

Assembly

Assembly of LCD with rotary button upgrade for the Printbot Simple Metal requires some soldering.

Read the all of the linked content, in the Assembly section of the Resources page, before continuing.

Bottom Side of the PCB

Put together the 'bottom side' of the board first.

- resistor
- trimpot
- capacitor
- switch

Here is a local copy of the photo of PCB's assembled bottom side from Rick's documentation:
Image Credit: [Rick's Sight](#)

Top Side of the PCB

Next, put together the 'top side' of the board first.

- female header
- button
- rotary button

Again, here is a photo from Rick's documentation of the top side of the PCB:
Image Credit: [Rick's Sight](#)

Here is the top side of the PCB, with the LCD attached:

Inter-PCB Cable

The LCD with rotary button PCB and Printbot Simple Metal PCB were connected via the Printbot's Interface2 breakout; the one towards the center of the board. Below are photos of how the LCD with rotary button PCB was connected to the Printbot Simple Metal (Revision D) PCB:

Here is a shot of the ribbon cable connecting the LCD with rotary button PCB to the Printrbot Simple Metal PCB:

Here is the better shot of the ribbon cable connected to the Printrbot's board:

3D Printed Enclosure

See the Resources section for a link to the 3D models for the LCD with rotary button upgrade's enclosure.

Here is a shot of the of the assembled PCBs in the 3D printed enclosure:

This is a photo of the completed LCD with rotary button upgrade for the Printrbot Simple Metal.

3D Printer Upgrades - Printrbot Simple Metal - LCD with Rotary Button Upgrade

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