

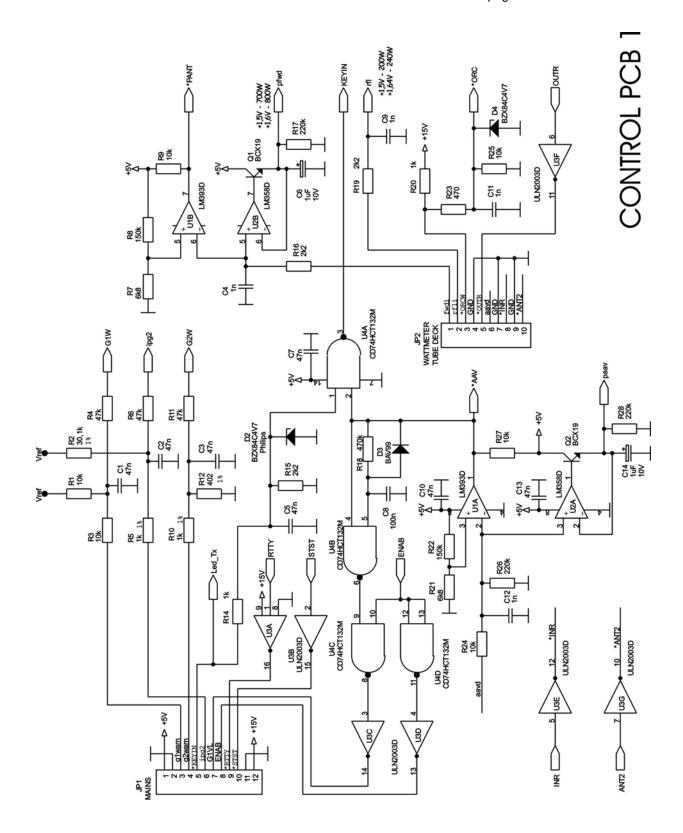
Exhibit 4: Schematics

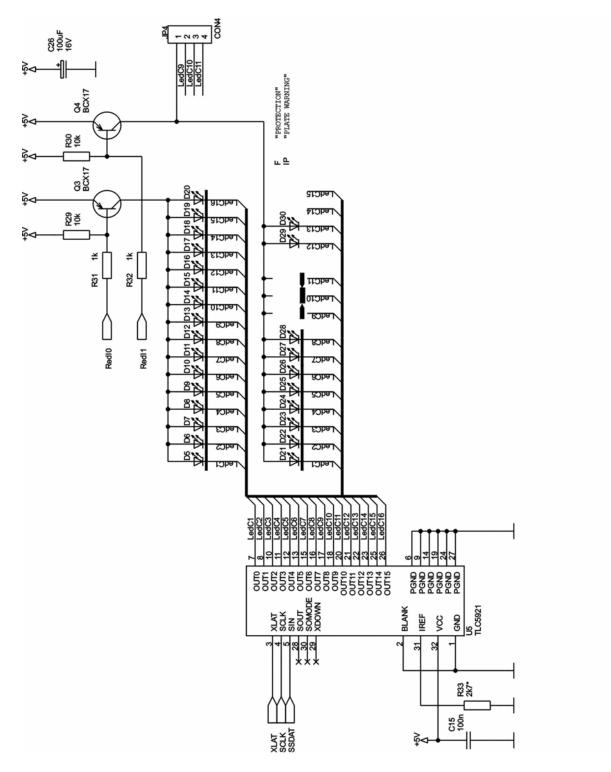
External Radio Frequency Power Amplifier ACOM 1010

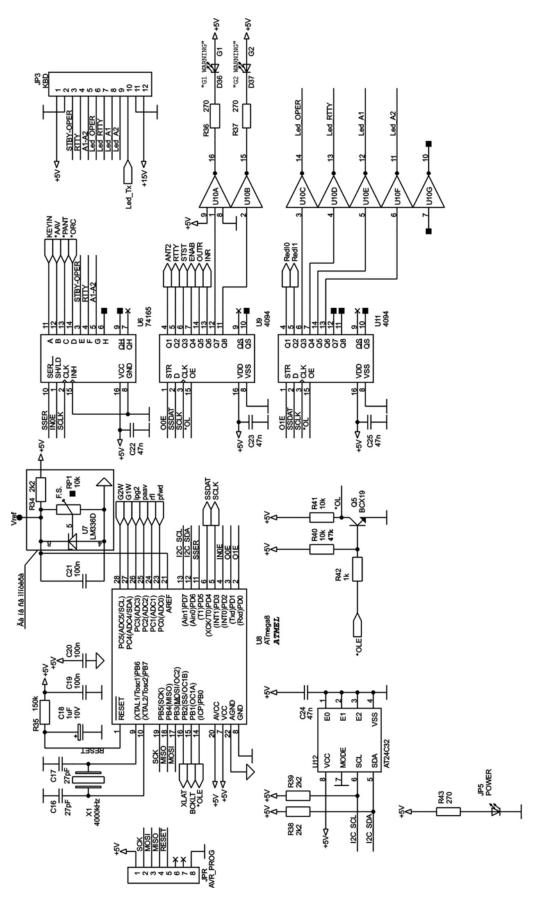
Model 1010

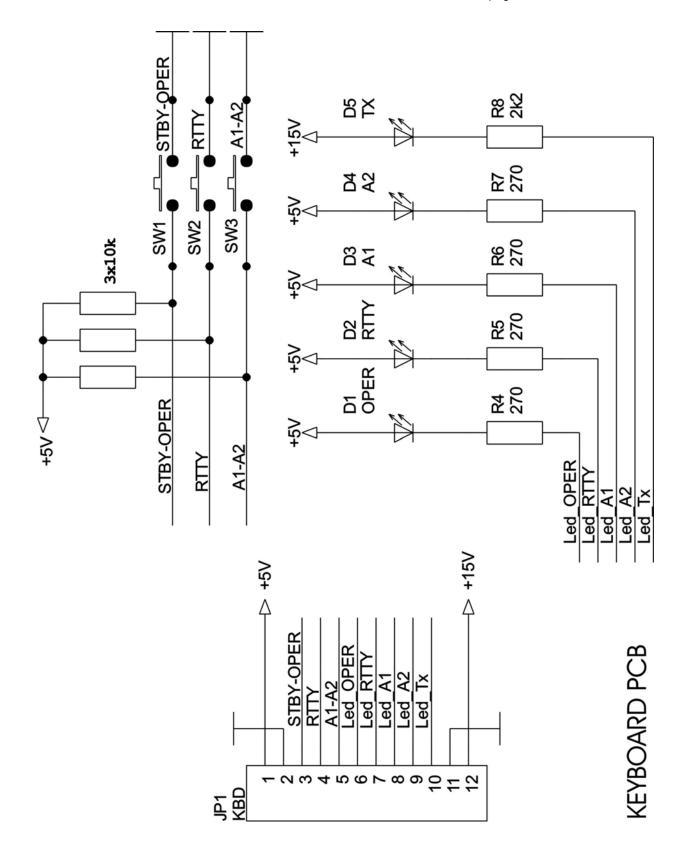
71 West street Medfield, MA 02052 Tel: 508 359 5990

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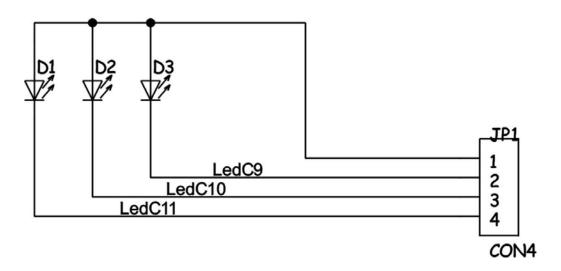


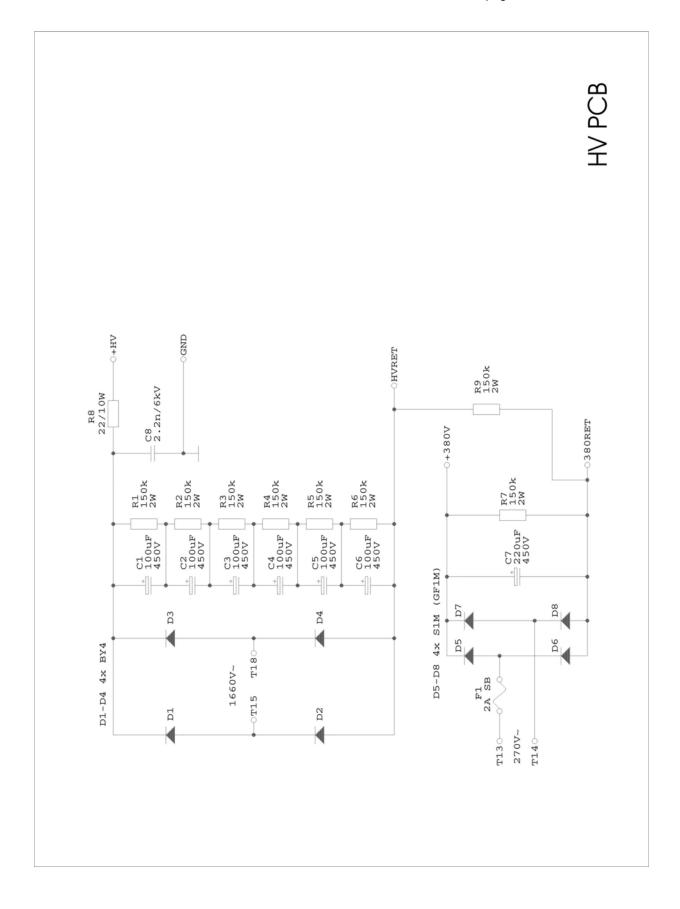


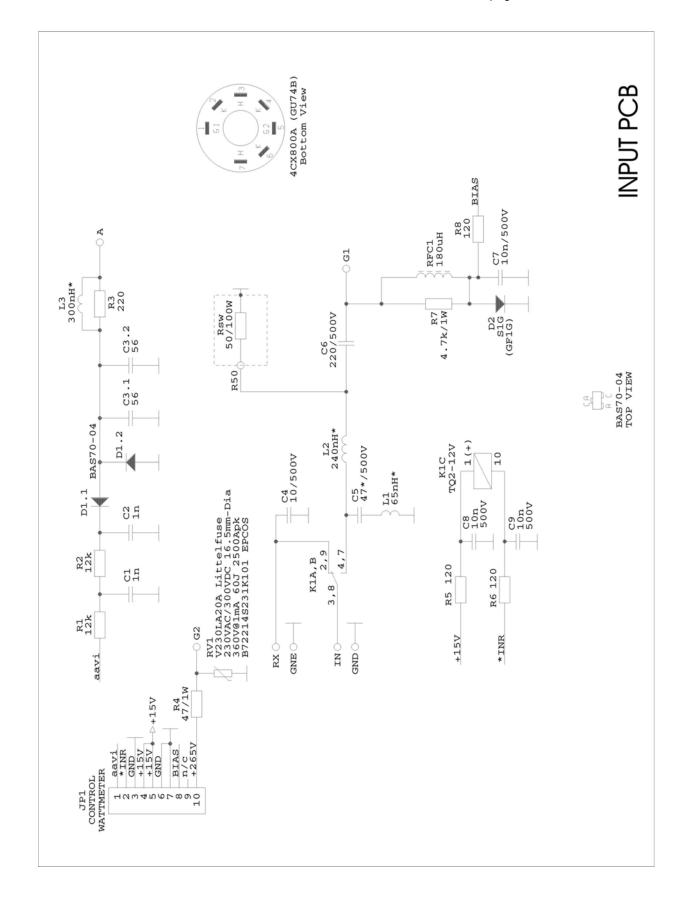


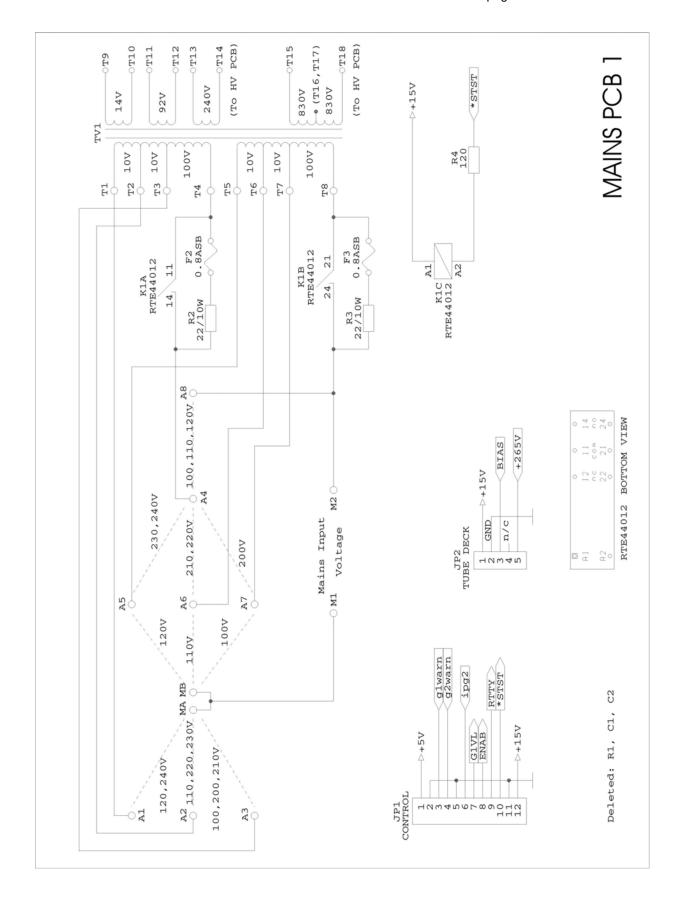


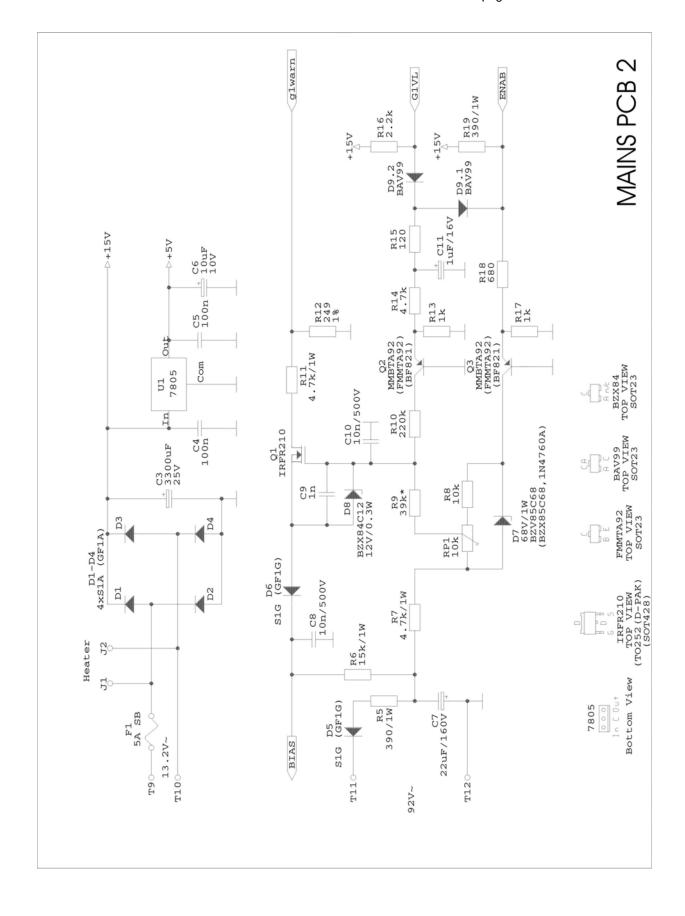
TRI LED PCB

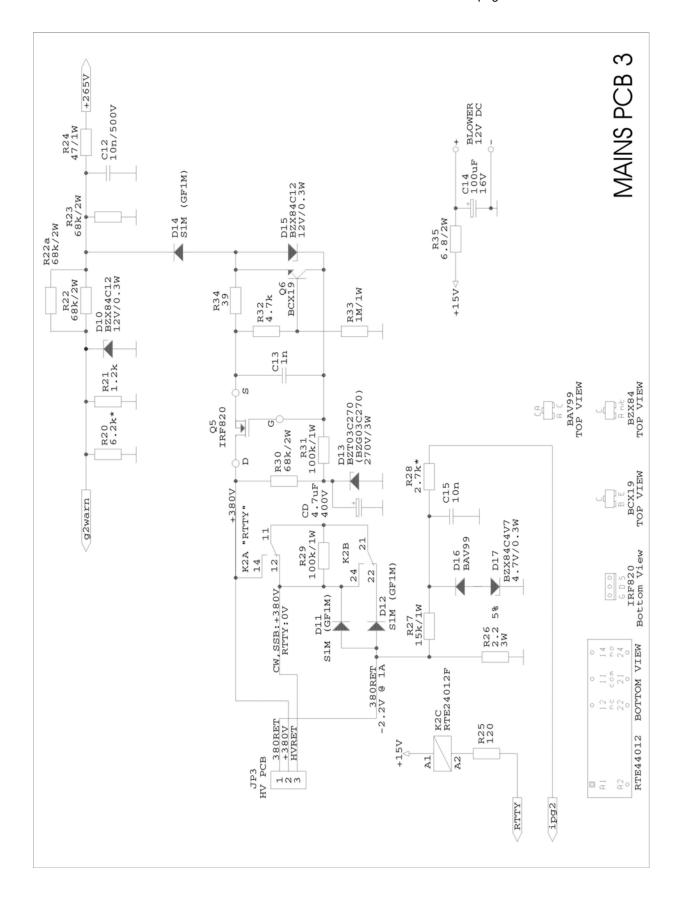


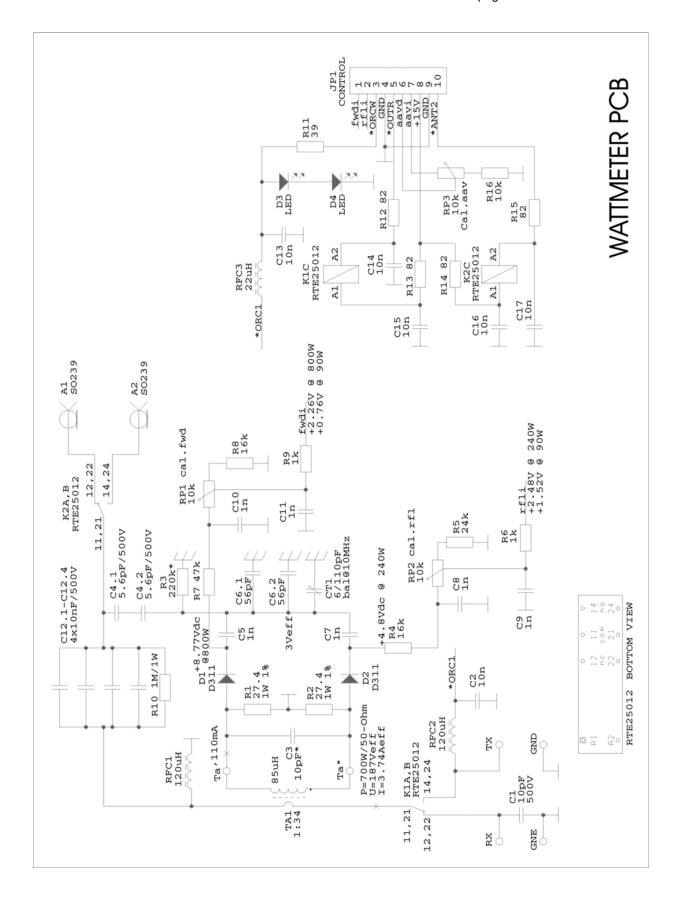












Cable Harness Connections:

CONTROL JP1	Signal name	To:
1	+5V	MAINS JP1:1
2	GND	MAINS JP1:2
3	g1warn	MAINS JP1:3
4	g2warn	MAINS JP1:4
5	*KEYIN	Rear panel - KEYIN
6	ipg2	MAINS JP1:6
7	G1VL	MAINS JP1:7
8	ENAB	MAINS JP1:8
9	RTTY	MAINS JP1:9
10	*STST	MAINS JP1:10
11	GND	Rear panel - KEYIN
12	+15V	MAINS JP1:12
CONTROL JP2	Signal name	To:
1	fwdi	WATTMETER JP1:1
2	rfli	WATTMETER JP1:2
3	*ORCW	WATTMETER JP1:3
4	GND	WATTMETER JP1:4
5	*OUTR	WATTMETER JP1:5
6	aavd	WATTMETER JP1:6
7	GND	INPUT JP1:6
8	*INR	INPUT JP1:2
9	GND	-
10	*ANT2	WATTMETER JP1:10
		<u> </u>
MAINS JP1	Signal name	To:
1	+5V	CONTROL JP1:1
2	GND	CONTROL JP1:2
3	g1warn	CONTROL JP1:3
4	g2warn	CONTROL JP1:4
5	GND	-
6	ipg2	CONTROL JP1:6
7	G1VL	CONTROL JP1:7
8	ENAB	CONTROL JP1:8
9	RTTY	CONTROL JP1:9
10	*STST	CONTROL JP1:10
11	GND	-
12	+15V	CONTROL JP1:12
MAINS JP2	Signal name	То:
1	+15V	INPUT JP1:5
2	GND	INPUT JP1:3
3	BIAS	INPUT JP1:8
4	n/c	-
4		
5	+265V	INPUT JP1:10
		INPUT JP1:10 To:
5	+265V	
5 INPUT JP1	+265V Signal name	To:

Cabl	e Harness Connections (conti	nued):
4	+15V	WATTMETER JP1:8
5	+15V	(MAINS JP2:1
6	GND	(CONTROL JP2:7)
7	GND	WATTMETER JP1:9
8	BIAS	(MAINS JP2:3)
9	n/c	-
10	+265V	(MAINS JP2:5)
		·
WATTM. JP1	Signal name	To:
1	fwdi	(CONTROL JP2:1)
2	rfli	(CONTROL JP2:2)
3	*ORCW	(CONTROL JP2:3)
4	2	
4	GND	(CONTROL JP2:4)
5	GND *OUTR	(CONTROL JP2:4) (CONTROL JP2:5)
5	*OUTR	(CONTROL JP2:5)
5 6	*OUTR aavd	(CONTROL JP2:5) (CONTROL JP2:6)
5 6 7	*OUTR aavd aavi	(CONTROL JP2:5) (CONTROL JP2:6) (INPUT JP1:1)

End