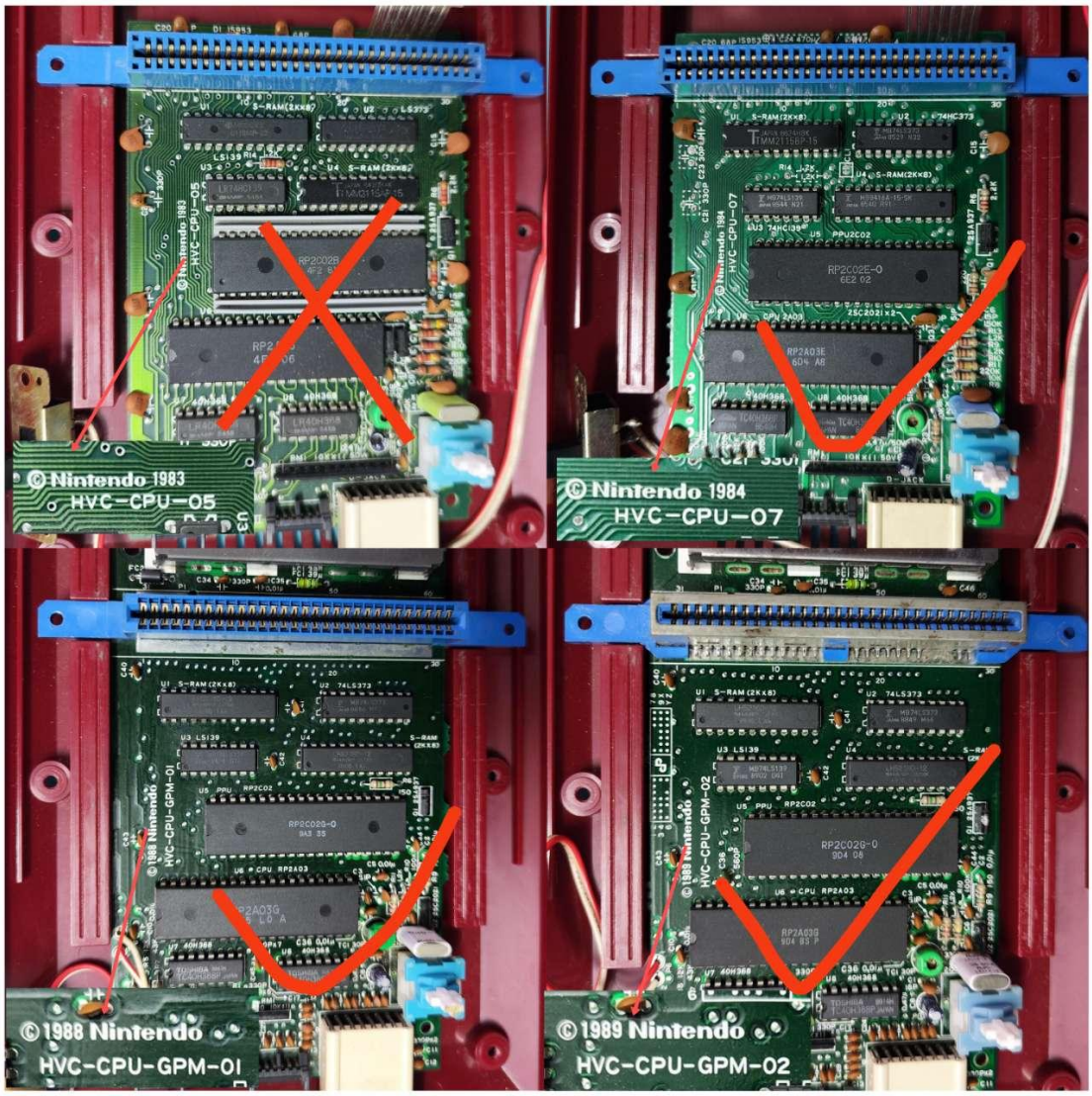
LAVA RGB kit installation instructions to Famicom

Under the motherboard diagram of supported installation models

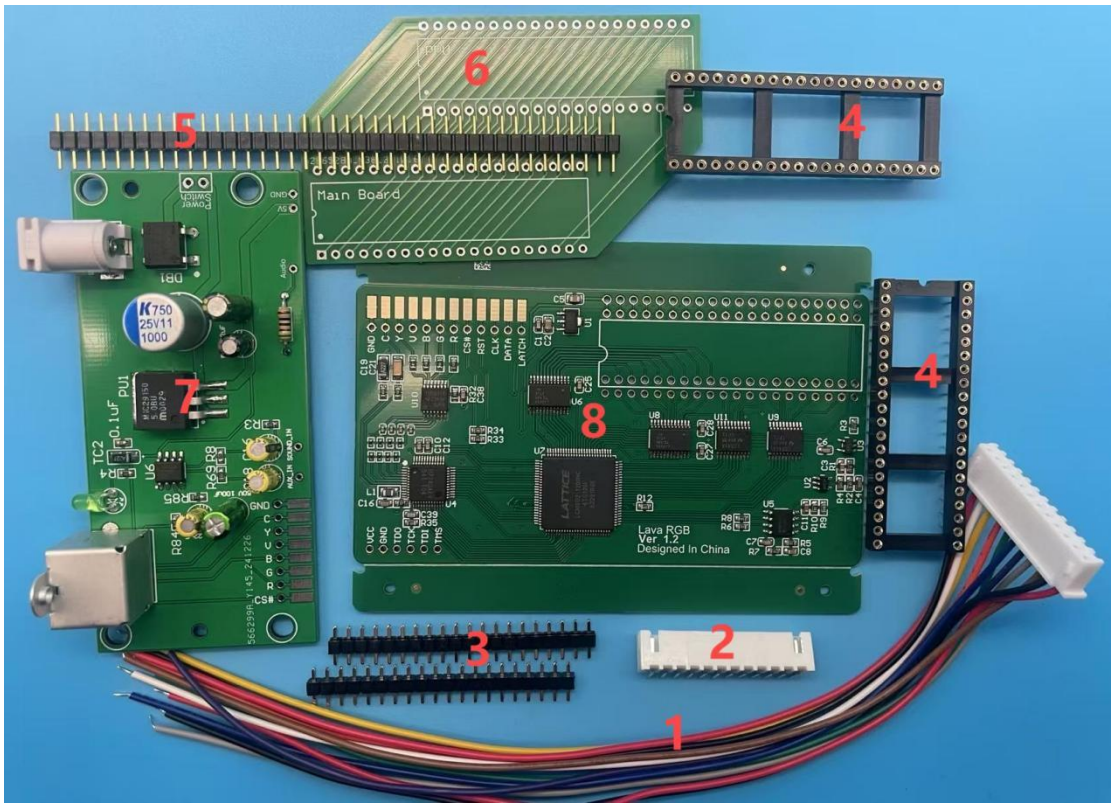


Required tools and materials:

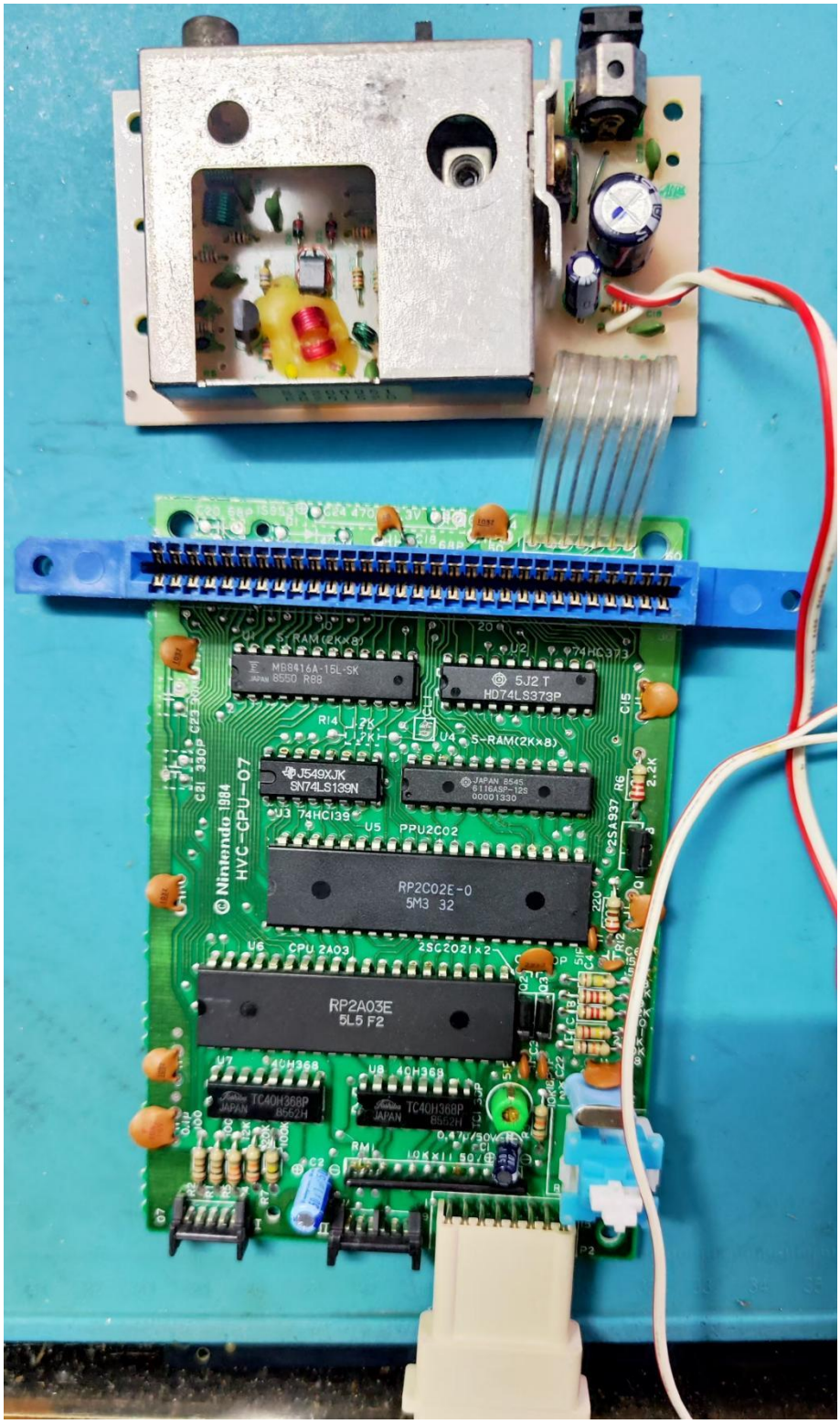
1. Soldering iron and lead containing solder wire
2. Use a soldering tool or soldering iron to remove the PPU tool
3. Cross screwdriver for disassembling Famicom

The Famicom kit includes the following components:

1. Used for 12P link wiring of RGB and S video signals(Icon 1)
2. 12P Chain Connection Socket (Icon 2)
3. 20P needle arrangement with 2 needles (icon 3)
4. 40-pin DIP round pin IC socket (icon 4)
5. 1 40 needle circular needle bar (needs to be broken into 2 20 needle circular needle bars) (icon 5)
6. Adapter board for Famicom (icon 6)
7. Power tailboard for Famicom (icon 7)
8. Lava RGB Kit motherboard, (icon 8)。



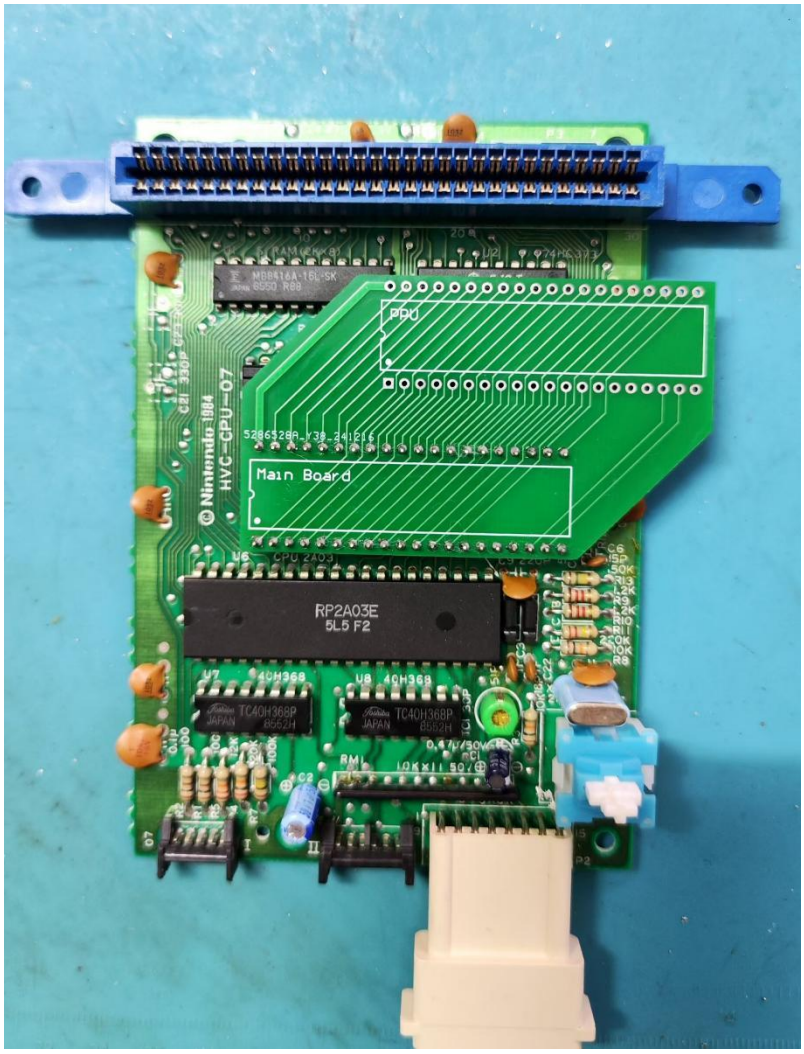
Open Famicom with a screwdriver, remove the motherboard, as shown in the picture



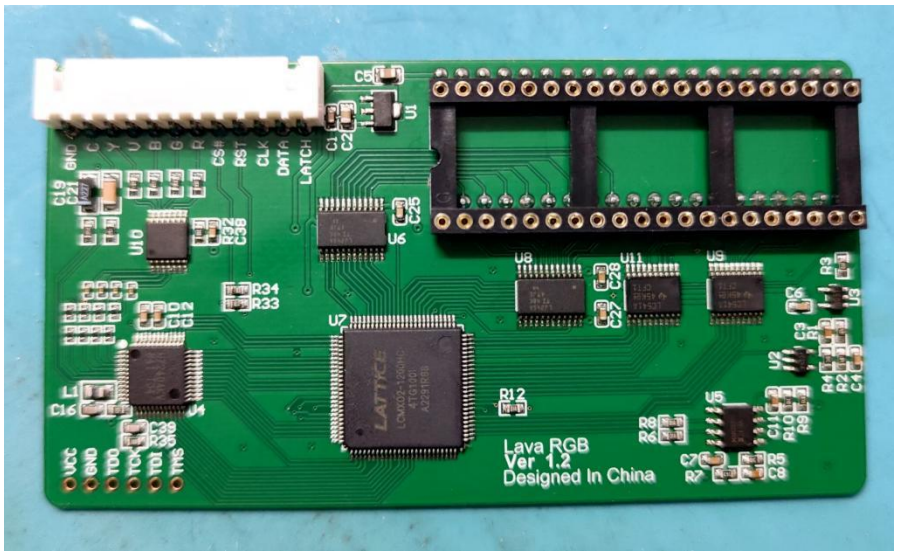
Use a soldering tool or soldering iron to remove PPU (RP2C02). This is very difficult to disassemble, please be careful when disassembling.

Disassemble the original tailboard and weld a 40 pin DIP round pin IC socket (icon 1)

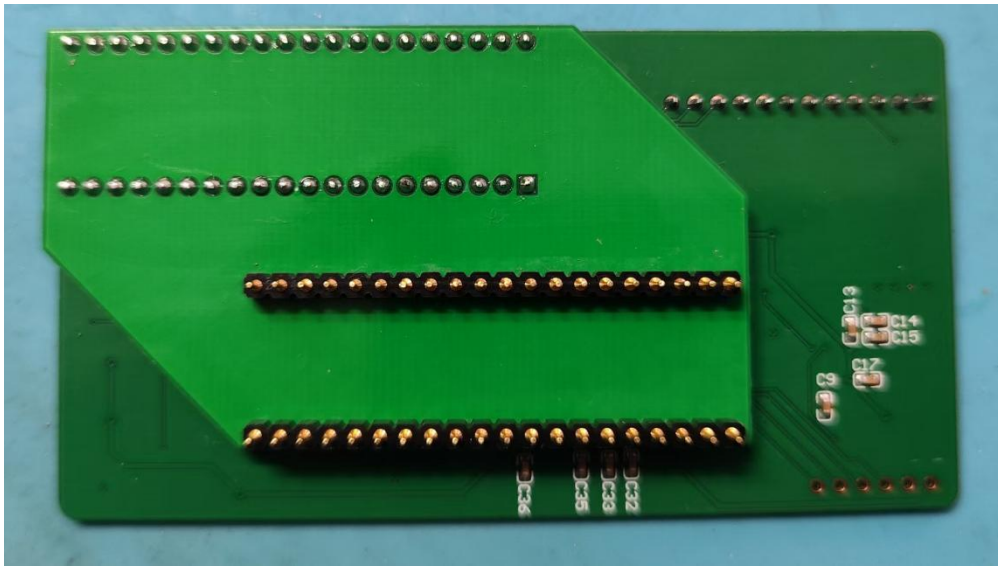
Transform the 40 pin circular needle bar into 2 20 pin circular needle bars, insert them into the 40 pin DIP circular needle IC socket, and place the adapter board on top. Apply pressure to make the pin enter the socket. Ensure that the pin is located in the marked MAIN BOARO. If you install the adapter board in the wrong way or upside down, it will not function properly. Below the picture



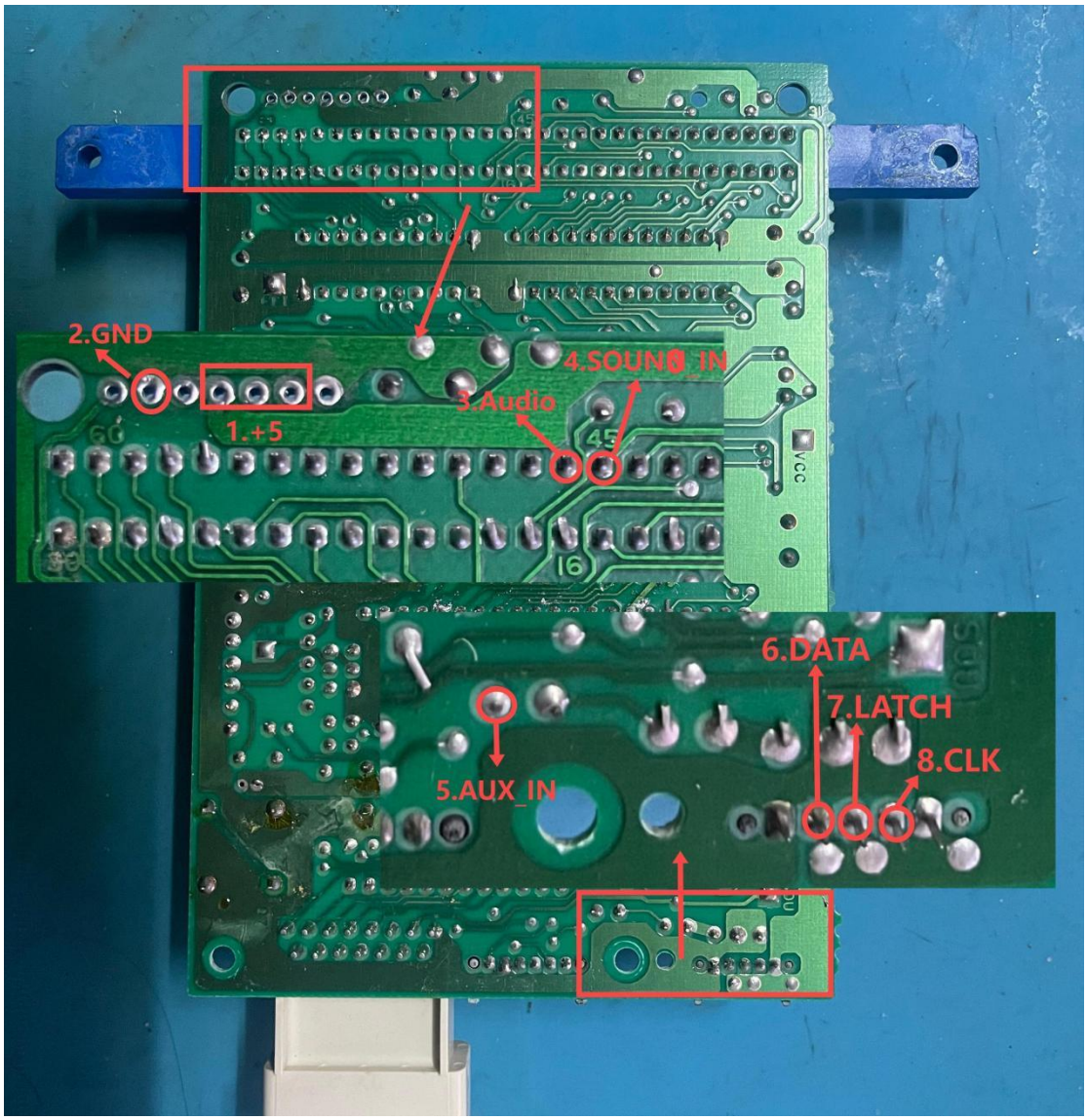
Install the Lava RGB Kit board and 2 20P pins, and solder the 40 pin DIP round pin IC socket together in sequence. If you install the IC socket and pins incorrectly or upside down, it will not function properly. Below the picture



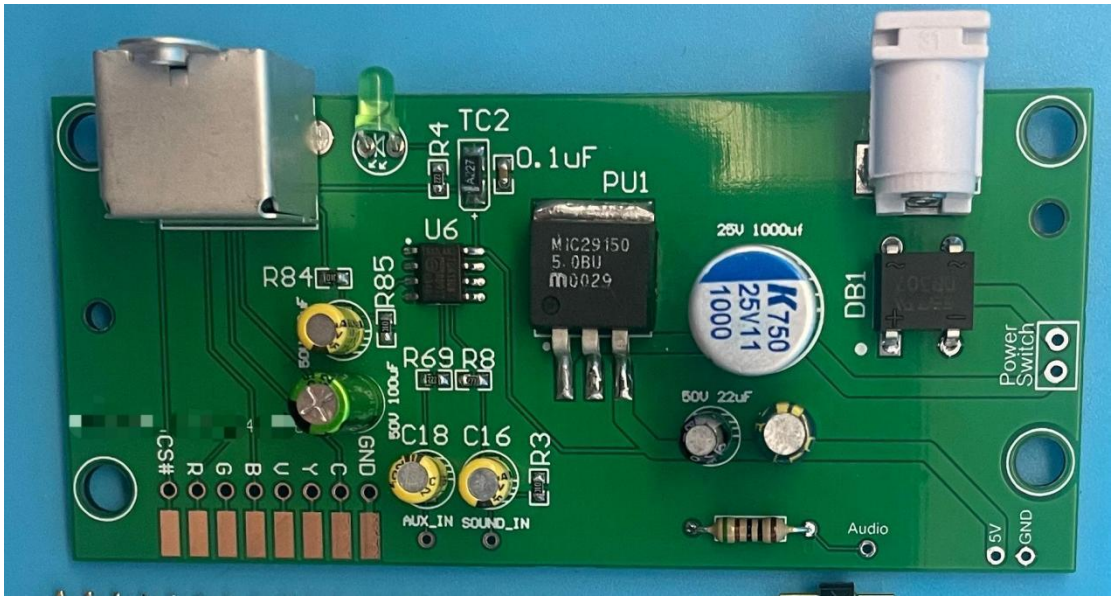
Install and weld the Lava RGB Kit board and adapter board together, as shown in the picture



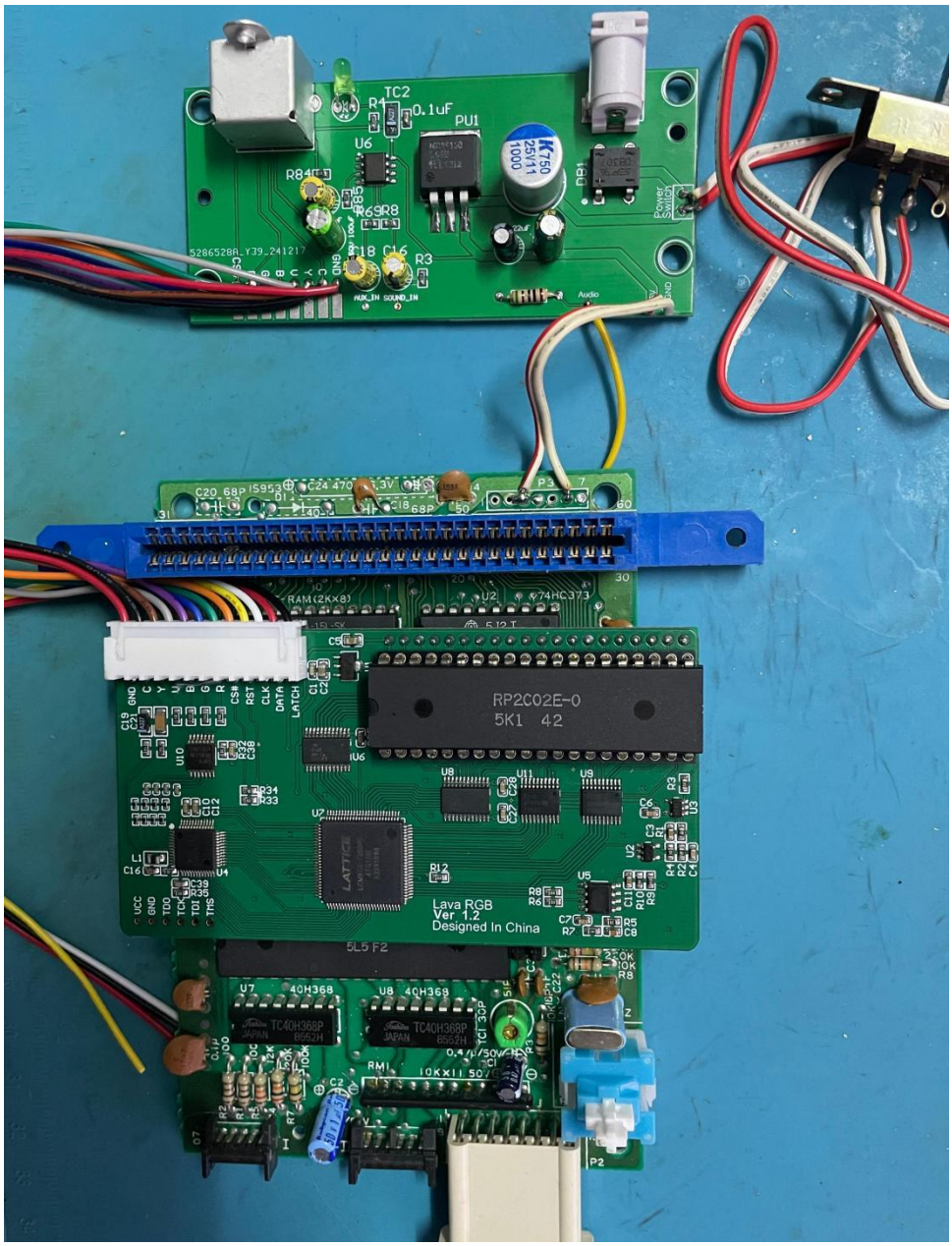
Definition and description of motherboard soldering points: 1.+5 (icon 1), 2. GND (icon 2), 3. Audio (icon 3), 4. SOUNOIN (icon 4), 5. AUX_IN (icon 5), 6. DATA (icon 6), 7. LATCH (icon 7), 8. CLK (icon 8), as shown in the figure below

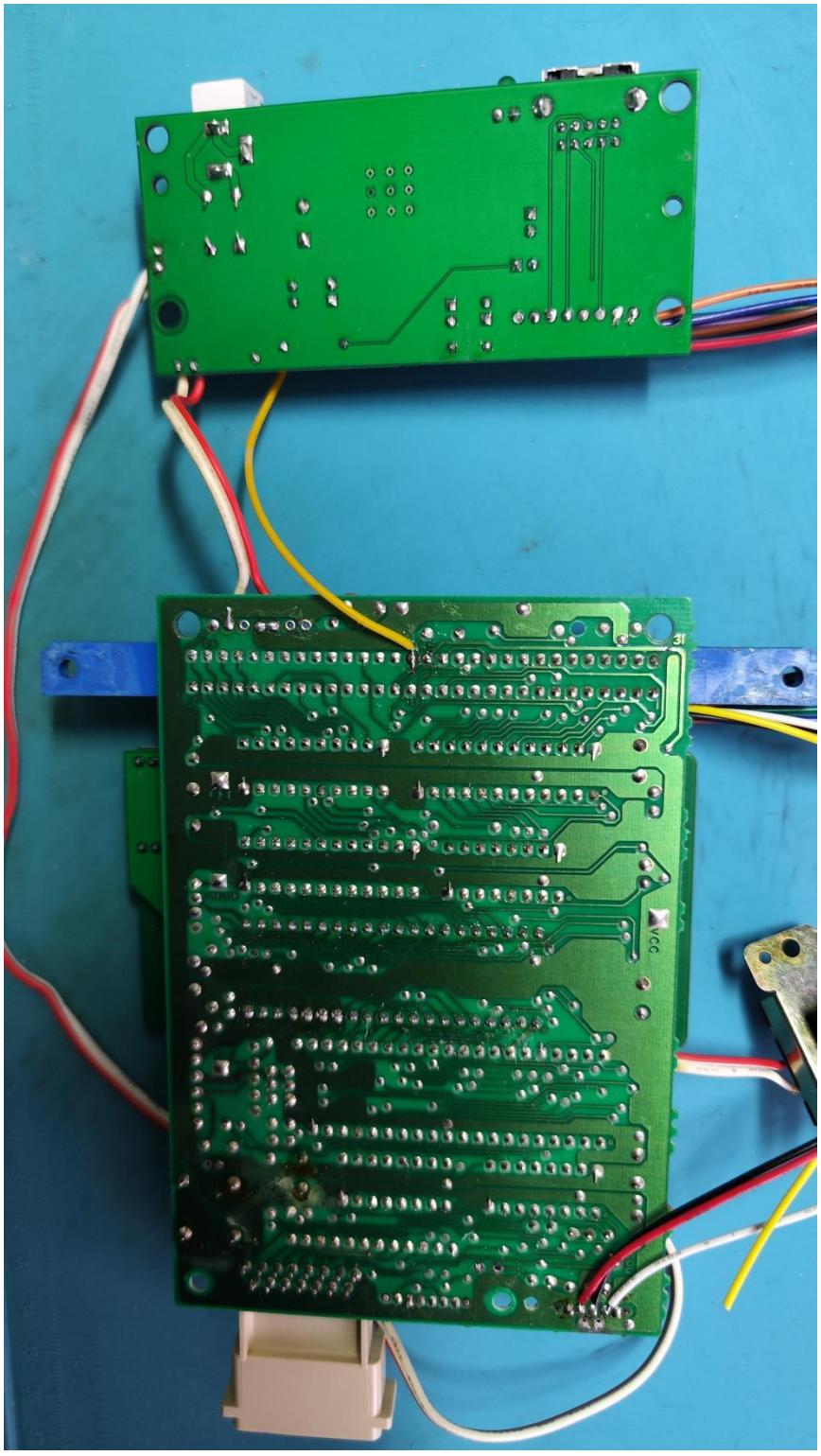


Under the power tail board identification diagram

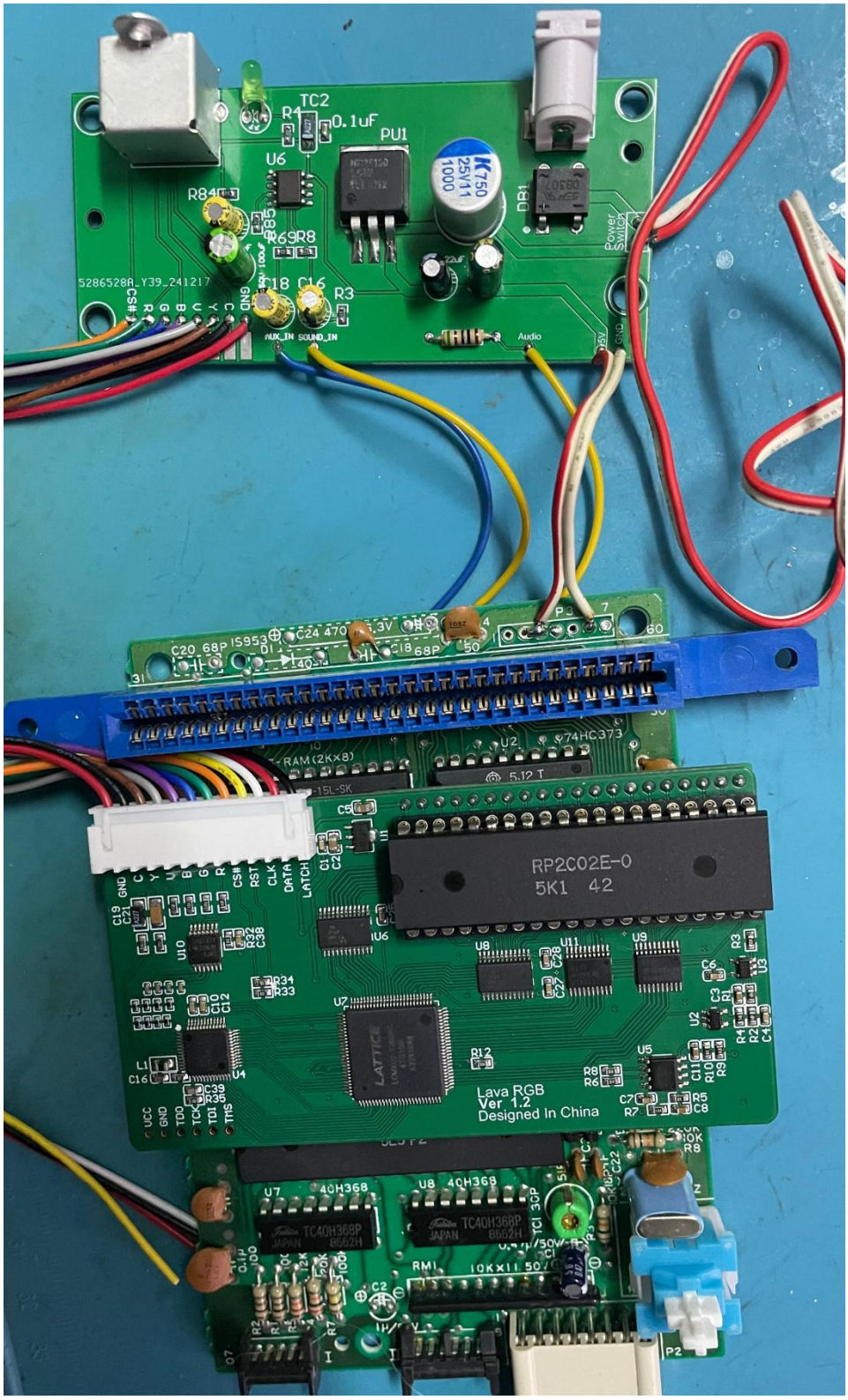


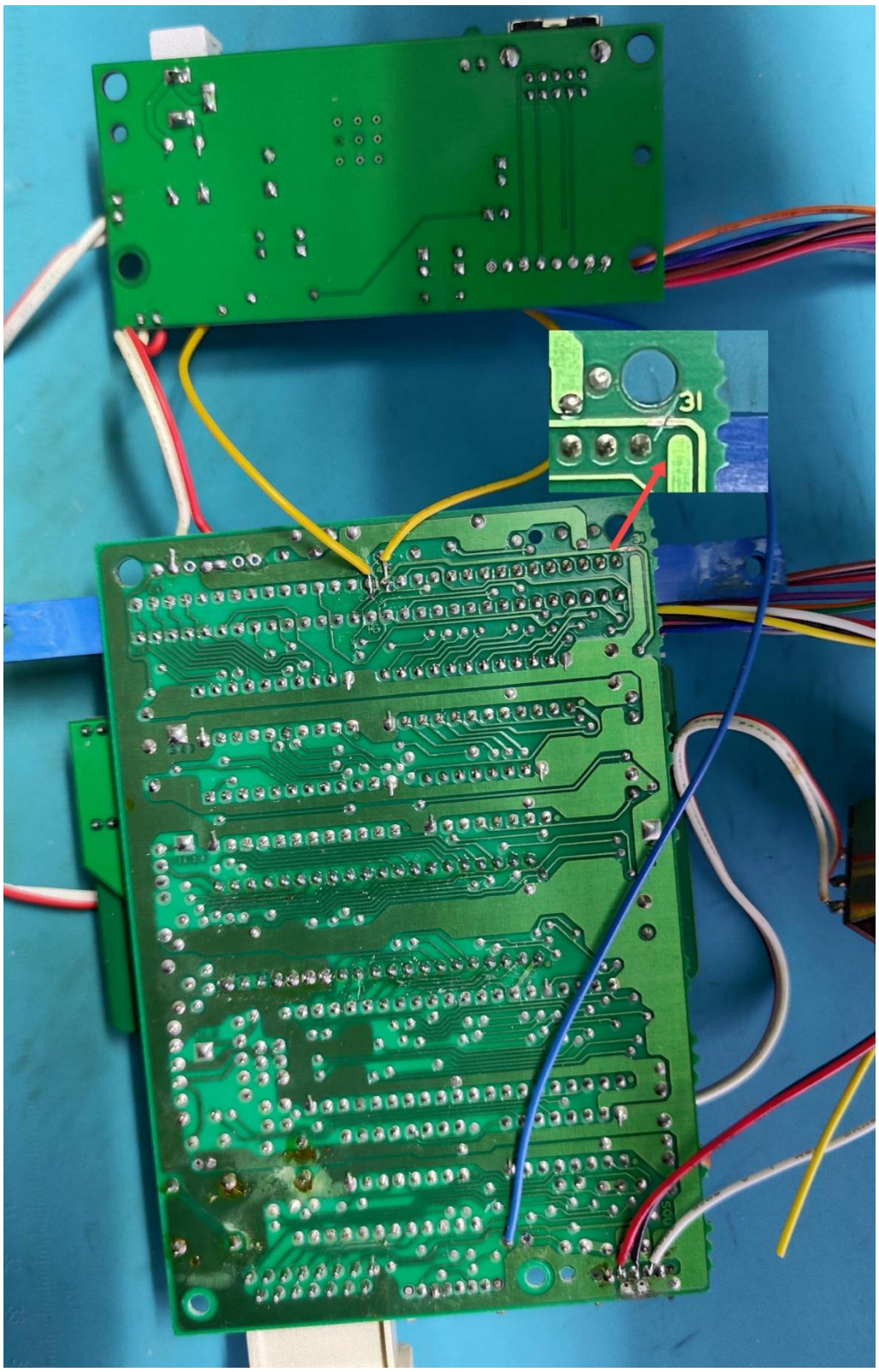
According to the above description, identify the welding power tail plate and 12P chain wiring. There are two welding methods for the audio part. Option 1 only welds the Audio logo, while AUX_IN and SOUNOIN do not require welding. The example shown in the picture





Option 2 for the audio part involves welding the Audio label, AUX_IN label, and SOUNO-IN label. The original SOUNI-IN link line needs to be disconnected, as shown in the example below.


TC2
0.1uF
PU1
U6
DB1
Power Switch
5286528A_Y39_241217
AUX_IN SOUND_IN
Audio
RAM(2Kx8)
74HC373
RP2C02E-0
5K1 42
LATTICE
Lava RGB
Ver 1.2
Designed In China
TC40H368P
TC40H369P



Install the screws on the casing and complete the installation.