INSTALLATION GUIDE

Ms. Pac-Man Single Kit

FREE PLAY + HIGH SCORE SAVE KIT | ORIGINAL MS. PAC-MAN ARCADE HARDWARE



MS. PAC-MAN SINGLE KIT INSTALLATION GUIDE

Original Z80 transfer | Pin 1 alignment | **Mandatory row 6 ROM removal** | Settings and Wi-Fi

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Safety and Preparation

Read the complete guide before touching the Ms. Pac-Man PCB or its daughterboards.

POWER OFF AND UNPLUG

Turn the cabinet off and unplug it before removing any connectors, daughterboards, processors, or program ROMs. Allow components to cool and use electrostatic-discharge precautions.

VERIFY THE ORIGINAL GAME WORKS

Confirm Ms. Pac-Man starts and plays correctly before the modification. A HighScoreSaves kit does not repair a faulty original PCB. Photograph the original assembly, ribbon connections, and the orientation of any removable boards.

WHAT THE KIT REQUIRES

One HighScoreSaves Z80 daughtercard and a compatible Z80 CPU. Transfer the original socketed Z80 from the factory Ms. Pac-Man daughterboard, or use a separately sourced compatible Z80. The original PCB needs a compatible 40-pin Z80 socket.

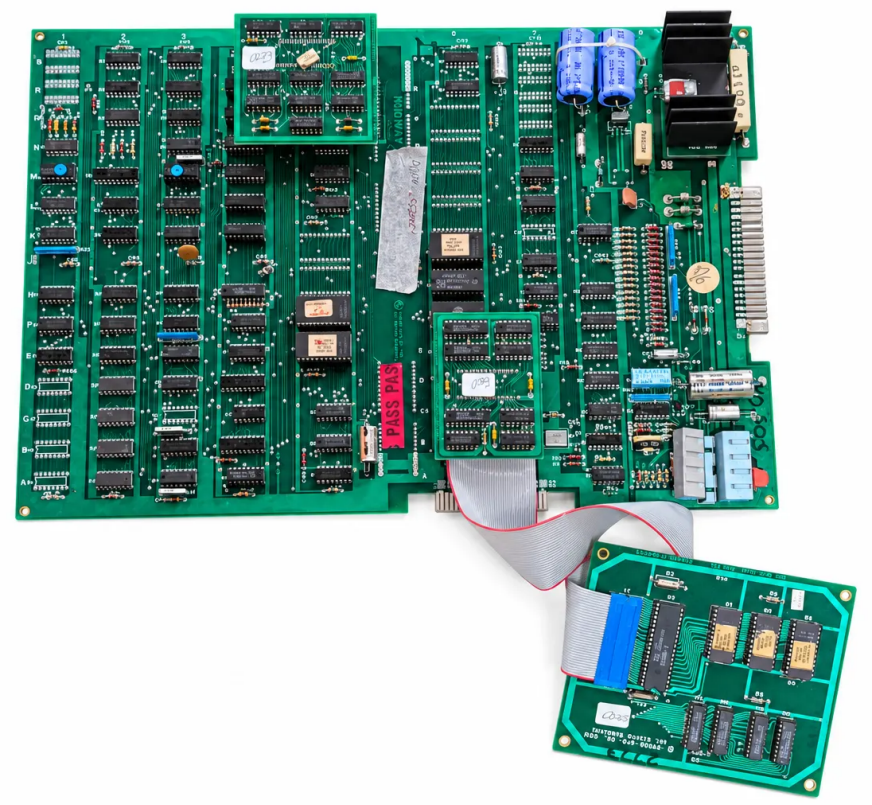
MANDATORY: REMOVE PROGRAM ROMS

All original program ROMs in **row 6** must be removed as part of this installation. This step is **required**, not optional. Keep graphics ROMs **5E and 5F** in place. Do not power the cabinet until the removal and CPU connections have been checked.

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Identify the Ms. Pac-Man PCB

This is the original board assembly with the factory daughterboard and its ribbon cable attached.



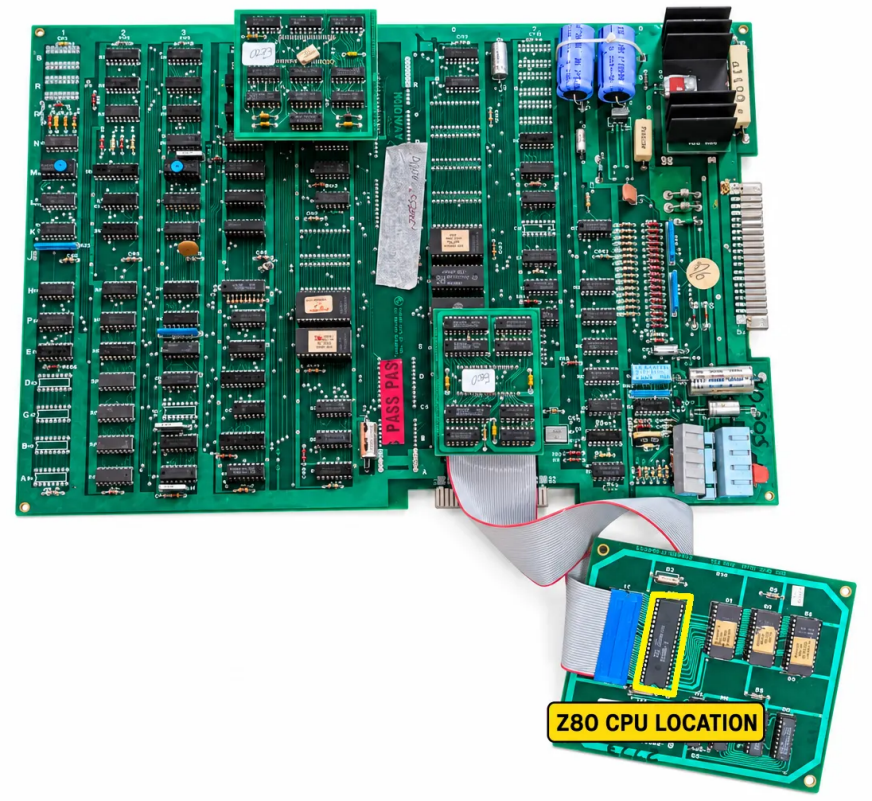
BEFORE MAKING CHANGES

Document the original Ms. Pac-Man hardware configuration. Identify the factory CPU daughterboard at the end of the ribbon cable and the separate supporting board on the main PCB. Photograph ribbon routing and connector orientation before unplugging anything.

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Locate the Original Z80 CPU

The highlighted 40-pin processor on the factory Ms. Pac-Man daughterboard is the Z80 to transfer.



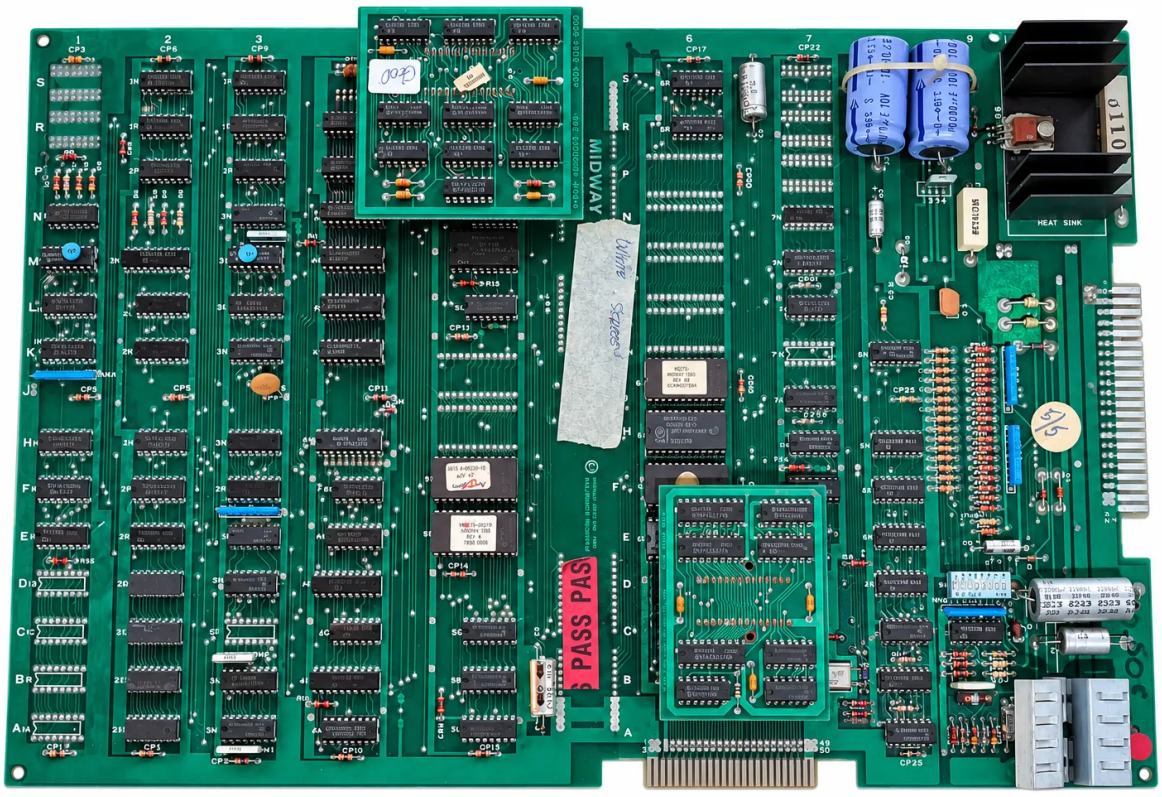
STEP 1 - IDENTIFY THE Z80

Locate the Z80 outlined in yellow on the **original Ms. Pac-Man daughterboard**. Check its notch / Pin 1 orientation and confirm that the processor is socketed. Do not remove or straighten chip pins while the board is powered.

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Remove the Factory Daughterboard

The main Ms. Pac-Man PCB is shown without its original ribbon-connected CPU daughterboard.



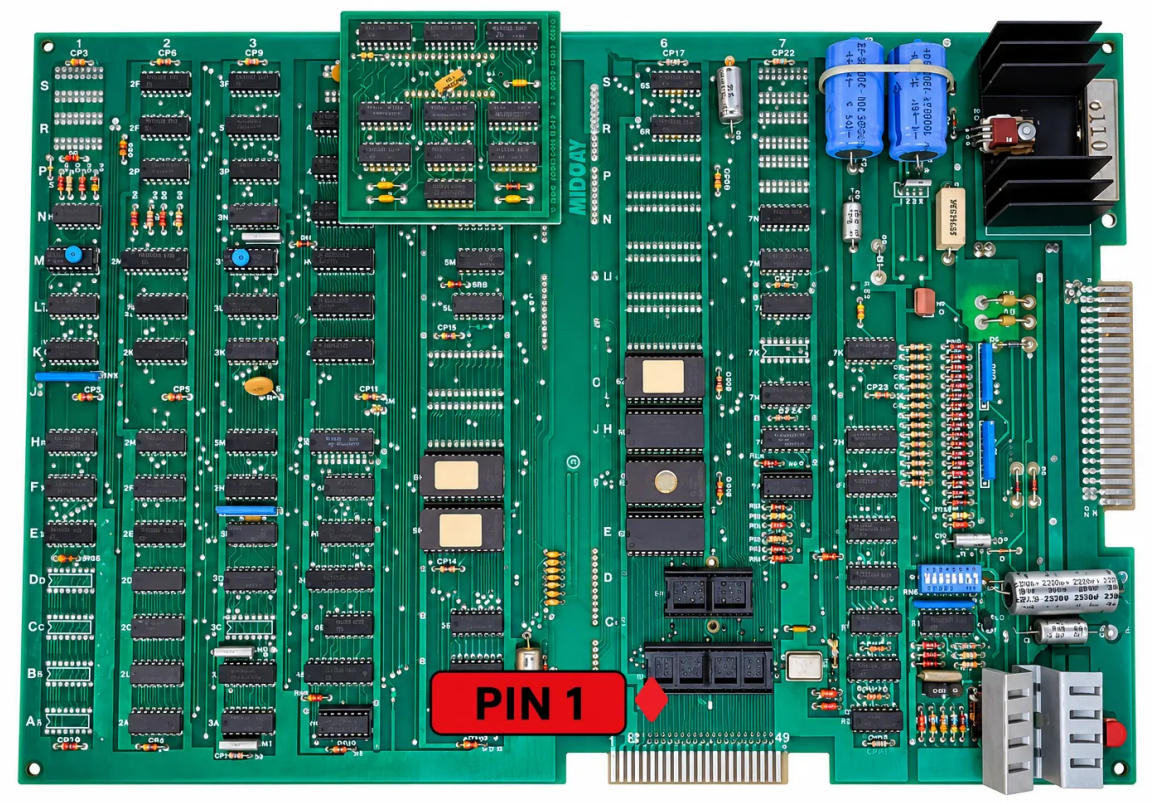
STEP 2 - DISCONNECT THE FACTORY ASSEMBLY

With power disconnected, carefully remove the original factory Ms. Pac-Man daughterboard and ribbon cable; **neither is reused** with the new kit. If access requires temporarily removing the original sync-bus controller, note its orientation and save it for reinstallation.

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Find Pin 1 on the Main PCB

Use the marked photograph to confirm the original CPU socket orientation before seating the kit.



STEP 3 - INSPECT THE ORIGINAL SOCKET

Identify the Pin 1 reference at the 40-pin CPU socket. Confirm the socket is intact and free of bent or broken contacts.

The socketed location must be prepared before fitting the replacement kit.

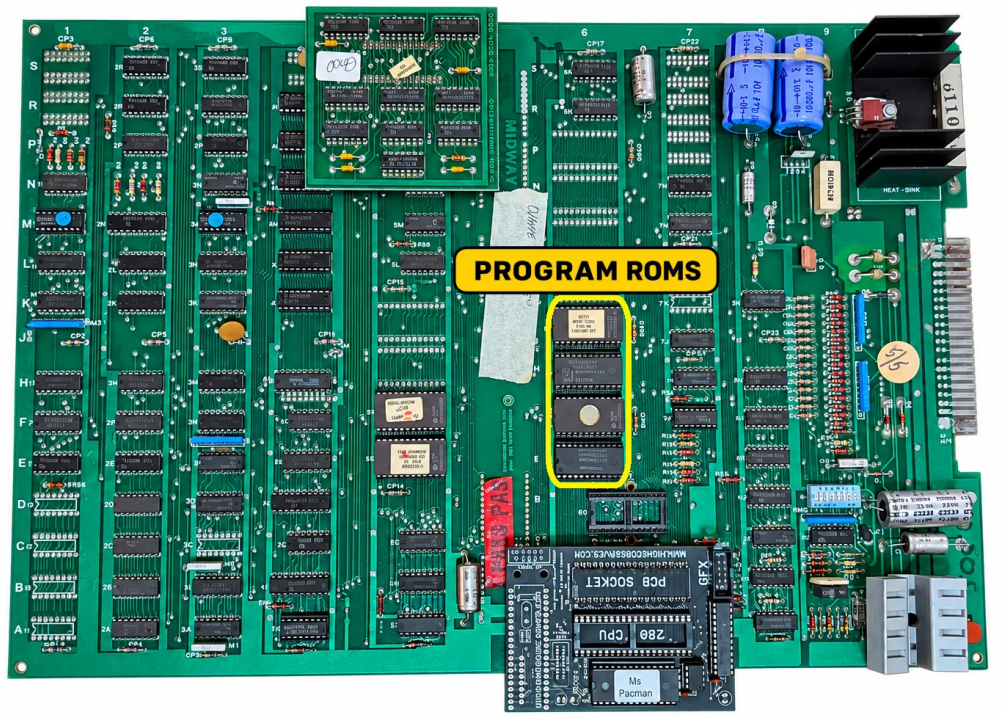
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Remove Row 6 Program ROMs

Required step for this Ms. Pac-Man Single Kit - not an optional ROM Saver procedure.

REQUIRED - REMOVE ALL PROGRAM ROMS IN ROW 6

The four program ROMs outlined in yellow must be removed before the first power-on with the HighScoreSaves kit.



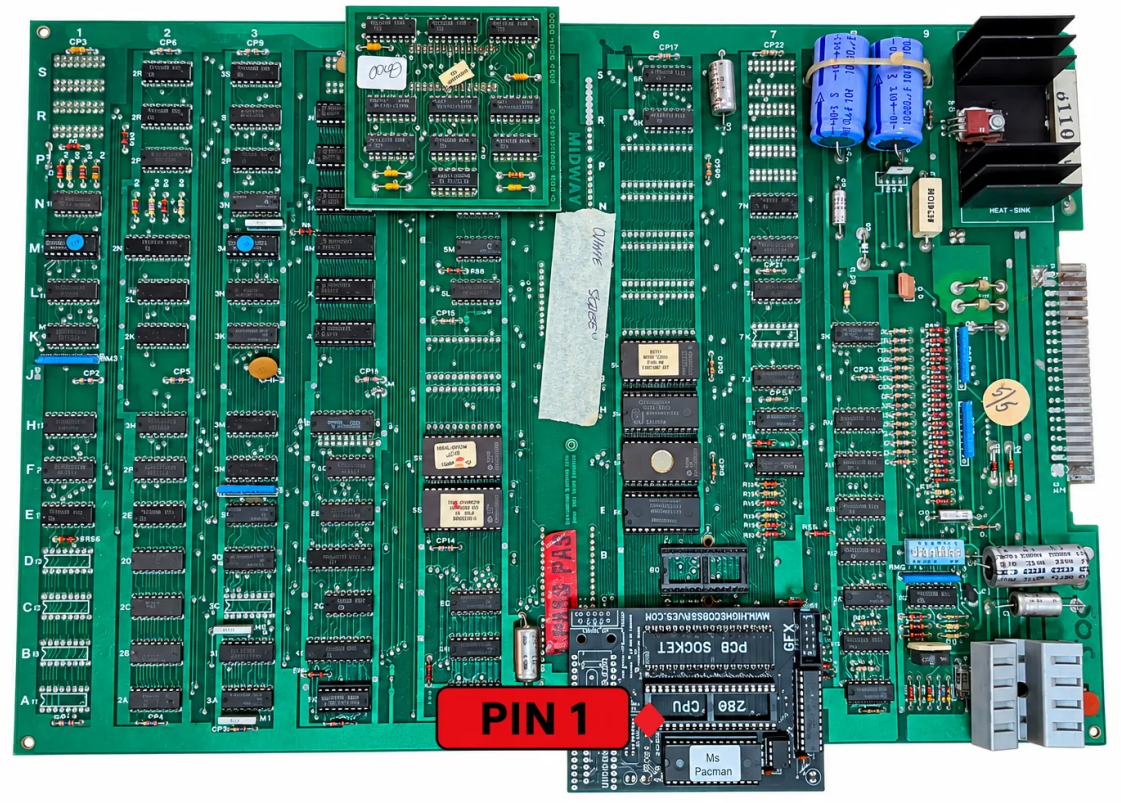
STEP 4 - CAREFULLY REMOVE AND LABEL

Unplug power, use a proper IC extraction tool, and gently lift **all four highlighted row 6 program ROMs** straight out. Keep each IC safe and labeled. **Leave the original 5E and 5F graphics ROMs installed.**

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Transfer Z80 to HighScoreSaves

The Pin 1 arrow shows the Z80 orientation on the replacement daughtercard.



STEP 5 - FIT THE PROCESSOR TO THE KIT

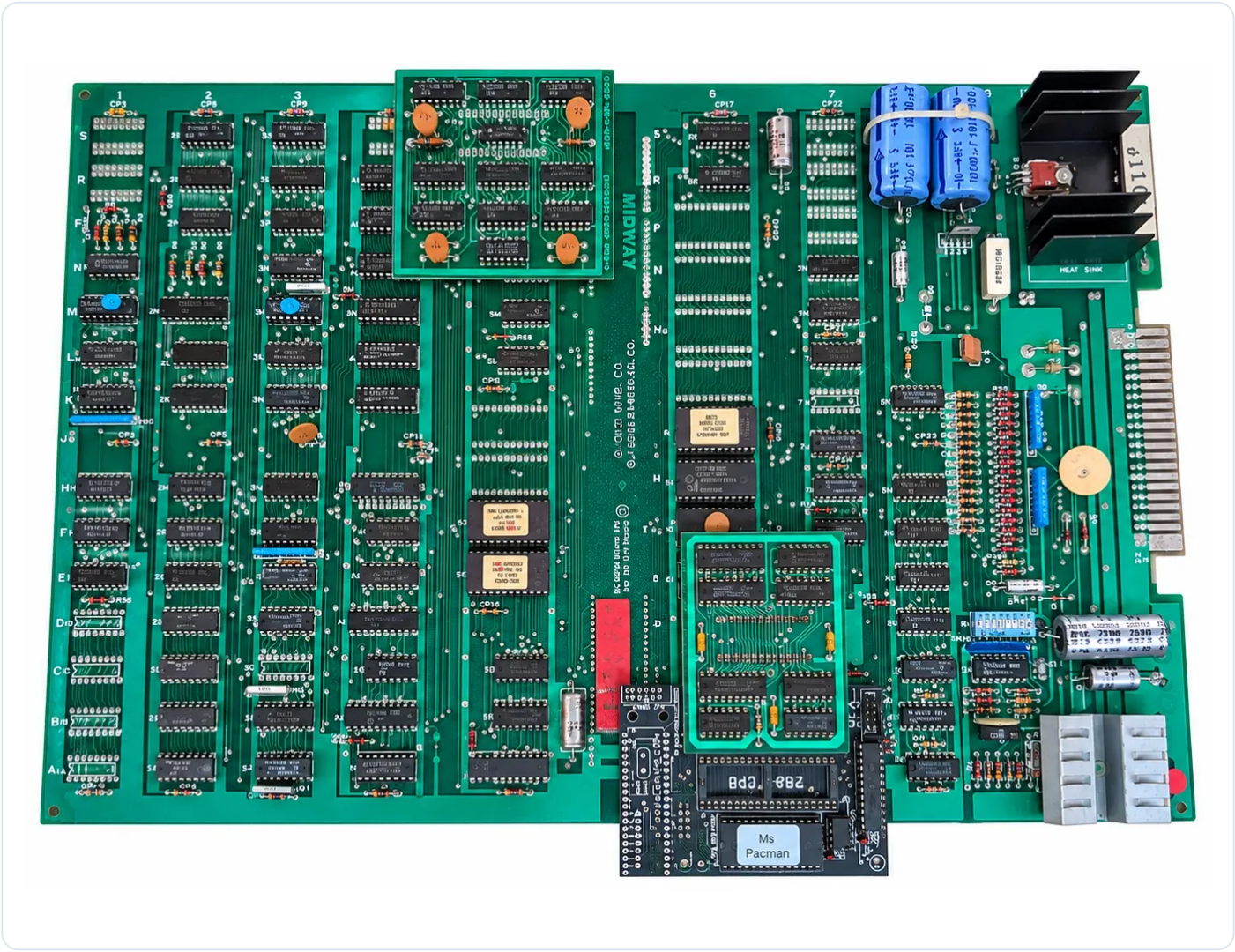
Remove the original Z80 from its factory daughterboard using even pressure. Carefully seat it in the HighScoreSaves Z80 socket, matching **Pin 1 to the kit Pin 1 marking**. Check that all 40 pins enter the socket correctly and none are bent under the body.

If a compatible replacement Z80 is being used, fit it in exactly the same orientation.

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Connect the New Kit

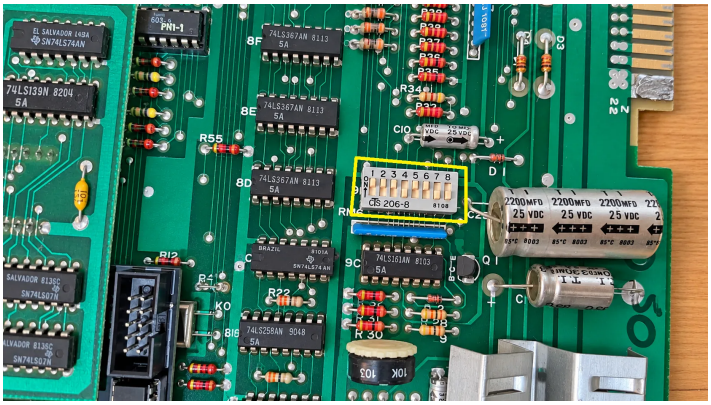
This photo shows the HighScoreSaves Single Kit fitted to the Ms. Pac-Man PCB.



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Final Installation Checks

Review every item below before reinstalling the board and restoring cabinet power.



DIP SWITCHES - 1 AND 2 ON

Ensure you have DIPs on your PCB set to 1 and 2 ON. If 1 and 2 are OFF, it will put the kit into Automatic ROM/RAM testing in a constant loop during startup.

REQUIRED ROM CHECK

Confirm **all four highlighted program ROMs in row 6 have been removed**. This is required for the Ms. Pac-Man Single Kit. Do not remove the graphics ROMs at 5E or 5F.

Z80 CPU AND PIN 1

The Z80 is fully seated on the HighScoreSaves daughtercard, with Pin 1 matching the marking in the supplied photograph. All CPU pins are straight and engaged; no pins are folded underneath.

CONNECTION AND CLEARANCE

The replacement cable is fully seated in the original CPU socket with correct Pin 1 orientation. All original supporting boards are back in place as required. Check ribbon clearance, routing, and contact with adjacent components.

REINSTALL THE GAME PCB

Reconnect cables exactly as documented in your pre-install photos. Confirm each connector is fully seated and oriented correctly. Do not restore power until all checks above are complete.

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Power-On and Settings Menu

First boot and settings access for the Ms. Pac-Man Single Kit.

FIRST POWER ON

With the arcade PCB reinstalled and all connections double-checked, restore cabinet power. Confirm the kit boots normally, game controls respond, and Ms. Pac-Man displays correctly.

OPEN THE SETTINGS MENU

From a powered-off cabinet, hold **Player 1 Start** while switching the game on; release it when the screen prompts you. On supported versions, holding Player 1 Start for approximately four seconds during attract mode also opens the kit menu.

CHOOSE YOUR GAME AND SAVING OPTIONS

The Ms. Pac-Man Single Kit provides original-speed and fast Ms. Pac-Man modes. Review the settings and verify local high score and initials saving using the menu and a completed game.

This is the dedicated **Ms. Pac-Man Single Kit** installation. It does not add other games or use the separate multigame installation procedure.

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Troubleshooting and Final Review

If the game does not start, power off before inspecting the processor or connectors.

BLANK SCREEN OR NO BOOT

Turn off and unplug the cabinet. Recheck the 40-pin PCB connection and the Z80 Pin 1 alignment; inspect for a bent pin. Make sure the correct original sync-bus controller was reinstalled in its recorded orientation.

PROGRAM ROMS STILL INSTALLED

Confirm **every highlighted program ROM in row 6 is removed**. This is a mandatory step, not an optional enhancement. Leave graphics ROMs 5E and 5F in place.

WHEN TO CONTACT HIGHSCORESAVES

If the board still fails, stop repeated power cycling. Send support clear photos of the installation, the CPU Pin 1 area, row 6 ROM positions, and any on-screen error message.

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Wi-Fi Setup

Only applicable to a Wi-Fi Enabled HighScoreSaves Ms. Pac-Man Single Kit.

CHECK YOUR KIT VERSION

A Standard Kit works without wireless networking and saves supported scores and settings locally. Wi-Fi Enabled kits may additionally submit qualifying completed scores to the HighScoreSaves online leaderboard.

COMPLETE THE WIRED PCB INSTALLATION FIRST

Make sure Ms. Pac-Man runs correctly, the new daughterboard and CPU are properly installed, and the **required row 6 program ROMs have been removed** before configuring wireless features.

CONNECT THE WI-FI ENABLED VERSION

Follow the setup steps appropriate to the specific Wi-Fi hardware shipped with your kit. Compatible Wi-Fi kits use a 2.4 GHz network. Keep any private kit credentials secure.

LOCAL SCORES STILL WORK WITHOUT WI-FI

Free Play, game settings, and supported local high score saving remain available when Wi-Fi is disabled or unavailable.

Standard vs. Wi-Fi Kits

Global High Scores

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Helpful Resources

Official HighScoreSaves product, installation, and technical support links.

Ms. Pac-Man Single Kit

Matching product page and processor options.

Ms. Pac-Man PCB Compatibility

Review original-board suitability and kit selection.

Installation Guides

Browse the HighScoreSaves installation guide library.

Tips and Tricks

General kit settings, operating notes, and technical tips.

Standard vs. Wi-Fi Enabled Kits

Understand local scoring and optional online connectivity.

Global High Scores

View qualifying scores submitted from connected arcade kits.

Contact HighScoreSaves

Send questions or support requests with installation photos.