

MULTIGAME INSTALLATION

Exidy 440 Multigame



FREE PLAY + HIGH SCORE SAVE KIT

ORIGINAL EXIDY 440 ARCADE HARDWARE

6809E CPU | 6809 sound CPU | Three daughtercards | Ribbon cable

OVERVIEW AND SAFETY

Before you begin

MULTIBOARD INSTALLATION

This kit uses a main 6809E daughtercard, a 6809 sound daughtercard and a sound PCB daughtercard. Follow both the CPU-board and sound-board sections in order.

SAFETY FIRST

Turn the cabinet OFF and unplug it before handling either arcade PCB. Stay clear of the CRT high-voltage area. Observe ESD precautions and confirm connector positions before disassembly.

PREPARATION CHECKLIST

- Confirm the original Exidy 440 hardware works before beginning.
- Photograph and label each cable and board connector.
- Remove the board stack to a well-lit, static-safe work surface.
- Record original processor, PROM, and DIP switch orientations.
- Check CPU sockets, standoffs, and all kit components.

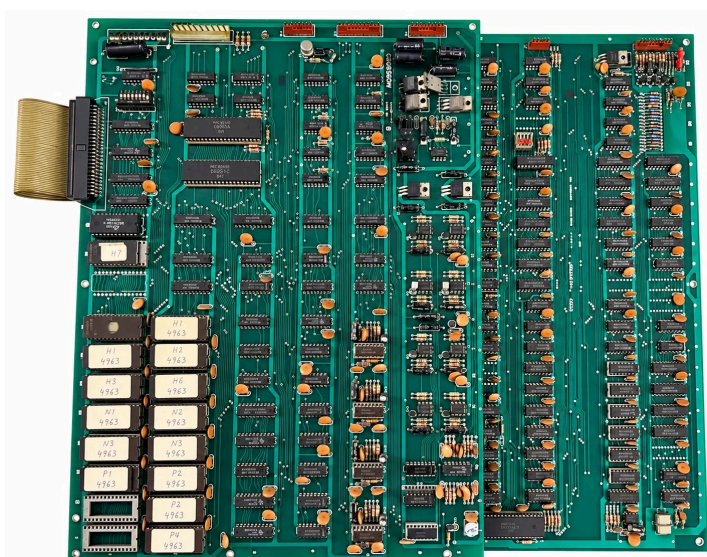
PROCESSOR REQUIREMENTS

A compatible 6809E and 6809 processor are required. The original guide says these can be transferred from your boards or purchased with the kit.

STEP 1 / PREPARE BOARD STACK

Separate CPU and sound PCBs

Remove the Exidy 440 board stack after recording every connector position. Carefully release the nylon standoffs securing the CPU and sound PCBs. Set the sound PCB aside while you prepare the CPU board.



Original Exidy 440 CPU and sound PCB stack, before separation.

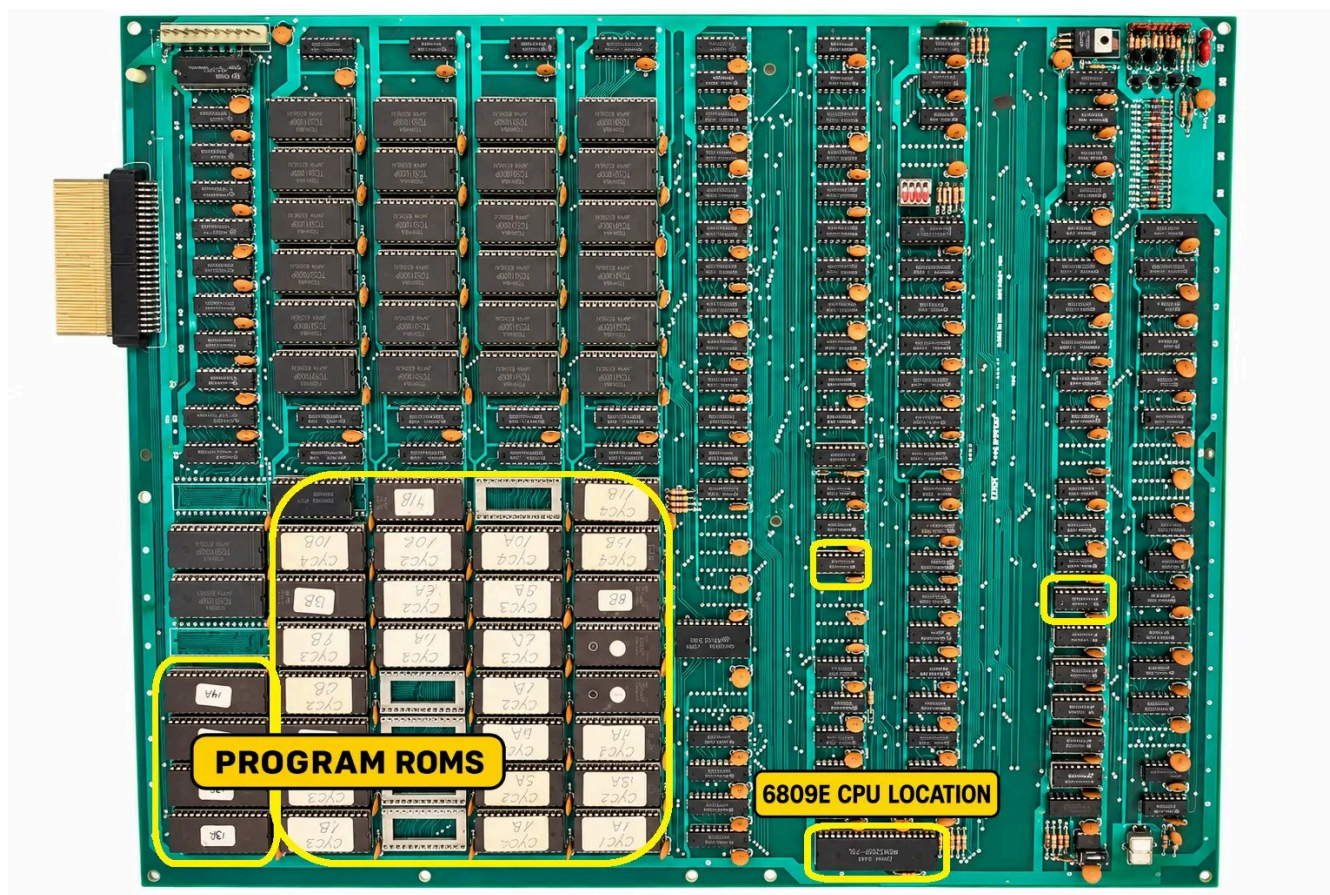
KEEP BOARDS ORGANIZED

Do not force the nylon standoffs. Photograph each released mounting position so the boards can be stacked and secured again after installation.

STEP 2 / CPU BOARD

Remove highlighted CPU-board EPROMs

On the CPU PCB, remove the EPROMs highlighted in red in the original installation photo. Many boards are Cheyenne PCBs, even when running another Exidy 440 game. Photograph chip positions and store removed EPROMs safely.



Annotated CPU PCB identifying program ROMs and the 6809E CPU.

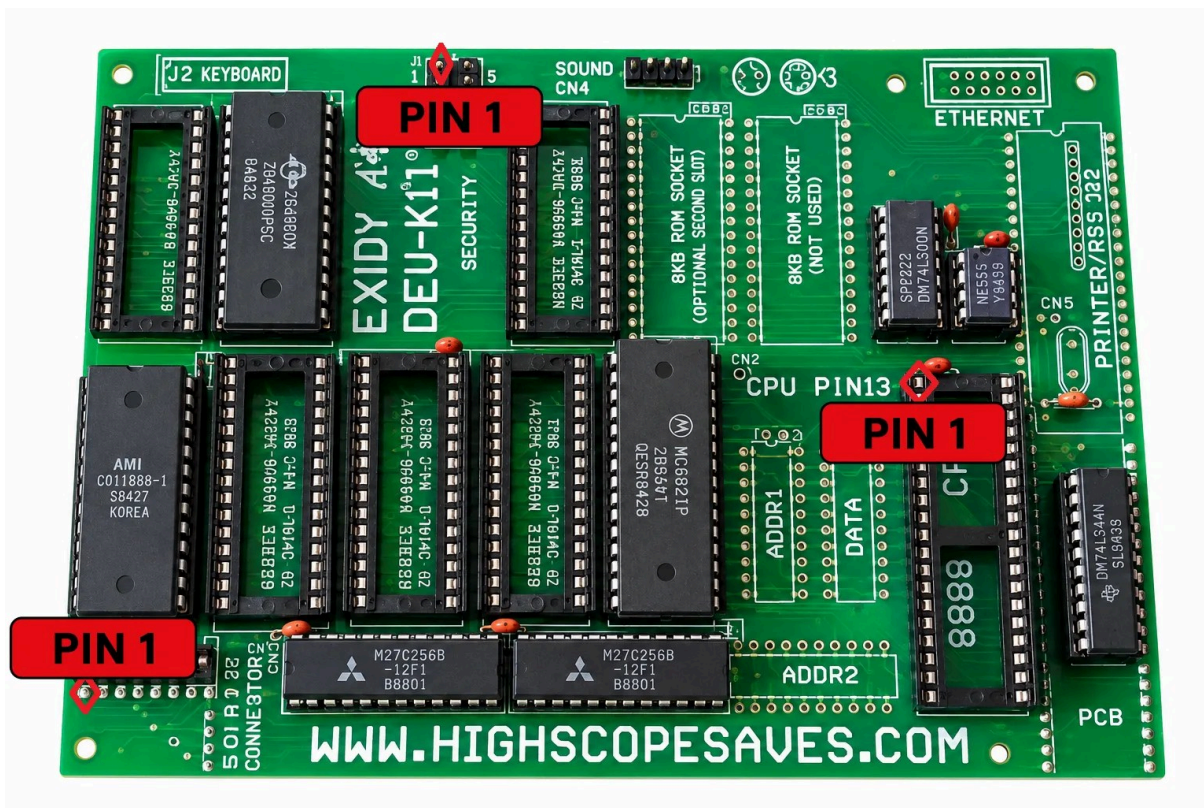
IMPORTANT

Only remove the EPROMs marked in the original photograph. Yellow outlines identify other locations and must not be mistaken for the red EPROM removal boxes.

STEP 3 / CPU DAUGHTERCARD

Transfer 6809E and PROMs

Transfer the original 6809E processor to the main daughtercard, matching Pin 1. Then transfer the PROM at K7 and the PROM at H9 to the corresponding kit sockets, preserving each device orientation.



Main daughtercard showing Pin 1 orientation reference points.

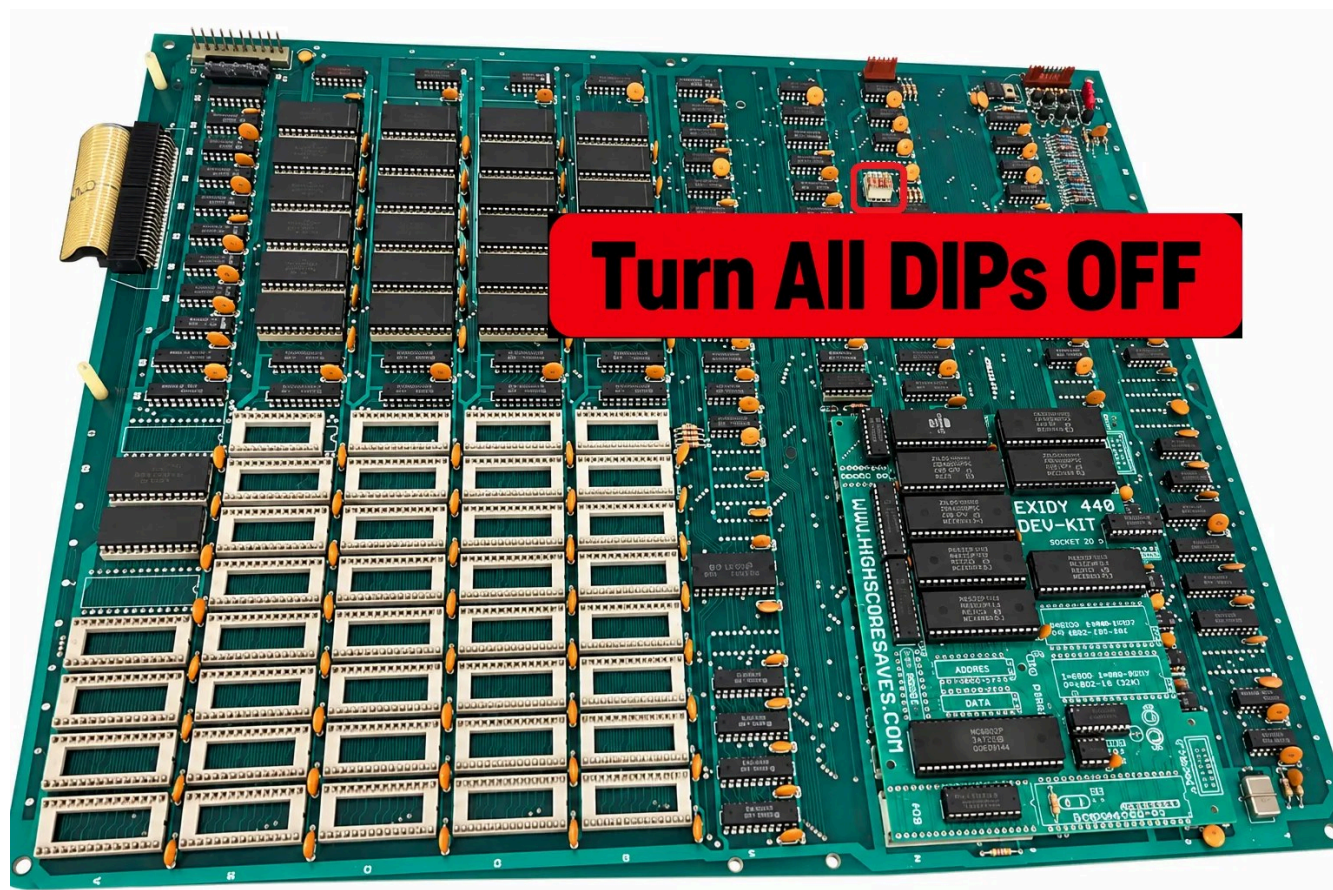
CHECK ALL THREE DEVICES

Confirm the 6809E, K7 PROM, and H9 PROM are fully seated and correctly oriented before installing the main daughtercard. Do not force any pins.

STEP 4 / CPU BOARD

Install main daughtercard and set DIP

Install the main daughtercard into the CPU PCB at the three required socket/header locations. Align every pin before pressing evenly. Set the CPU PCB four-switch DIP bank to OFF, as directed by the original guide.



Main daughtercard installed on the CPU PCB; CPU DIP switches OFF.

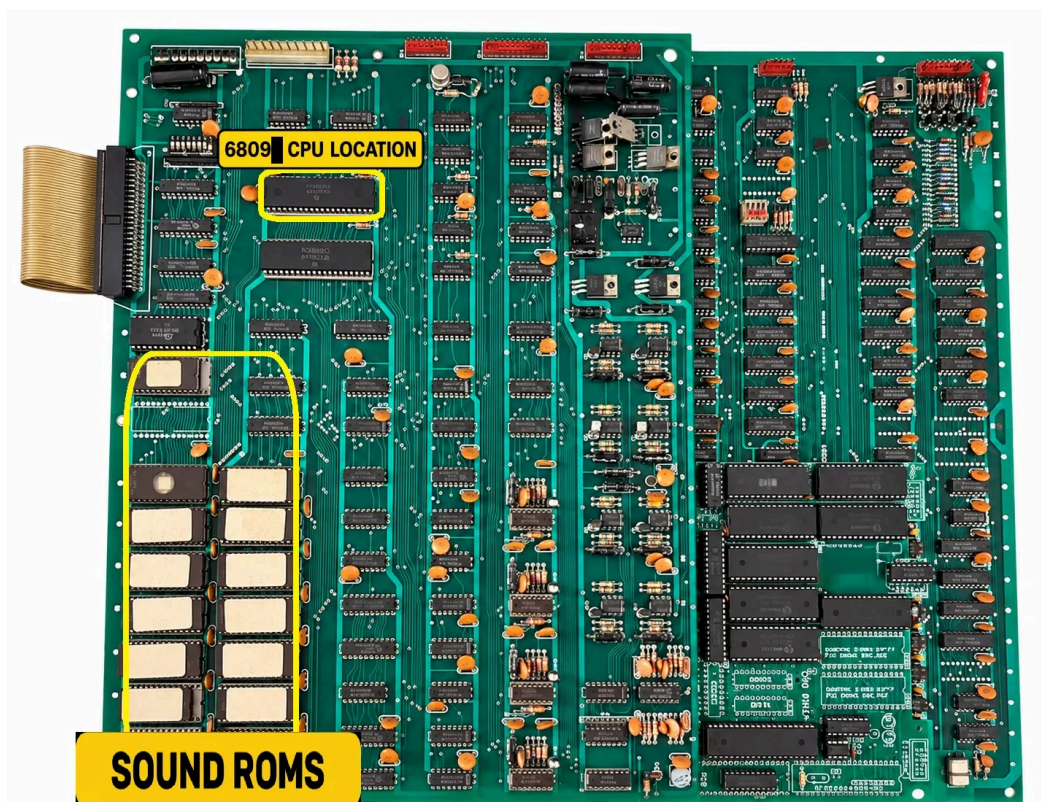
BOARD CLEARANCE

Verify all three connection points and confirm the daughtercard does not contact surrounding hardware.

STEP 5 / SOUND BOARD

Remove sound CPU and EPROMs

On the sound PCB, remove the original 6809 processor and save it for installation onto the 6809 daughtercard. Remove the EPROMs highlighted with red outlines in the original sound-board photograph; record positions and save the chips.



Sound PCB: sound ROM locations and original 6809 processor.

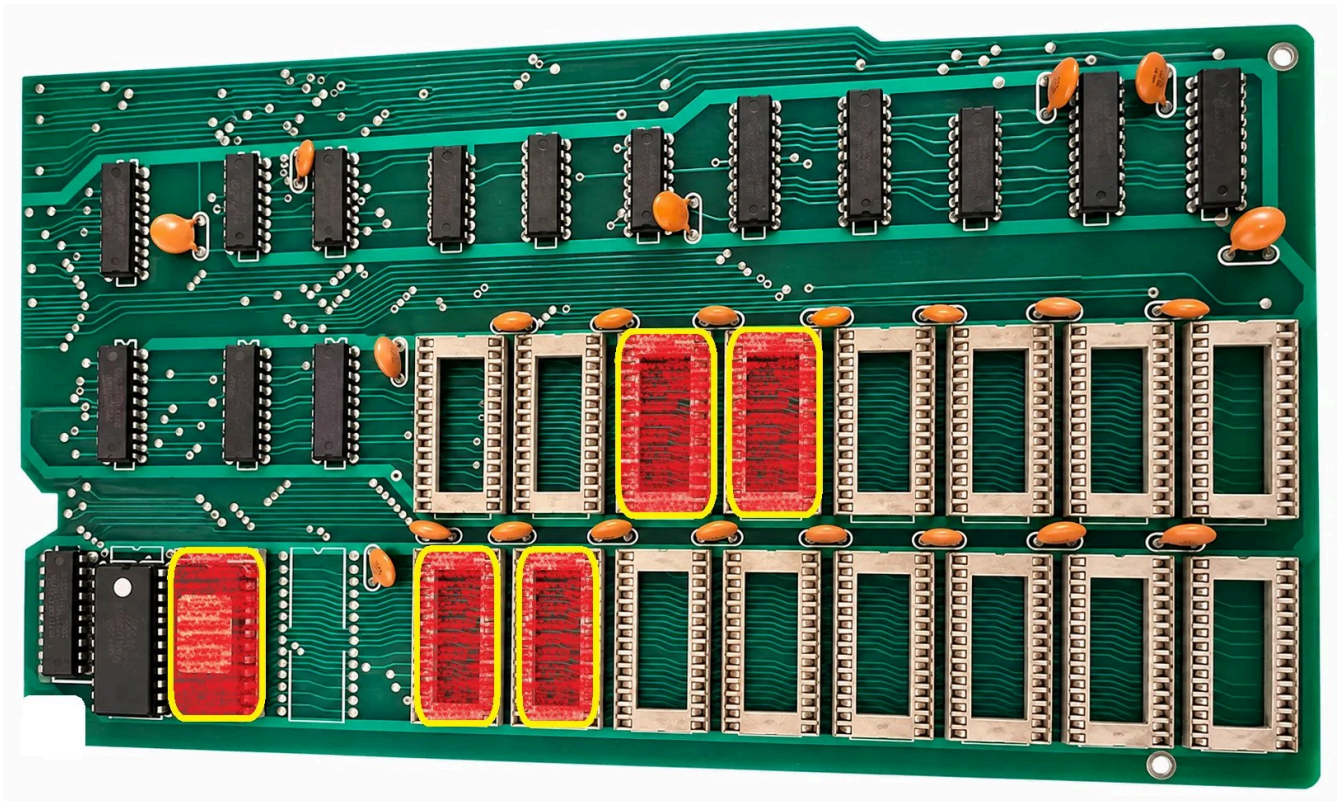
KEEP THE 6809 PROCESSOR

Do not discard the 6809 CPU. It is used again on the sound daughtercard. Keep all removed EPROMs labeled and safely stored.

STEP 6 / SOUND BOARD

Identify sound daughtercard sockets

The original installation photographs mark where the sound daughtercard headers fit the sound PCB. Inspect the locations and verify that the required sockets are intact and unobstructed.

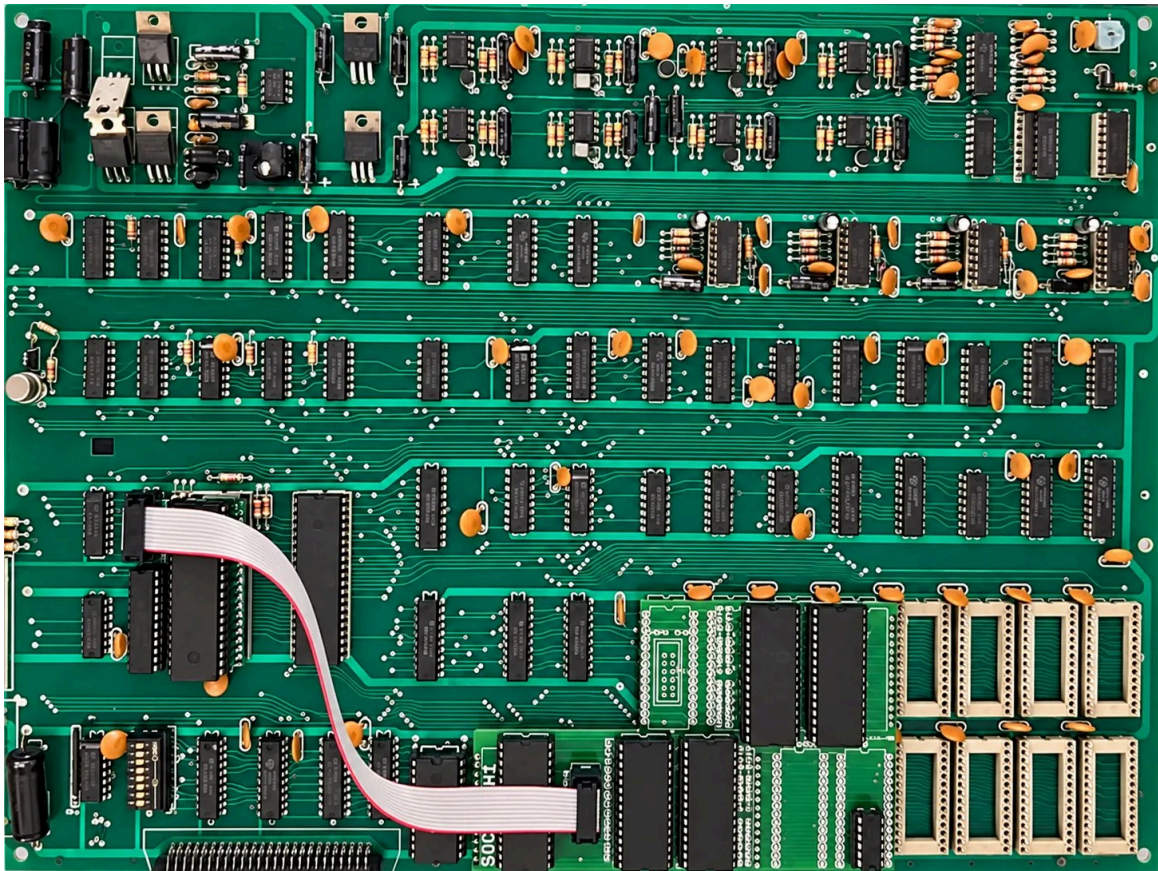


Sound PCB socket locations before fitting the sound daughtercard.

STEP 7 / SOUND BOARD

Install sound daughtercard

Align the sound daughtercard headers with their corresponding sound PCB sockets. Press evenly, checking that each header enters its socket correctly. The original photograph shows the sound daughtercard installed.



Sound daughtercard and connecting ribbon cable installed.

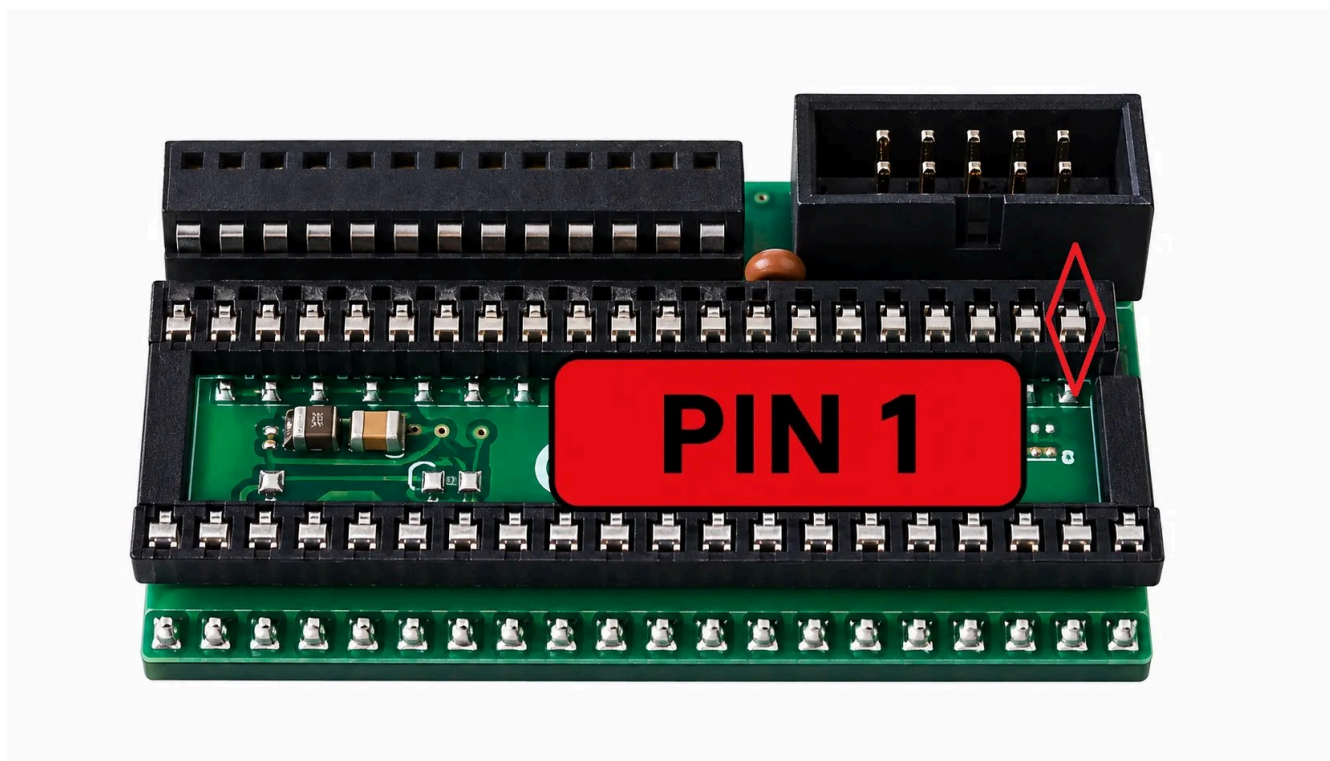
INSPECT BEFORE CONTINUING

Confirm correct alignment at each socket. Avoid applying force if a header or pin is misaligned.

STEP 8 / SOUND CPU

Transfer and install the 6809

Transfer the 6809 processor you set aside onto the small 6809 daughtercard, matching Pin 1. Install this daughtercard at the original sound PCB CPU position identified as C2/C3 in the source instructions.

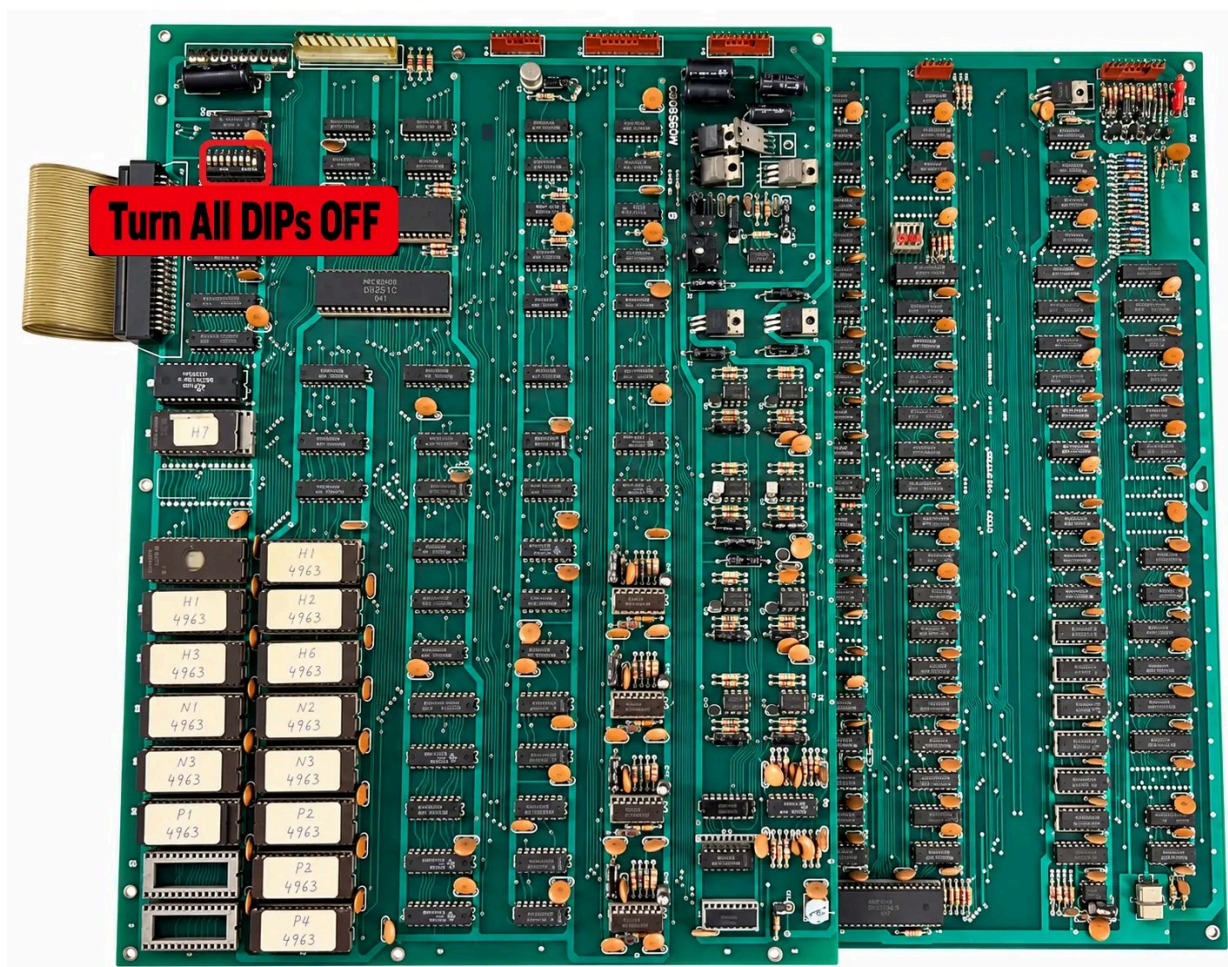


6809 daughtercard: Pin 1 orientation reference.

STEP 9 / RIBBON CABLE

Connect boards and set sound DIP

Attach the supplied ribbon cable between the 6809 daughtercard and the sound daughtercard in the orientation shown. Set all switches in the sound PCB eight-switch DIP bank to OFF.



Sound PCB showing ribbon cable and DIP switch location.

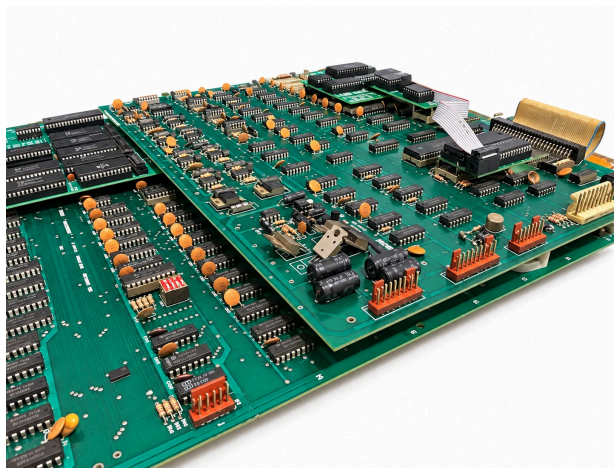
RECHECK RIBBON ORIENTATION

Verify the cable is fully seated at both ends and does not snag components when the board stack is reassembled.

STEP 10 / VERIFICATION

Reassemble and test

Check the seating and orientation of each of the three daughtercards, both processors, the transferred PROMs, and the ribbon cable. Reconnect the PCB stack using the mounting hardware and connector photographs taken earlier.



Completed Exidy 440 board stack, ready for final inspection.

FIRST POWER-ON

Reinstall the stack into the cabinet, restore connectors, and power on. Confirm normal operation. If the game does not start, power OFF immediately and recheck connections, Pin 1 orientation, and DIP positions.

SETTINGS MENU

The original guide says to hold Player 1 Start while powering on and release the button when prompted on screen. Review settings after the game starts correctly.

Wi-Fi-enabled kit setup

SAME PHYSICAL INSTALLATION

Complete the Exidy 440 CPU and sound-board installation first. The Wi-Fi edition uses the same physical installation; configure online features only after the arcade kit is working.

AFTER THE ARCADE KIT IS WORKING

1

Obtain your PK and SK account keys

Follow the setup emails and instructions sent by HighScoreSaves for your Wi-Fi leaderboard account.

2

Enter online settings in the kit menu

Enter the supplied PK and SK keys exactly; enable online scoring as instructed and save the menu settings.

3

Connect the module to Wi-Fi

Use the kit module's temporary Wi-Fi network and setup page to select a compatible 2.4 GHz home network.

4

Test an online score

After Wi-Fi setup, play and submit a qualifying score; check the linked online leaderboard page.

KEEP YOUR PK / SK KEYS PRIVATE

Wi-Fi configuration is version-specific. Use the current HighScoreSaves online setup guide for full connection steps and error messages.

[Open complete Wi-Fi setup instructions >](#)

Current network setup, PK/SK keys, and online scoring instructions

Helpful resources and support

The following resources support Exidy 440 kit installation and troubleshooting.

Exidy 440 Multigame kit product page

[Open resource >](#)

HighScoreSaves website

[Open resource >](#)

Standard vs. Wi-Fi kits

[Open resource >](#)

HighScoreSaves Tips and Tricks

[Open resource >](#)

Contact HighScoreSaves

[Open resource >](#)