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PI-80

Board Setup





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 and **A6/A7** (sound) boards 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 all connectors around boards A1 (CPU) A2 (power supply) A3 (driver) and A6/A7 (sound) must be clean and corrosion-free



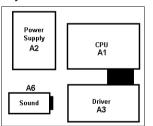


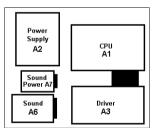
STEP 1

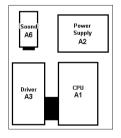
Open the pinball game's front head, with the key on the left or top (latest System80A games) side. Depending on the game, the backglass must be sled upwards then swung towards you, and/or a wooden frame swings to the right, unveiling a wooden panel that holds the displays and the lamps. Pull the handle and the panel will swing to the right, giving access to the boards.

STEP 2

The boards in the front head are installed in one of the following 3 layouts:







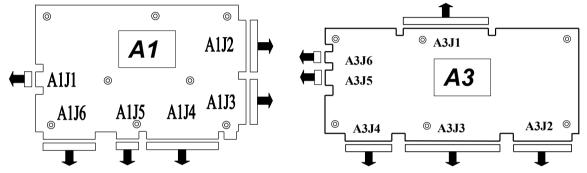
- A1 : the main « CPU » board, the biggest of all
- A2 : the power supply, mounted on a metal plate (heatsink), and connected to the A1 board by a small 4-wire harness
- A3 : the « driver » board that drives coils and lamps, connected to the A1 board by a large wire harness (in black on drawings)
- A6 : the sound board, speech-capable (larger) or not (smaller)
- A7 : the power supply that goes with the speech sound A6

The **PI-80** board will replace the 3 boards **A1 A2 A3**.

STEP 3

Locate, on **A1** and **A3** boards, the 6 connectors plugged on the sides:

- A1 board: connectors A1J1 to A1J6
- A3 board: connectors A3J1 to A3J6



Write down the way they are inserted, then remove them following the arrows above: pull on the **plastic case**, and **not on the wires!** The wire harness between **A1J4** and **A3J1** is no longer used.

STEP 4

Free each « clip » tip (nylon spacers, drawn as circles on the drawings) that hold those 2 boards in place in the front head: with your fingertips (or flat pliers), gently push onto each « clip » then pull the board towards you.

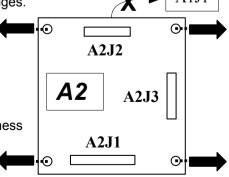
Each board can then be easily removed by pulling it by its edges. Advice: remove the black battery, on the left hand side of CPU A1, to avoid leakage, and recycle it.

STEP 5

Locate, on A2 board, the 3 connectors plugged on its sides :

- A2J1 (bottom side): to the transformers and fuses assy in the cabinet
- A2J2 (top side): to former A1 board by a small wire harness to be removed (no longer used)
- A2J3 (right side) : to the displays

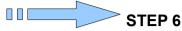
Write down the way they are inserted, then remove them by pulling on the **plastic case**. Then remove the board by unscrewing the 4 screws that hold it to the 2 mounting brackets.



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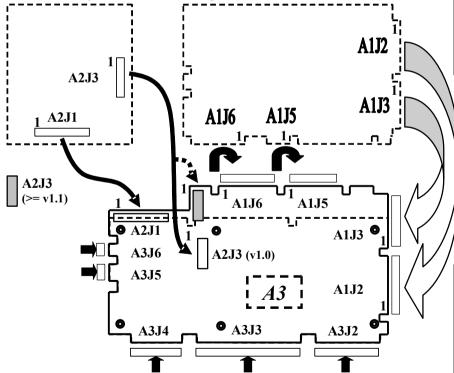
Take the new **PI-80** board out of its antistatic bag. Hold it carefully and from the sides.

• Store this bag in a safe place, should the board be returned!



The board fits exactly in the old **A3** board's space, on its 6 spacers. Then re-insert all connectors of the former **A1**, **A2** and **A3** boards as follows, clockwise from top left corner:

- A2J1, then A2J3 further to the right, same orientation
- A1J6 and A1J5, with a 180° turn and aligned
- A1J3 & A1J2 with a 180° turn and swapped (top: A1J3, bottom: A1J2)
- A3J2, A3J3 and A3J4, aligned, same orientation
- and finally A3J5 and A3J6, aligned, same orientation

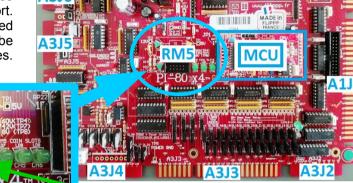


There is no possible risk of mistake or confusion of the connectors: each connector has its own specific size, and some have notches (blockers), making mix-ups impossible.

Note: connection harnesses A2J2-A1J1 and A1J4-A3J1 are no longer used. Double-check the location and position of each connector on the following **PI-80** board overview, once installed:

On some games, the wire harnesses running to **A2J1** and **A2J3** are very short. Some of the white holding clips (screwed on the wooden panel) should then be removed to slacken the wire harnesses.

Upon power-up, the 3 LEDs «12V» «5V» and «60V» must be brightly lit, and the « CPU » LED (on the center MCU board) must be flashing:



Optional coin validator

Comestero RM5 or compatible

GAME SELECTION and SPECIFIC SETTINGS

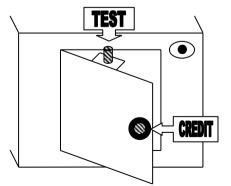
The full name of the selected game and its identifier (the same 3-digit number written on the old « GAME PROMs » of the original CPU board) are displayed for 5 seconds :

- PLAYER1 display: game's identifier = 3-digit « number »
- PLAYER2 display: « SYS80 » or « SYS80A » depending on the series the game belongs to
- PLAYER3/PLAYER4 display: game's name in full

To change the game, press the small **[TEST]** button, located inside the front coin door, within 5 seconds of power-up: the currently selected game flashes.

Every time **[TEST]** is pressed, the next game is displayed in the list of all available games.

To select the displayed game, press the red **[CREDIT]** button. By default, the game displayed will be automatically selected **5 seconds** after the user last pressed either button.



Upon the very first game selection, or in case of game selection change, a menu with the game's specific settings (if any) will be brought up (refer to the manual for each game's specific settings).

The full manual is available from www.flippp.com

...Let's flippp!!!