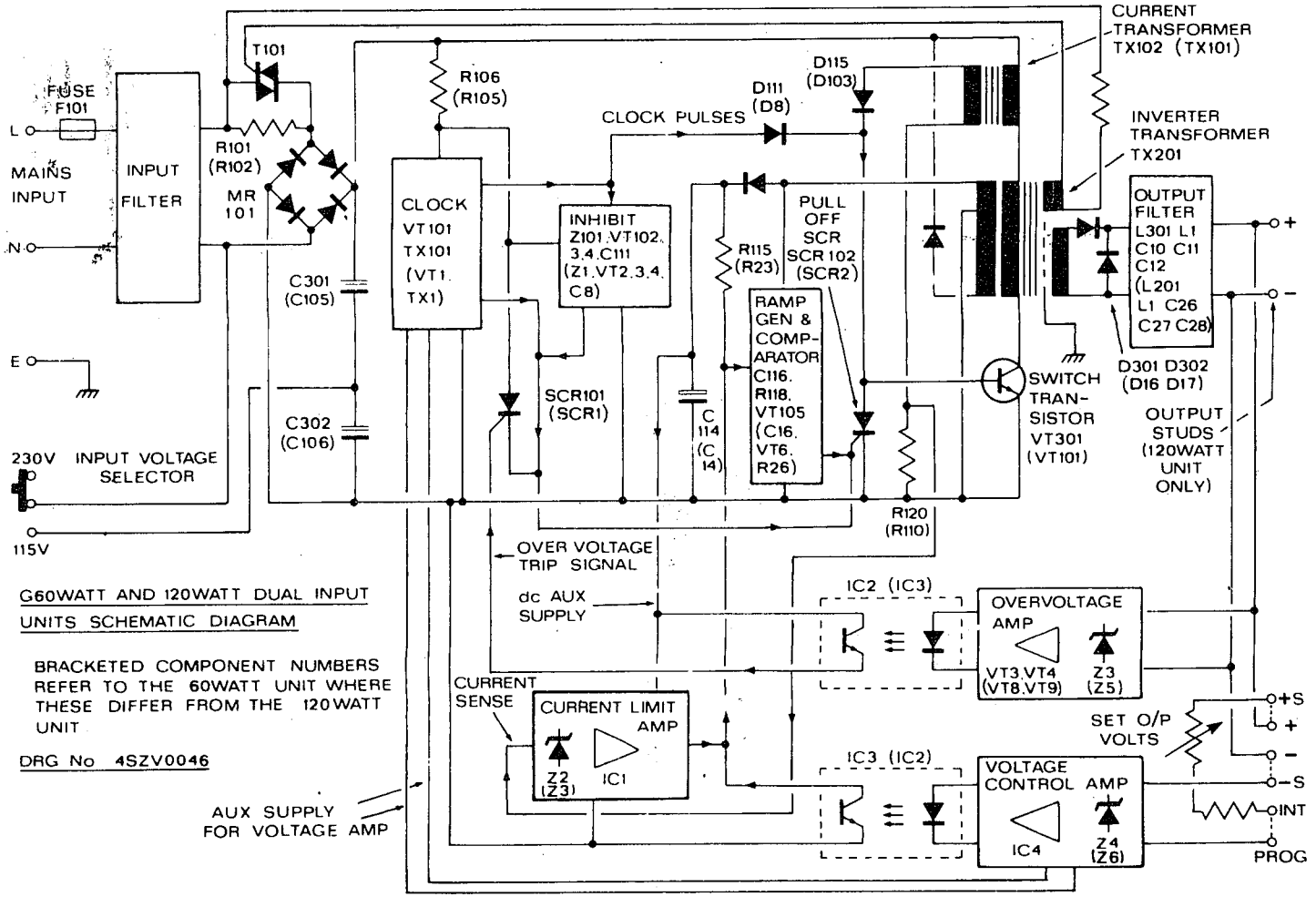
Schematic diagram

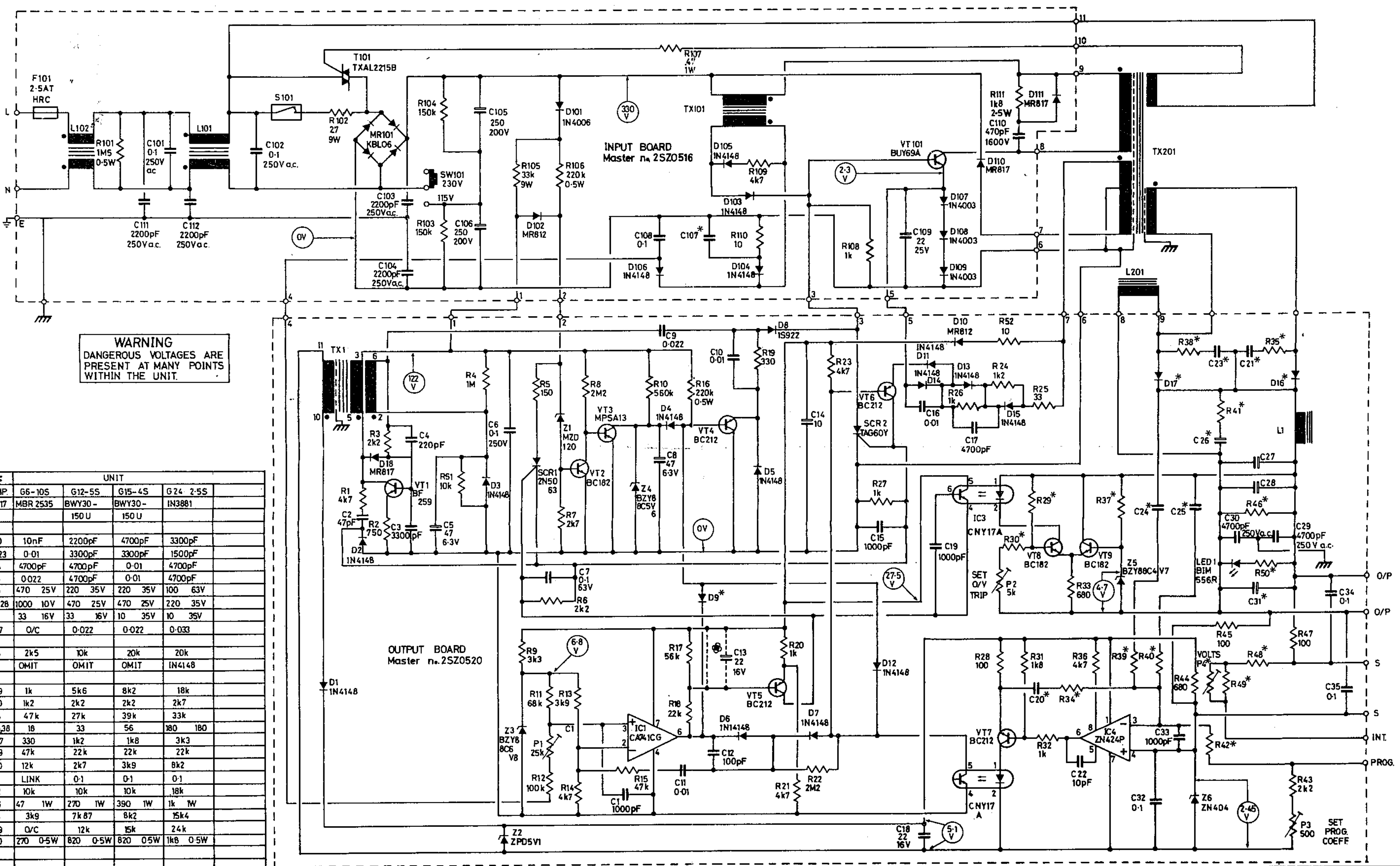


G60WATT AND 120WATT DUAL INPUT UNITS SCHEMATIC DIAGRAM

BRACKETED COMPONENT NUMBERS REFER TO THE 60WATT UNIT WHERE THESE DIFFER FROM THE 120WATT UNIT

DRG No 4SZV0046

R	101 · 102 · 103,104 · 105 · 106 · 107 · 109, 110 · 108 · 111 52 · 44 45	R
R	1 · 2,3 · 51 · 4 9 · 5,6,11,12,7,13,14,15,8,10 · 16,17,18 · 19 · 20,21,22,23 · 27 · 26 · 24,28,25,30,31,29,32,33,34,36,37,39,40,38,41,42,38,41,42,43,49,35,48,50,46,47	R
C	111 101 112 · 102 · 2 · 103,104,3,4,5, · 105,106 · 7 · 1 · 108,11,8,9,7,12,13,10 · 14 · 15 · 109,18,16,19,17 · 110 · 20 · 22 · 32,24,33,25,26,23,30,31,27,28,21,29,34,35	C
VT	1 · 2 3 · 4 · 5 · 6 · 101 · 7 · 8 9	VT
MISC	F101 L102 · L101 · S101 · D1,T101,D2,TX1,MR101,D18,SW101 · D3,Z2,3,SCR1,Z1,D102,101,P1,IC1,Z4,D106,4 · 105,9,6,5,103,104,105,8,7 · SCR2 D12,14,11,107,108,109,P2,D10,13,110,IC2,3,D15,111 · IC4,Z5,L201,D17,TX201,Z6,P4,LED1,L1,D16,P3	MISC



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16
1

*	UNIT				
COMP.	G6-10S	G12-5S	G15-4S	G24 2·5S	
D16,17	MBR 2535	BWY30-	BWY30-	IN3881	
		150 U	150 U		
C20	10nF	2200pF	4700pF	3300pF	
C21,23	0·01	3300pF	3300pF	1500pF	
C24	4700pF	4700pF	0·01	4700pF	
C25	0·022	4700pF	0·01	4700pF	
C26	470 25V	220 35V	220 35V	100 63V	
C27,28	1000 10V	470 25V	470 25V	220 35V	
C31	33 16V	33 16V	10 35V	10 35V	
C107	O/C	0·022	0·022	0·033	
P4	2k5	10k	20k	20k	
D9	OMIT	OMIT	OMIT	IN4148	
R29	1k	5k6	8k2	18k	
R30	1k2	2k2	2k2	2k7	
R34	47k	27k	39k	33k	
R35,38	18	33	56	180 180	
R37	330	1k2	1k8	3k3	
R39	47k	22k	22k	22k	
R40	12k	2k7	3k9	8k2	
R41	LINK	0·1	0·1	0·1	
R42	10k	10k	10k	18k	
R46	47 1W	270 1W	390 1W	1k 1W	
R48	3k9	7k87	8k2	15k4	
R49	O/C	12k	15k	24k	
R50	270 0·5W	820 0·5W	820 0·5W	1k8 0·5W	

TRACED	ISS.	DATE	MOD. No.	ISS.	DATE	MOD. No.
	M	14·4·82	7749	R	8-5-85	11088
CHECKED	N	26·8·82	8028	S	17-9-85	11410
	O	14·9·83	8618	T	4-2-86	11774
DRAWN	P	9-4-84	9870			
	Q	3 1 85	10637			

NOTE: Component numbers are prefixed according to location. 1–99 on output board. 101–199 on input board. 201–299 on chassis.
Voltages indicated are measured at 240V input and full output current with respect to the negative end of C106 unless otherwise indicated.

USED ON F892, 893, 894, 914.

WARNING: This common measuring point is at mains input potential!

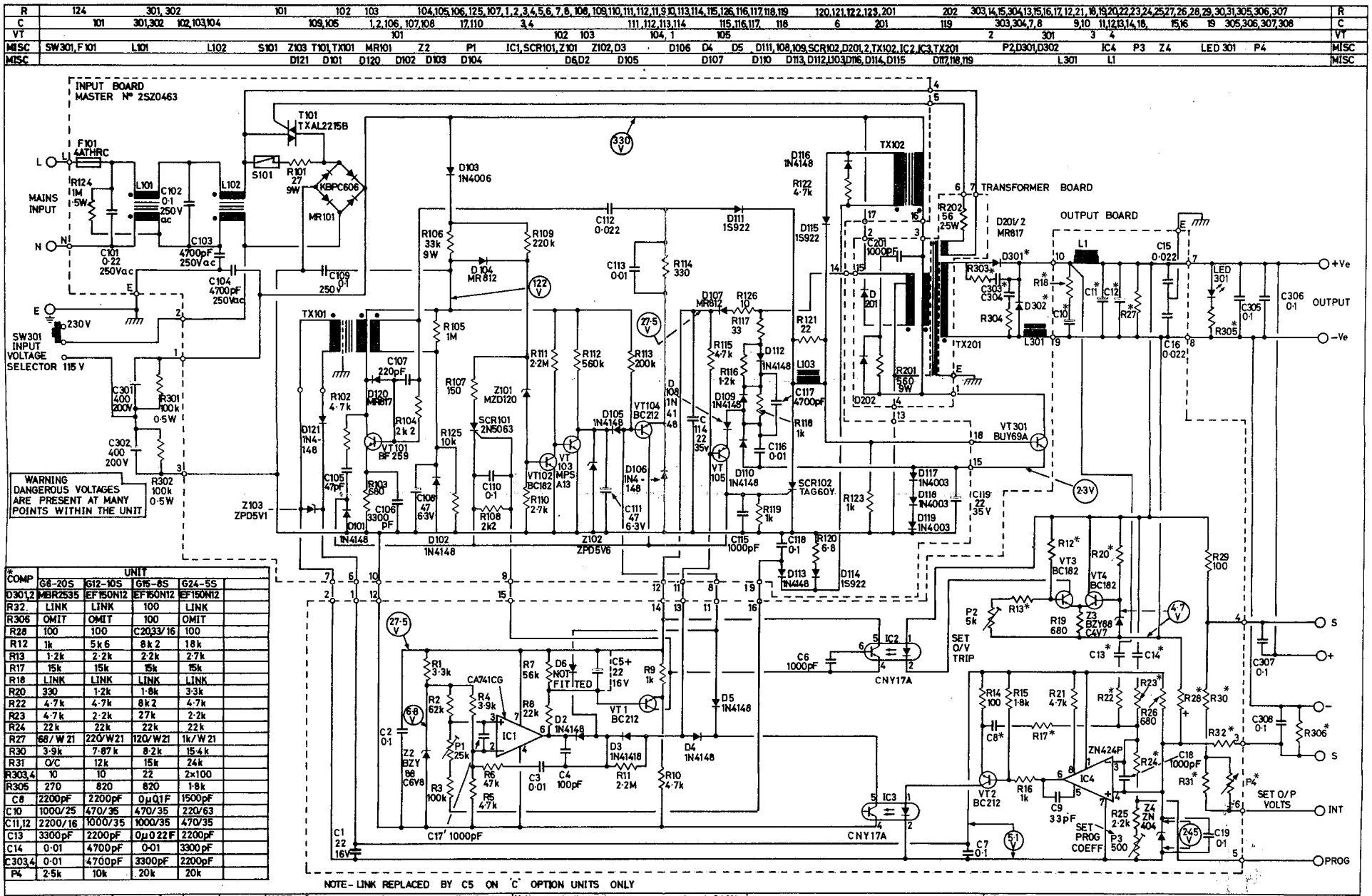
NOTE:
CAPACITOR VALUES GIVEN IN μF
RESISTOR VALUES IN Ω
UNLESS OTHERWISE STATED
⊕ C13 fitted on C option units only otherwise a link.

FARNELL INSTRUMENTS LTD. WETHERBY, YORKS.

TITLE: **CIRCUIT DIAGRAM 60W 'G' SERIES**

DRAWING No. **2SZX0119**

SHEET 1 OF 1 SHEETS



R	124	301, 302		101	102	103	104,105,106,125,107,1,2,3,4,5,6,7,8,108,109,110,111,112,11,9,10,113,114,115,126,116,117,118,119	120,121,122,123,201	202	303,14,15,304,13,15,16,17,12,21,18,19,20,22,23,24,25,27,26,28,29,30,31,305,306,307	R
C	101	301,302	102,103,104	109,105	1,2,106,107,108	17,110	3,4	111,112,113,114	115,116,117	118	6	201	119	303,304,7,8	9,10	11,12,13,14,18,	15,16	19	305,306,307,308	C
VT					101			102	103	104,1	105			2	301	3	4			VT
MISC	SW301,F101	L101	L102	S101	Z103	T101,TX101	MR101	Z2	P1	IC1,SCR101,Z101	Z102,D3	D106	D4	D5	D111,108,109,SCR102,D201,2,TX102,IC2,IC3,TX201	P2,D301,D302	IC4	P3	Z4	LED 301	P4	MISC
MISC				D121	D101	D120	D102	D103	D104	D6,D2	D105	D107	D110	D113,D112,L103,D116,D114,D115	D117,118,119	L301	L1					MISC

*COMP	UNIT				
	G6-20S	G12-10S	G15-8S	G24-5S	
D301,2	MBR2535	EF150N12	EF150N12	EF150N12	
R32.	LINK	LINK	100	LINK	
R306	OMIT	OMIT	100	OMIT	
R28	100	100	C2033/16	100	
R12	1k	5k6	8k2	18k	
R13	1·2k	2·2k	2·2k	2·7k	
R17	15k	15k	15k	15k	
R16	LINK	LINK	LINK	LINK	
R20	330	1·2k	1·8k	3·3k	
R22	4·7k	4·7k	8k2	4·7k	
R23	4·7k	2·2k	27k	2·2k	
R24	22k	22k	22k	22k	
R27	68/W21	220/W21	120/W21	1k/W21	
R30	3·9k	7·87k	8·2k	15·4k	
R31	O/C	12k	15k	24k	
R303,4	10	10	22	2×100	
R305	270	820	820	1·8k	
C8	2200pF	2200pF	0µ01F	1500pF	
C10	1000/25	470/35	470/35	220/63	
C11,12	2200/16	1000/35	1000/35	470/35	
C13	3300pF	2200pF	0µ022F	2200pF	
C14	0·01	4700pF	0·01	3300pF	
C303,4	0·01	4700pF	3300pF	2200pF	
P4	2·5k	10k	20k	20k	

TRACED	ISS.	DATE	MOD No	ISS.	DATE	MOD No.
	N	24-8-82	8028	S	29-3-85	10940
CHECKED	O	14-9-83	8618	T	22 1 87	12647
	P	27-7-83	8188			
DRAWN	Q	10-4-84	8853			
	R	7-9-84	9851			

NOTE- Component numbers are prefixed according to location

PREFIX	EXAMPLE	LOCATION
NONE	D1	OUTPUT BOARD
1	C101	INPUT BOARD
2	R201	TRANSFORMER BOARD
3	SW301	CHASSIS

Voltages indicated are measured at 240V input and full output current with respect to the negative end of C302 (unless otherwise indicated)
WARNING- This common measuring point is at mains input potential

USED ON- 813,814,815,860

NOTE
CAPACITOR VALUES GIVEN IN µF
RESISTOR VALUES IN Ω
UNLESS OTHERWISE STATED

D106	VT105
MR817	BC212

FARNELL INSTRUMENTS LTD. WETHERBY, YORKS.

TITLE CIRCUIT DIAGRAM
G120 DUAL INPUT UNITS

DRAWING No 2SZX0104

SHEET 1 OF 1 SHEETS

AARDUX 5693/83