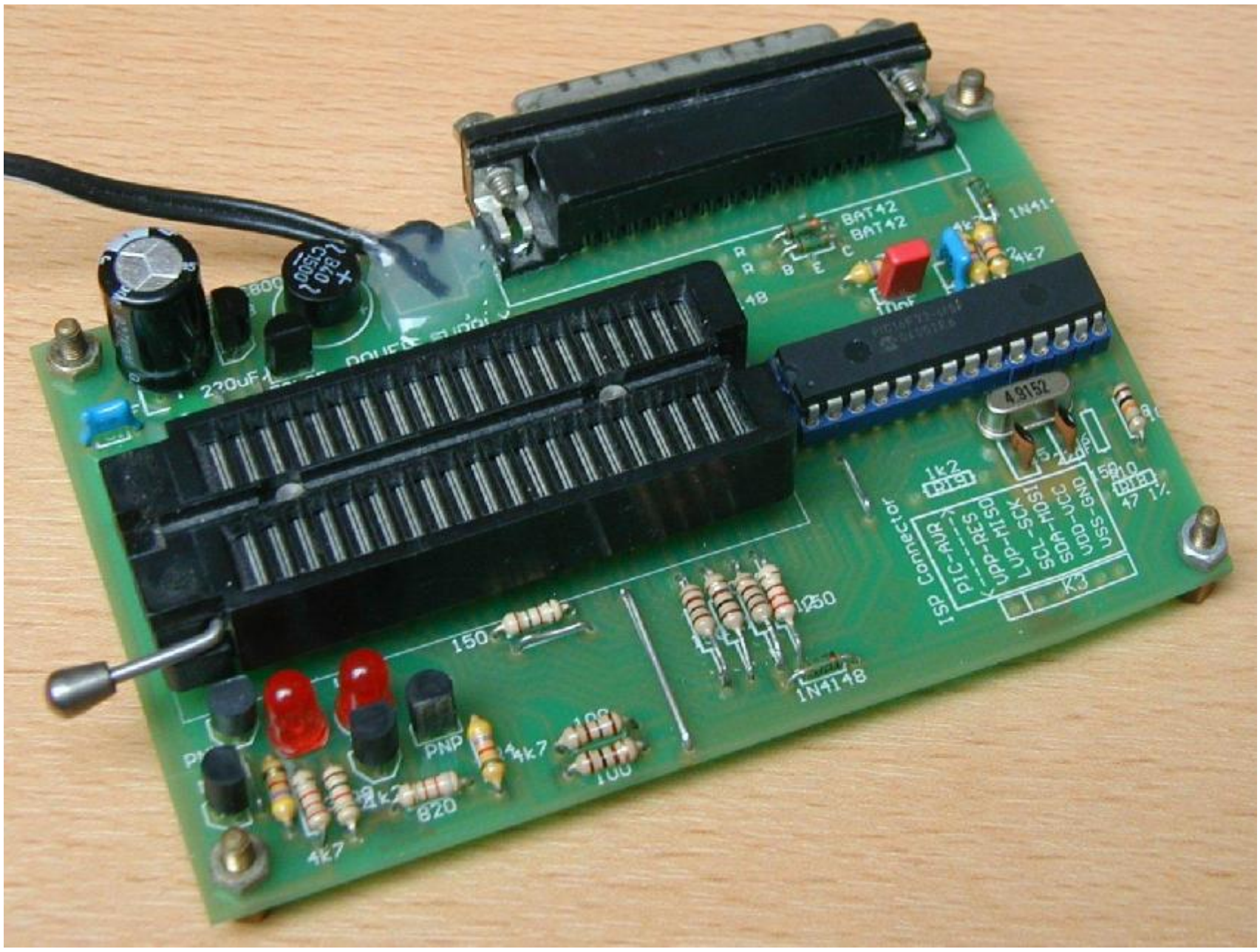
PICALL ver 3.7



PICALL Assembling and Testing

Please, follow the next steps!!!:

1. Place all elements on PCB (except PIC16F62)
2. Please, check if everything is connected properly.
3. Connect PICALL to the voltage 16-30V DC or 12-18V AC.
4. Check the VCC voltage is 5V and VPP is 13V.
5. Connect PICALL hardware (without PIC16F72) to PC's printer Port direct (without switch box) with direct 25M/25M.
6. Run PICALLW.EXE and go to menu Settings Hardware PICALL Test or run PICALL hardware test program TEST-ALL.EXE (included with DOS version of PICALL software
    a. If everything is OK you should get CableTest without errors (communication test will show you errors).
    b. If TEST-ALL can't find PICALL hardware automatically you should try: TEST-ALL [LPT number]
    c. If the cable test is not OK then try to change R2 and R6 8200 Ohms and cerefully test the connection to PCs LPT again.

7. Disconnect PICALL from PC.

8. Disconnect PICALL from the voltage.

9. Insert PIC16F62 into the socket.

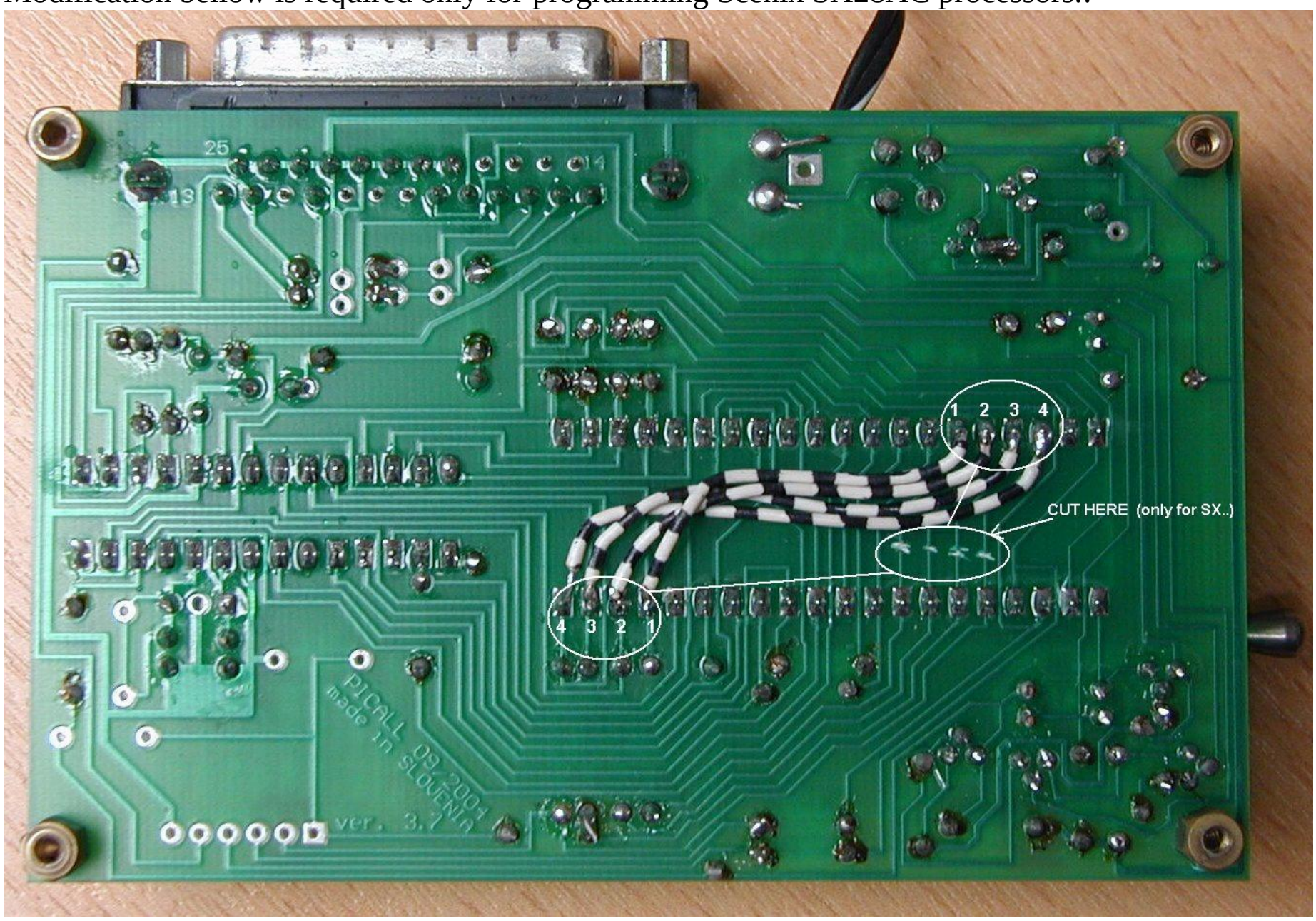
10. Connect the PICALL to PCs LPT port via direct 25M/25M cable.

11. Turn on the power for PICALL. Run PICALLW.EXE and go to menu Settings Hardware PICALL Test or run PICALL hardware test program TEST-ALL.EXE (included with DOS version of PICALL software). In problem case please run TEST-ALL in DOS mode.

12. Run also short-circuits test <H>; If there is a problem, test program shows which PIN(s) are connected to ground (soldering problem) or with another PIN. Check this PIN (look at the hardware scheme and follow the lines on the PCB...)

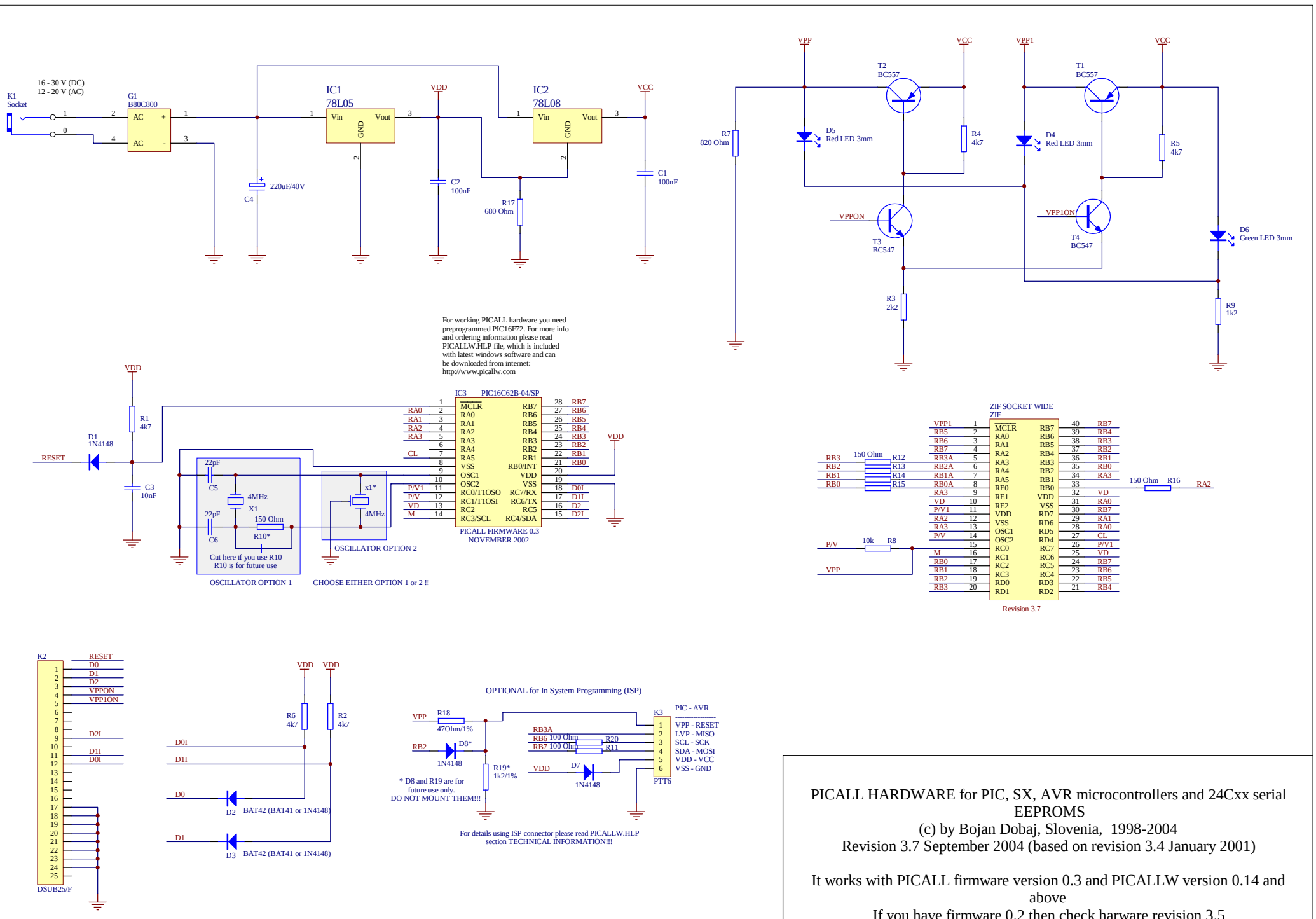
13. Now if the test program returns no errors, you are ready to use PICALL.

Modification bellow is required only for programming Scenix SX28AC processors..



USED MATERIAL:

Part	Used	PartType	Designators
1	3	1N4148	D1 D7 D8*
2	1	1k2	R9
3	1	1k2/1%	R19*
4	1	2k2	R3
5	2	4MHz	X1 x1*
6	5	4k7	R1 R2 R4 R5 R6
7	1	10k	R8
8	1	10nF	C3
9	2	22pF	C5 C6
10	1	47Ohm/1%	R18
11	1	78L05	IC1
12	1	78L08	IC2
13	2	100 Ohm	R11 R20
14	2	100nF	C1 C2
15	6	150 Ohm	R10* R12 R13 R14 R15 R16
16	1	220uF/40V	C4
17	1	680 Ohm	R17
18	1	820 Ohm	R7
19	1	B80C800	G1
20	2	BAT42 (BAT41 or 1N4148)	D2 D3
21	2	BC547	T3 T4
22	2	BC557	T1 T2
23	1	DSUB25/F	K2
24	1	Green LED 3mm	D6
25	1	PIC16C72/SP	IC3
26	1	PTT6	K3
27	2	Red LED 3mm	D4 D5
28	1	Socket	K1
29	1	ZIF SOCKET WIDE	ZIF



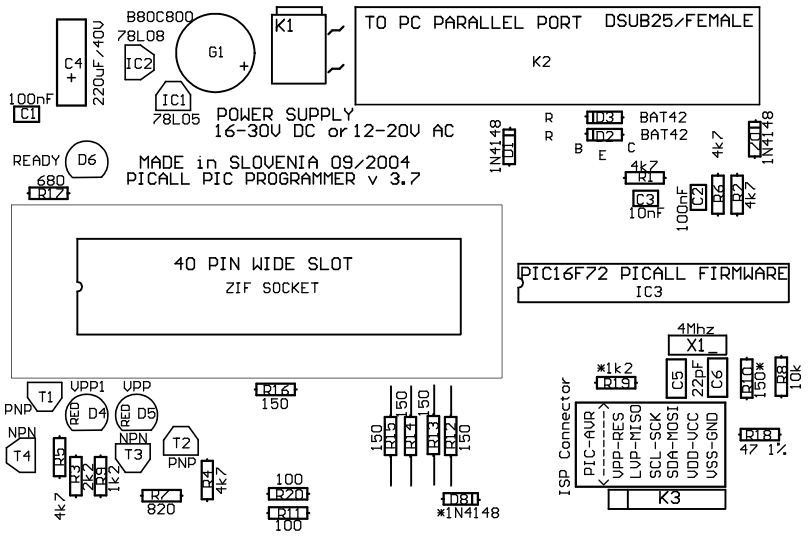
PICALL HARDWARE for PIC, SX, AVR microcontrollers and 24Cxx serial EEPROMS

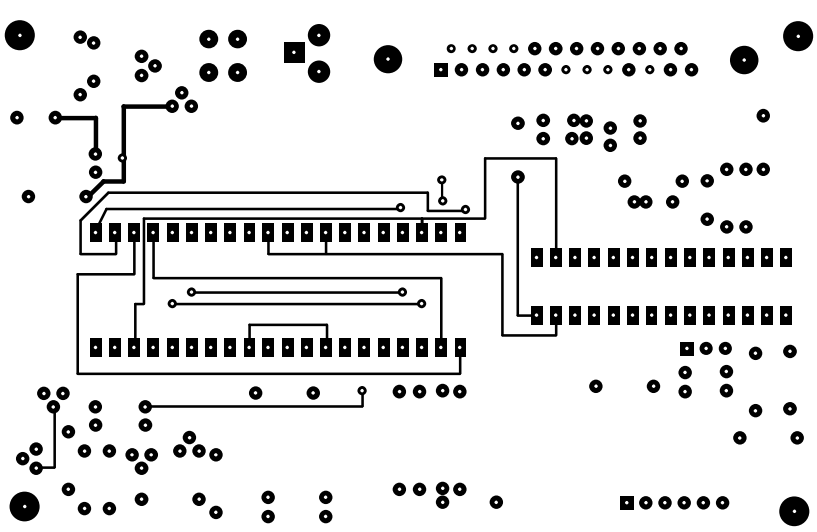
(c) by Bojan Dobaj, Slovenia, 1998-2004

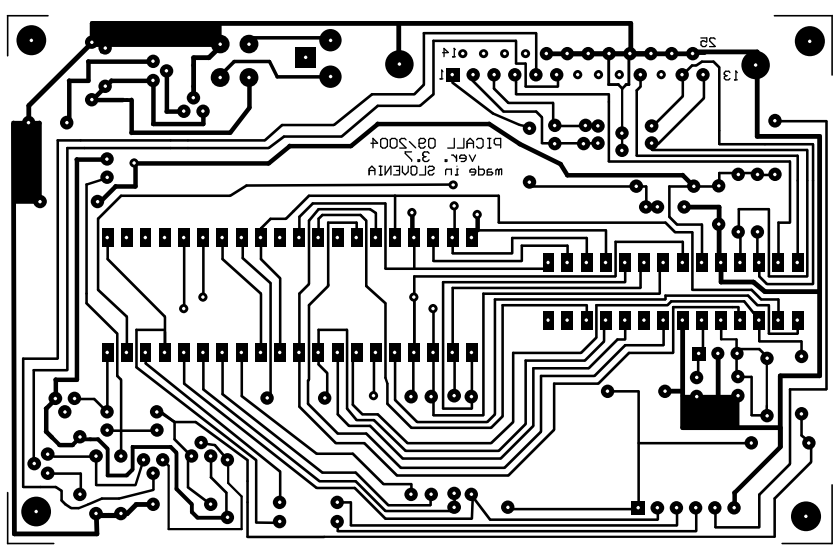
Revision 3.7 September 2004 (based on revision 3.4 January 2001)

It works with PICALL firmware version 0.3 and PICALLW version 0.14 and above

If you have firmware 0.2 then check harware revision 3.5


B80C800
78L08
IC2
G1
K1
TO PC PARALLEL PORT DSUB25/FEMALE
K2
C4
220uF/40V
100nF
C1
IC1
78L05
POWER SUPPLY
16-30V DC or 12-20V AC
READY
D6
680
R17
MADE in SLOVENIA 09/2004
PICALL PIC PROGRAMMER v 3.7
1N4148
D10
R
R
D3
D2
BAT42
BAT42
B
E
C
4k7
R1
C3
10nF
100nF
C2
R2
4k7
1N4148
40 PIN WIDE SLOT
ZIF SOCKET
PIC16F72 PICALL FIRMWARE
IC3
4Mhz
X1
*1k2
R19
C5
22pF
C6
R10
150*
R8
10k
R18
47
1%
ISP Connector
PIC-AUR
VPP-RES
LVP-MISO
SCL-SCK
SDA-MOSI
VDD-VCC
VSS-GND
K3
T1
PNP
VPP1
VPP
D4
D5
RED
RED
R16
150
T4
NPN
T3
NPN
T2
PNP
R3
4k7
R5
1k2
R6
820
R4
4k7
100
R20
R11
100
150
R15
50
R14
50
R13
R12
150
D8
*1N4148




PICALL 09/2004
ver. 3.7
made in SLOVENIA