3D Printed Parts

Main Game Console Unit

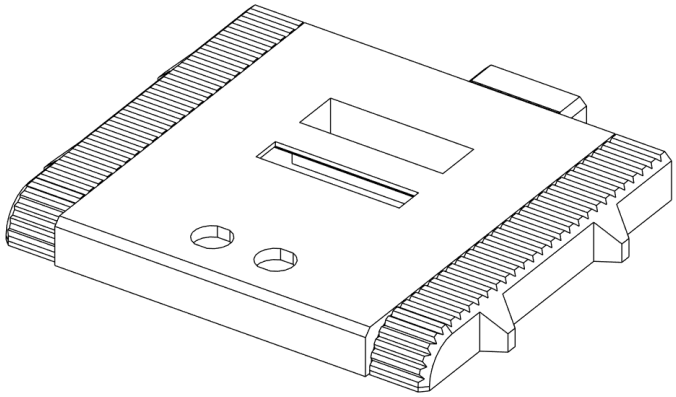


Figure 1: Upper Enclosure Body (Top view)

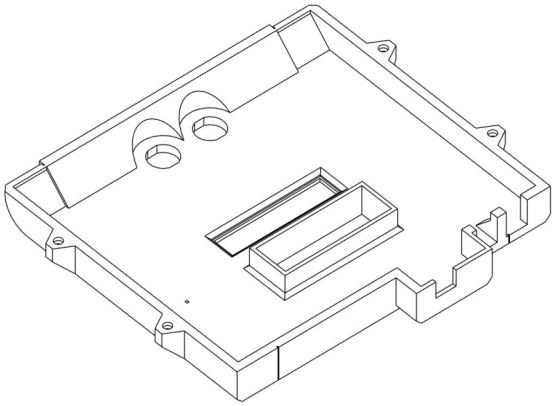


Figure 2: Upper Enclosure Body (Underside view)

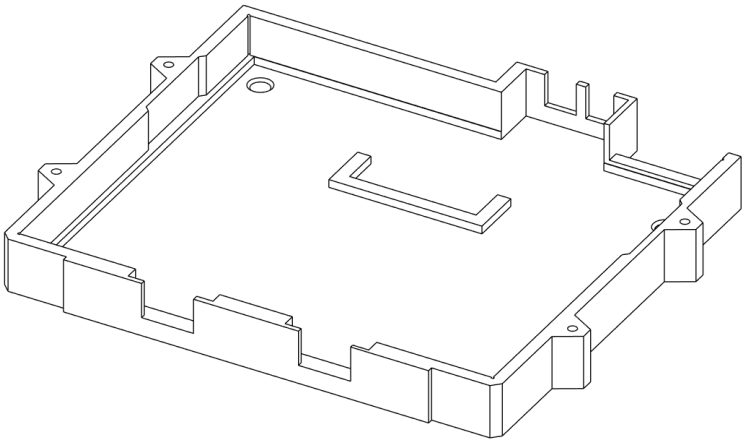


Figure 3: Lower Enclosure Body

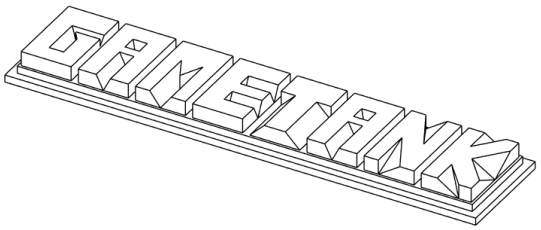


Figure 4: Badge

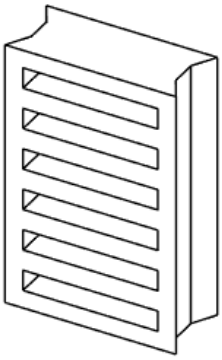


Figure 5: Vent Cover

Controller

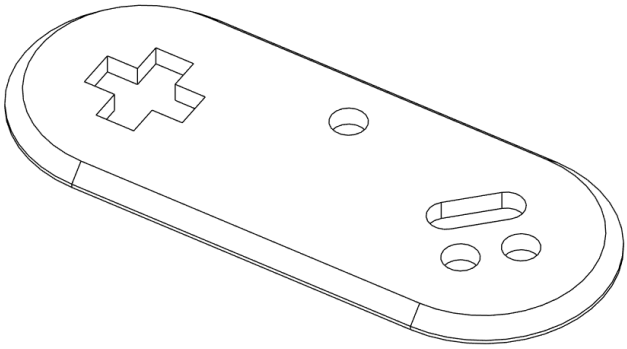


Figure 6: Controller Faceplate

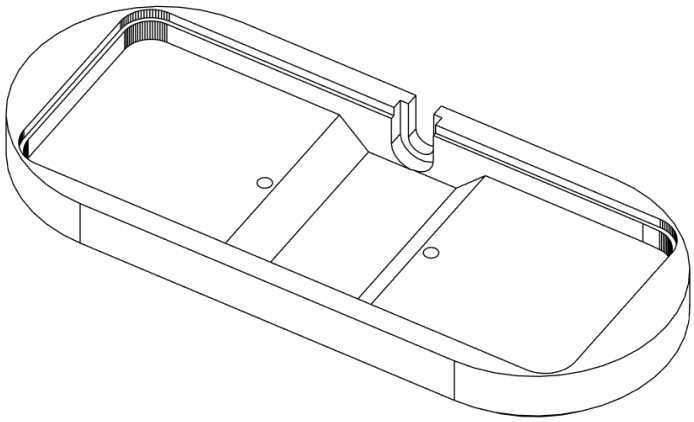


Figure 7: Controller Body

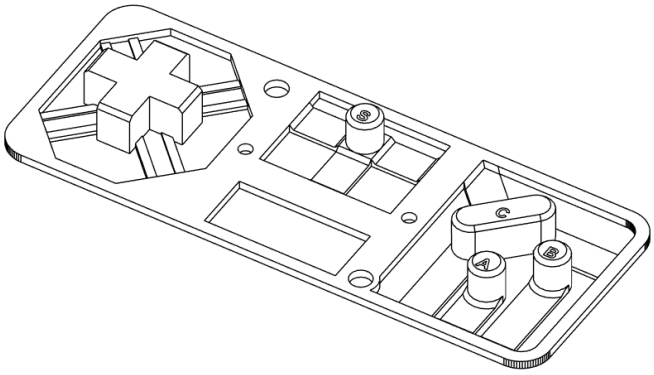


Figure 8: Button Flexure, Multi Material Print Labels

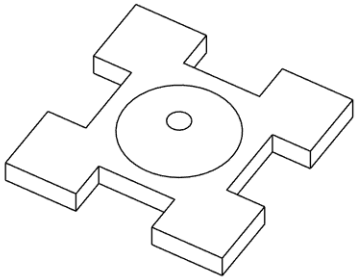


Figure 9: Directional Pad Pivot

Figure 10: Spacers (If printed)

Data Cartridge

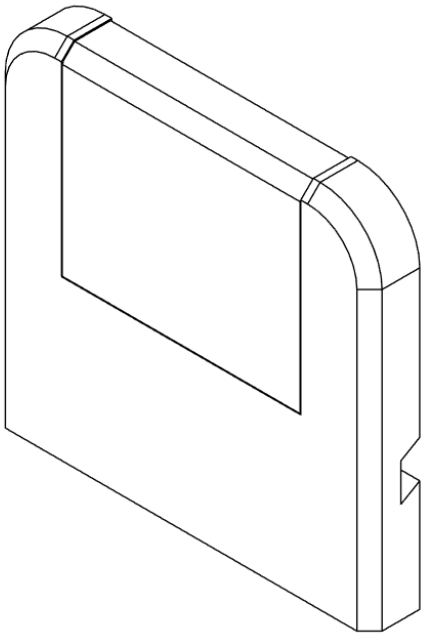


Figure 11: Cartridge Front (Outside)

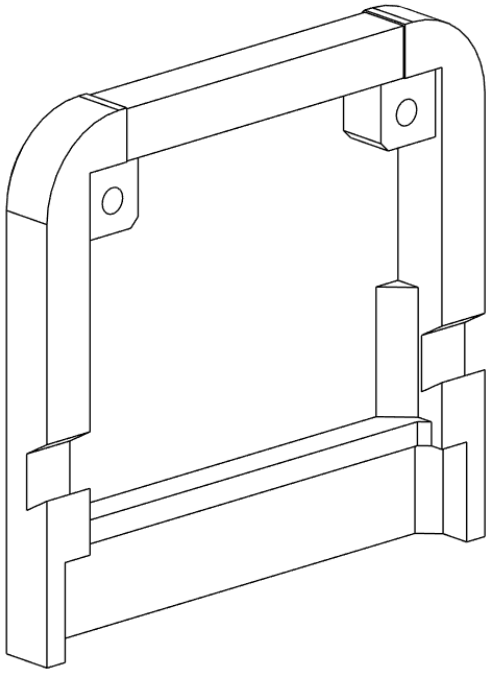


Figure 12: Cartridge Front (Inside)

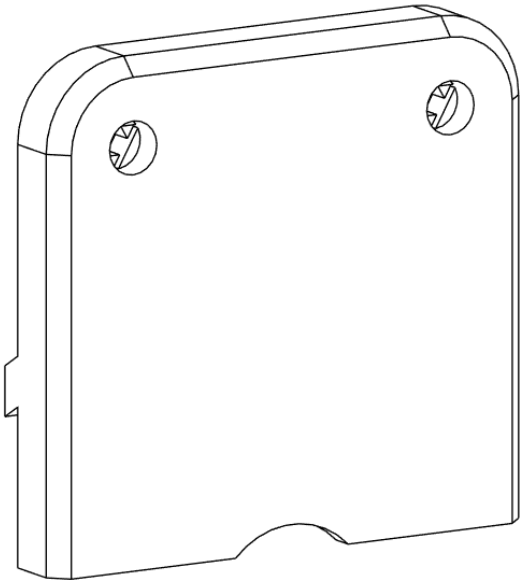


Figure 13: Cartridge Back (Outside)

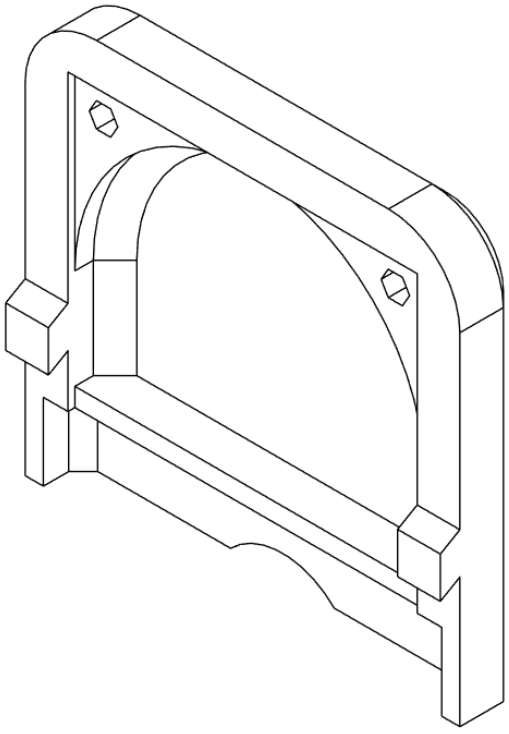


Figure 14: Cartridge Back (Inside)

Cartridge Flasher Tool

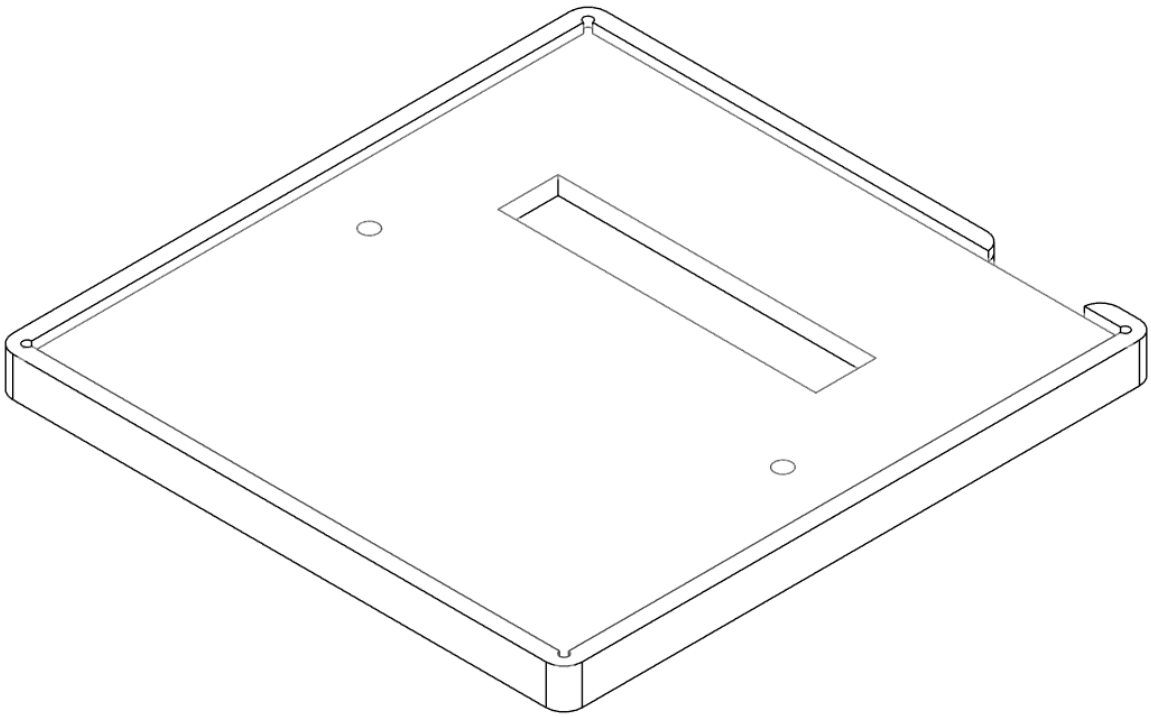


Figure 15: Cartridge Flasher Base

Assembly Procedure

Main Console PCB Stack

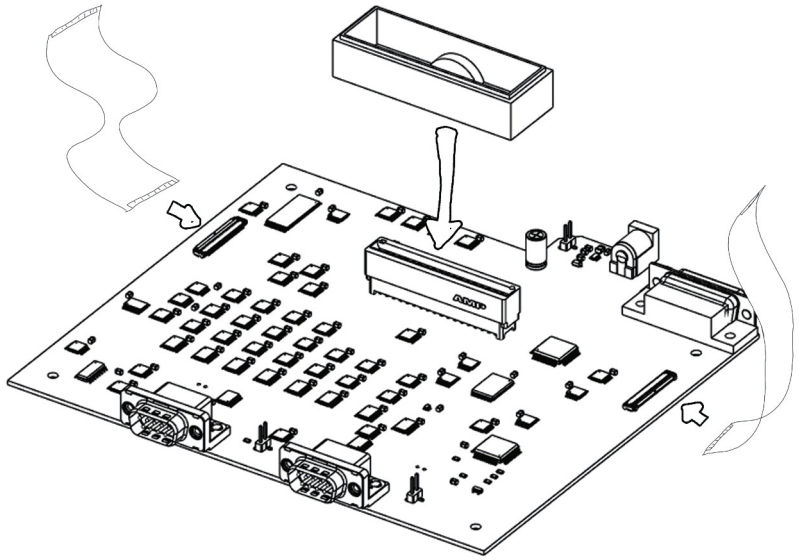


Figure 16: Install FFCs and Cartridge Slot Spacer (Ensure Bump is towards rear)

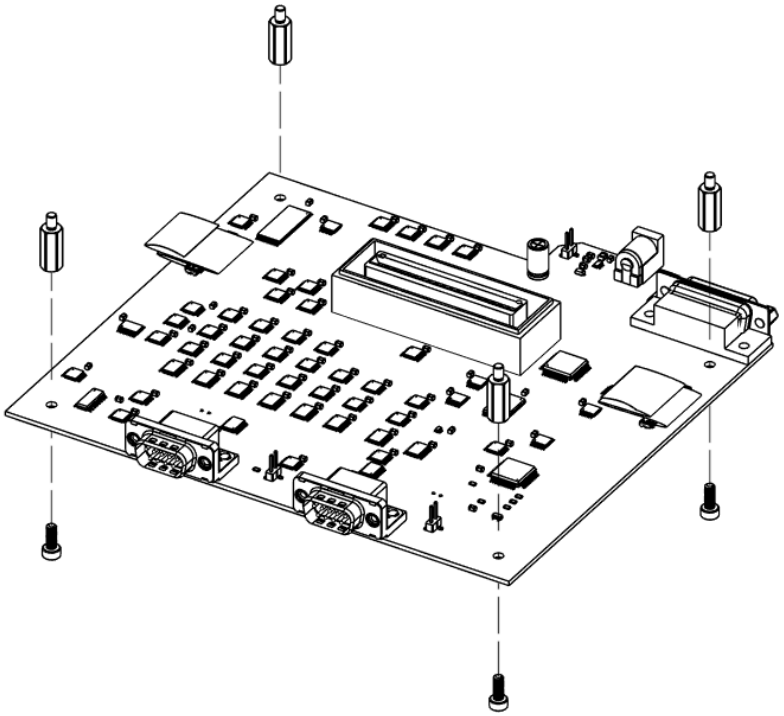


Figure 17: Install standoffs at corners with 8mm screws

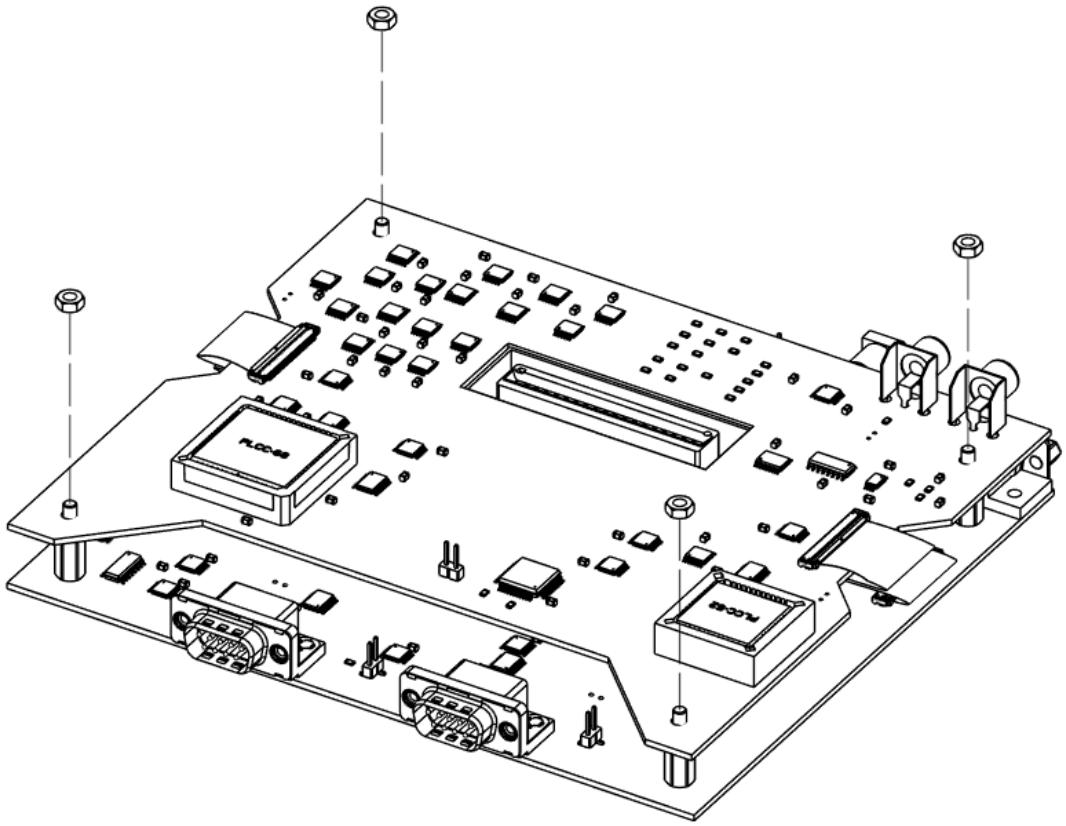


Figure 18: Place video board on standoffs, connect FFCs, and fasten with nuts

Enclosure Top Half Preparation

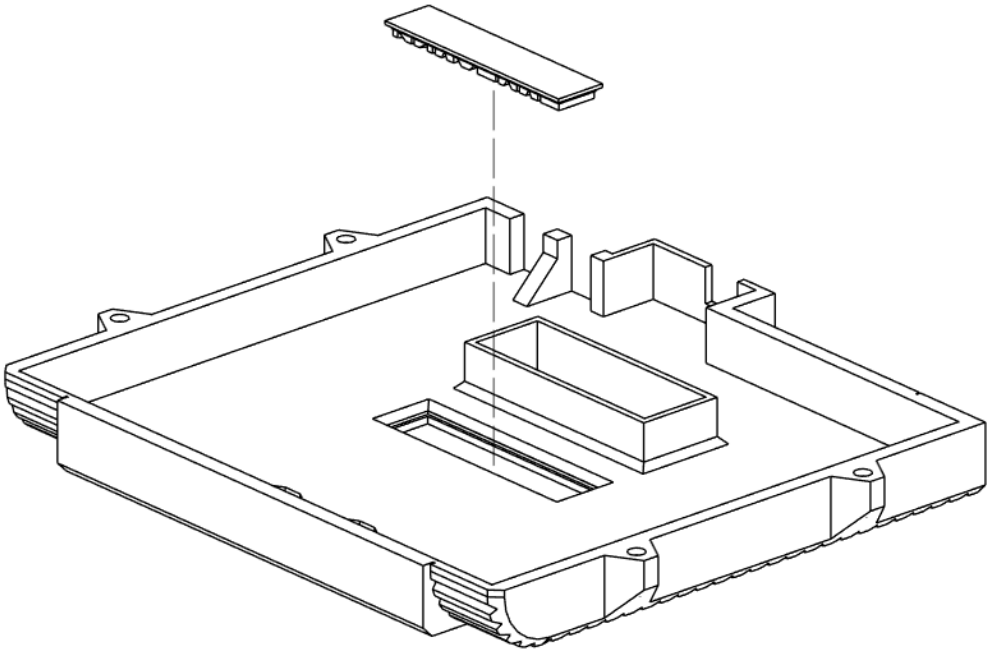


Figure 19: Snap GAMETANK badge into place from inner side

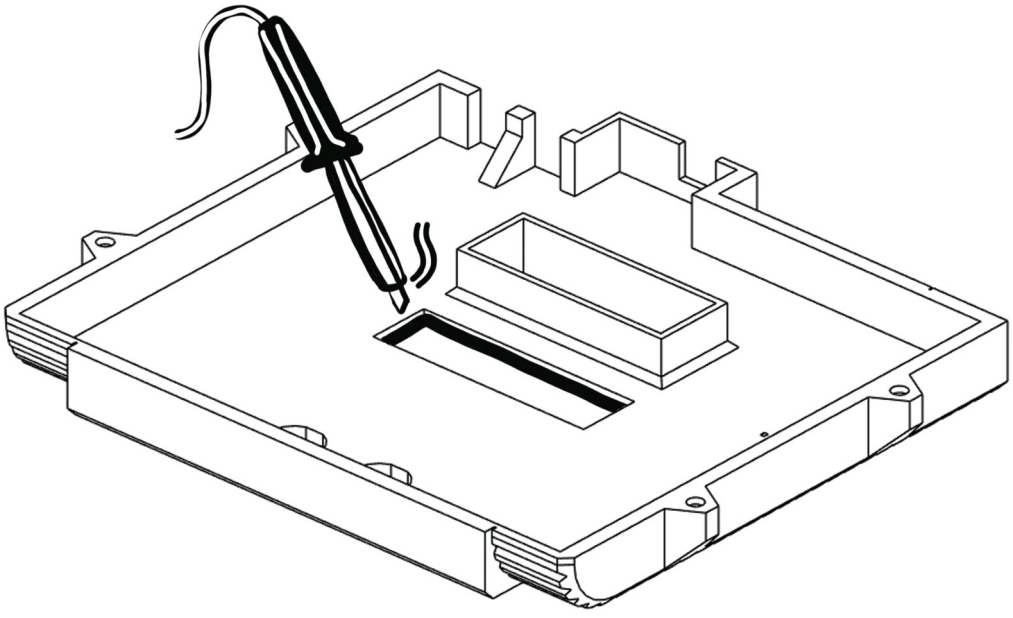


Figure 20: Thermally bond at edges

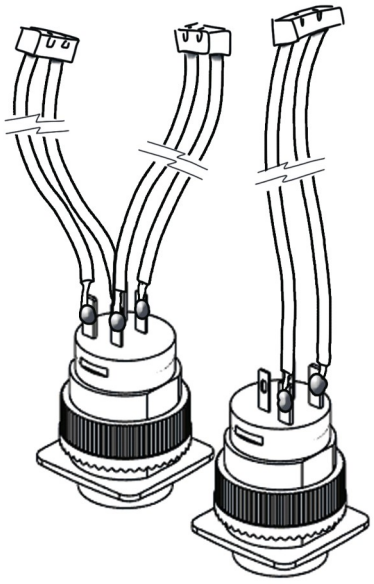


Figure 21: Soldering button wires. Red button gets wires on all terminals. Yellow button gets wires on switched terminals only.

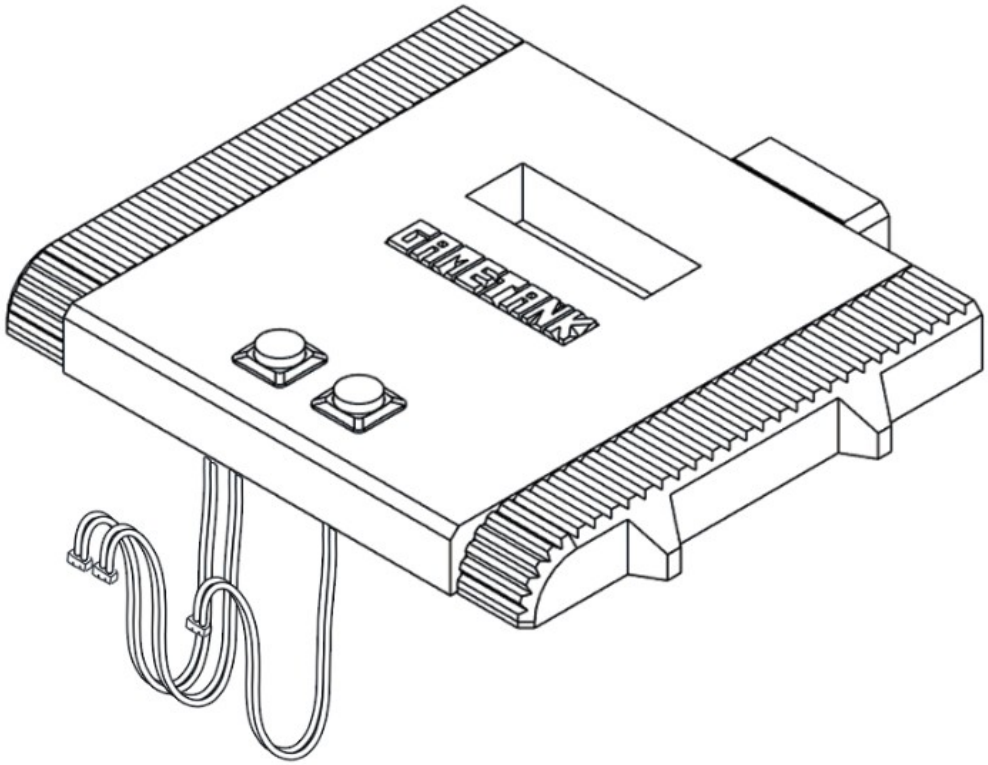


Figure 22: Thread button wires through button holes, fasten buttons with threaded collars

Combining Top Shell, PCB Stack, and Bottom Shell

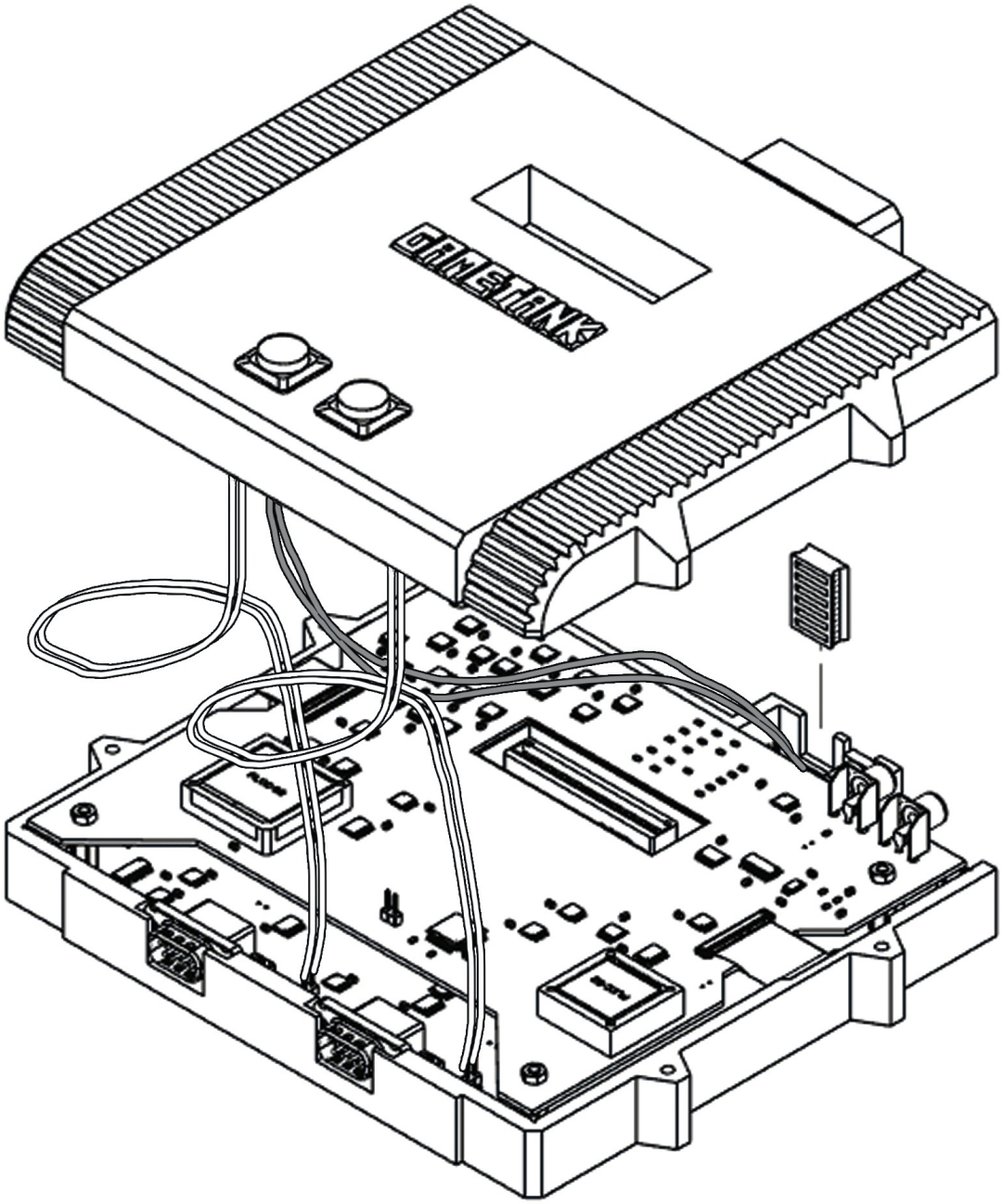


Figure 23: Wires from buttons plug into headers on board. Vent piece is also added.

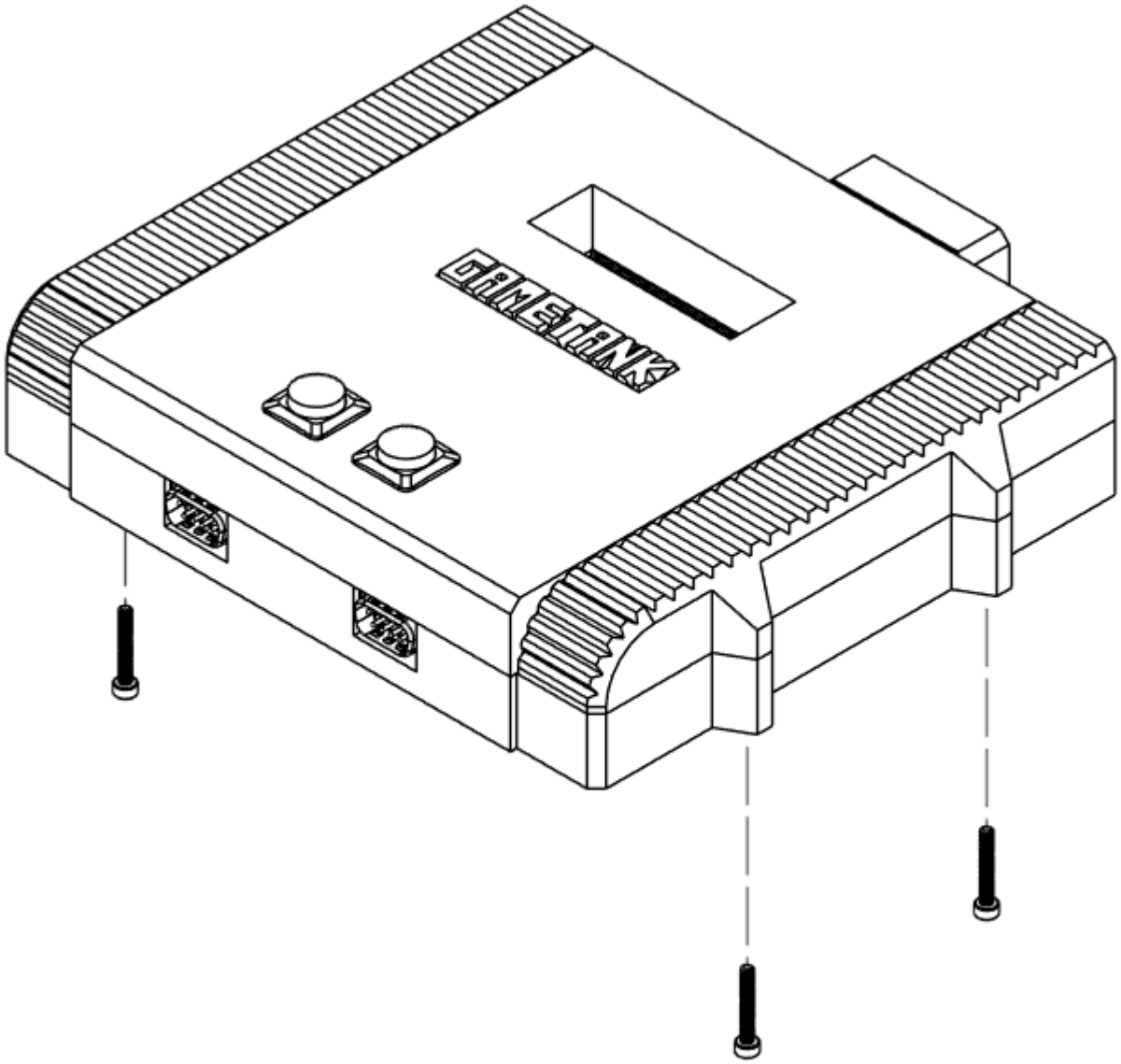
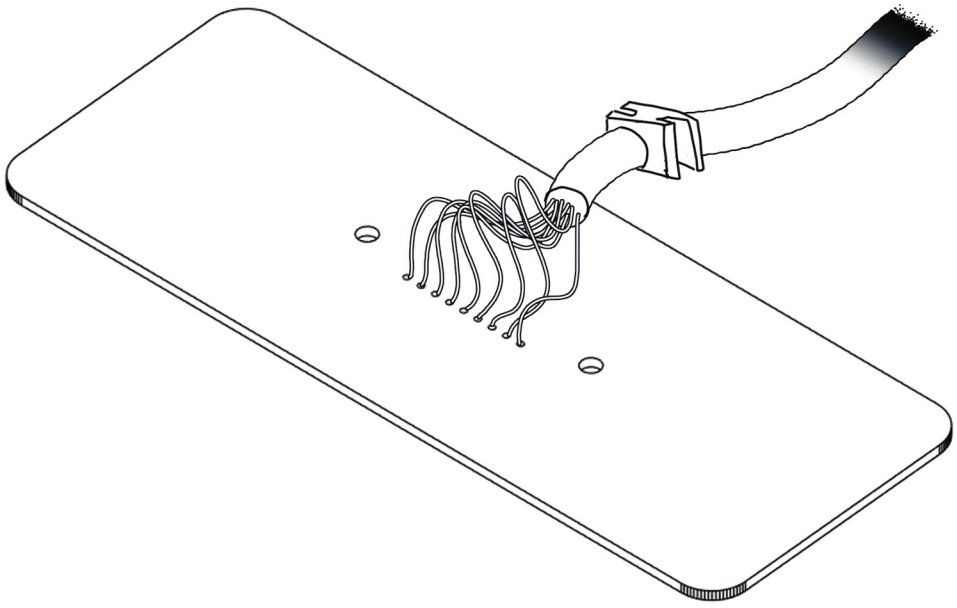


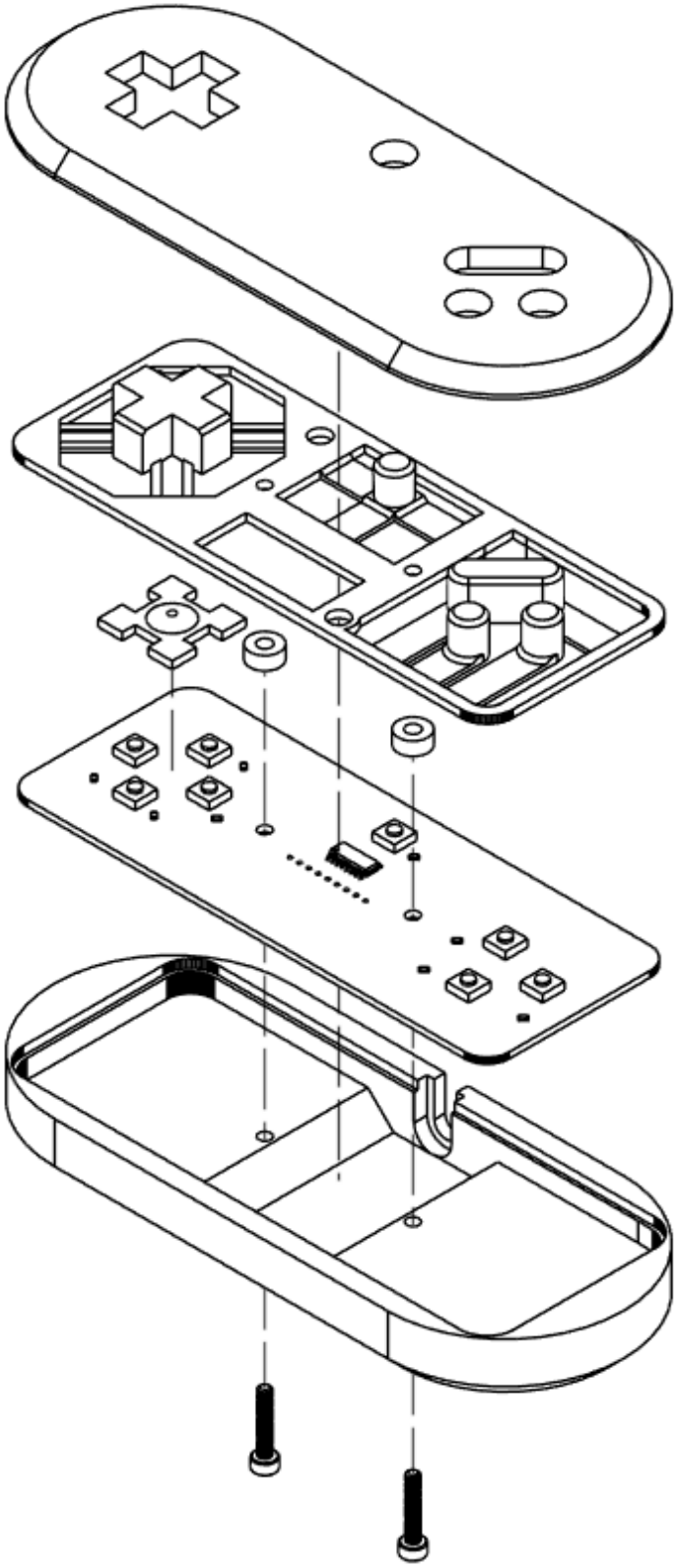
Figure 24: Fasten enclosure together with M3x20mm screws

Controller Wiring

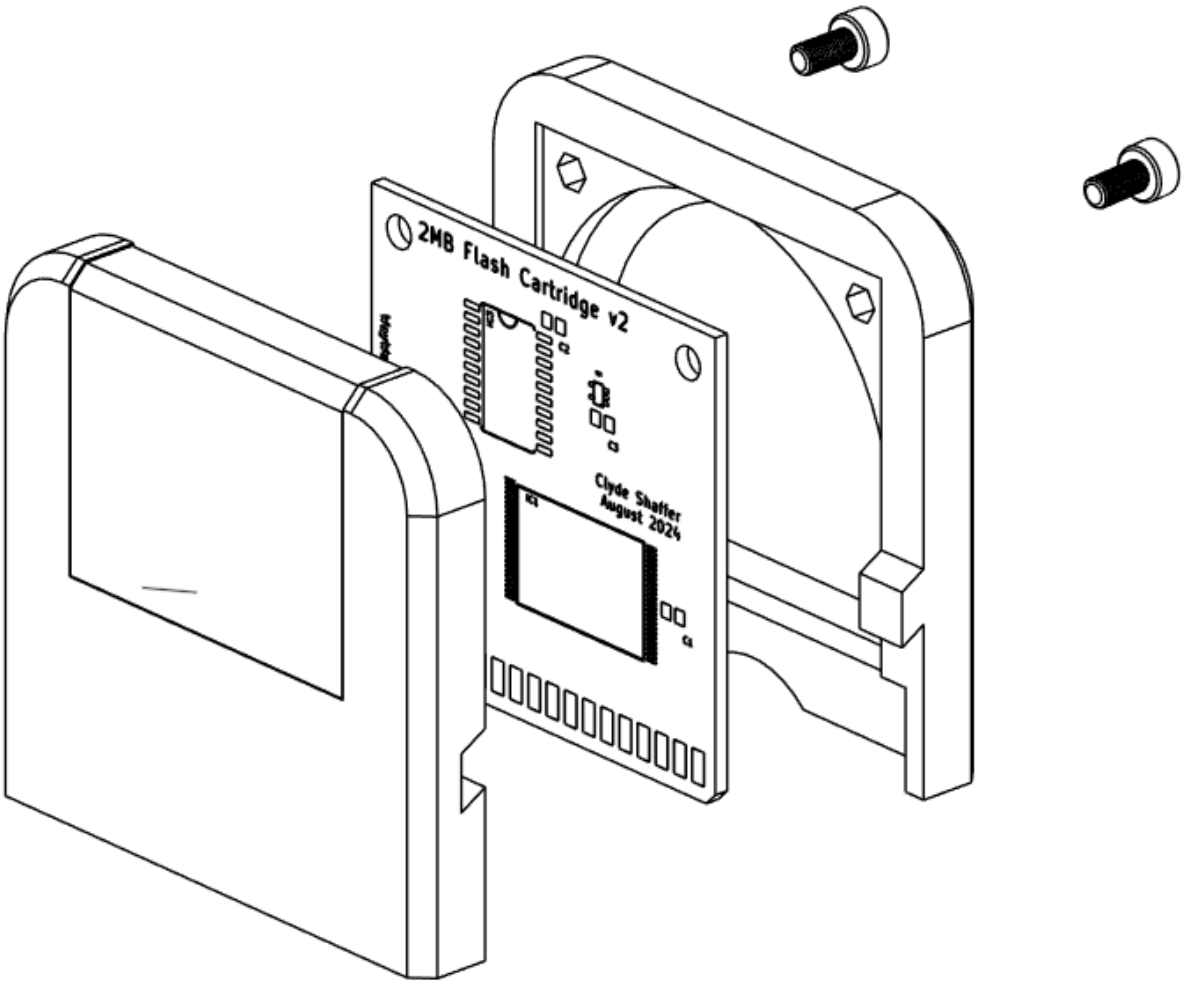


9 Wires soldered from cable

Controller Assembly

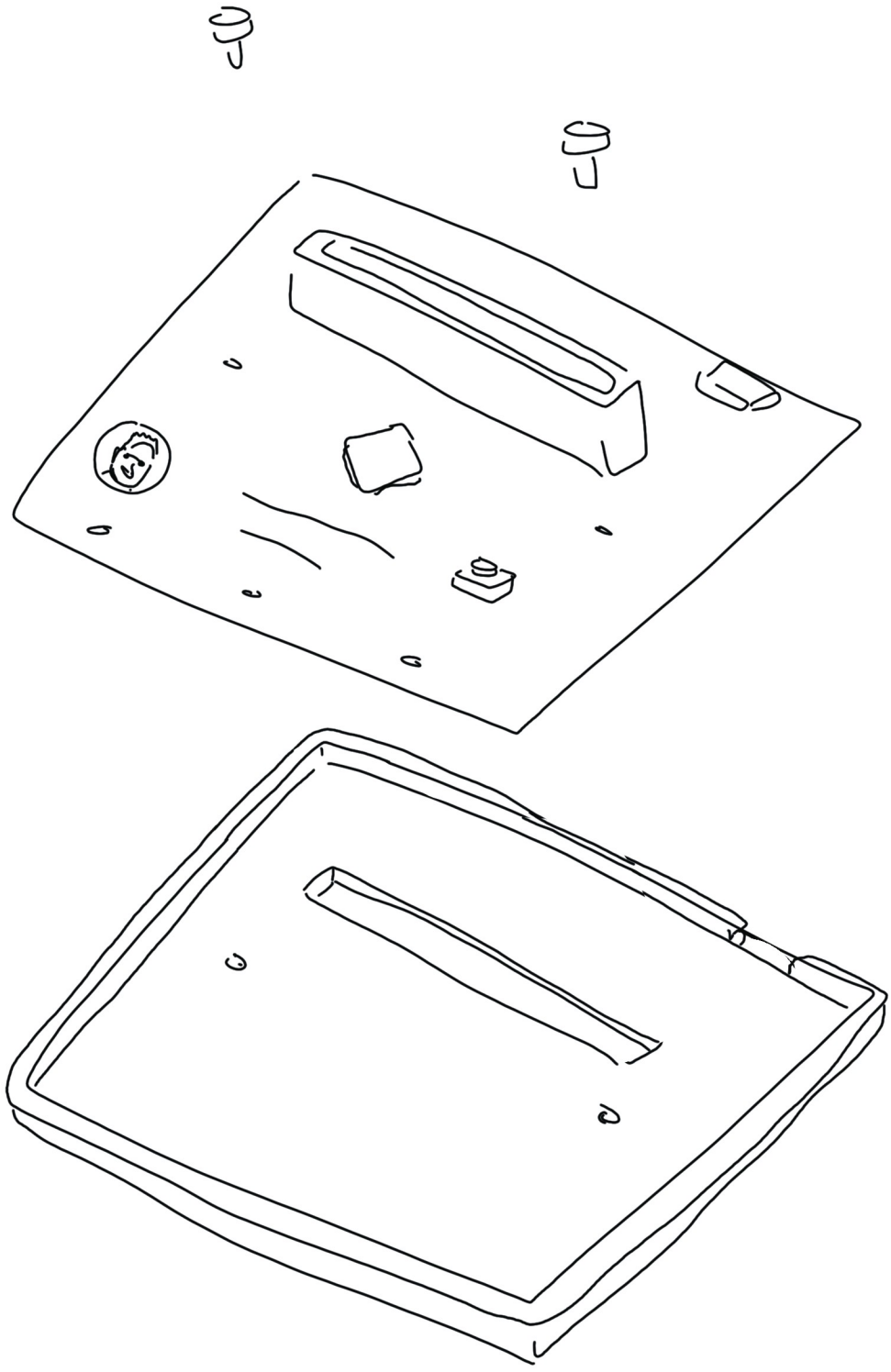


Data Cartridge



Two screws hold together the cartridge shell at the top, angled tabs stabilize the middle.

Cartridge Flasher Tool



I don’t have a CAD model handy for the flasher but it just drops in to the base plate