PI-1X4 Pinball Board Setup

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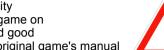


v1.10 Eng

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IMPORTANT PRELIMINARY INSTRUCTIONS PRIOR TO INSTALLING THE BOARD:

- The pinball game must be turned off and unplugged from outlet before removing/installing any board
- The electronic boards must be handled by their edges to reduce the risk of damage through static electricity
- The AC cord must be in good shape and imperatively plugged into a grounded outlet before turning the pinball game on
- All displays must be in perfect working condition, <u>all coils and their respective diodes</u> must have been checked good
 All fuses must have been checked and strictly comply to game's prescriptions (rating -in amperes- and blowing speed) in the original game's manual



• Pins of <u>all</u> connectors around boards A1 (CPU) A2 (power supply) and A3 (driver) must be <u>clean and corrosion-free</u>

INSTALLING THE BOARD IN A GAME IN UNKNOWN CONDITION WILL VOID THE GUARANTEE

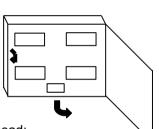
STEP 1

Open the top head, with the key on the left hand side. The wooden frame, that holds the backglass, swings to the right, unveiling the displays.

STEP 2

STEP 3

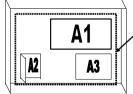
Pull the handle and the wooden panel holding displays and lamps will swing to the right.



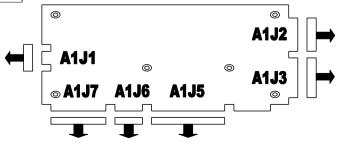
Locate the 3 boards already present in the head:

- The main board (A1), the biggest one
- The power supply board (A2), the smallest on the bottom left corner, affixed to a metal bracket
- The lamps & coils driver board (A3), on the bottom right corner

The PI-1 X4 board will replace all 3 boards.



STEP 4 On board A1, locate the 6 connectors plugged on the sides. Write down the way they are inserted, then remove them following the arrows below: pull on the <u>plastic case</u> of the connector, <u>and not on the wires</u>!



STEP 5

The board **A1** is fastened to the head by 6 nylon spacers, each equipped with a little « clip » tip. With your fingertips (or flat pliers), gently push onto each « clip » then pull the board towards you. Once the 6 « clips » are released, the board can be easily removed by pulling it by its edges. Advice: remove the back-up battery in the center, to avoid further leakage, and recycle it with regular batteries.

STEP 6 (manual: step 8-X4)

In the same way as for the **A1** board at step 5, locate on the **A3** board its 5 connectors :

- A3J1 (center top) : to the main board A1
- A3J5 A3J4 A3J3 and A3J2 (from left to right) bottom side: to the playfield

Write down the way they are inserted, then remove them following the arrows above: pull on the **plastic case** of the connector, **and not on the wires**!

STEP 7 (manual: step 9-X4)

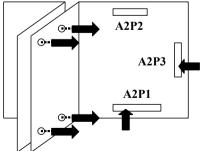
Locate on the A2 board the 3 male header connectors:

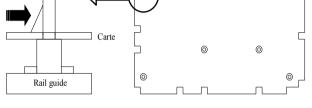
- A2P1 (bottom side) : to the transformers and fuses assembly in the cabinet
- A2P2 (top side) : to former A1 board
- A2P3 (right side) : to the displays

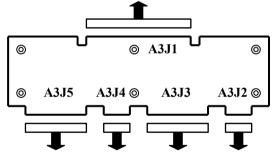
Write down the way they are inserted, especially the green ground wire (or black on some Cleopatra, Sinbad and Joker Poker games) on **A2P1 pin 3** and **A2P3 pin 5**, then remove

them by pulling on the **plastic case** of the connector, **and not on the wires**!

Then remove the board by unscrewing the 4 screws that hold it to its metal bracket.







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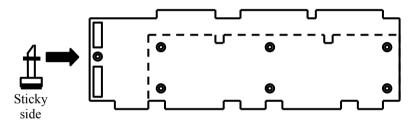
STEP 8 (manual: step 10-X4)

Take the PI-1 X4 board out of its antistatic bag.

 Store this bag in a safe place, in case the board should be returned for maintenance!

The PI-1 X4 board fits exactly in the old A3 board's space, but on its 6 spacers. In the 7th mounting hole on the center left, first insert the provided adhesive nylon spacer.

Peel the protective film off the sticky side, then insert the PI-1 X4 board on the 6 spacers, and firmly press on the 7th spacer to make it stick to the metal backplate of the head:

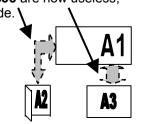


Then re-insert all the connectors of the former A1, A2 and A3 boards as follows, clockwise from top left corner:

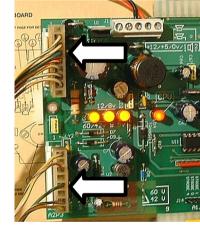
- A2P1 with a 90° clockwise turn (refer to the arrow showing the green -or black- ground wire as identified at previous step 7)
- A1J7 with a 180° turn ٠
- A1J2 and A1J3, with a 180° turn and aligned
- A3J2 A3J3 A3J4 and A3J5, aligned
- A1J6
- and finally A2P3, same orientation, on the bottom left corner . (as for A2P1, refer to the arrow showing the green -or blackground wire as identified at previous step 7)

There is no possible risk of mistake or confusion of the connectors: each connector has its own specific size, and some have notches (blockers), making mix-ups impossible.

Connection harnesses A2P2-A1J1 and A1J5-A3J3 are now useless. to be put aside.



Double-check the location and position of each connector on the following PI-1 X4 board overview, once the board is installed in the game's front head:



Here is an overview of the power supply section:

- connector A2P1 on top left corner (note the green -or black- ground wire position)
- connector A2P3 on bottom left corner (note the green -or black- ground wire position)

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- the nylon spacer between those 2 connectors
- the 3 status LEDs: +60V/+42V, +12V/+8V, +5V
- the CPU activity LED (to the right)
- the loudspeaker cable connected to audio output #1 on the screw-clamp connector J1 (optional connection, refer to manual: step 11-X4)

The board is now installed! Remain to be done: connecting the loudspeaker(s), and setting menus language upon 1st power-up.

GAME SELECTION

The full name of the selected game and its identifier (letter) are displayed for 5 seconds:

- PLAYER1 display: « GAME » + letter from « A » (Cleopatra) to
- « S » (Asteroid Annie) and derivative kit games with a leading « + » • PLAYER3/PLAYER4 displays: game's name in full

To change the game, press the white **[TEST]** button located inside the front coin door within 5 seconds of power-up, whilst the game name is being displayed: the PLAYER1 display then flashes. Every time [TEST] is pressed, the next game in the list is displayed (as listed on the manual's cover page). To select the game displayed, press the red [CREDIT] button (the one that starts a game) on the

front of the coin door. By default the game displayed will be automatically selected 5 seconds after the user last pressed either button.

....Let's flippp !!!

The full manual is available from www.flippp.com

