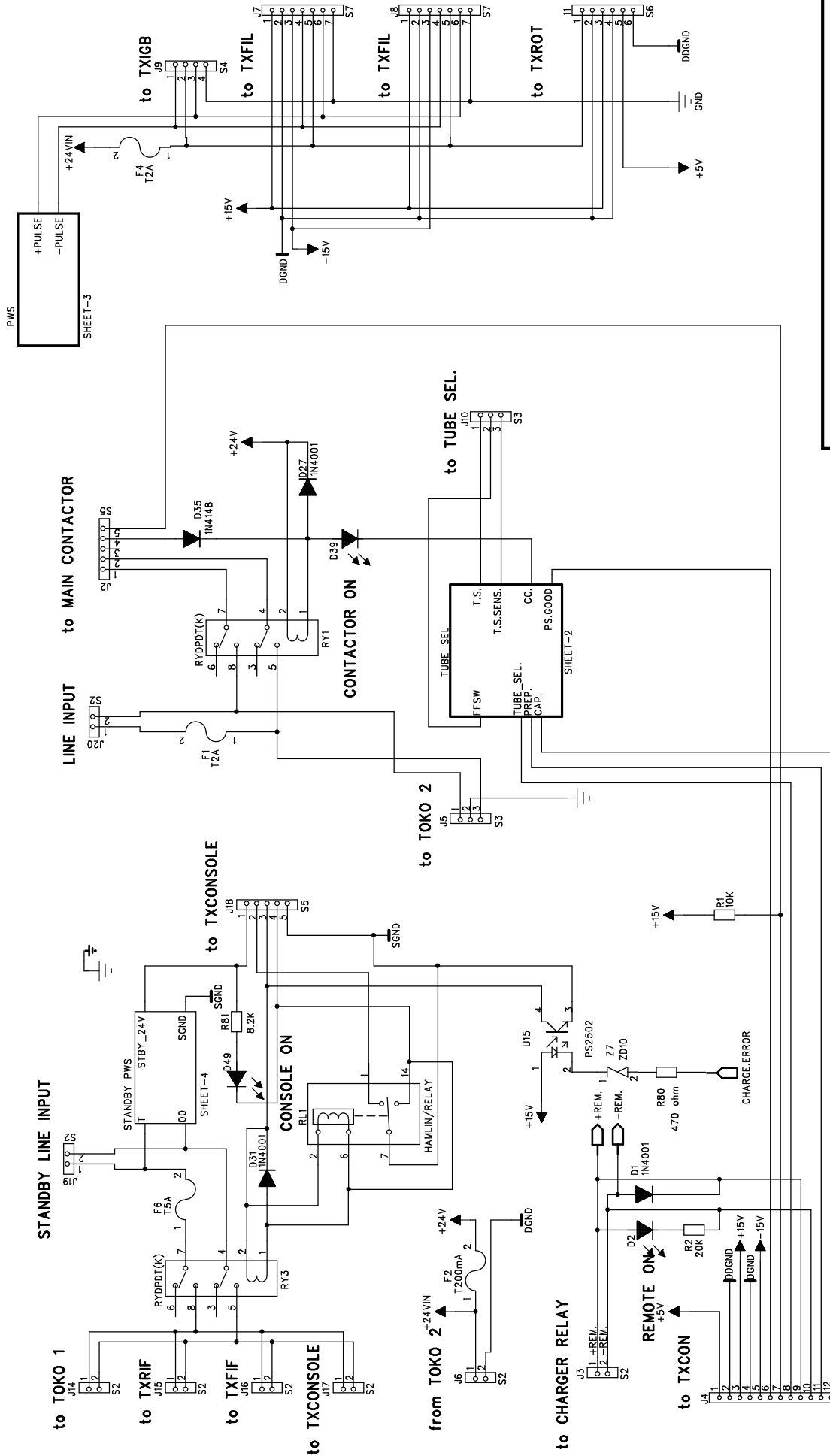


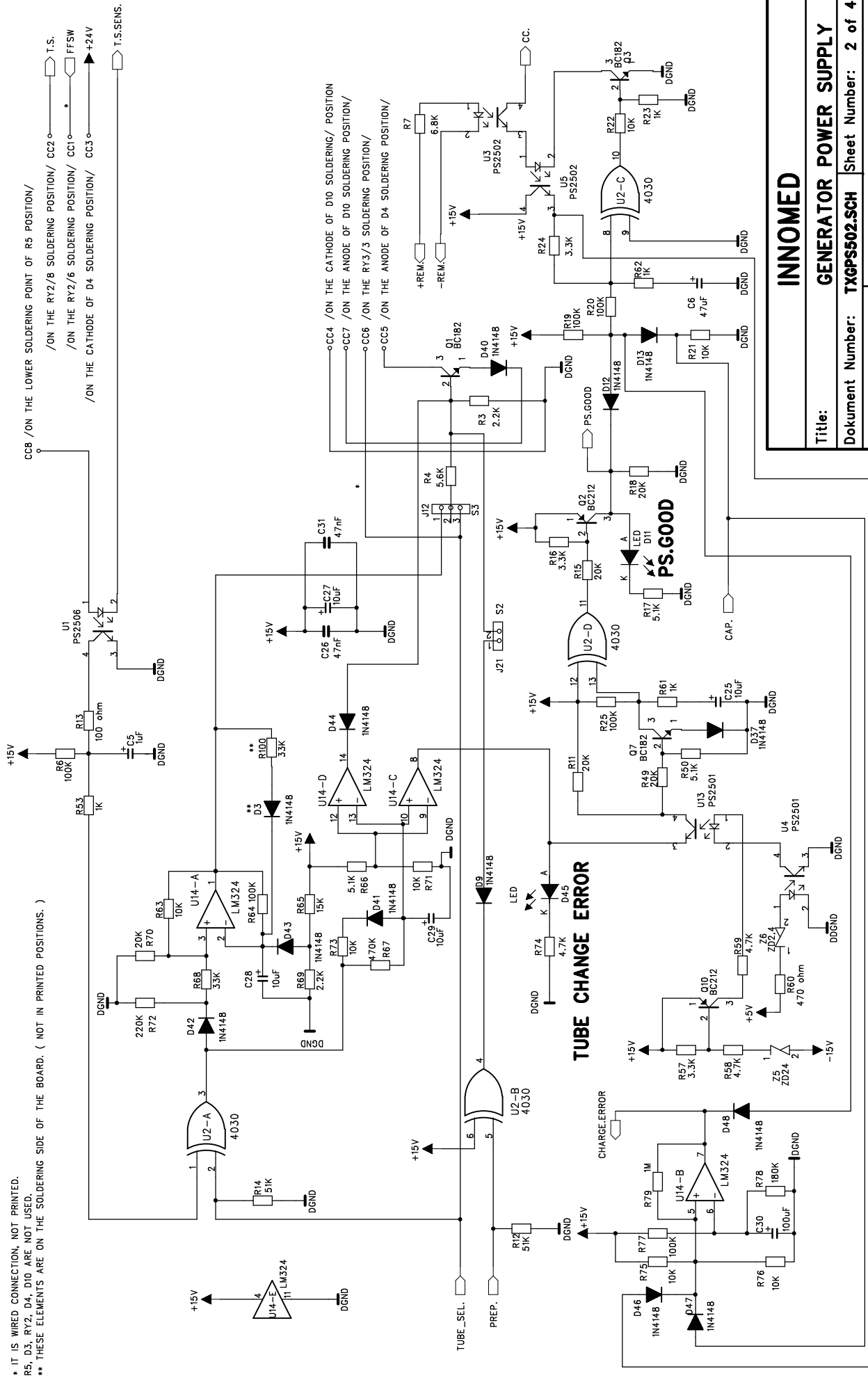
IG 350/450/550/650/850 HF

HIGH VOLTAGE POWER SUPPLIES

GENERATOR POWER SUPPLY (TXGPS5)

SCHEMATIC DIAGRAMS	TXGPS502.SCH	03.01.2004.	Page 4
SCHEMATIC DIAGRAMS	TXTSC100.SCH	01.21.2002.	Page 1
LAYOUTS	TXGPS500.PRC	03.05.2001.	Page 1
LAYOUTS	TXTSC100.PRC	01.21.2002.	Page 1
BILL OF MATERIALS	TXGPS502.BOM	03.01.2004.	Page 2
BILL OF MATERIALS	TXTSC100.BOM	03.01.2002.	Page 1

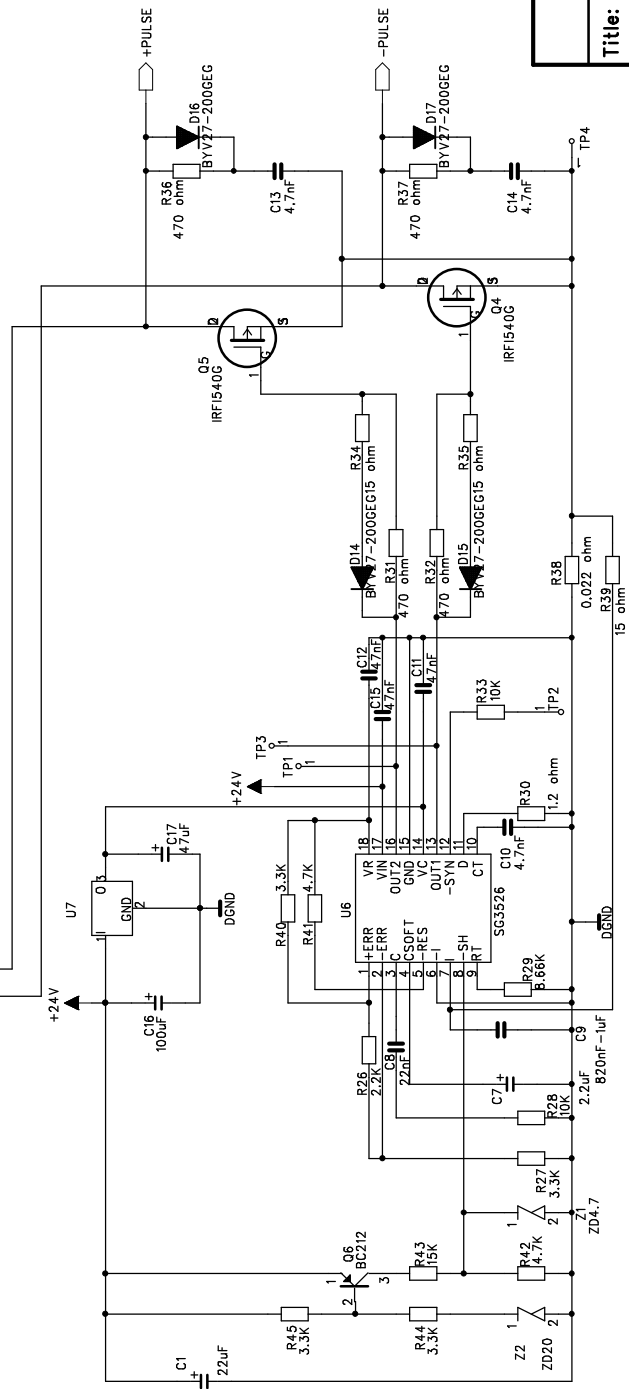




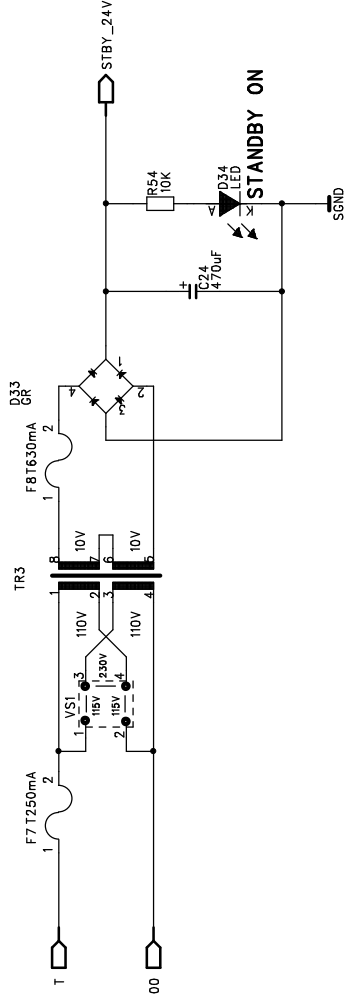
* IT IS WIRED CONNECTION. NOT PRINTED.

P5 D3 PY2 D4 D10 ARE NOT USED

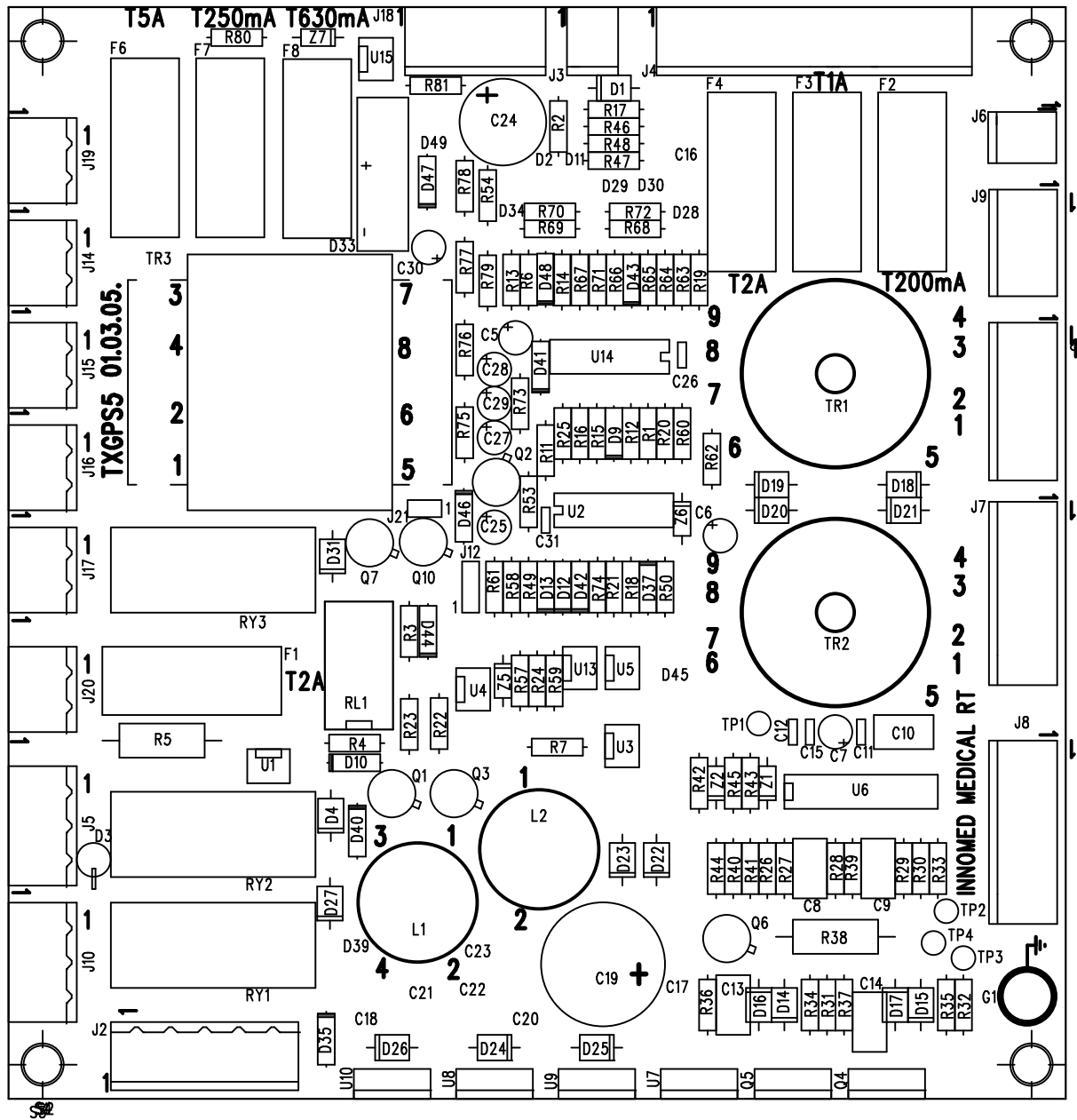
44 THESE ELEMENTS ARE ON THE SOLDERING SIDE OF THE BOARD / NOT IN PRINTED POSITIONS)

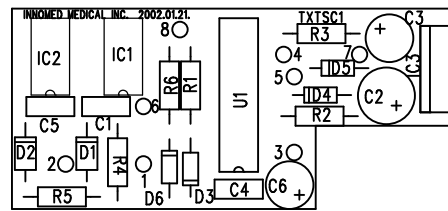


Date: 04.03.01.	Sheet Name:	PWS
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INNOMED			
Title: GENERATOR POWER SUPPLY			
Dokument Number: TXGPS502.SCH		Sheet Number: 4 of 4	
Date: 04.03.01.		Sheet Name: STANDBY PWS	





TXGPS502.BOM					
Bill Of Materials for txgps502.sch on 2004.03.01.					
Ite	QTY	Reference	Value	Type	Desc.
1	1	U2	HEF4030B or	HCF4030BE or CD4030	
2	2	U7-8		7815-TO220	
3	1	U9		7805-TO220	
4	1	U10		7915-TO220	
5	5	C11-12 C15 C26	47nF	KDPU X7R RM2.5	
		C31			
6	1	C8	22nF	MKT 371 100V 22nF	
7	3	C10 C13-14	4.7nF	MKT 371 400V 4.7nF	
8	1	C9	1uF	MKT 371 63V 1UF	
9	4	C25 C27-29	10uF	THGS 25V 10UF	
10	1	C5	1uF	THGS 25V 1UF	
11	1	C7	2.2uF	THGS 25V 2.2UF	
12	1	C1	22uF	THGS 35V 22UF	***
13	1	C6	47uF	THGS 25V 47UF	
14	5	C18 C20-22 C30	100uF	THGS 25V 100UF	
15	1	C16	100uF	THGS 35V 100UF	
16	1	C23	220uF	THGS 10V 220UF	
17	1	C24	470uF	THGS 40V 470UF	
18	1	C17	47uF	THGS 25V 47UF	
19	1	C19	2200uF	THGS 16V 2200UF	
20	10	D14-23		BYV27-200 GEG	
21	7	D1 D24-27	1A 100V	1N4001	
		D31 D50			
22	14	*D5 D9 D12-13		1N4148	*
		D35 D37 D40-44			
		D46-48			
23	1	D33		B80C1500\1000 FL	
24	1	RL1	HE721C2400	HAMLIN	
25	1	F3	T1A 5X20		
26	1	F2	T200mA 5X20		
27	2	F1 F4	T2A 5X20		
28	1	F6	T5A 5X20		
29	1	F7	T250mA 5X20		
30	1	F8	T630mA 5X20		
31	1	L2	INDUCTANCE 05	IND05301.SCH	INNOMED
32	1	L1	INDUCTANCE 15	IND15301.SCH	INNOMED
33	9	D2 D11 D28-30	LED	LTL 4211 N ROT	
		D34 D39 D45			
		D49			
34	1	U14		LM324	QUAD OP AMP
35	1	G1	M4X15mm CU SCREW	M4 GROUNDING SCREW	
36	2	Q4-5	IRFI540G, IRF540FI		
37	3	Q1 Q3 Q7	BC182		
38	1	TR3	20V	PF6-20 or 3FL20-300	MICROTRAN
				or FP20-300	MAGNETEK
39	3	Q2 Q6 Q10	BC212		
40	1	D3			NOT USED
41	1	R7	6.8K	MR25 1% 0.6W	
42	1	R38	0.022 or 0.033 ohm	350-8 10% 5W	
43	1	R5			NOT USED
44	1	R30	1.2 ohm or 1.0 ohm	MR25 1% 0.6W	
45	1	R46	1.8K	MR25 1% 0.6W	
46	1	R13	100 ohm	MR25 1% 0.6W	
47	6	R6 R19-20 R25	100K	MR25 1% 0.6W	
		R64 R77			
48	11	R1 R22 R28 R33	10K	MR25 1% 0.6W	
		R54 R63 R71			
		R73 R75-76 R21			
49	3	R34-35 R39	15 ohm	MR25 1% 0.6W	
50	2	R43 R65	15K	MR25 1% 0.6W	
51	1	R78	180K	MR25 1% 0.6W	
52	4	R23 R53 R61-62	1K	MR25 1% 0.6W	
53	1	R79	1M	MR25 1% 0.6W	
54	3	R3 R26 R69	2.2K	MR25 1% 0.6W	
55	6	R2 R11 R15 R18	20K	MR25 1% 0.6W	
		R49 R70			

56	1	R72	220K	MR25 1%	0.6W	
57	7	R16 R24 R27	3.3K	MR25 1%	0.6W	
		R40 R44-45 R57				
58	2	R68 *R100	33K	MR25 1%	0.6W	*
59	7	R41-42 R47-48	4.7K	MR25 1%	0.6W	
		R58-59 R74				
60	6	R31-32 R36-37	470 ohm	MR25 1%	0.6W	
		R60 R80				
61	1	R67	470K	MR25 1%	0.6W	
62	3	R17 R50 R66	5.1K	MR25 1%	0.6W	
63	1	R4	5.6K	MR25 1%	0.6W	
64	2	R12 R14	51K	MR25 1%	0.6W	
65	2	R81	8.2K	MR25 1%	0.6W	
66	2	R29	8.66K	MR25 1%	0.6W	
67	2	RY1,3		SCHRACK RP420024		
68	2	J3 J6		26-48-1025 09-50-3021	MOLEX	
69	6	J14-17 J19-20		MSTBVA 2.5/2-G-5.08		
				MSTB 2.5/2-ST-5.08		
70	2	J5 J10		MSTBVA 2.5/3-G-5.08		
				MSTB 2.5/3-ST-5.08		
71	1	J12	JUMPER	PH1-025/057-03		
72	1	J9		26-48-1045 09-50/3041	MOLEX	
73	1	J2		MSTBVA 2.5/5-G-5.08		
				MSTB 2.5/5-ST-5.08		
74	1	J18		26-48-1055 09-50-3051	MOLEX	
75	1	J11		26-48-1065 09-50-3061	MOLEX	
76	2	J7-8		26-48-1075 09-50-3071	MOLEX	
77	1	J4		26-48-1125 09-50-3121	MOLEX	
78	1	U1		PS2506		
79	2	U4 U13		PS2501		
80	3	U3 U5 U15		PS2502		
81	1	U6	SG3526N	or UC3526AN		
82	4	TP1-4	TEST POINT	PH1-025/057-01		
83	1	TR1	TRANSFORMER 15	TRS15301.SCH	INNOMED	
84	1	TR2	TRANSFORMER 05	TRS05301.SCH	INNOMED	
85	1	VS1	D=0.5mm INSULATED	WIRE	INNOMED	
86	1	Z6	ZD2.4	ZD 0.5W 2.4V		
87	1	Z2	ZD20	ZD 0.5W 20V		
88	1	Z5	ZD24	ZD 0.5W 24V		
89	1	Z1	ZD4.7	ZD 0.5W 4.7V		
90	1	Z7	ZD10	ZD 0.5W 10V		
91	1	J1	JUMPER	PH1-025/057-02		
92	45	CONTACT	CRIMCONTACT	08-50-0106	for J3-4, J6-9	
					J11, J18	
93	7	FUSE HOLDER		OGN0031.8201/		
				0853.0551		
94	4	2 PAIR	FERRITE	18X11 AL 2800 M2F	EM	
				N26, N30 OPTIMAL	for L1, L2	
95	4	2 PAIR	FERRITE	28X23 AL 5400 M2F	EM	
				NORMAL	for TR1, TR2	
96	1	HEATSINK		for Q4,5 U7...10	INNOMED	
97	1	PRINTED	BOARD	TXGPS5 01.03.05.	HITELAP	
98	1	RY2			NOT USED	
99	2	D4 D10			NOT USED	
100	1/3	CC1 - CC8	CONTACT	SH 17-500ZZ	**	
101	1	PRINTED	BOARD	TXTSC1 02. 01. 21.	INNOMED **	

Use of capacitors with voltage higher than specified is allowed.

(If the place is enough.)

Use of Zener diode with higher power is allowed.

* R100 and D5 are on the soldering side of the board.

(There are not in printed positions.)

** TXTSC1 board is mounted on CC1 - CC8 contacts.

*** In case of U4=UC3526AN

TXTSC100.BOM					
Bill Of Materials for txtsc100.sch on 2002.03.01.					
Ite	QTY	Reference	Value	Type	Desc.
1	1	U1		HE4502 HEF4502	
				MC14502	
2	1	IC3		7815-TO220	
3	2	IC1 IC2		MIC4452BN	MICREL
4	2	D1 D2		BYV27-100	
5	3	C1 C4 C5	100nF	100nF/63V MKS2 N3	WIMA
6	2	C3 C6	100uF	THGS 25V 100uF	
7	1	C2	100uF	THGS 35V 100uF	
8	4	D3 D4 D5 D6		1N4148	
9	2	R1 R2	4.7K	MR25 1% 0.6W	
10	3	R3 R5 R6	10K	MR25 1% 0.6W	
11	1	R4	2.2K	MR25 1% 0.6W	
12	1	H1	HEATSINK	for IC3	INNOMED
13	1	PRINTED	BOARD	TXTSC1. 02.01.21	HITELAP
14	1/3	1 - 8	CONTACT	PH 025/057-40ZG	
Use of capacitors with voltage higher than specified is allowed. (If the place is enough.)					