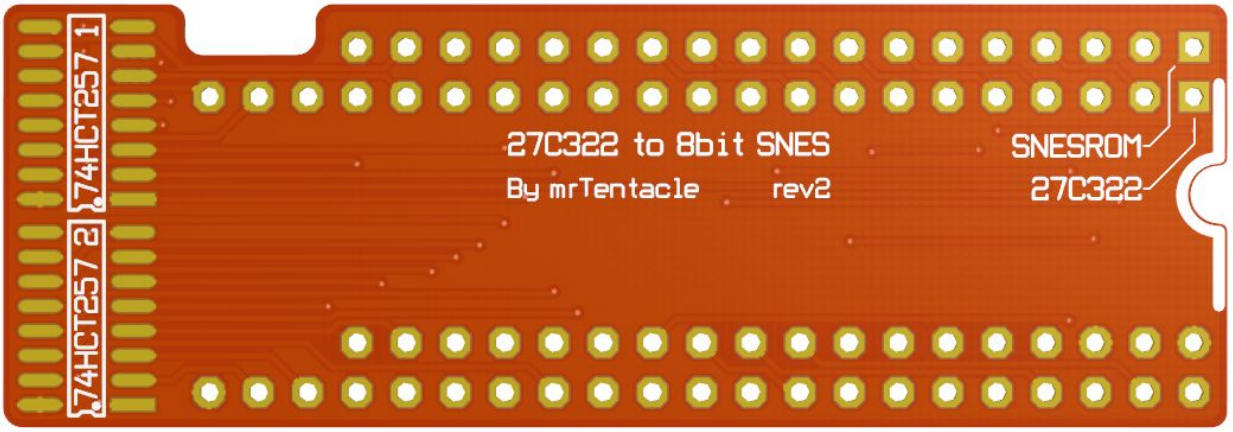
mrTentacles
27c322 to SNES adapter
Instructions



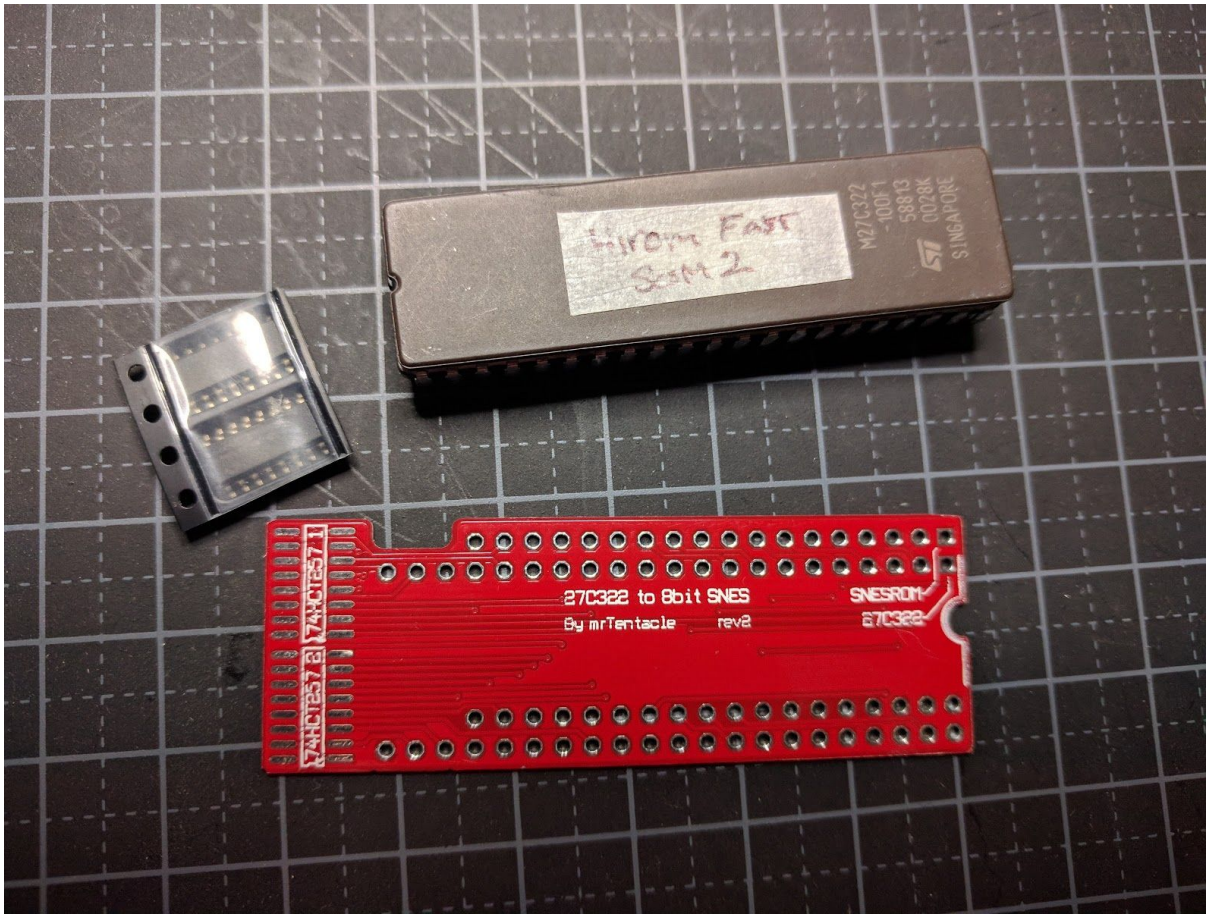
Version 1
2017-08-26
mrTentacle

A word of warning, this build is tricky, please keep in mind that the adapter pcb is extremely thin, breaking it is a real possibility. Trimming everything down is very important, space in snes shells are very limited.

Be prepared to make a few until you get it right.

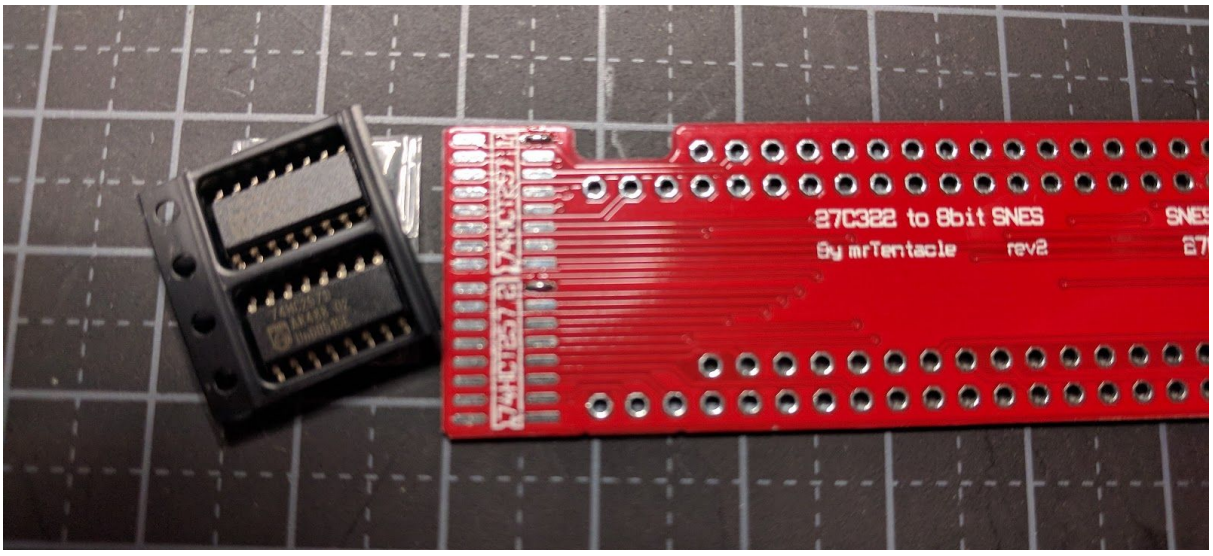
Components needed:

- Preprogrammed 27c322 chip
- 2x 74hc257
- 2x 1x18 header pins
- Nice flush cutters
- A sheet of perf board

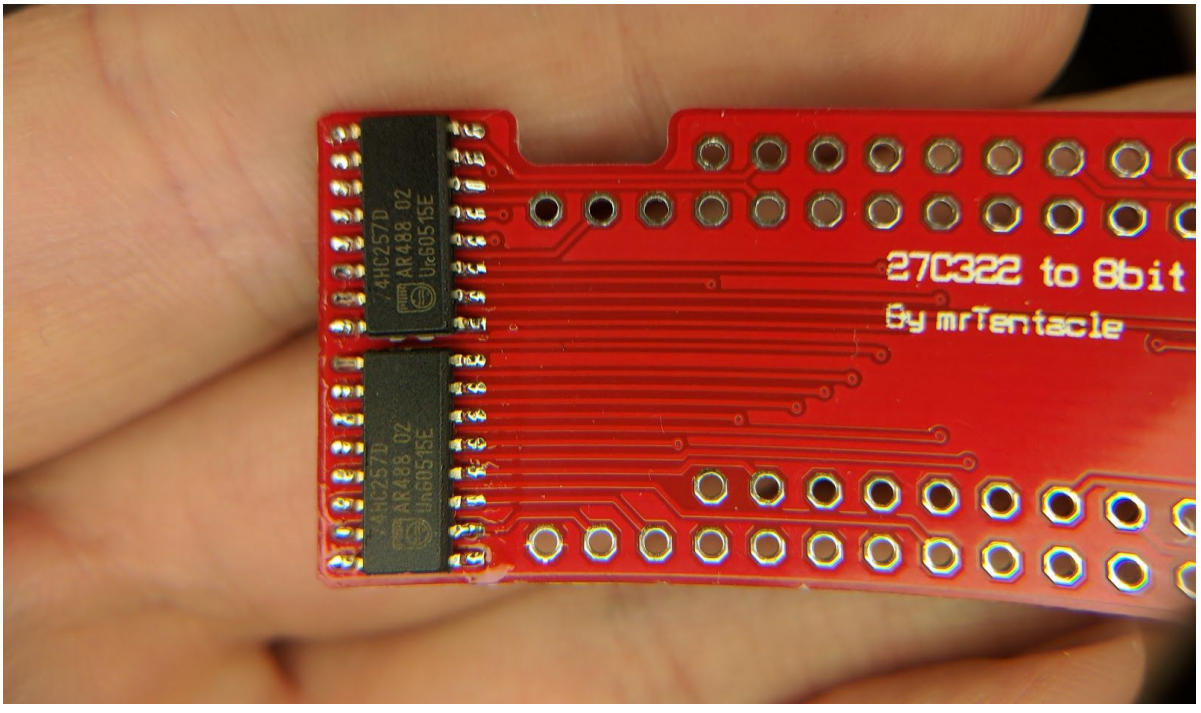


Solder the two 74hc254s

Tack down one leg on each chip, solder the rest of the legs



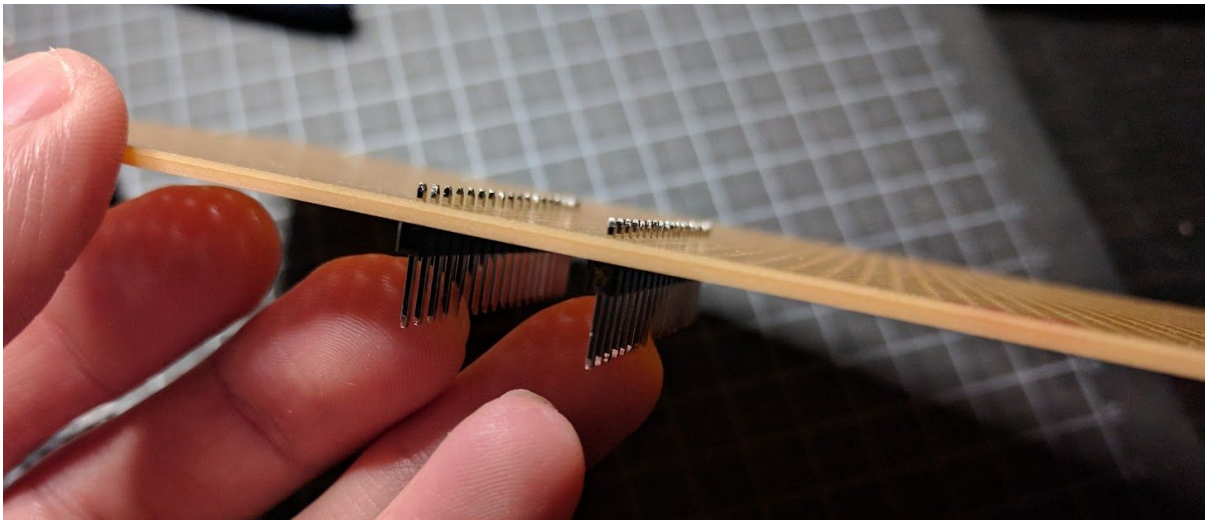
Orientation and a closer look on the soldered chips

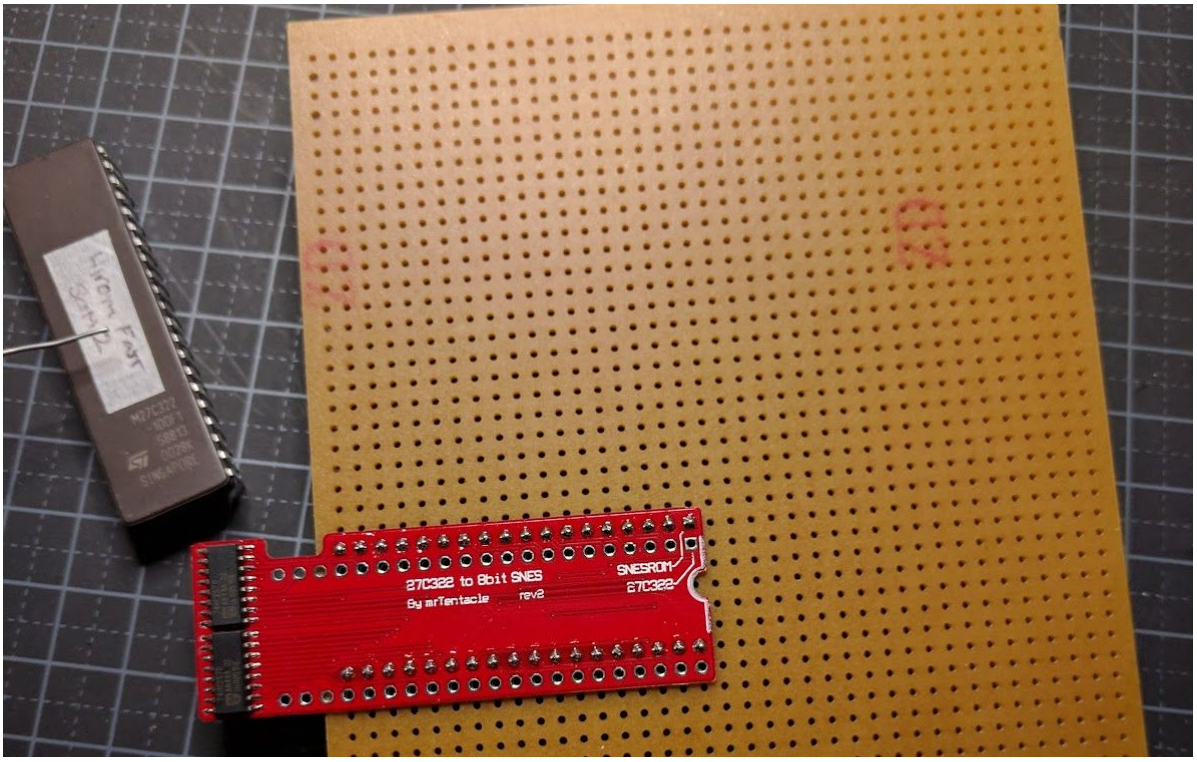


Solder pins to the adapter

This may seem weird, but it works very well. ***Thanks KML!***
We are doing this to be able to remove the black plastic from the pin headers.

1. Place the pin headers under a piece of perfboard, see photo
2. Stack the adapter on top. Header pins on the bottom, perfboard in the middle and adapter on top.
3. Make sure to place the headers in the correct holes, the two shorter rows
4. Note that the header pins don't stick out more than absolutely necessary on the top
5. Solder the pin headers to the adapter pcb

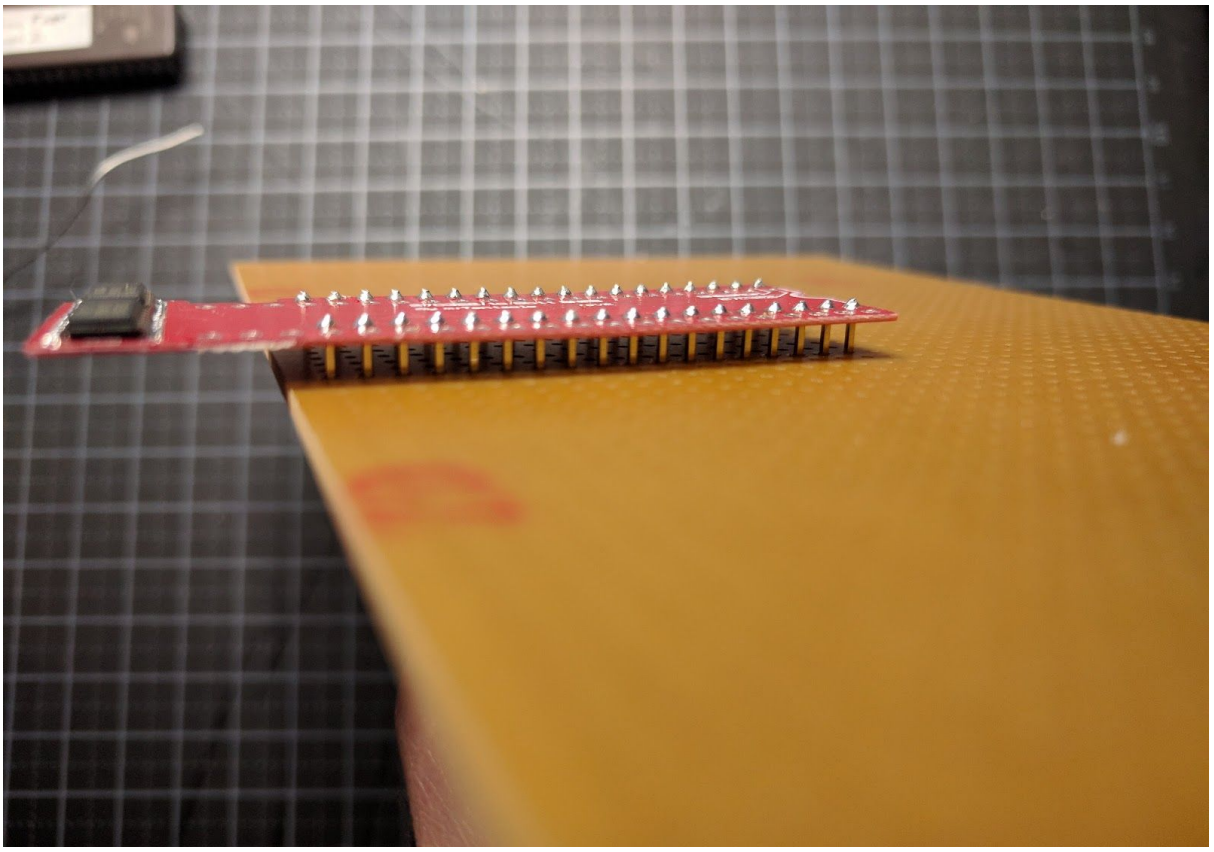




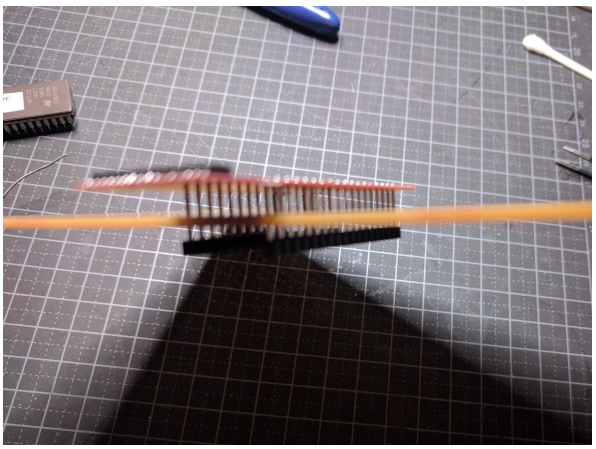
Removing the black spacer plastic from the header pins

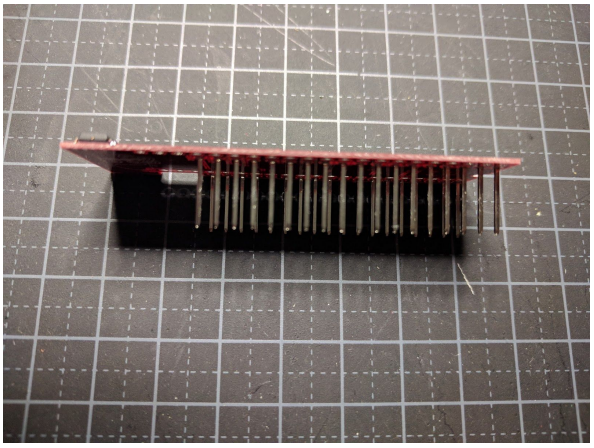
This is very important, with the plastic still in place the chip and adapter won't fit in a snes cartridge shell.

With the adapter stuck to the perfboard
Press down on the perfboard, moving the plastic down on the header pins



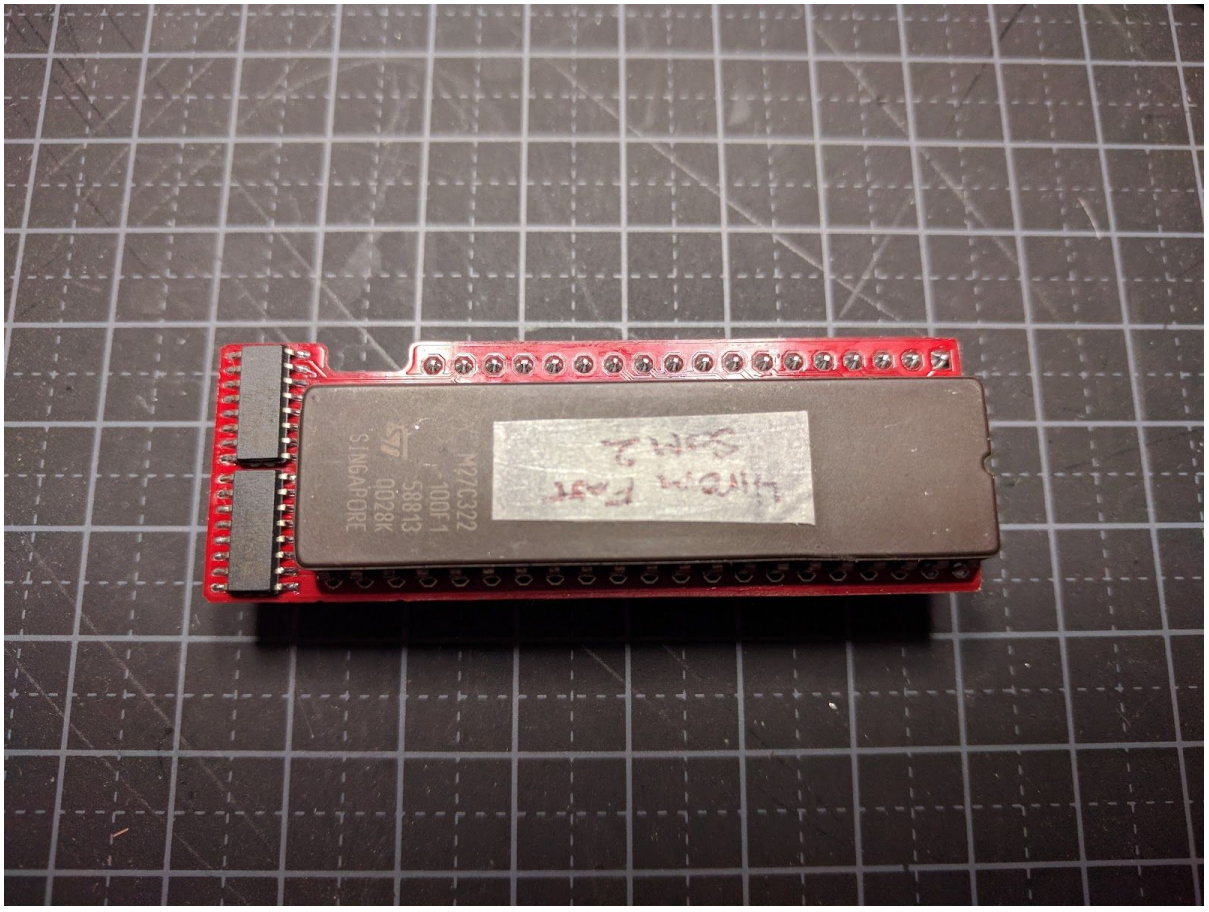
It takes a bit of force to get it going, when the plastic reaches the end simply pull them off



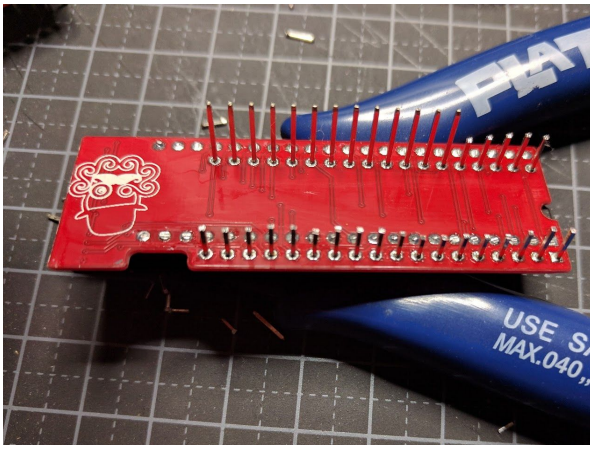


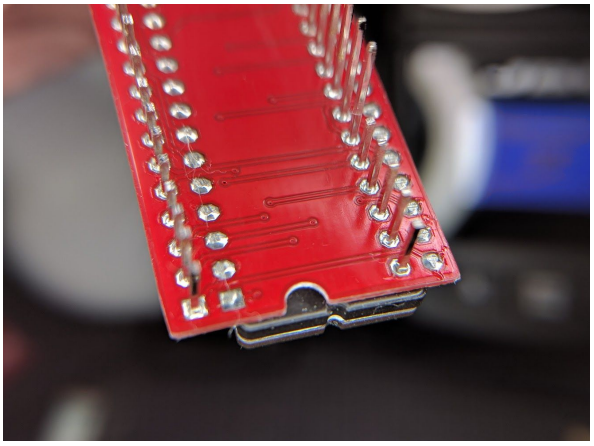
Adding the 27c322 chip

Place the 27c322 chip in the adapter and solder from the underside



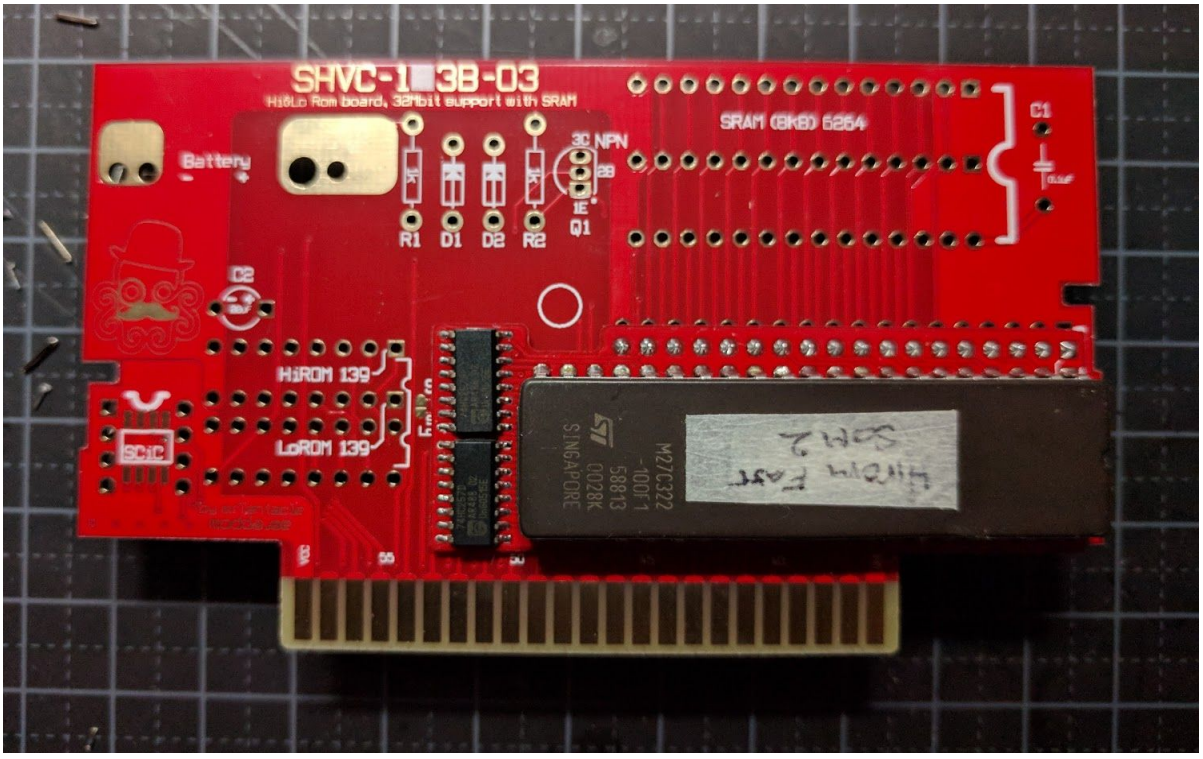
Trim down the pins on the 27c322, you also need to trim down one row of the header pins and a few on the other side





Solder the adapter on snes cartridge pcb

On my repro board



On standard SNES board, should fit most boards, on this revision I had to move a capacitor to the back of the SNES pcb