

1943

FREE PLAY + HIGH SCORE SAVE KIT

ORIGINAL CAPCOM ARCADE HARDWARE



STANDARD + WI-FI EDITIONS

PCB identification • Z80 installation • Settings • Support

Before you begin

Z80 INSTALLATION - STANDARD AND WI-FI

Both versions install in the same original 1943 Z80 CPU socket. The installation photo shows the Wi-Fi daughter card, which has a Wi-Fi module attached; the Standard version uses the same installation steps. Wi-Fi setup is on page 9.

SAFETY FIRST

Power off and unplug the cabinet before touching the game board.

Handle safely: Use an ESD-safe bench and grounded work area.

Avoid monitor power circuitry: The guide covers the game PCB only. Consult a qualified technician when necessary.

PREPARATION CHECKLIST

- Confirm board operation: Test the 1943 game before installing the kit.
- Photograph wiring: Capture cable connections and their orientation.
- Remove and label: Disconnect the PCB safely and mark each connector.
- Prepare a clean work area: Place the board on a nonconductive, ESD-safe surface.
- Confirm the Z80 socket: The Z80 location requires a compatible 40-pin CPU socket.

WHAT'S INCLUDED

1 × HighScoreSaves Z80 daughter card. A Z80 CPU is required: reuse the original compatible CPU or use a replacement selected with your order. See the product page for Standard and Wi-Fi version options.

Hardware compatibility: Use documented compatible original Capcom 1943 arcade PCB hardware; do not use this guide for unverified conversions or replacement boards.

Identify the correct 1943 PCB

Locate the Z80 CPU position on your original Capcom 1943 PCB assembly. The photographs in this guide show the documented 1943 board layout. Install the daughter card at that socketed Z80 location - not at a different processor or ROM socket.



Original Capcom 1943 PCB assembly. Confirm your board layout against this photograph.

VERIFY YOUR BOARD BEFORE REMOVING CHIPS

This guide is for documented compatible original 1943 hardware. If the board does not match these photos or the Z80 is not socketed, stop. Have a qualified technician install the required socket if necessary.

Remove the original Z80 processor

Find the Z80 processor marked in orange in the original installation photo. With all cabinet power disconnected, remove the processor evenly from its socket and keep it for the daughter-card installation.



Original 1943 CPU photograph: orange outline identifies the Z80; yellow arrow marks Pin 1.



Once removed: Inspect the 40-pin socket for debris or damaged contacts. Use a chip puller and lift evenly to prevent bent processor pins.

Fit the Z80 to the daughter card

CRITICAL: PIN 1 ORIENTATION

Identify Pin 1 on the original 1943 Z80 CPU and the daughter-card socket. Align both before insertion. Do not force the processor if any pins are misaligned.



1943 CPU photo with Pin 1 marked in yellow; match the CPU orientation when moving it to the daughter card.

CHECK BEFORE INSTALLING

Place the Z80 CPU into the daughter-card socket with Pin 1 correctly oriented, then inspect all pins to ensure they are fully engaged and not bent.

Install the assembled daughter card

Install the assembled Z80 daughter card into the original 1943 PCB Z80 socket. Align every pin and press evenly until seated. Use the finished-board photo to confirm the general location and clearance.



Wi-Fi version pictured: the attached module is visible. Standard version installs in the same Z80 socket.

CLEARANCE AND SOCKET CHECK

Verify that every daughter-card pin enters the original Z80 socket; nothing on the underside touches adjacent components. Never power on the cabinet with the card crooked or contacting other circuitry.

Optional: remove program ROMs

The 1943 kit supports optional ROM Saver operation. Removing program ROMs is not required for basic installation. If you choose this option, the original guide identifies three program ROMs.



Original 1943 guide: three optional program ROMs boxed in yellow and labeled for removal.

OPTIONAL: THREE IDENTIFIED ROMs ONLY

Turn the game off and unplug it before removing anything. If using ROM Saver, remove only the three program ROMs highlighted together in this 1943 photograph. Label and store them carefully; leave all other chips in place.

Final inspection and first test



Finished 1943 PCB with Wi-Fi version shown.

BEFORE POWERING ON

- Z80 Pin 1 orientation verified on the daughter card.
- All daughter-card pins correctly seated in the original Z80 socket.
- No contacts between the card underside and PCB components.
- All connectors restored using reference photos.

POWER-ON TEST

Return the PCB to the cabinet and reconnect all labeled cables. Power on, confirm normal 1943 gameplay, test Free Play, and confirm a qualifying high score remains saved after cycling power.

HOW TO ENTER THE SETTINGS MENU

With the cabinet off, hold Player 1 Start while powering on. Hold for approximately 4 seconds; release when prompted on-screen. Use the kit settings menu to check available options and change menu access behavior.

IF THE GAME DOES NOT START

Turn cabinet power off immediately. Recheck CPU/daughter-card Pin 1, all pins, underside clearance, and cable orientation. Contact HighScoreSaves support if the issue continues.

Wi-Fi-enabled kit setup

FIRST COMPLETE THE PCB INSTALLATION

Both kit versions install identically at the Z80 socket. The Wi-Fi version shown in the photos has an added module. Test PCB operation before configuring online features.

AFTER THE ARCADE KIT IS WORKING

1

Locate your Wi-Fi account credentials

Keep the PK and SK values supplied by HighScoreSaves available for the online setup process.

2

Review the online settings

Use the kit settings menu to locate supported leaderboard and Wi-Fi options.

3

Connect using the latest instructions

Follow the current setup guide for your module and a compatible 2.4 GHz Wi-Fi network.

4

Confirm an online high score

Submit a qualifying score and verify it appears on your intended leaderboard.

KEEP YOUR PK / SK KEYS PRIVATE

Wi-Fi setup screens and instructions may change independently of the printed PCB installation guide. Use the current HighScoreSaves online documentation for exact steps and troubleshooting.



Open complete Wi-Fi setup instructions

Current Wi-Fi setup guide and optional leaderboard configuration

Helpful resources and support

These buttons are clickable in the PDF. For up-to-date documentation, compatible original arcade PCBs, and kit-specific settings, visit the live HighScoreSaves resources.



1943 kit product page

Kit versions, supported features, Z80 CPU and socket options



1943 PCB compatibility

Confirm original Capcom 1943 hardware before installation



1943 settings-menu video

Watch the verified game-specific settings video



HighScoreSaves kit tips

Settings access, backups and general troubleshooting



Wi-Fi setup and Standard comparison

Current Wi-Fi, leaderboard and kit-version information



Installation guide library

Find installation PDF guides for other arcade kits



Contact HighScoreSaves

Contact and technical-support information