INSTALLATION GUIDE

Donkey Kong 3

FREE PLAY + HIGH SCORE SAVE KIT | ORIGINAL NINTENDO ARCADE PCB



DONKEY KONG 3 INSTALLATION GUIDE

Nintendo PCB identification | Z80 at location 6C | Pin 1 orientation | Daughtercard installation | Menu & Wi-Fi

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Safety and Preparation

Review these steps before handling the Nintendo Donkey Kong 3 PCB.

POWER OFF AND UNPLUG

Switch off and unplug the cabinet before working on its game boards. Allow the hardware to cool and use ESD precautions, such as a grounded anti-static work surface.

CHECK THE ORIGINAL GAME

Confirm Donkey Kong 3 operates correctly before installing the kit. This upgrade is not a repair for a faulty PCB. Record the original board stack and take photos of cable and connector orientation.

REMOVE THE BOARD SAFELY

Disconnect and label any cables before lifting the board assembly. Work on a clean, stable surface and keep tools or loose objects away from exposed components.

WHAT'S INCLUDED AND REQUIRED

Included: 1 x HighScoreSaves Donkey Kong 3 Z80 daughtercard.

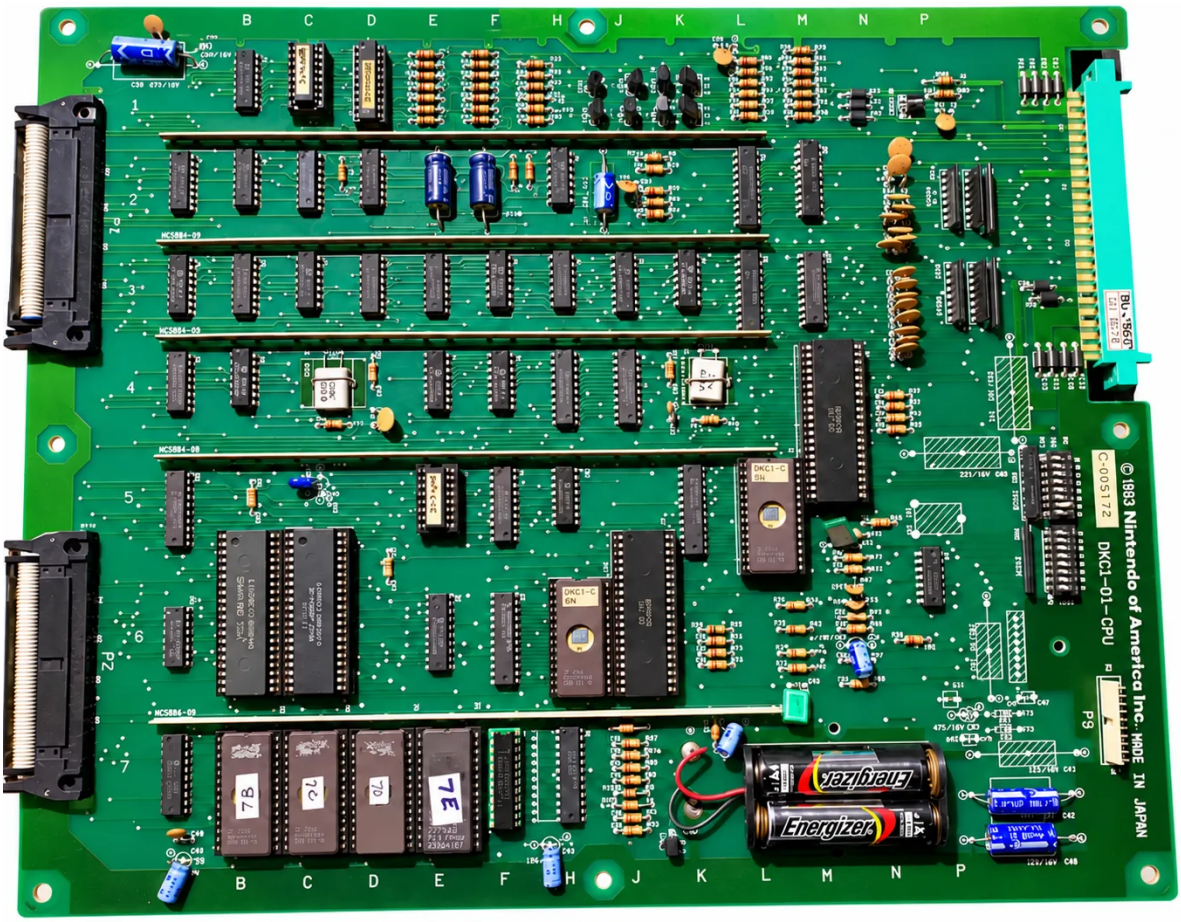
Z80 processor: A compatible Z80 is required. Transfer the original socketed Z80, or use a compatible processor selected when ordering.

PCB socket: The Z80 mounting location must have a compatible 40-pin socket. If the processor is soldered directly to the PCB, have a qualified technician install a socket before fitting the kit.

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Identify the Donkey Kong 3 PCB

Use the full-board photo to confirm the original Nintendo hardware.



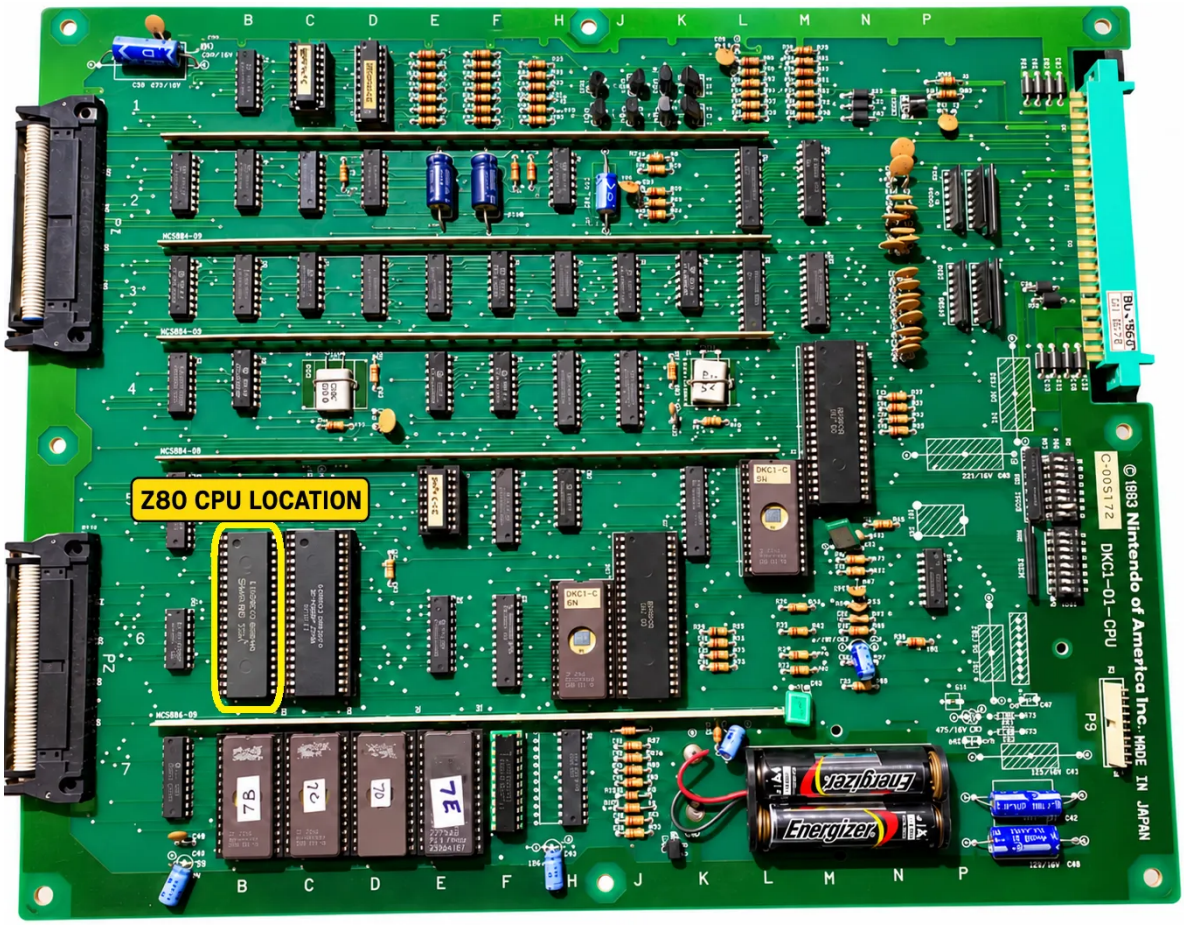
IDENTIFY YOUR BOARD

Compare your arcade PCB with the original Nintendo Donkey Kong 3 CPU board shown above. This installation uses the Z80 processor at location 6C. Verify the board, processor type and matching socket before beginning; other Nintendo arcade boards require different instructions.

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Locate and Remove the Z80

The yellow callout identifies the processor location on the pictured PCB.



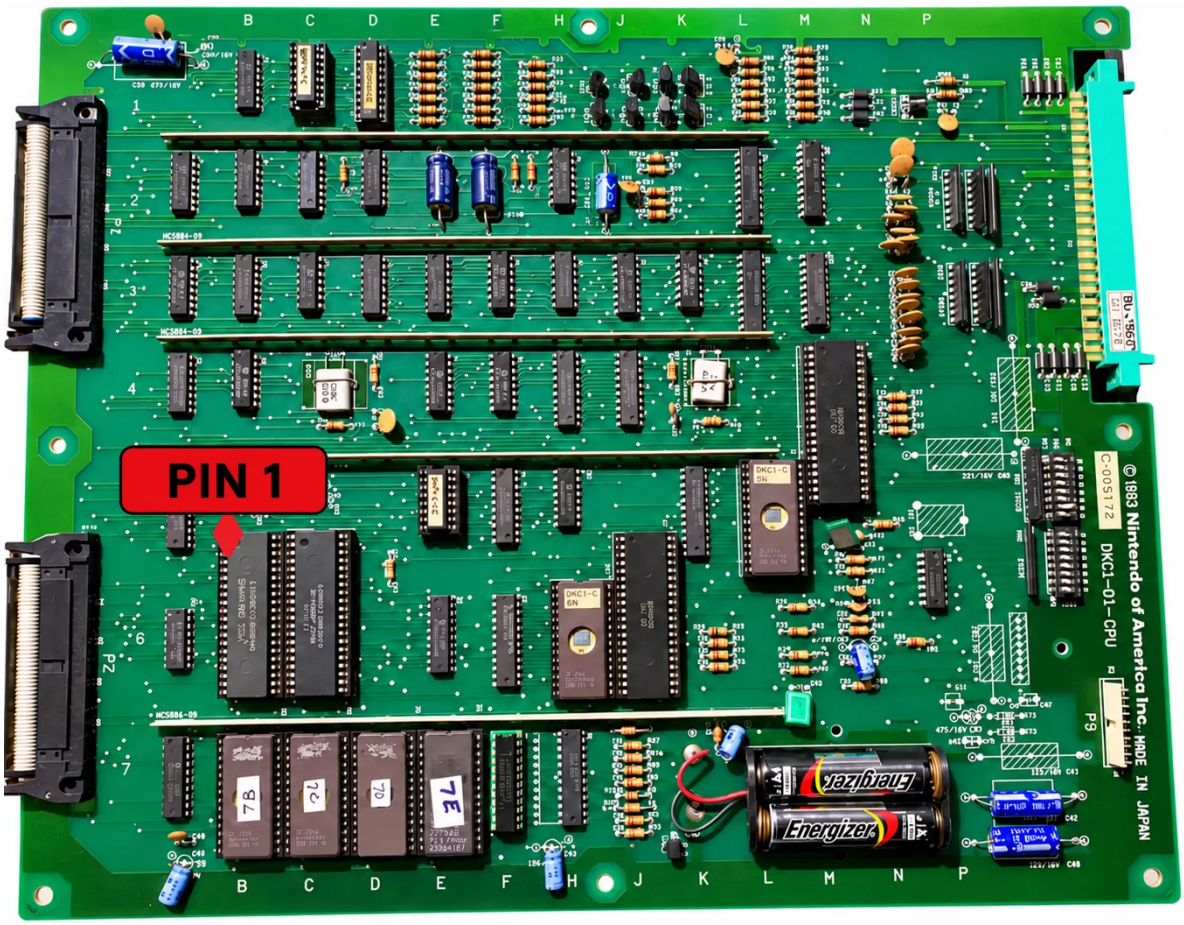
STEP 1 - LOCATE AND REMOVE THE Z80

Find the original **Z80 CPU at location 6C**, marked by the yellow outline. Note the notch/Pin 1 orientation and photograph it. With power disconnected, carefully lift the socketed Z80 evenly without bending its pins.

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Confirm Z80 Pin 1 Orientation

Check Pin 1 on the original processor before installing it in the kit.



STEP 2 - CONFIRM PIN 1

The **red Pin 1 arrow** identifies the processor orientation on the original PCB. Confirm the notch or dot on the Z80 and the Pin 1 socket mark before removing it; the orientation must also match the daughtercard socket.

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Install the Z80 Daughtercard

Use the Pin 1 kit photo and the original PCB reference photographs.

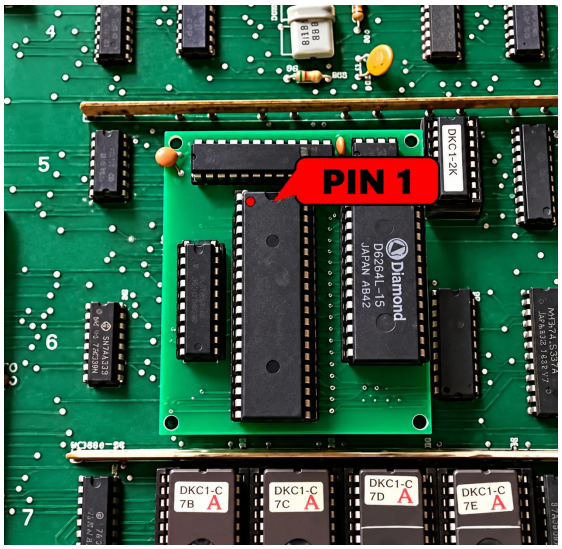


PHOTO REFERENCE: PIN 1 ORIENTATION ON THE DAUGHTERCARD

STEP 3 - TRANSFER THE Z80 TO THE DAUGHTERCARD

Align the Z80 notch or Pin 1 marker with the **Pin 1 indicator** on the kit socket as pictured. Carefully seat all processor pins evenly into the daughtercard socket.

STEP 4 - INSERT THE DAUGHTERCARD

Align the assembled daughtercard with the original **Z80 socket at 6C** on the Donkey Kong 3 CPU PCB and press in evenly. Do not offset any row of pins or reverse the orientation.

CHECK CLEARANCE

Ensure no test points or other original PCB components are touching the underside of the daughtercard.

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Final Installation Checks

Review the work carefully before restoring power to the cabinet.

Z80 PIN 1

Confirm the Z80 is fully seated in the HighScoreSaves daughtercard and that the Pin 1 marking matches the daughtercard socket.

DAUGHTERCARD FIT

Check that all kit pins enter the correct holes of the original Z80 socket. Verify a secure fit and sufficient clearance above surrounding PCB components and test points.

REINSTALL ORIGINAL BOARD AND CABLES

Place the original Nintendo board assembly back in the cabinet. Reconnect cables exactly as documented by your earlier photos and labels.

POWER ON AND VERIFY

After the cabinet is reassembled, power on the game and verify that Donkey Kong 3 boots and the controls work. If it fails to boot or behaves unexpectedly, **switch off power immediately** and recheck Z80 orientation, pin seating, kit clearance and original connectors.

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Power-On and Settings Menu

Enter the kit menu using the Player 1 Start power-on procedure.

OPEN THE SETTINGS MENU

Start with the game powered **off**. Hold **Player 1 Start** while turning the cabinet on. Release Player 1 when the on-screen prompt tells you to. The kit will display its menu settings.

MENU STARTUP BEHAVIOR

The previous Donkey Kong 3 instructions describe an optional setting that gives approximately five seconds to enter the menu at power-on. Select the menu-access behavior that suits your game room.

VERIFY THE FEATURES YOU USE

After the installation is stable, review the settings available for your specific kit. Confirm Free Play, score saving, initials and any other enabled modes behave as expected.

IF MENU ACCESS FAILS

Power off, confirm Player 1 Start works, then repeat the power-on sequence. For broader menu help, use the Tips and Tricks resource linked at the end of this guide.

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Wi-Fi Setup

Applicable only to a Wi-Fi Enabled Donkey Kong 3 kit.

CHECK THE KIT VERSION

Standard Donkey Kong 3 kits operate without networking. Only Wi-Fi Enabled kit versions have compatible online score features.

VERIFY GAMEPLAY BEFORE NETWORK SETUP

Make sure Donkey Kong 3 runs correctly and saved scores work locally before attempting optional Wi-Fi configuration. Never use network settings to troubleshoot a physical PCB installation.

FOLLOW YOUR WI-FI KIT INSTRUCTIONS

Use the configuration steps supplied for your exact Wi-Fi hardware. Compatible 2.4 GHz Wi-Fi networking may be required. Keep all leaderboard account keys and credentials private.

LOCAL OPERATION

Free Play and local high score saving do not require an active network connection. The Wi-Fi version can use local functions when Wi-Fi is unavailable.

Standard vs. Wi-Fi Kits

Global High Scores

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Helpful Resources

Product, compatibility, installation and technical-support links.

Donkey Kong 3 Kit
Matching product page, kit options and compatible Z80 selection.

Donkey Kong 3 Compatibility & Comparison
Compare HighScoreSaves and Braze Donkey Kong 3 kits for supported original Nintendo boards.

Installation Guides
Browse all HighScoreSaves installation guides.

Identify Your Original Arcade PCB
Confirm original Nintendo board and processor before ordering.

Tips and Tricks
Current HighScoreSaves kit settings and technical tips page.

Standard vs. Wi-Fi Enabled Kits
Compare offline kit features and optional Wi-Fi connectivity.

Global High Scores
View supported scores submitted by connected arcade kits.

Contact HighScoreSaves
Include photos of the PCB and installation when asking for help.