

Circus Charlie

FREE PLAY + HIGH SCORE SAVE KIT | KONAMI ORIGINAL PCB | STANDARD + WI-FI



Circus Charlie Free Play and High Score Save Kit Installation Guide

For documented compatible original Konami Circus Charlie hardware.

Before you begin

Read the preparation steps before handling the original Circus Charlie arcade board.

POWER OFF AND UNPLUG

Disconnect cabinet power before touching the PCB. Work on an anti-static surface and avoid handling IC pins.

PREPARATION CHECKLIST

- Confirm Circus Charlie plays correctly before modification.
- Label PCB connectors and photograph their orientation.
- Remove the original PCB and place it on a clean work surface.
- Identify the Konami 1 position before removing any IC.
- Check the supplied Konami 1 adapter and 6809 daughtercard.

KIT PARTS REFERENCED IN THIS GUIDE

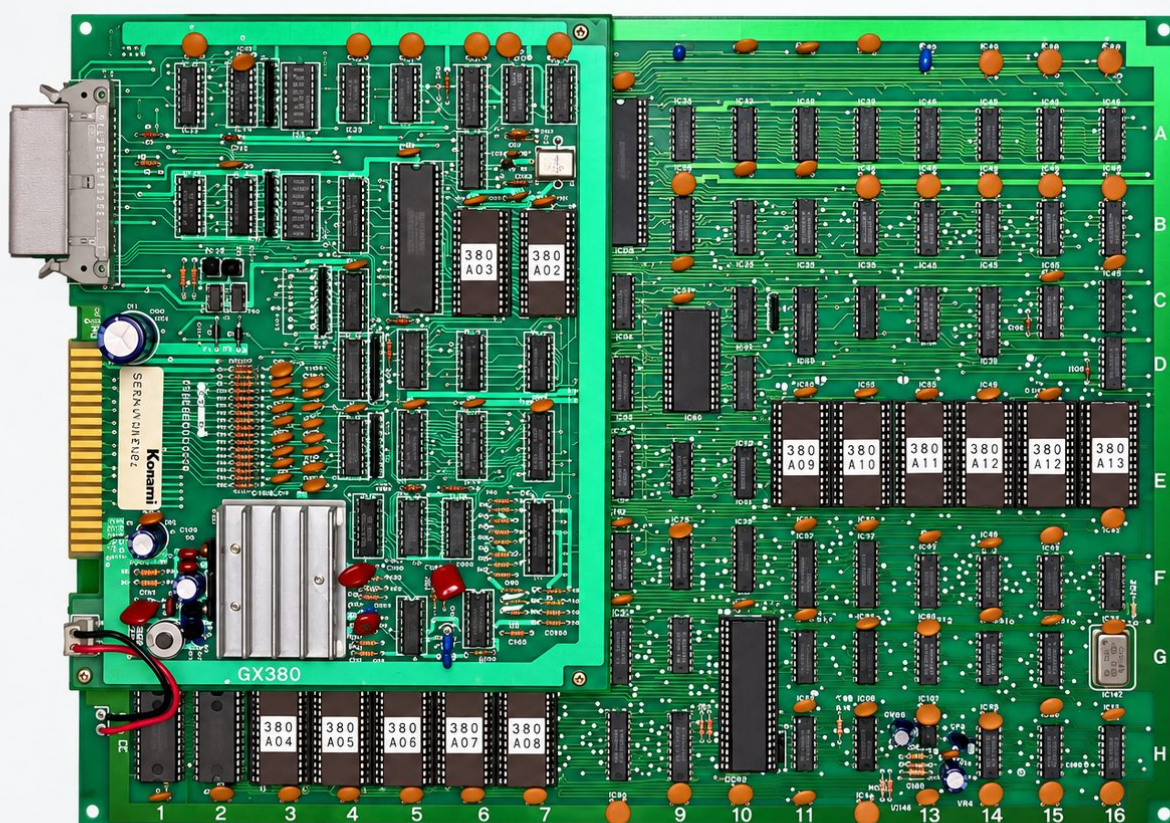
1 Konami 1 adapter • 1 6809 daughtercard

6809E processor required (the original guide notes a purchase option).

STEP 0 / PCB IDENTIFICATION

Identify the original PCB

Confirm this is a compatible original Circus Charlie arcade PCB before proceeding.



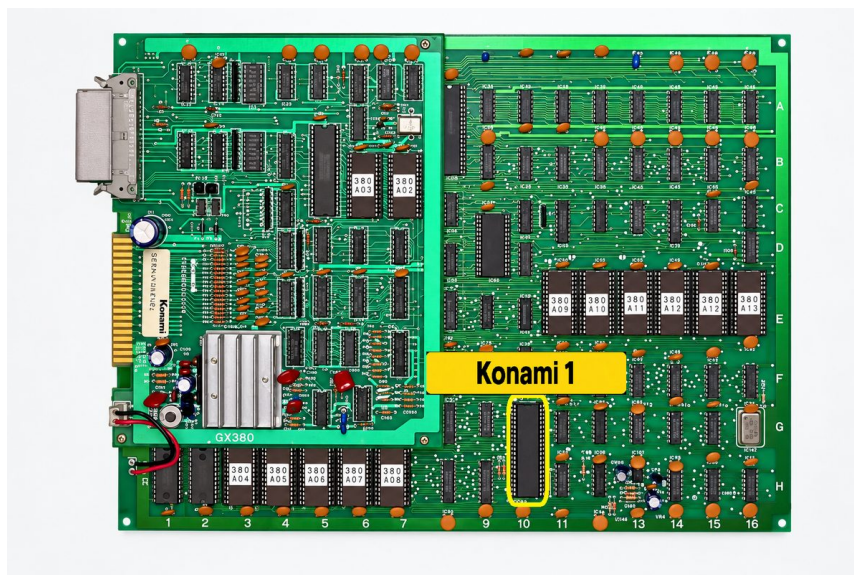
HARDWARE CHECK

Compare PCB layout and board connections with your hardware.

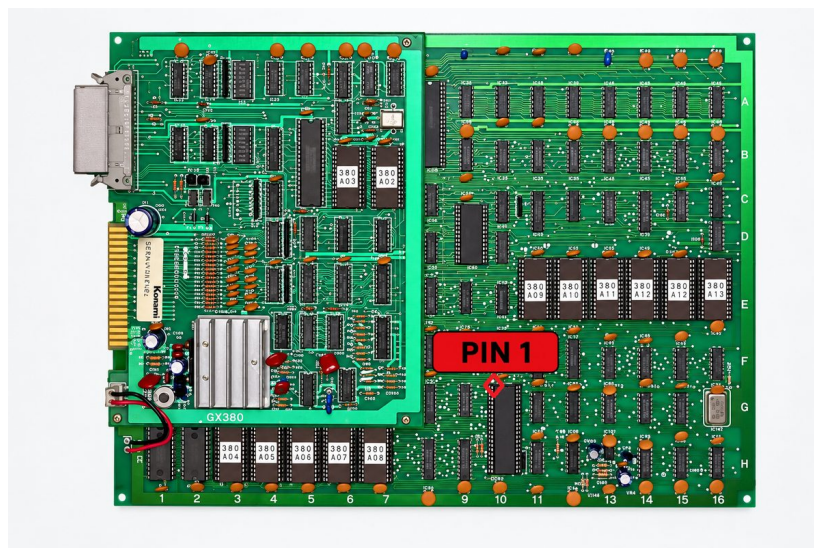
STEP 1 / ORIGINAL KONAMI 1

Locate and remove Konami 1

Find the original Konami 1 chip on the main PCB, then verify its Pin 1 orientation before removal.



Locate the original Konami 1 chip.



Confirm Pin 1 orientation before removing the chip.

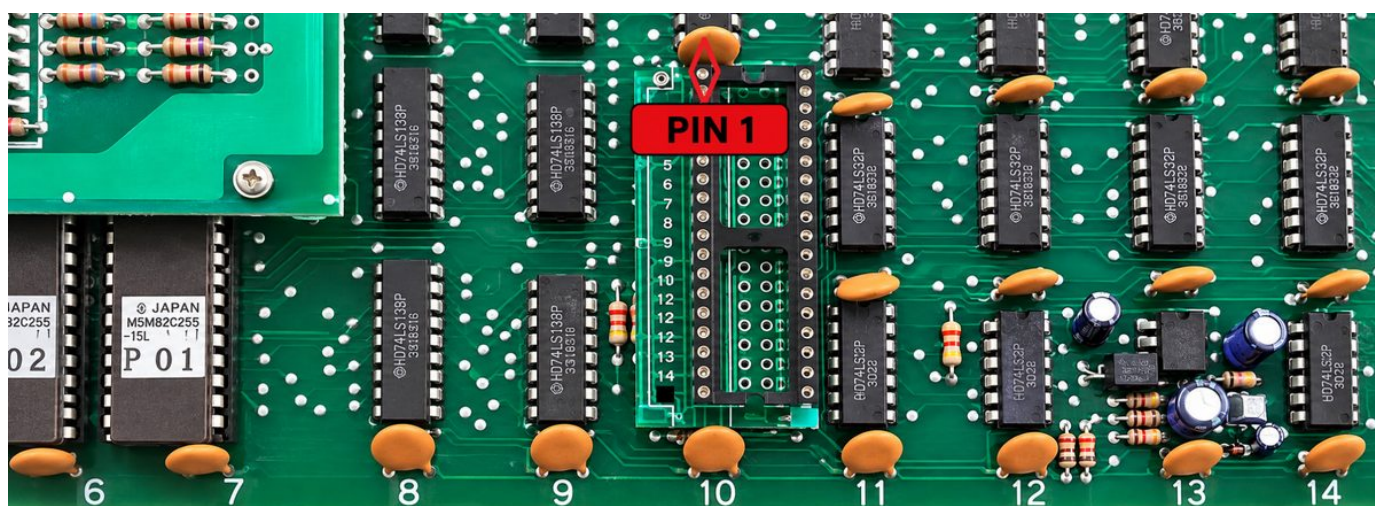
REMOVE ONLY AFTER VERIFYING PIN 1

Carefully extract the original Konami 1 and store it safely. It is not reinstalled for this conversion.

STEP 2 / ADAPTER

Install the Konami 1 adapter

Carefully align the adapter with the vacant Konami 1 socket; do not force the header.

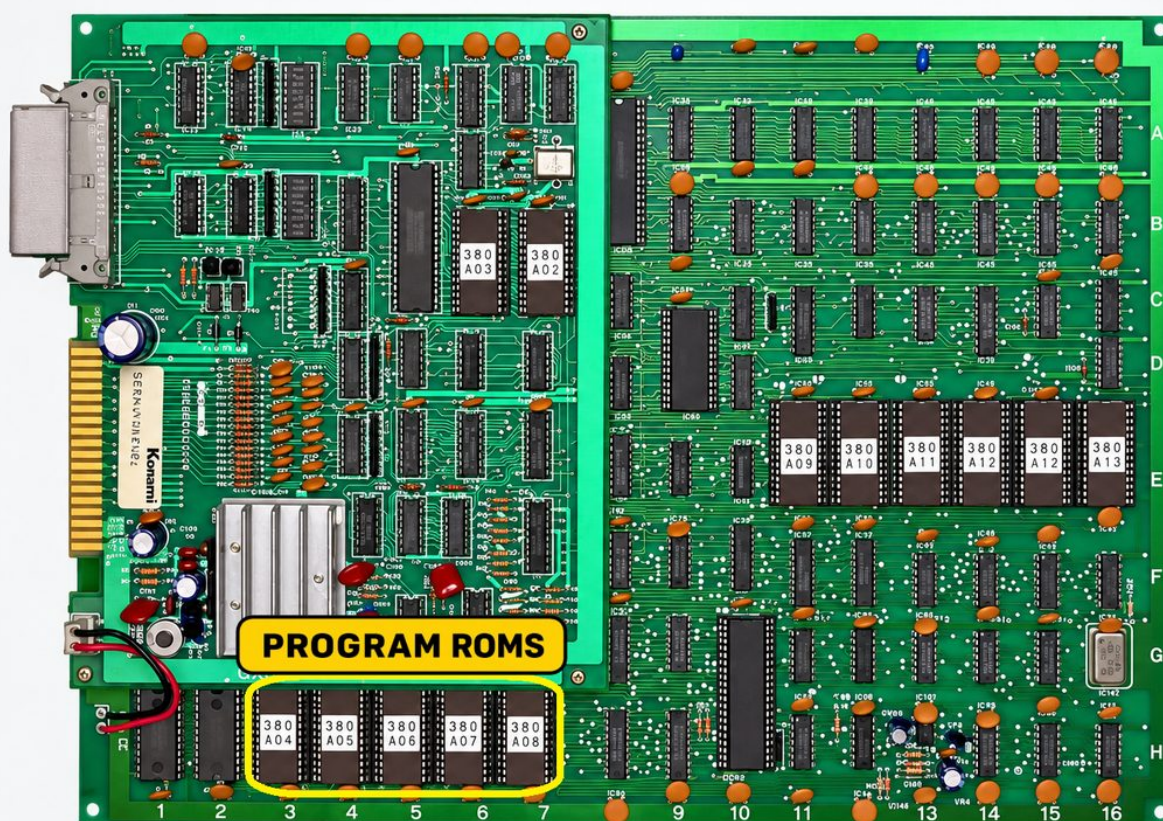


ALIGNMENT

Confirm socket position and Pin 1 orientation against the original board before seating the adapter evenly.

Optional Program ROM removal

This is a separate optional step and is not required for the standard physical installation sequence.



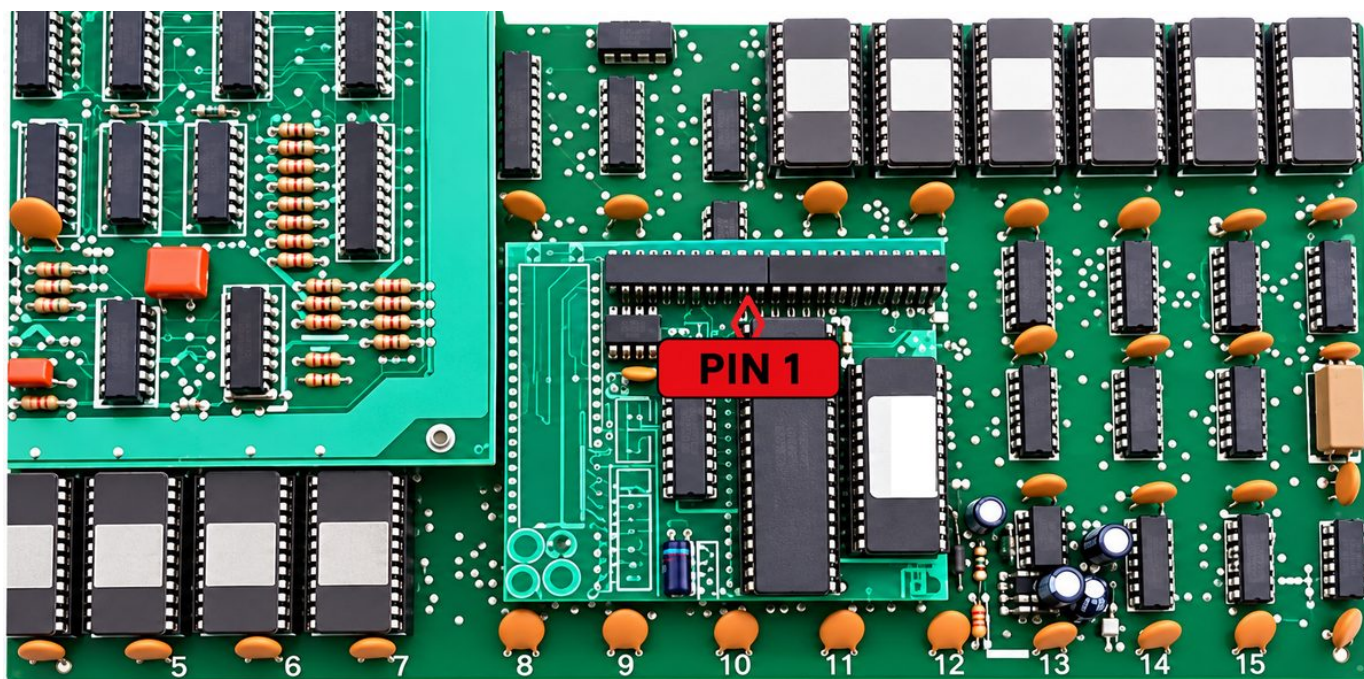
OPTIONAL ONLY

The annotated image identifies original Program ROMs 380 A04 through 380 A08. Remove these only when using the kit ROM-saver option as instructed.

STEP 3 / DAUGHTERCARD

Install the 6809E daughtercard

Fit the compatible 6809E processor on the kit daughtercard, then install the daughtercard onto the Konami 1 adapter.

**CRITICAL: PIN 1**

Check Pin 1 orientation and daughtercard alignment before installation. A reversed processor or shifted header can prevent the board from working.

Final inspection and first test

Double-check all connections before reinstalling the PCB and restoring power.

Original Konami 1 removed and stored safely.

Konami 1 adapter fully seated and correctly oriented.

6809E correctly installed on daughtercard with Pin 1 aligned.

Daughtercard fully aligned with adapter.

Any optional Program ROM removal matches the intended configuration.

Cabinet connectors reattached in original positions.

FIRST POWER ON

Power up and verify normal gameplay. If the game does not start, turn power off immediately and inspect orientation and connections before retrying.

FOR WI-FI EDITIONS ONLY

Wi-Fi-enabled kit setup

SAME PHYSICAL INSTALLATION

Standard and Wi-Fi Circus Charlie kits use the same Konami 1 adapter and 6809E daughtercard installation. Configure online scoring after local gameplay works.

AFTER THE ARCADE KIT IS WORKING

1

Obtain your PK and SK account keys

Follow the setup messages and instructions supplied by HighScoreSaves for your Wi-Fi leaderboard account.

2

Enter online settings in the kit menu

Enter your supplied PK and SK keys exactly; enable online scoring and save the settings.

3

Connect the module to Wi-Fi

Use the module temporary Wi-Fi network and setup page to join a compatible 2.4 GHz network.

4

Test an online score

Submit a qualifying completed score and check your online leaderboard after setup.

KEEP YOUR PK / SK KEYS PRIVATE

These keys belong to the kit owner. Wi-Fi setup may vary by firmware; use the current HighScoreSaves instructions for connection steps and troubleshooting.

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Open complete Wi-Fi setup instructions

Network setup, 2.4 GHz Wi-Fi, private keys and score submission

Helpful resources and support

Select a resource below to open the corresponding HighScoreSaves page. Confirm hardware compatibility before installation.



Circus Charlie kit product page

Compatible PCB requirements, kit options and installation



Circus Charlie hardware compatibility

Confirm the original Konami PCB and processor requirements



HighScoreSaves Tips and Tricks

Kit operation, menu settings and troubleshooting



Standard vs. Wi-Fi kits

Wi-Fi network, online leaderboard and Standard kit options



Global Wi-Fi high scores

Online leaderboards and setup information



Installation guide library

Other original arcade PCB installation guides



HighScoreSaves website

Additional arcade kit documentation and upgrades



Contact HighScoreSaves

Installation, hardware compatibility and support