BAGMAN / SUPER BAGMAN MULTIGAME

FREE PLAY + HIGH SCORE SAVE KIT

ORIGINAL STERN BAGMAN ARCADE HARDWARE



STANDARD + WI-FI EDITIONS

PCB identification • Z80 and GFX installation • Settings • Support

OVERVIEW AND PREPARATION

Before you begin

TWO GAMES - ONE ORIGINAL PCB

The multigame kit adds Bagman and Super Bagman to compatible original Bagman hardware. Both games save the Top 10 scores with initials, with separate supported lives-based score tables.

SAFETY FIRST

Power off and unplug the cabinet before touching the PCB. Use ESD-safe handling and a grounded work area. Stay clear of monitor and power-supply circuitry. Do not work on a powered PCB.

PREPARATION CHECKLIST

- Confirm the original game PCB is fully working before installation.
- Photograph the board, connectors and cable orientations.
- Label connectors and carefully remove the PCB with power off.
- Work on a clean, well-lit, ESD-safe bench.
- Check for a socketed Z80 at 7/8A and the four graphics ROM locations.
- Check space for both daughter cards and the ribbon cable; some cabinets may require PCB cage adjustment.

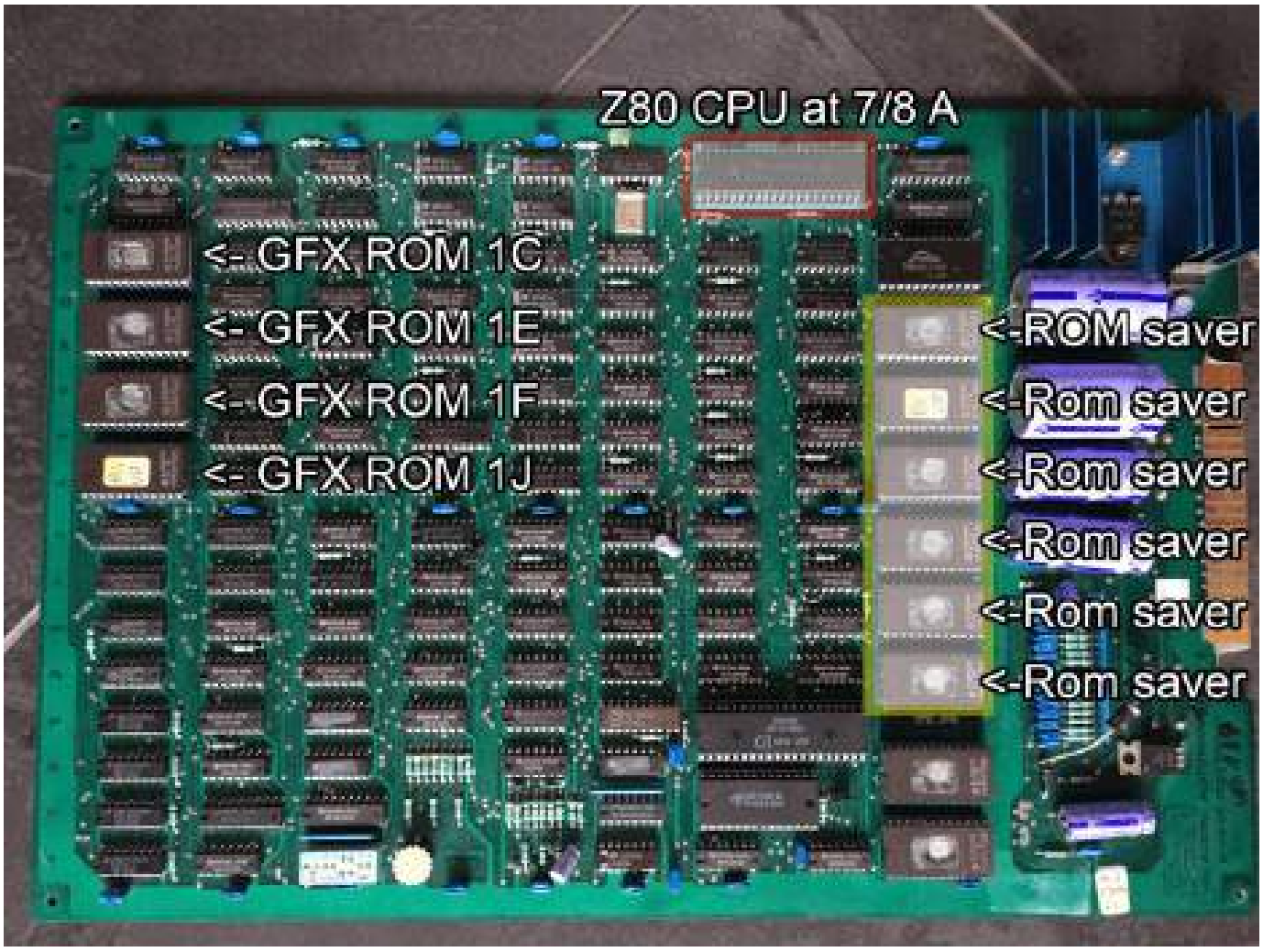
WHAT'S INCLUDED

1 × Z80 daughter card; 1 × GFX (GRFX) daughter card; 1 × ribbon cable. A compatible Z80 is required: reuse your original CPU or select a replacement when ordering.

STEP 0 / BOARD IDENTIFICATION

Identify the correct Bagman PCB

Match your original Bagman board to the photograph below. Locate the **Z80 at 7/8A**, the four graphics ROMs on the left and the six optional program ROMs on the right.



Original annotated Bagman PCB: CPU, graphics ROMs and optional ROM Saver positions.

CHECK THE HARDWARE

This guide is for the compatible original Bagman PCB shown. A compatible 40-pin CPU socket is required. If the Z80 is soldered, have a qualified technician install the socket.

STEP 1 / REMOVE THE CPU

Remove the original Z80 processor

With cabinet power disconnected, locate the Z80 at **7/8A**. Note the notch and Pin 1 orientation before removing the CPU. Carefully lift it evenly from its socket using an appropriate chip puller.



Original close-up of the Z80 at 7/8A. Preserve the notch orientation.

CPU REMOVAL NOTES

Avoid bending pins or levering against nearby components. If the processor is soldered directly to the PCB, stop and arrange professional socket installation.

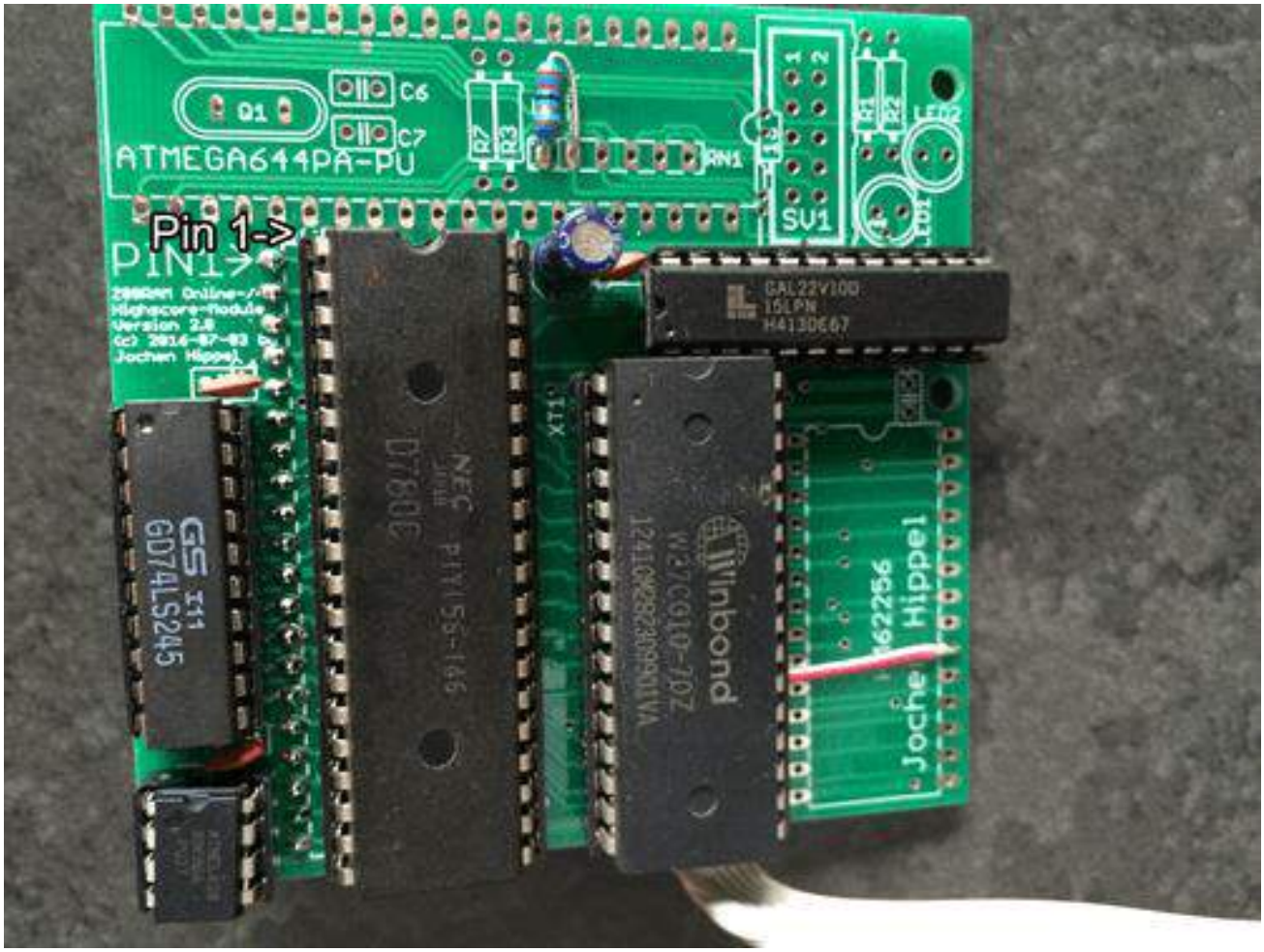
BEFORE THE NEXT STEP

Inspect all 40 CPU pins for damage and confirm the original socket is clean and intact.

STEP 2 / CPU DAUGHTER CARD

Install the Z80 daughter card

Fit the original or replacement Z80 into the main HighScoreSaves daughter card. Match the Z80 notch and Pin 1 to the card markings. Then install the assembled card in the original Z80 socket at 7/8A.



Original main daughter-card photograph: the Pin 1 annotation identifies CPU orientation.

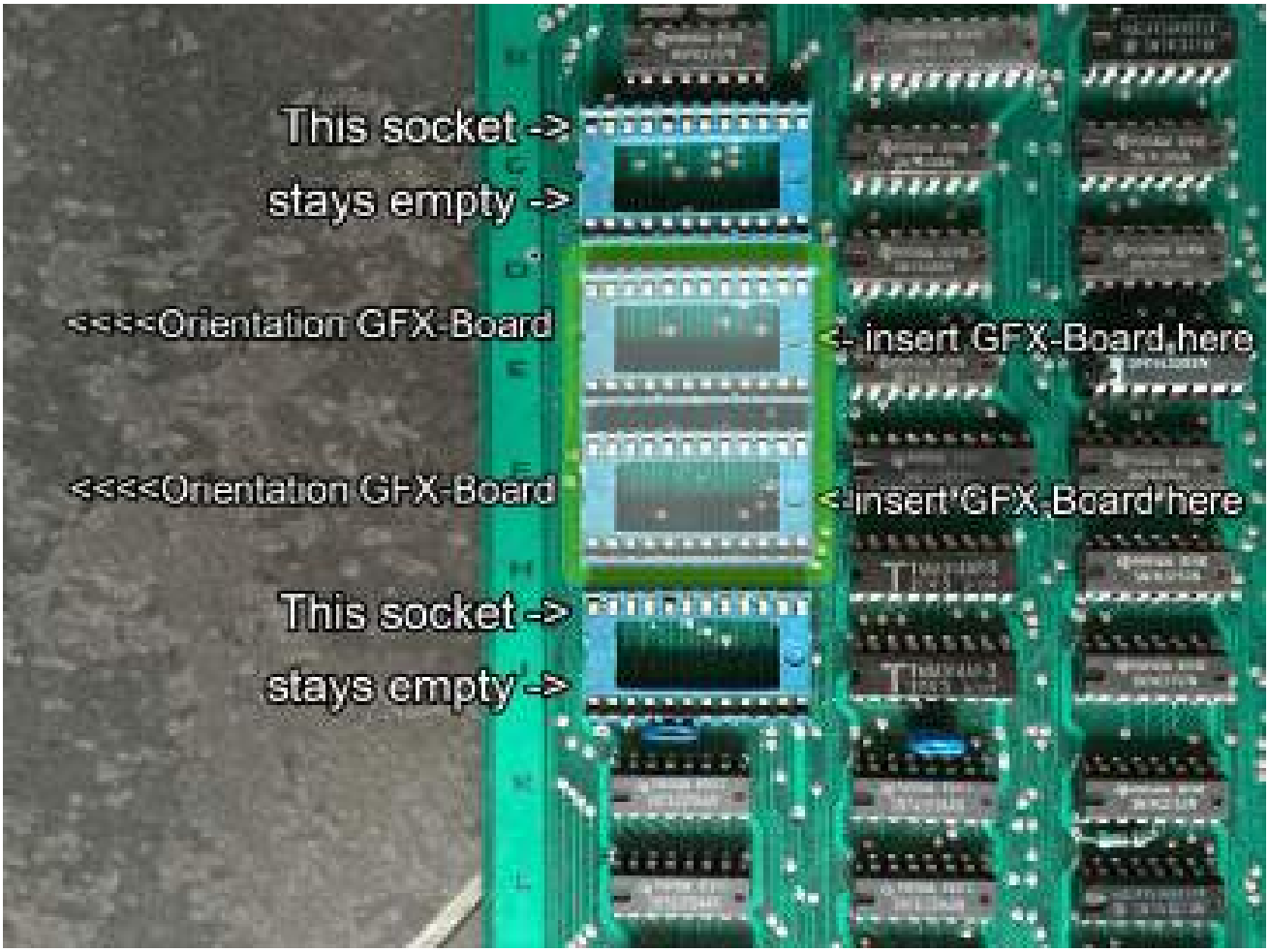
CRITICAL: VERIFY PIN 1

Match the daughter card’s Pin 1 to the original PCB socket orientation. Align all pins before seating; never force the card or leave a pin outside the socket.

STEP 3 / GRAPHICS ROM REMOVAL

Remove the four graphics ROMs

Remove the four original graphics ROMs at **1C, 1E, 1F and 1J**. Label and store them safely. The GFX daughter card uses the two middle sockets, 1E and 1F. The outer sockets at 1C and 1J remain empty.



Original graphics socket reference: middle sockets accept the GFX board; outer sockets stay empty.

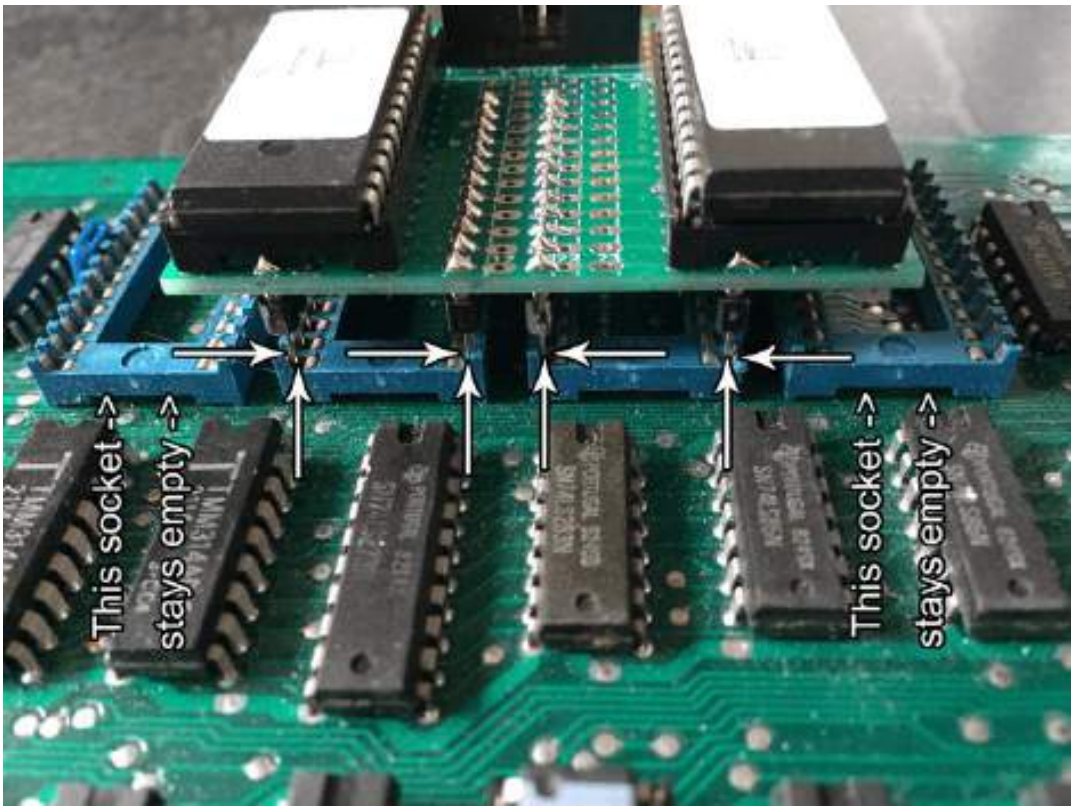
REQUIRED FOR MULTIGAME

Graphics ROM removal is required for the GFX daughter card. This is separate from optional program ROM removal in Step 6.

STEP 4 / GRAPHICS DAUGHTER CARD

Install the GFX daughter card

Align the GFX daughter card with the two middle graphics ROM sockets (1E and 1F). Match the orientation shown in the original photos and seat both connectors evenly. Leave 1C and 1J empty.



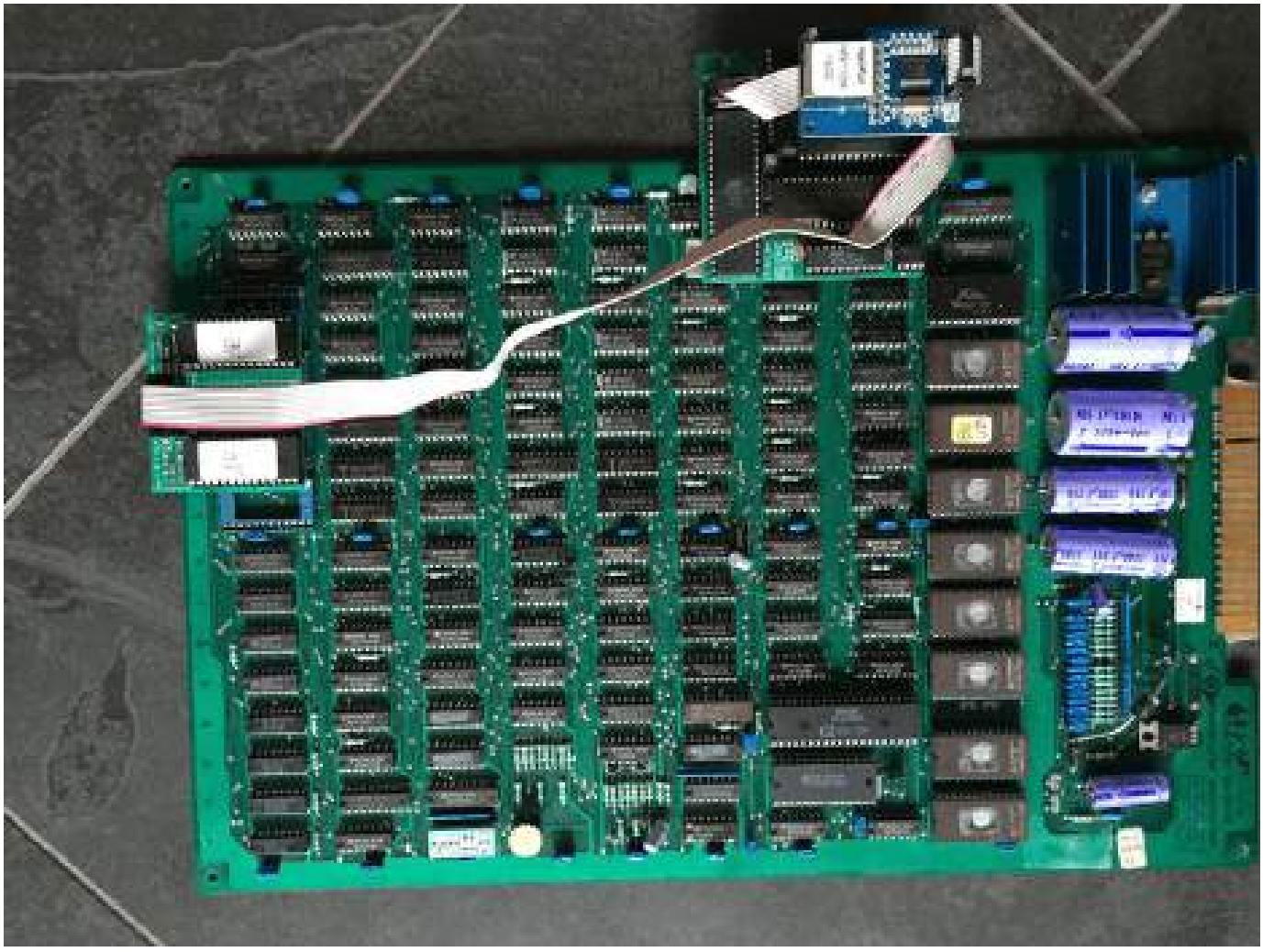
Original side view: GFX daughter card installed in the two middle sockets.

Original overhead view. Check orientation against the markings in the photo. Ensure all pins are seated and no adjacent components contact the daughter card.

STEP 5 / RIBBON CABLE

Connect the daughter cards

Connect the supplied ribbon cable between the main Z80 daughter card and the GFX daughter card, as shown. Align the connectors to their markings and the original installation photograph. Do not force or offset the connectors.



Original installed PCB: ribbon cable links the main and GFX daughter cards.

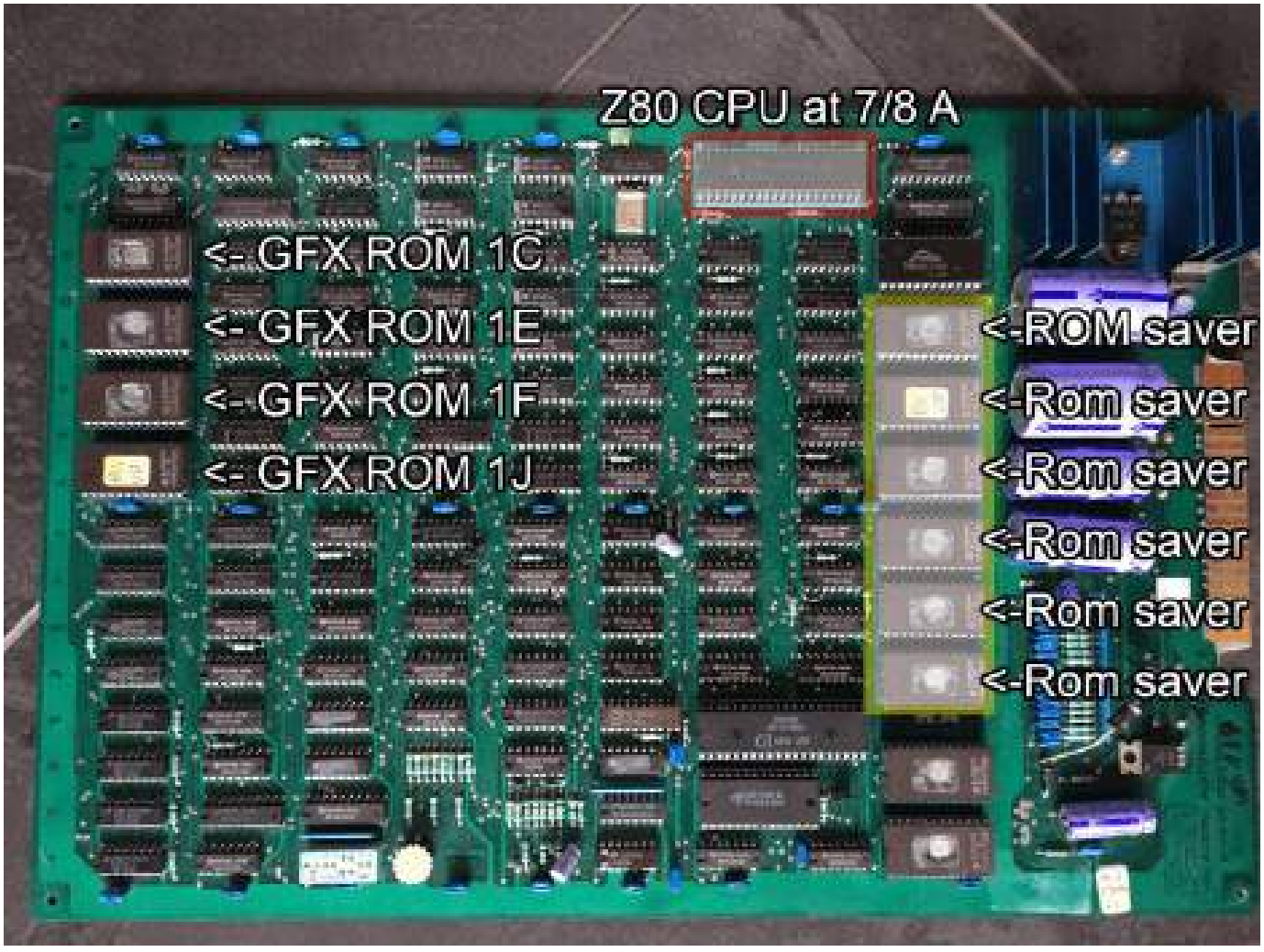
CLEARANCE CHECK

Confirm that both boards and the cable clear the PCB cage and surrounding components. Adjust the cage only as needed to avoid pressure or contact.

STEP 6 / ROM SAVER

Optional: remove program ROMs

The kit supports optional removal of the original program ROMs shown in the photograph. With power off, remove only the six highlighted ROM Saver devices on the right side of the board. Store them safely if removed.



Original annotated PCB: the six right-side program ROMs are identified by ROM Saver arrows.

OPTIONAL - NOT THE GRAPHICS ROMS

Leave the six program ROMs installed if not using ROM Saver. The four graphics ROMs in Step 3 must be removed for the GFX card installation.

STEP 7 / COMPLETION

Final inspection and first test

BEFORE POWERING ON

- Z80 correctly oriented in the main card; main card seated at 7/8A.
- GFX daughter card seated at 1E and 1F; sockets 1C and 1J empty.
- Ribbon cable correctly connected at both ends.
- No bent pins, loose boards or contact with nearby components or cage.
- All cabinet connectors restored in their original orientation.
- If ROM Saver is used, only the six identified program ROMs were removed.

POWER-ON TEST

Reinstall the PCB using your labels and photographs. Reconnect cabinet power and confirm normal operation. Test both games, Free Play and saving a qualifying score.

HOW TO ENTER THE SETTINGS MENU

With power off, hold Player 1 Start while turning on the cabinet. Release when the screen prompts you (approximately 4 seconds). The main settings menu appears.

HOW TO SWITCH GAMES

With the game running, hold Player 1 Start until the screen freezes, then release. Choose Bagman or Super Bagman from the game-selection menu.

IF THE GAME DOES NOT START

Switch off and unplug immediately. Recheck CPU and GFX orientation, seating, ribbon cable, pins and cabinet connectors before trying again.

> **Watch Bagman & Super Bagman Settings Menu Video**
>
> See the game-selection and settings menus on YouTube

FOR WI-FI EDITIONS ONLY

Wi-Fi-enabled kit setup

SAME PHYSICAL INSTALLATION

The Wi-Fi version uses the same Z80, GFX and ribbon cable installation. Complete the physical installation and confirm both games work before setting up online scoring.

AFTER THE ARCADE KIT IS WORKING

1. **Obtain your PK and SK account keys**

   Follow the current HighScoreSaves Wi-Fi setup instructions for your leaderboard account.

2. **Enter online settings in the kit menu**

   Enter the supplied keys exactly and enable online scoring as instructed.

3. **Connect the module to Wi-Fi**

   Use the current module setup instructions to connect to a compatible 2.4 GHz network.

4. **Test an online score**

   Play a qualifying game and check the online leaderboard.

KEEP YOUR PK / SK KEYS PRIVATE

Use the current Wi-Fi instructions for connection and troubleshooting. Local score saving and gameplay remain available without Wi-Fi.

> **Open complete Wi-Fi setup instructions**
>
> Current HighScoreSaves Wi-Fi kit information

LINKS / REFERENCE

Helpful resources and support

Click the resources below for current documentation, setup instructions and kit-specific information.

> **Bagman Multigame product page**
> Kit versions, supported features and ordering options

> **Bagman PCB compatibility**
> Compare Standard and Multigame kits

> **Bagman & Super Bagman settings-menu video**
> Watch game selection and menu controls on YouTube

> **HighScoreSaves kit tips and tricks**
> Menu access, score features and troubleshooting

> **Wi-Fi setup and Standard comparison**
> Current Wi-Fi information and online scoring

> **Installation guide library**
> PDF guides for other HighScoreSaves kits

> **Contact HighScoreSaves**
> Technical support and contact information

HighScoreSaves.com • Original arcade PCB upgrades since 2015

Revision history: Rev 1.0 | November 15, 2026 | Redesigned installation guide