INSTALLATION GUIDE

Galaga

FREE PLAY + HIGH SCORE SAVE KIT | ORIGINAL MIDWAY AND NAMCO HARDWARE



GALAGA INSTALLATION GUIDE

Midway and Namco PCB installations | Z80 CPU | 3JH/3600 | Wi-Fi setup

SAFETY / PREPARATION

Before you begin

Follow the pre-install checklist before removing the original CPU or ROMs.

POWER OFF AND UNPLUG

Disconnect the cabinet from power before working on the PCB. Use static-safe handling practices and protect all socket pins.

PRE-INSTALLATION CHECKLIST

1. Confirm the original Galaga board is fully working before installing the kit.
2. Photograph and label connectors, board revisions and Pin 1 positions.
3. Identify your original Midway or Namco PCB using the photos in this guide.
4. Set up a static-safe, well-lit bench for the kit components.

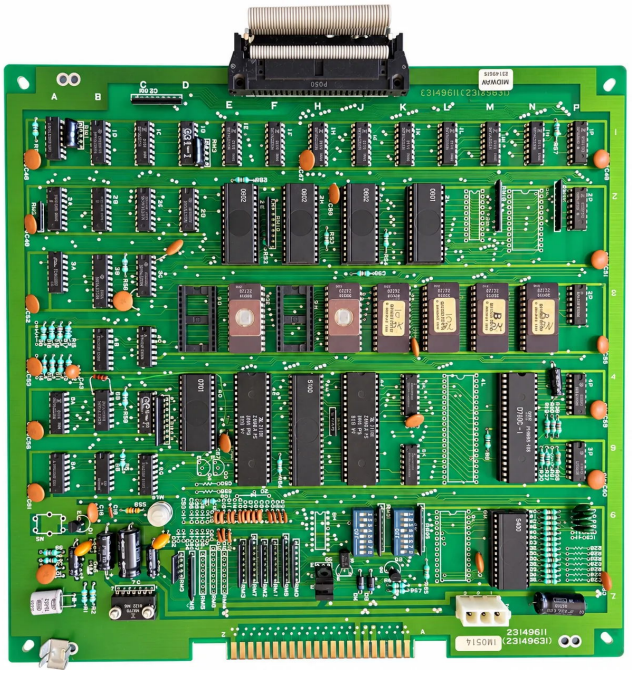
KIT COMPONENTS

The Galaga kit contains one main Z80 daughtercard and one 3JH/3600 daughtercard. A compatible Z80 processor is required; transfer the working original Z80 or select the compatible processor option when ordering.

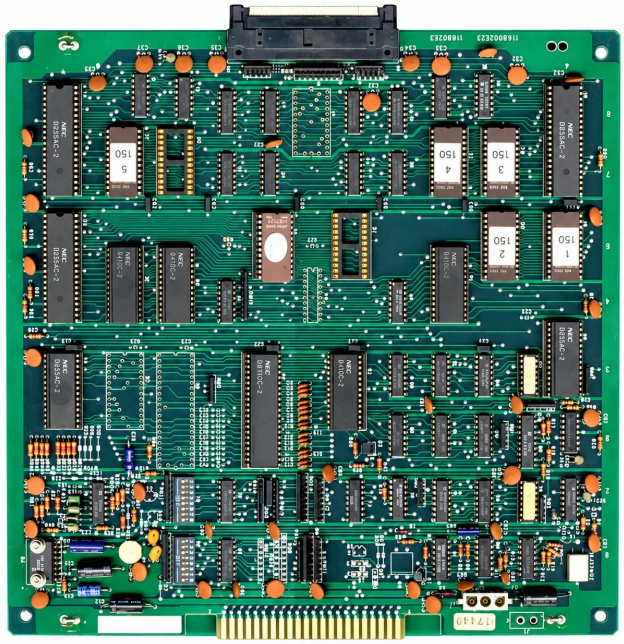
PCB IDENTIFICATION

Identify your original Galaga PCB

These are the two board layouts covered in this guide.



MIDWAY PCB



NAMCO PCB

MATCH YOUR PCB BEFORE INSTALLATION

Board layout and component positions differ between Midway and Namco. Follow the annotated PCB photos for your version. Do not mix positions between the two.

HARDWARE / OTHER VARIANTS

Important PCB compatibility notice

This guide shows only the Midway and Namco versions.



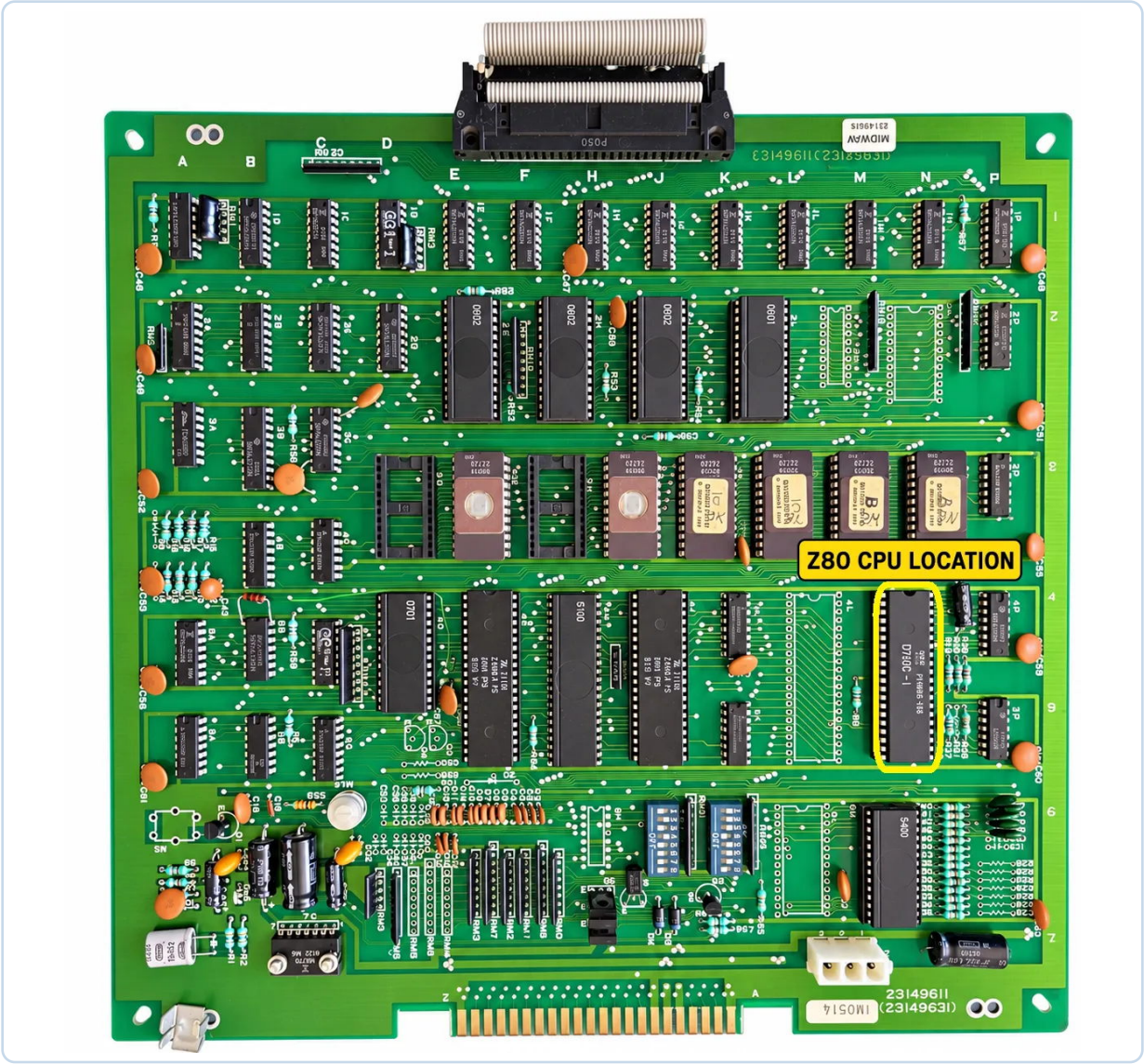
NEED HELP IDENTIFYING YOUR PCB?

Include full-board and CPU-area photos when emailing sales@highscoresaves.com. Wait for identification before changing any ICs.

MIDWAY / Z80 CPU

Midway - locate the Z80

Use the highlighted Midway Z80 position.



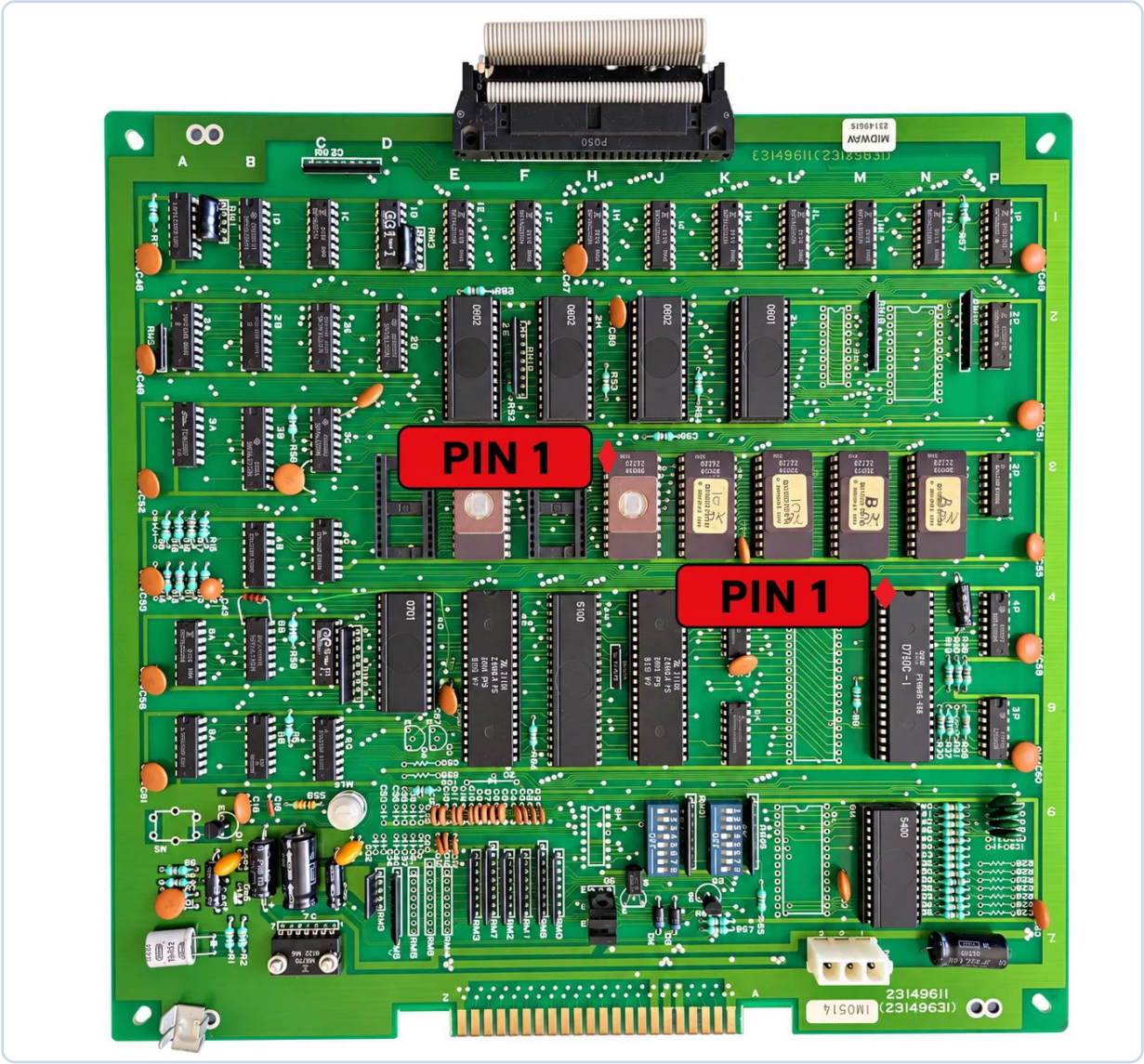
Z80 CPU LOCATION

Remove only the identified Z80 after power is disconnected. Record the CPU notch and Pin 1 orientation before lifting the chip.

MIDWAY / CHIP ORIENTATION

Midway - verify Pin 1

The red callouts show the Pin 1 references on the Midway hardware.



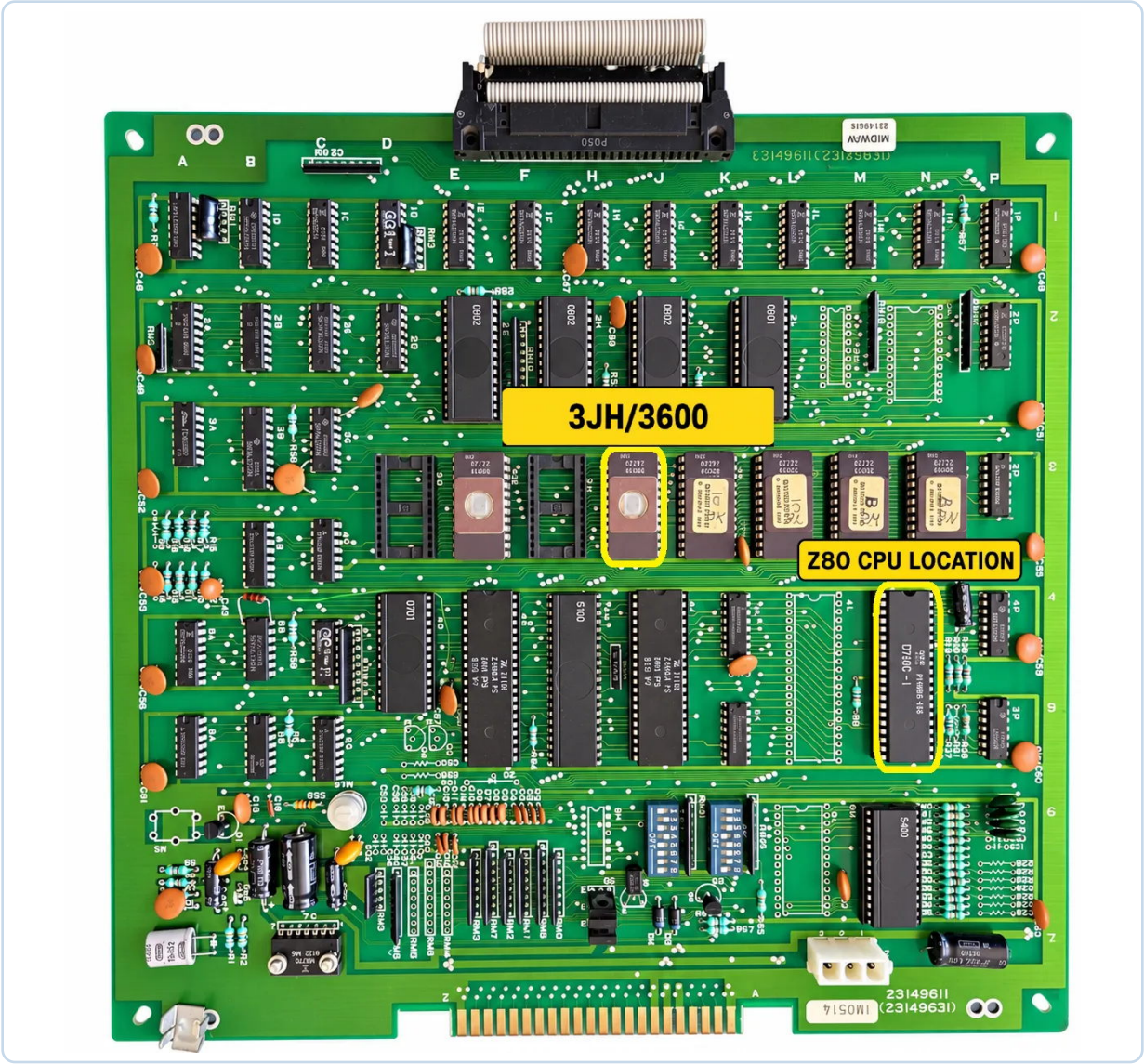
PIN 1 MUST ALIGN

Use the marked Pin 1 references for the original Z80 and the 3JH/3600 location. Check the physical notches and socket direction before installation.

MIDWAY / SECOND DAUGHTERCARD

Midway - 3JH/3600 location

Both the Midway Z80 and 3JH/3600 positions are marked for reference.



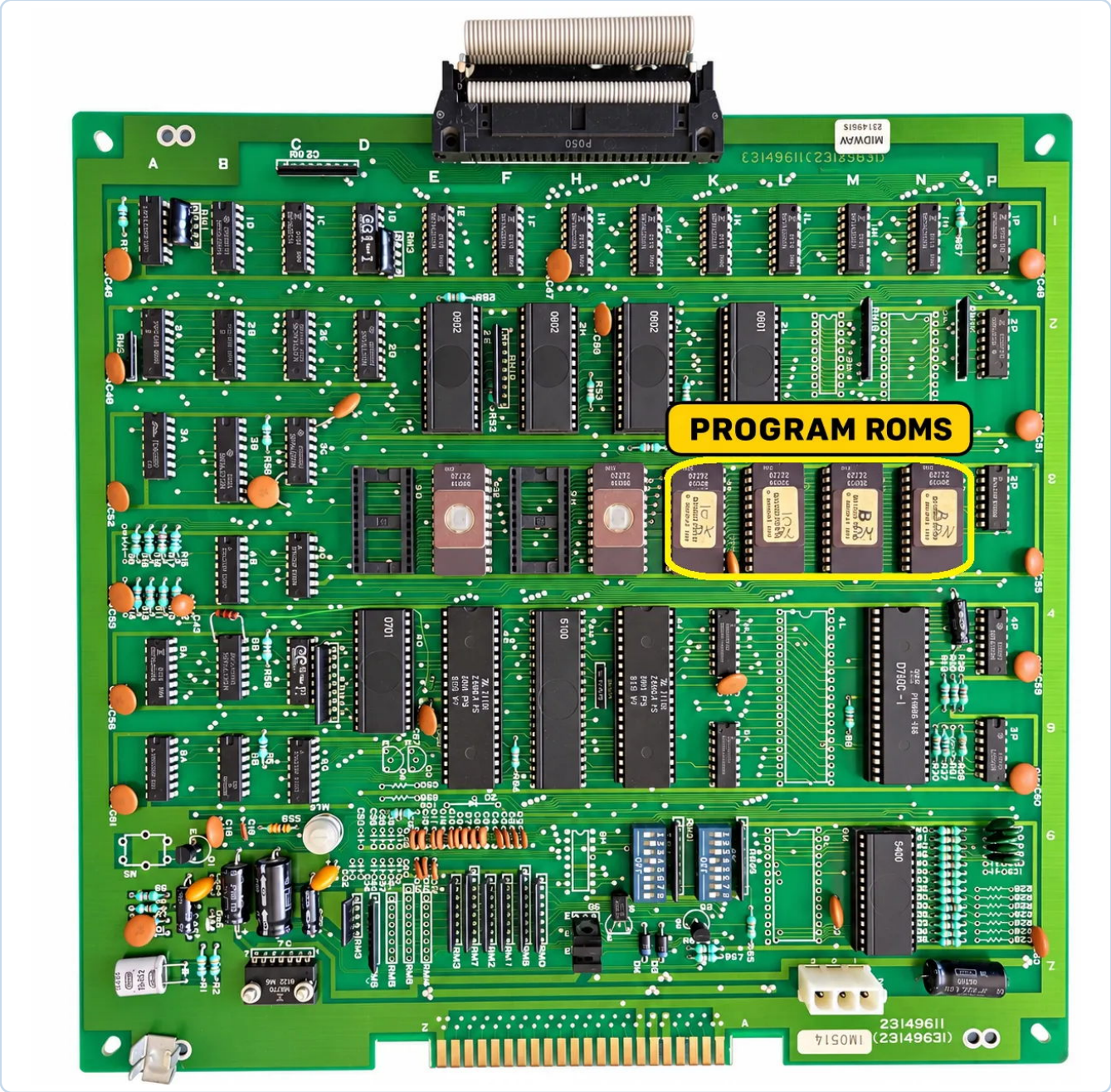
SECOND DAUGHTERCARD REFERENCE

Locate the highlighted 3JH/3600 position on the Midway PCB. Verify your hardware and Pin 1 orientation before removing or seating a component.

MIDWAY / ORIGINAL PROGRAM ROMS

Midway - program ROM reference

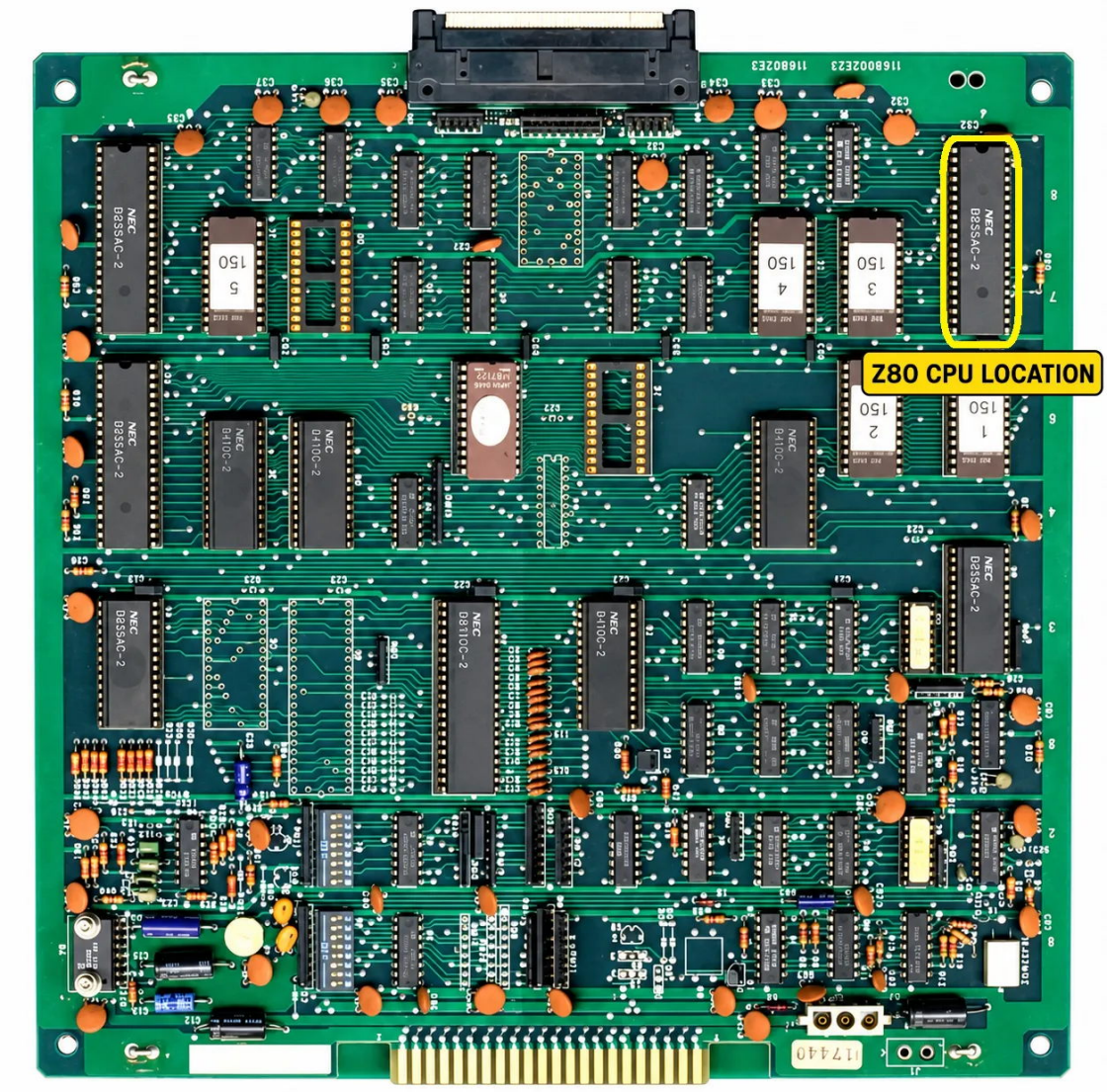
These Program ROMs can be removed.



NAMCO / Z80 CPU

Namco - locate the Z80

Use the highlighted Namco Z80 position.



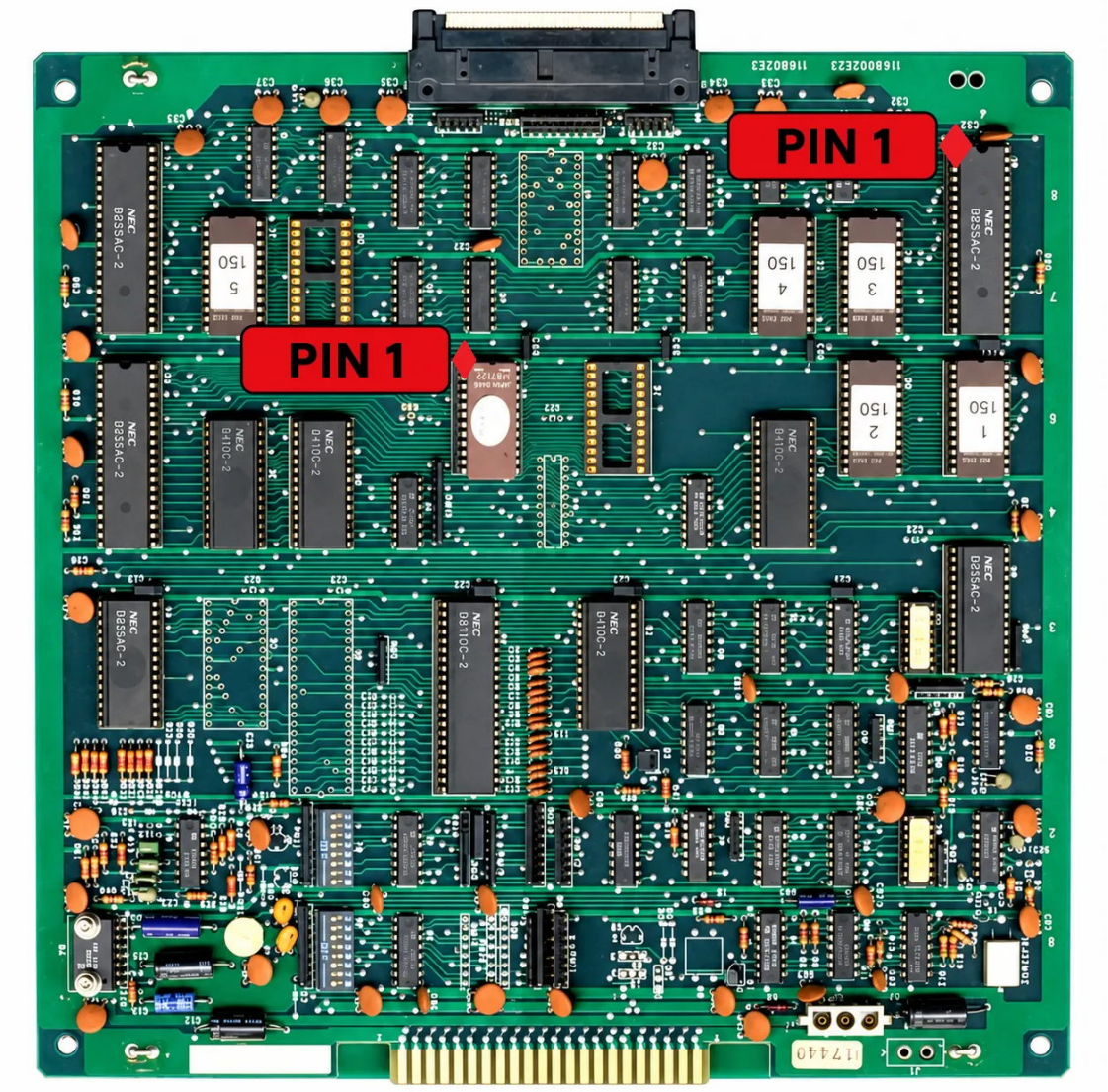
Z80 CPU LOCATION

Remove only the identified Z80 after power is disconnected. Note that the Namco board layout is different from Midway.

NAMCO / CHIP ORIENTATION

Namco - verify Pin 1

The red callouts show the Pin 1 references on the Namco hardware.



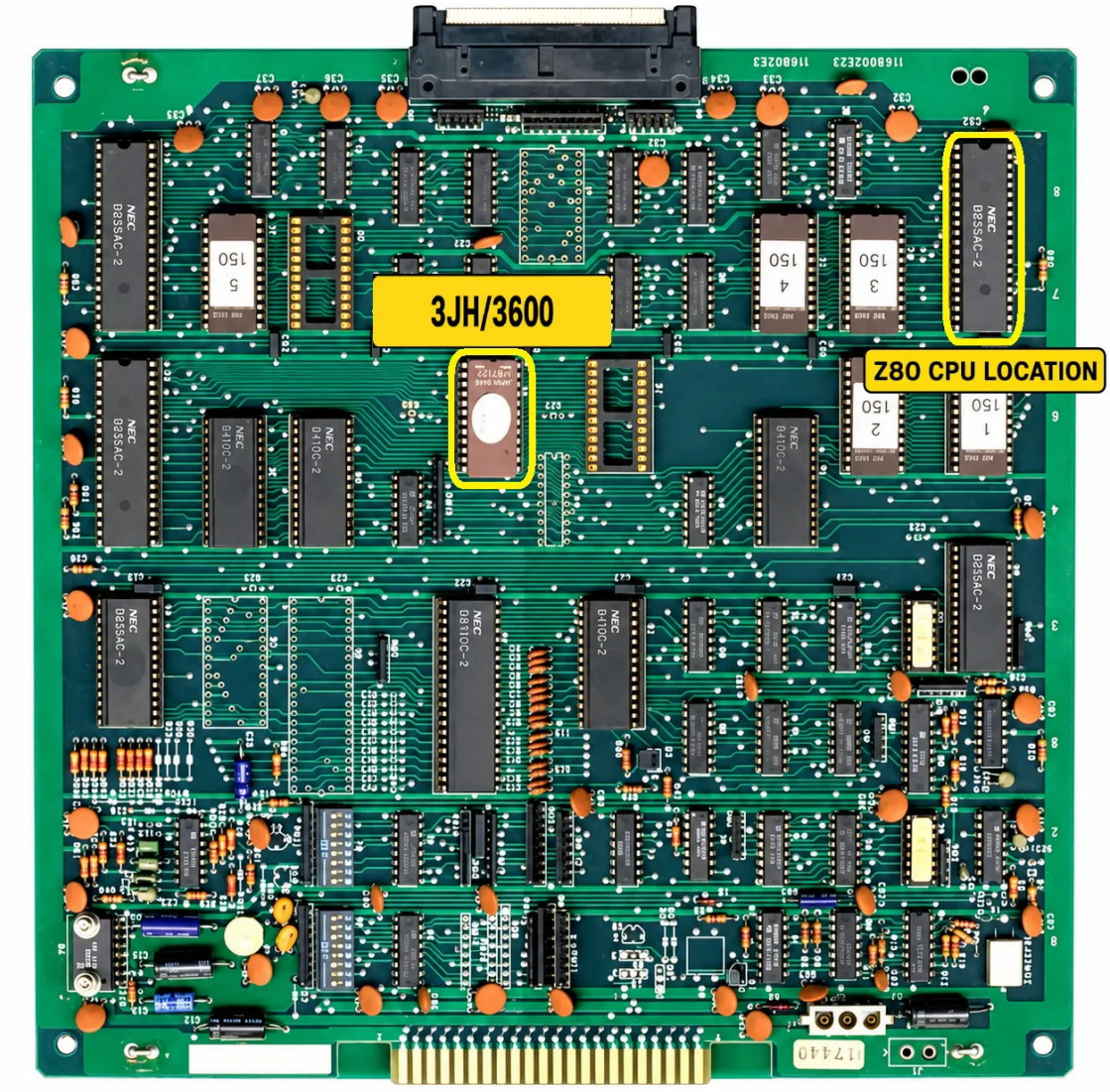
PIN 1 MUST ALIGN

Use the marked Pin 1 references to preserve original chip orientation. Follow the Namco-specific Pin 1 markings.

NAMCO / SECOND DAUGHTERCARD

Namco - 3JH/3600 location

The Z80 and 3JH/3600 positions are marked on the Namco PCB.



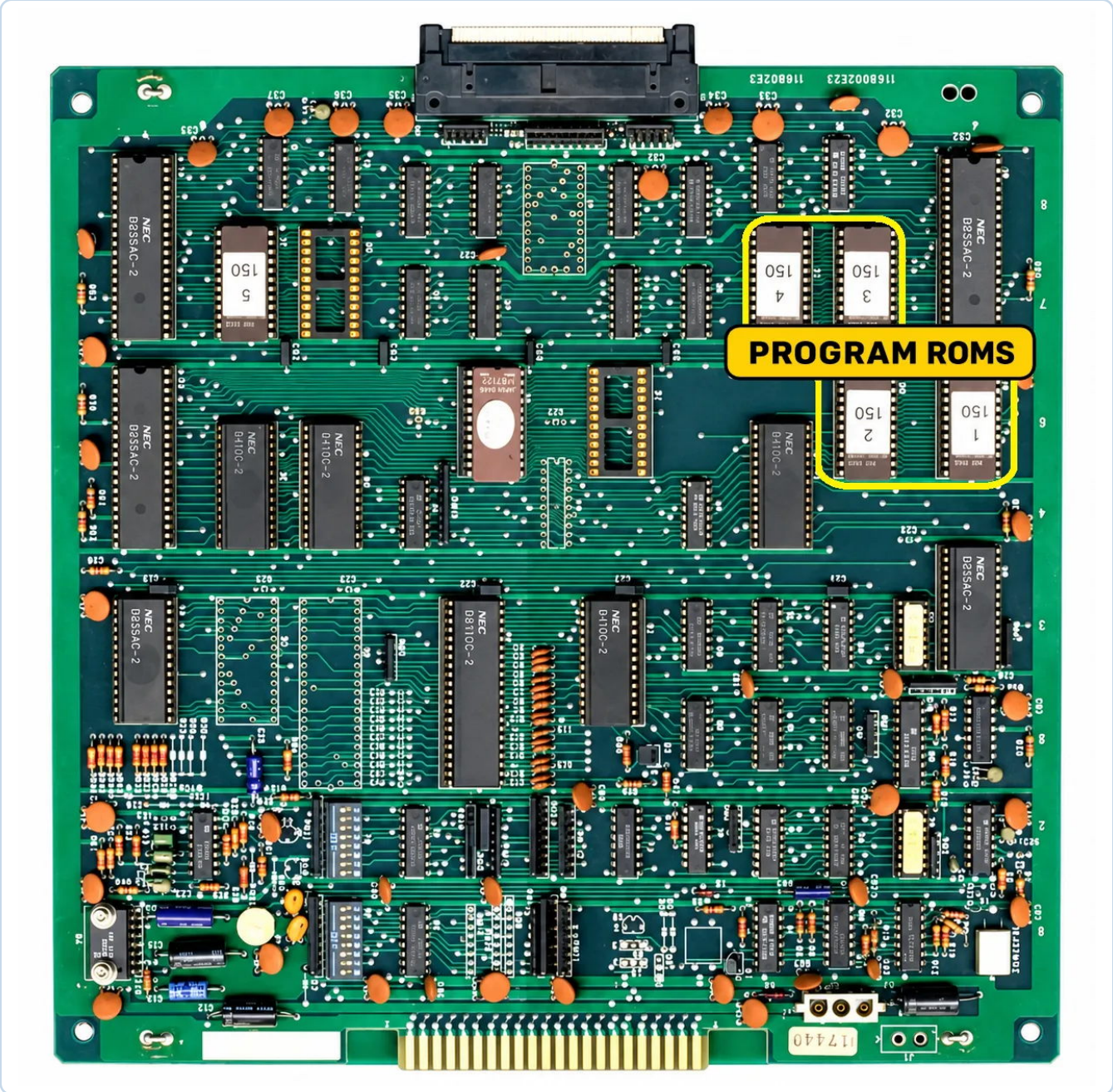
SECOND DAUGHTERCARD REFERENCE

Use the highlighted 3JH/3600 component position on the Namco PCB. Check orientation and placement before fitting the kit.

NAMCO / ORIGINAL PROGRAM ROMS

Namco - program ROM reference

These Program ROMs can be removed.



INSTALLATION / DAUGHTERCARDS

Install the Galaga kit hardware

Follow the correct annotated Midway or Namco hardware positions from the preceding steps.

INSTALLATION SEQUENCE

1. With power OFF, remove the original Z80 from the verified position.
2. Align and seat the working Z80 in the main HighScoreSaves daughtercard.
3. Fit the Z80 daughtercard into the correct original CPU socket.
4. Identify the 3JH/3600 location for your Midway or Namco PCB.
5. Install the 3JH/3600 daughtercard with the correct Pin 1 alignment.

IMPORTANT - PIN 1 AND COMPONENT CLEARANCE

Before powering on, inspect every pin row for full seating. Confirm that no test point, capacitor or other PCB component contacts the underside of either daughtercard. Never force a socketed part into place.

INSTALLATION / COMPLETION

Final inspection and first boot

Complete each check before reconnecting the cabinet power.

CHECK BEFORE RESTORING POWER

Confirm the main Z80 and 3JH/3600 daughtercards are fully seated, both Pin 1 orientations are correct, both cards have sufficient clearance, and all cabinet connectors are secure.

REINSTALL AND TEST

Use your connector photos to return the PCB to the cabinet. Power on and check normal Galaga operation. If the game does not start, power off immediately and inspect seating, Pin 1 and connections.

ENTER SETTINGS MENU

With power off, hold Player 1 Start while powering on the cabinet. Release when the on-screen prompt instructs you. The kit settings screen is then available for supported options.

CHECK YOUR KIT SETTINGS

Verify Free Play or Coin-Up preference and score saving with your board variant. If your PCB differs from the documented Midway/Namco versions, send photos to sales@highscoresaves.com before installation.

FOR WI-FI EDITIONS ONLY

Wi-Fi-enabled kit setup

SAME PHYSICAL INSTALLATION

Midway and Namco installations follow their own marked PCB locations. Set up Wi-Fi only after the local Galaga game is working correctly.

AFTER THE ARCADE KIT IS WORKING

1. **Obtain your PK and SK account keys**
   Use the private credentials provided with your HighScoreSaves Wi-Fi kit.

2. **Enter online settings in the kit menu**
   Enter the keys and enable the supported online options.

3. **Connect the module to Wi-Fi**
   Connect using the current HighScoreSaves instructions for 2.4 GHz Wi-Fi.

4. **Test an online score**
   Complete a qualifying game and confirm the online leaderboard result.

KEEP YOUR PK / SK KEYS PRIVATE

These identify your arcade kit. Refer to the latest HighScoreSaves instructions because supported connection steps can differ by firmware.

> **Open complete Wi-Fi setup instructions**
> Network setup, private keys and online scoring

LINKS / REFERENCES

Helpful resources and support

Open an official HighScoreSaves resource below for product information, kit configuration and technical assistance.

> **Galaga kit product page**
> Product options and installation requirements

> **HighScoreSaves Tips and Tricks**
> Kit operation, menus and troubleshooting

> **Standard vs. Wi-Fi kits**
> Compare local and online scoring options

> **Global Wi-Fi high scores**
> Online scoreboards and Wi-Fi information

> **Installation guide library**
> Other original arcade PCB installation guides

> **HighScoreSaves website**
> Arcade hardware upgrades and support

> **Contact HighScoreSaves**
> Get help with your kit or original PCB

> **Email photos of another PCB**
> Ask for board identification before installation