

myPinballs 80B CPU Information & Setup

Thanks for buying one of our pinball boards. We hope you enjoy using our product.

Before you plug in your new CPU board please make sure the following game upgrades and checks have been made. Plugging a new CPU board into a game of unknown condition may damage your new board and void any warranty

- 1) Good solid and stable 12V input to 5V regulator.
- 2) New 12V capacitor on transformer assembly fitted.
- 3) 5V regulator serviced and upgraded to a fixed 5V supply and tested to be in range of 4.95 - 5.05V
- 4) All game ground updates performed as documented on all good pinball repair websites

DIP Switches - SW1 - SW4

The dip switch settings on this board have been optimised for best use and simplification. Gottlieb originally included 15 switches for coin control, which is not needed for home use. The board comes as standard with 1 credit per coin functionality enabled. An optional extra is available to upgrade your board for all switches if required.

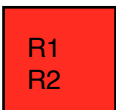
Standard Config is:

S 7 soldered in
S 23 soldered in

S 25-32 - user set with 8 way dip switch

*See Appendix 1 for layout of switches

ROM Settings - SW5



1 on for 2732 sized ROM 2
2 on for 2716 sized ROM 2

Game Settings

SW8 Jumper in for NC slam override. This means you don't need to use the cabinet wiring for NC slam sw games. All boards come with this switch populated. If your game uses a NO slam switch, simply cut the jumper.

Test Pads & Troubleshooting

Should you need to test the board in the future the following test points are included:

TP1 : +5V - Red LED
TP2 : GND
TP3 : Reset - Green LED
TP4 : Clock
TP5 : IRQ
TP6 : R/W
TP7 : Reset 2 (Not currently used)

*A Leon Test LED is also included on the board for use with the LEON test rom (and other derivatives of this rom). This greatly helps diagnosis and fix of suspect RIOT chips, CPU chips and Memory problems. The Test rom is plugged in to IC8.

Switch Matrix Shorts

If you accidentally short the switch matrix to a higher voltage such as the lamp or coil voltage then you may damage the switch matrix buffers and other parts. It is best to make adjustments with the game switched off.

If you need to replace the switch buffers then we offer service kits. Please contact us if you need one. The switch matrix ics are as follows:

IC14 & IC15 - 74HCT00 - Switch Row Buffers (sacrificial)
IC37 - 74HCT240 - Switch Column Strobe Driver
IC9 - Switch Matrix RIOT IC

Batteries

None of our board revisions use batteries so there is no need add any remote battery packs or cell batteries. Board revisions upto rev 6 used sealed lithium timekeeper memory packs. From rev 7 onwards the board uses Ramtron Nvram ics.

Appendix 1: Layout of DIP Switches for rev3 to rev8 cpu board

S1
S2
S3
S4
S5
S6
S7
S8



S9
S10
S11
S12
S13
S14
S15
S16



S17
S18
S19
S20
S21
S22
S23
S24



S25
S26
S27
S28
S29
S30
S31
S32

