TRACE ELLIOT LTD

SERVICE MANUAL : SM00036 **ISSUE : 1**

Date :	14th Feb 1997
Product Code :	T1150
Model No :	PPA300
Technical File No :	TE00036

CONTENTS

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TEST PROCEDURE
PB200 POWER MODULE

1. Check the PCB for solder defects.
   Check that the FET's are isolated from the heatsink and are bolted down correctly.

2. Inject a 10kHz 30mV sine wave to the signal screen of the five pin terminal.
   Connect a 4 Ohm load to the speaker output.
   Connect the 35-0-35 volt supply.
   Power up one output stage only for test.
   It would be advisable to attach a further heatsink to the existing 'L' shape heatsink.

3. Monitor the output on the scope.
   This should measure 10 volts p-p.

4. Adjust P1 to trim out the crossover distortion.

5. Check the + connection of the five pin terminal.
   This should measure approximately 56.5 volts DC.

6. Adjust the input signal to 1kHz 355mV.
   The output should now measure 29.2 volts RMS AC,
   82.6 volts p-p.
   This should be the point at which the signal clips.

Rik Daniels
April 2, 1997

ISSUE CHANGE NOTE DATE	ISSUE CHANGE NOTE DATE	ISSUE CHANGE NOTE DATE
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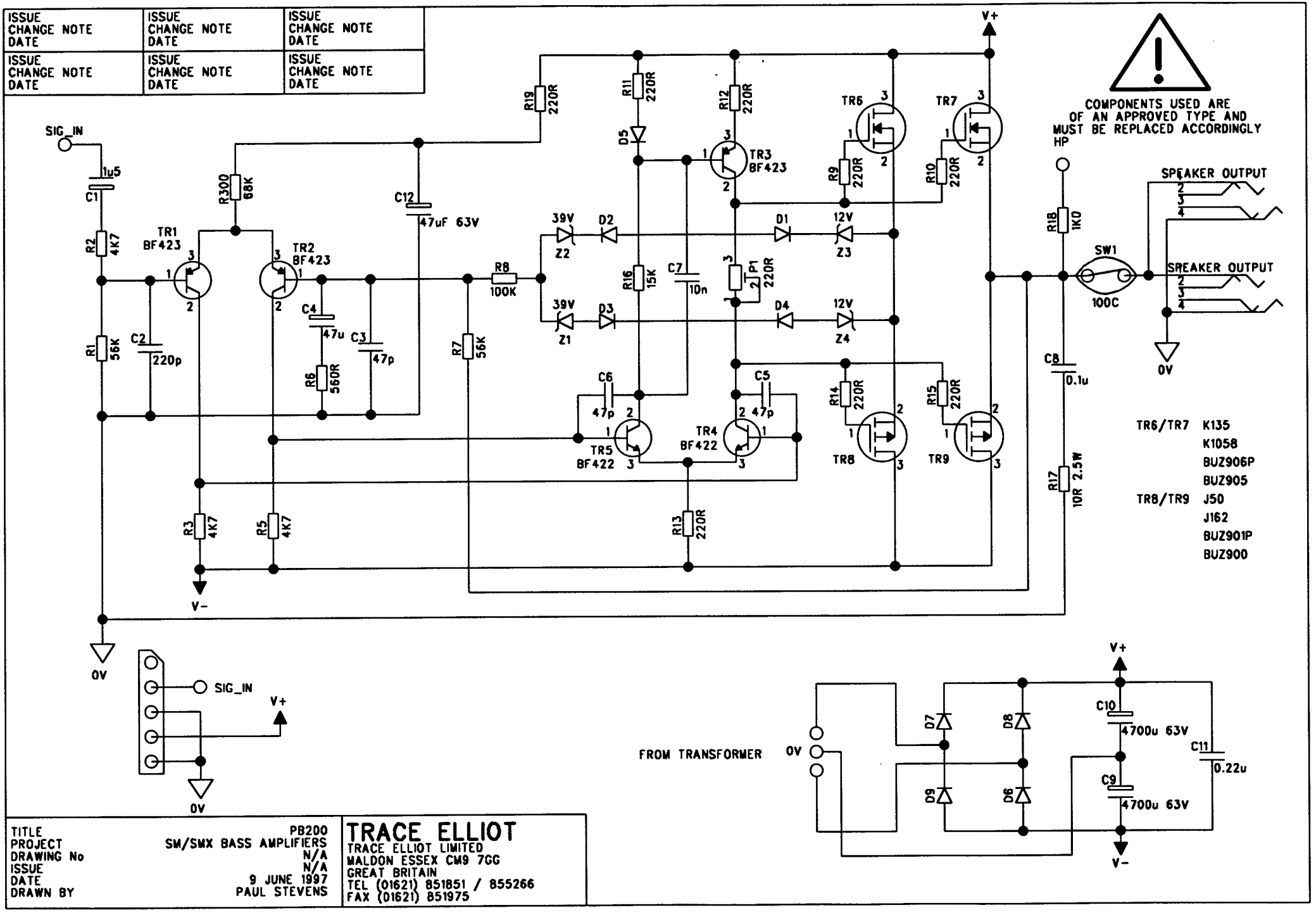

TITLE	PB200	**TRACE ELLIOT**
PROJECT	SM/SMX BASS AMPLIFIERS	TRACE ELLIOT LIMITED
DRAWING No	N/A	MALDON ESSEX CM9 7GG
ISSUE	N/A	GREAT BRITAIN
DATE	9 JUNE 1997	TEL (01621) 851851 / 855266
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PARTS LIST FOR PB200 POWER MODULES

Description	Part Code	Qty	Where Used
RESISTORS			
100K ¼ WATT	72-RM100K	1	R8
15K ¼ WATT	72-RM15K	1	R16
220R ¼ WATT	72-RM220R	8	R9-15 R19
4K7 ¼ WATT	72-RM4K7	3	R2 R3 R5
560R ¼ WATT	72-RM560R	1	R6
56K ¼ WATT	72-RM56K	2	R1 R7
68K ¼ WATT	72-RM68K	1	R4
10R 2.5 WATT	72-RWW10R-2.5W	1	R17
1K 2W PLUGABLE	72-RWW1K	1	R18
CAPACITORS			
0.22µF 250V POLY BOX	72-C0.22-250VP	1	C11
1.5µF 35V TANT	72-C1.5-35VT	1	C1
100nF 250V POLY BOX	72-C100N-250VP	1	C8
10nF 100V MYLAR	72-C10N-100VE	1	C7
220pF 100V CER DISC	72-C220P-100VCD2	1	C2
47µF 63V RADIAL	72-C47-63VER	2	C4 C12
47pF 100V CER DISC	72-C47P-100VCD	3	C3 C5 C6
4700µF 80V RADIAL	72-CAP-470080V	2	C9 C10
SEMI-CONDUCTORS			
12V ZENER DIODE	72-D-BZX55C12V	2	ZD3 ZD4
39V ZENER DIODE	72-D-BZX55C39V	2	ZD1 ZD2
GI 751 DIODE	72-D-GI751	4	D6-9
IN4148 DIODE	72-D-IN4148	5	D1-5
BUZ900 MOSFET	72-MOS-BUZ900	2	
BUZ905 MOSFET	72-MOS-BUZ905	2	
BF422 TRANSISTOR	72-TBF422	2	TR4 TR5
BF423 TRANSISTOR	72-TBF423	3	TR1-3
OTHERS			
ISOLATION BUSH	72-MOS-BUSH-WHT	8	
ISOLATION PAD	72-MOS-KOOL-PAD	4	
220R PRESET POT	72-PRESET-220R	1	P1
MAIN HEATSINK	71-HS-L200	1	

Rik Daniels
April 3, 1997

PARTS LIST FOR PPA300 DISPLAY PCB

Description	Part Code	Qty	Where Used
C12-PCB-RA30-LED			
5MM SPACER	71-SPA-5MM	8	L1-4
10µF 63V RADIAL	72-C10-63VER	2	C2
100N 100V MYLAR	72-C100N-100VE	2	C1
IN4148 DIODE	72-D-IN4148	2	D1
GREEN LED	72-LED-GREEN	4	L3 L4
RED LED	72-LED-RED	2	L1
YELLOW LED	72-LED-YELLOW	2	L2
2K2 PRESET POT	72-PRESET-2K2	2	R10
10K ½ WATT	72-RC10K-.5W	6	R2 R3 R4
4K7 ½ WATT	72-RC-4K7-.5W	2	R1
10K ¼ WATT	72-RM10K	4	R5 R8
22K ¼ WATT	72-RM22K	2	R7
2K2 ¼ WATT	72-RM2K2	2	R9
47K ¼ WATT	72-RM47K	2	R11
6K8 ¼ WATT	72-RM6K8	2	R6
BF422 TRANSISTOR	72-TBF422	8	T1-4

Rik Daniels
March 27, 1997