



Pi Control Rev 5 Easy Solder:

This PCB is designed to be as easy to solder as possible using all through hole components. The NFC and Control connector are very small connectors(1.25mm pitch) and require careful soldering to avoid bridging solder points. The connectors are meant to be inserted into the bottom side of the board.

Osh Park PCB links:

- [Pi Control Rev 5](#).....[Assembly Video](#)(Rev 4 video but Rev 5 mostly the same)
- [Pi Control Control Board Rev 4](#).....[Assembly Video](#)
- [Pi Control USB Extender Rev 4](#).....[Assembly Video](#)

Software install:

- [Read Me](#)(Software install)
- [Various resources](#)(Mostly specific to original kit but may be useful)

Digikey: **Digikey parts**

- [A120924CT-ND](#) (Ribbon Cable Connector) Quantity: 2(recommend 6 for mistakes)
- [ED2986-ND](#) (Front USB Port Style A) Quantity: 1
- [160-1139-ND](#) (Front Panel Power LED) Quantity: 1
- [S7076-ND](#) (16 Pin Pi Header Connector) Quantity: 1
- [455-1719-ND](#) (2 Pin 2mm Pitch Fan Connector) Quantity: 1
- [NDD02N40-1GOS-ND](#) (N-Channel Fan Mosfet) Quantity: 1
- [CF14JT150RCT-ND](#) (150ohm Power LED Resistor) Quantity: 1
- [CF14JT10K0CT-ND](#) (10kohm Fan Mosfet Resistor) Quantity: 1
- [1N4001-TPMSCT-ND](#) (Fan Flyback Diode) Quantity: 1
- [WM1744-ND](#) (4 Pin Front Panel Connector) Quantity: 1
- [WM1746-ND](#) (6 Pin NFC Connector) Quantity: 1

Amazon:

- [PN532 V3](#)(NFC Reader...Only seller I have not received bad clones from) Quantity: 1
- [Latching Push Button Switch](#)(Power Switch) Quantity: 1
- [Momentary Push Button Switch](#)(Reset Switch) Quantity: 1
- [Ribbon Cable](#)(USB Extension) Quantity: 1
- [Dual USB Port](#)(Front USB Port Style B. Requires different bottom shell print linked below) Quantity: 1
- [MIFARE Classic 1K](#)(NFC tag) Quantity: 1

Ebay:

- [Micro JST Picoblade 1.25mm Pitch 4 Pin](#)(Front Control Panel Pigtail) Quantity: 1
- [Micro JST Picoblade 1.25mm Pitch 6 Pin](#)(NFC Pigtail) Quantity: 1

Recommended Printed Parts:

- [Style B USB port bottom shell](#)
- [USB shim](#)
- [LED guide/spacer\(helps with LED alignment and spacing...not required\)](#)
- [Embedded NFC tray with additional clearances](#)
- [No glue cartridge\(I prefer the file with built in x-brace\)](#)
- [Daft Mike's original files for the rest of the parts](#)