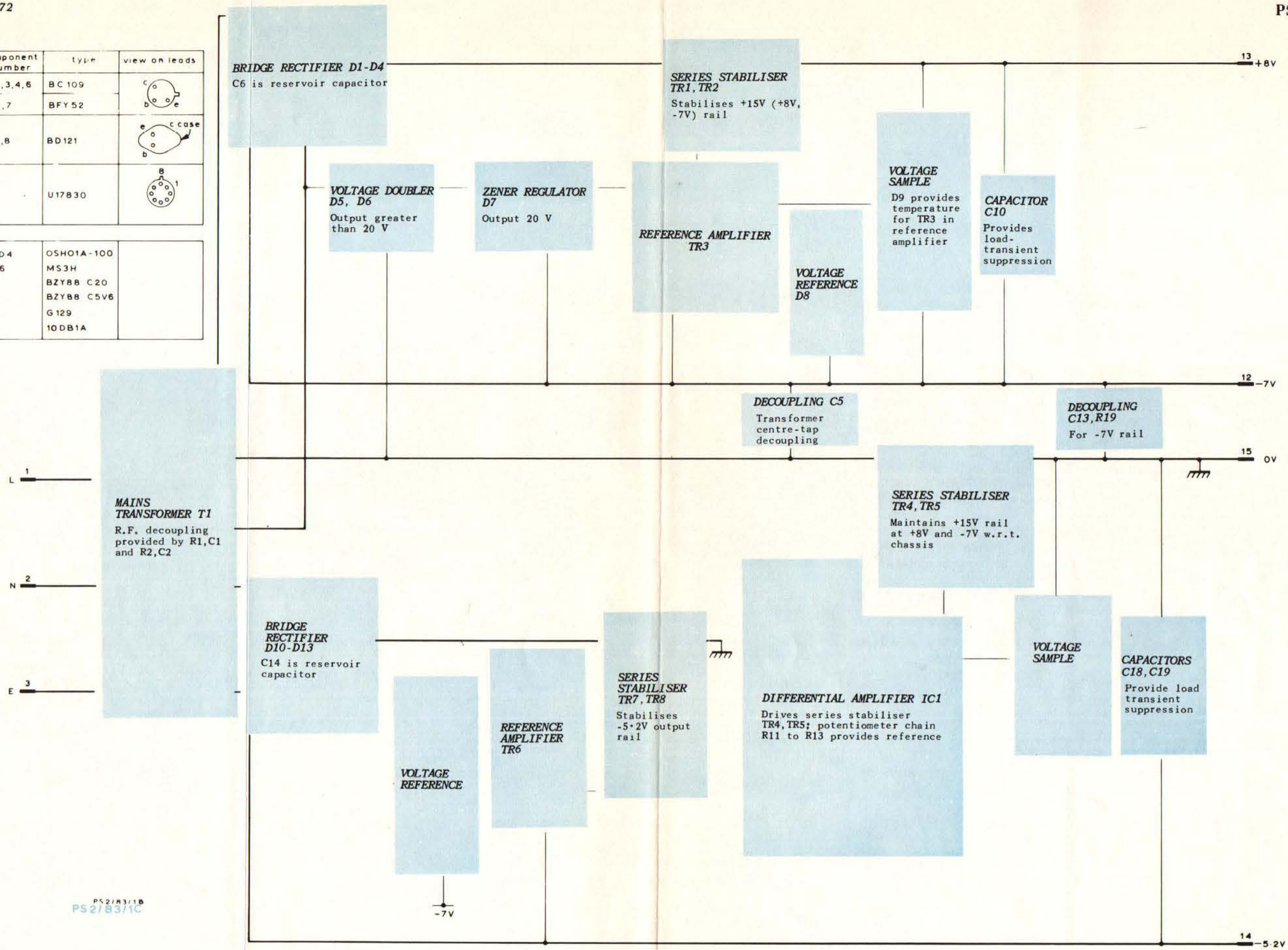
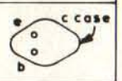
component number	type	view on leads
TR1,3,4,6	BC 109	
TR5,7	BFY52	
TR2,8	BD121	
IC1	U17830	

D1-D4	OSH01A-100
D5,6	MS3H
D7	BZY88 C20
D8	BZY88 C5V6
D9	G129
D10	10DB1A



PS2/83/1B
PS2/83/1C

PS2/83: block text diagram

component number	type	view on leads
TR1,3,4,6	BC109	
TR5,7	BFY52	
TR2,8	BD121	
IC1	U17830	

D1-D4	OSH01A-100	
D5,6	MS3H	
D7	BZY88 C20	
D8	BZY88 C5V6	
D9	G129	
D10	10DB1A	

PS2/83/1A

PS2/83/1C

PS2/83: functional circuit diagram