

Solidoodle 5 Wiring Breakdown

X/Y/Z Motor Cable
805mm 18 AWG 4-WIRE RIBBON CABLE

Connectors: MOLEX 50-57-9404, JST PHR-6

Layout: Wires travel to corner of machine and joins with main bundle.

Please see detail view of print car wiring layout on next page.

Extruder Motor Cable Long

1150mm 18 AWG 4-WIRE RIBBON CABLE
Connectors: MOLEX 50-57-9404, JST SMR-04V-B

Extruder Motor Cable Short

75mm 18 AWG 4-WIRE RIBBON CABLE
Connectors: JST PHR-6, JST SMP-04V-BC

Layout: Short cable connects to motor, long cable connects to short cable, and then joins with main wire bundle.

Fan Cable

1010mm 18 AWG 2-WIRE RIBBON CABLE

Connectors: MOLEX 50-57-9402, JST SMR-02V-B

Layout: Cable connects to fan's built in wiring, and from there joins the main wire bundle.

Heater Cable, Thermistor Cable, X/Y/Z Limit Switch

1010mm 18 AWG 2-WIRE RIBBON CABLE (3X)

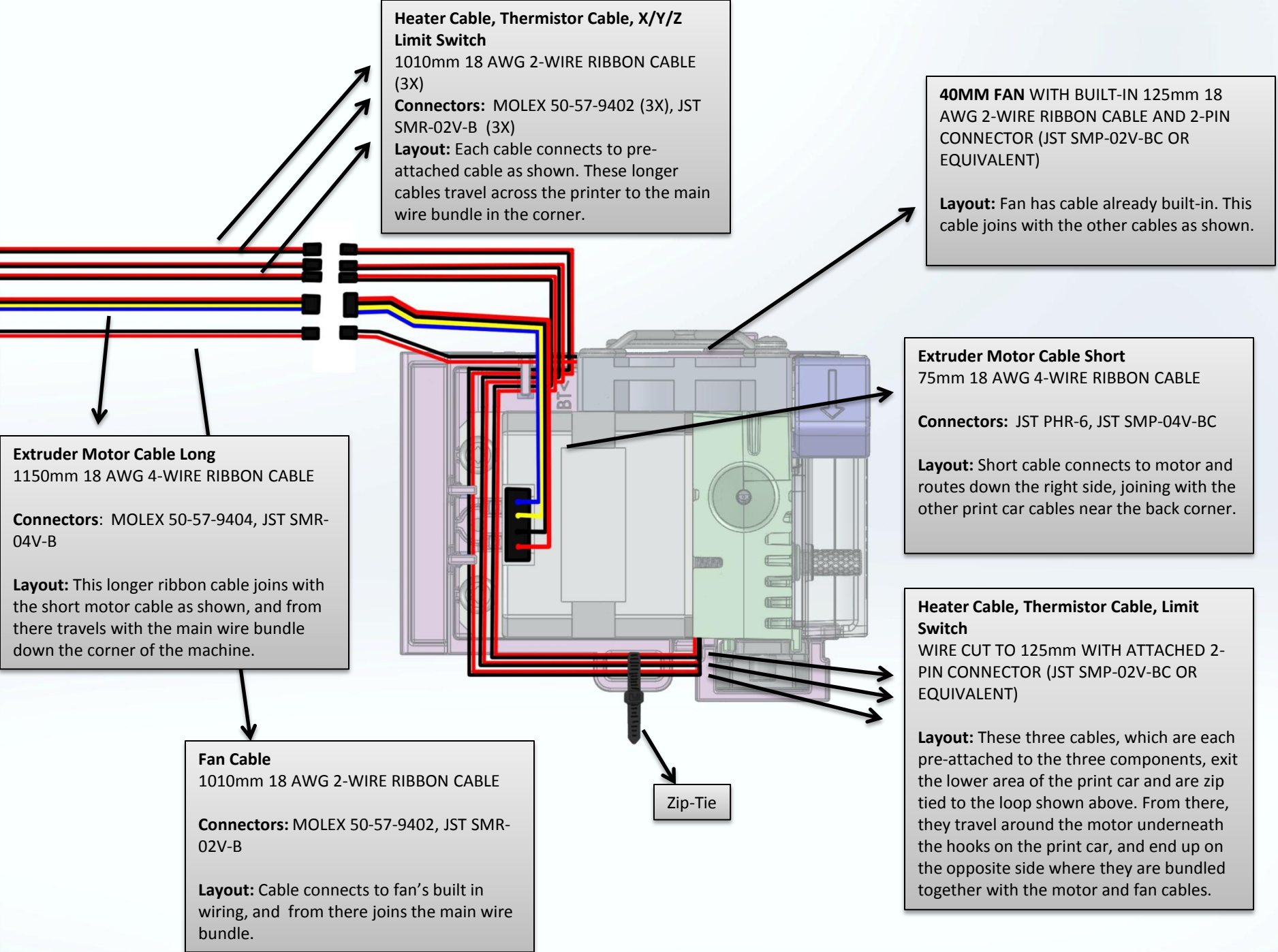
Connectors: MOLEX 50-57-9402 (3X), JST SMR-02V-B (3X)

Layout: Each cable connects to the built-in cable of its component (heater, thermistor, switch). They then join the main wire bundle.

Flexible LED Strip Cable

810mm 18 AWG 2-WIRE RIBBON CABLE and 2-PIN CONNECTOR (MOLEX 22-01-2025 OR EQUIVALENT)

Layout: Wire built-in to flexible LED strip. It travels from the front of the machine through the slots on the side, and meets the main wire bundle in the corner.

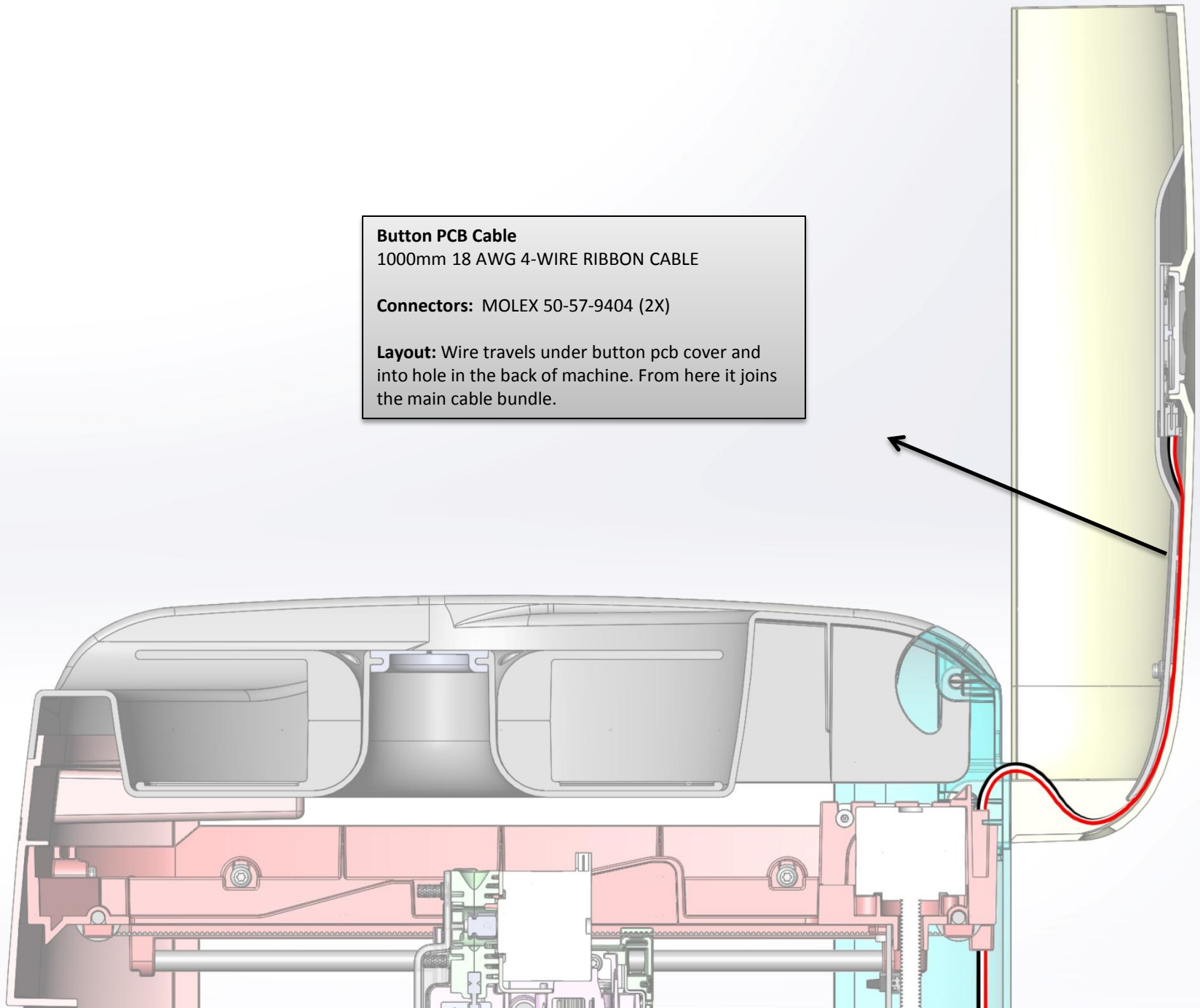


Button PCB Cable

1000mm 18 AWG 4-WIRE RIBBON CABLE

Connectors: MOLEX 50-57-9404 (2X)

Layout: Wire travels under button pcb cover and into hole in the back of machine. From here it joins the main cable bundle.

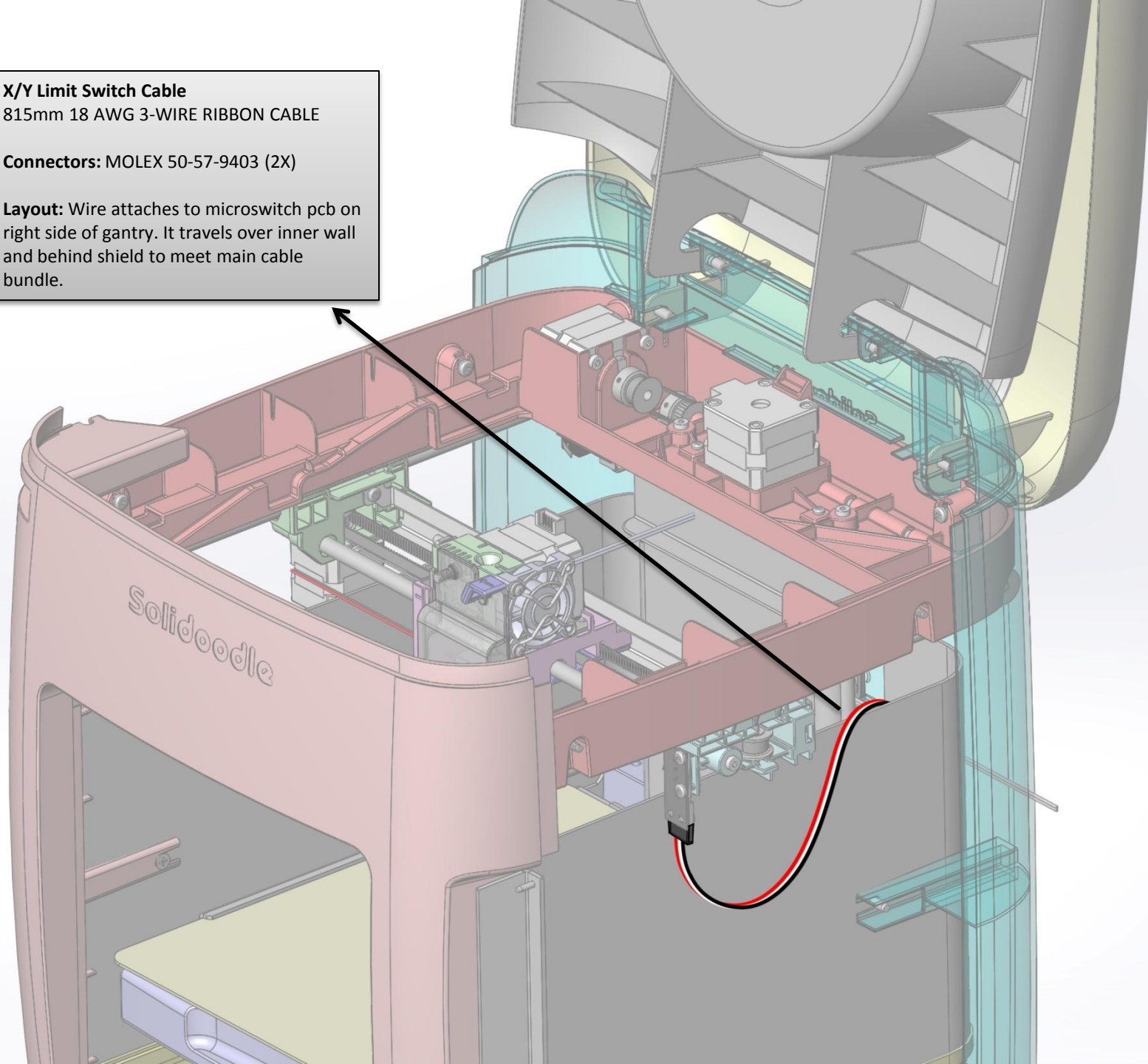


X/Y Limit Switch Cable

815mm 18 AWG 3-WIRE RIBBON CABLE

Connectors: MOLEX 50-57-9403 (2X)

Layout: Wire attaches to microswitch pcb on right side of gantry. It travels over inner wall and behind shield to meet main cable bundle.



Z Limit Switch Cable

280mm 18 AWG 3-WIRE RIBBON
CABLE

Connectors: MOLEX 50-57-9403 (2X)

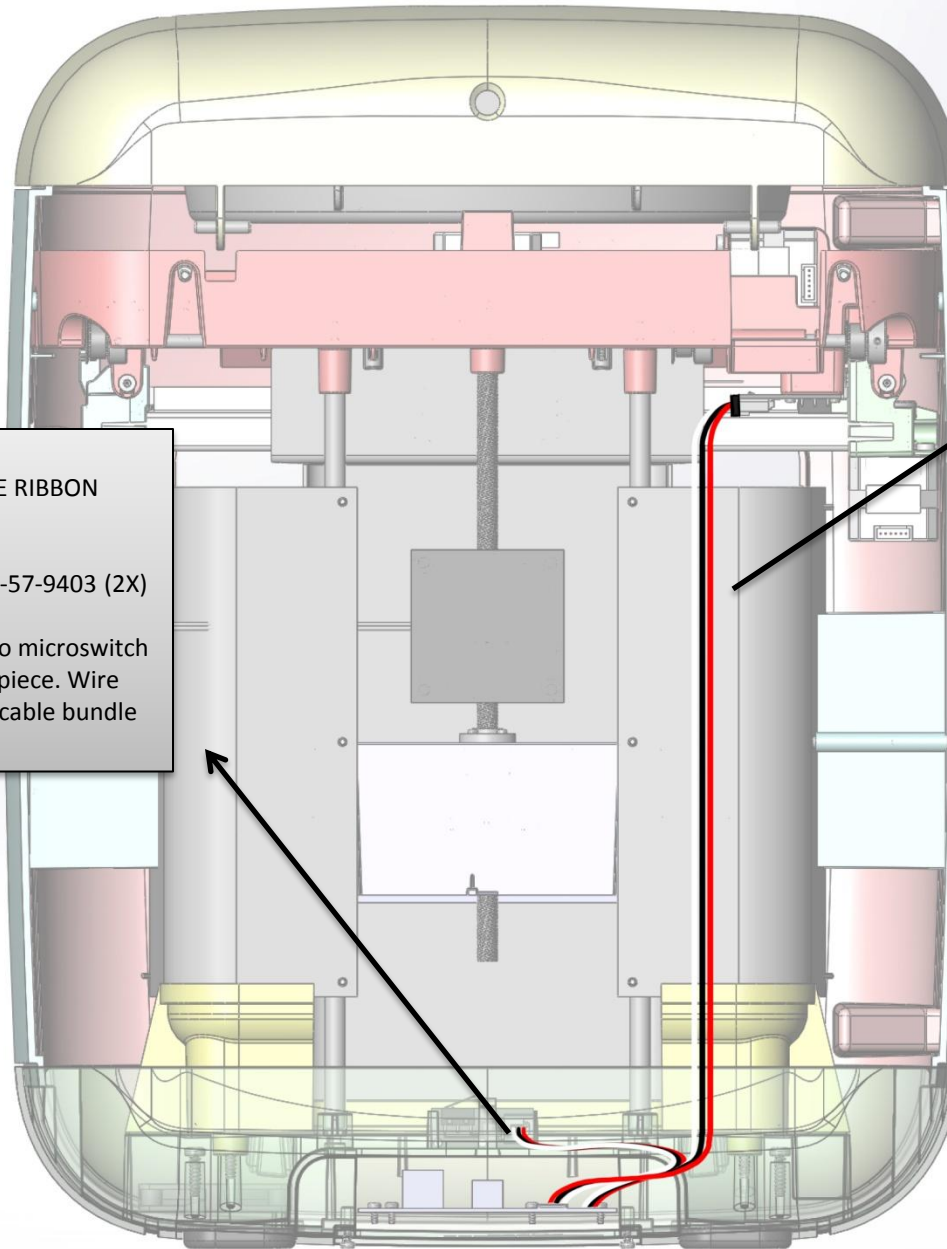
Layout: Wire attaches to microswitch
pcb located on bottom piece. Wire
travels directly to main cable bundle
in corner.

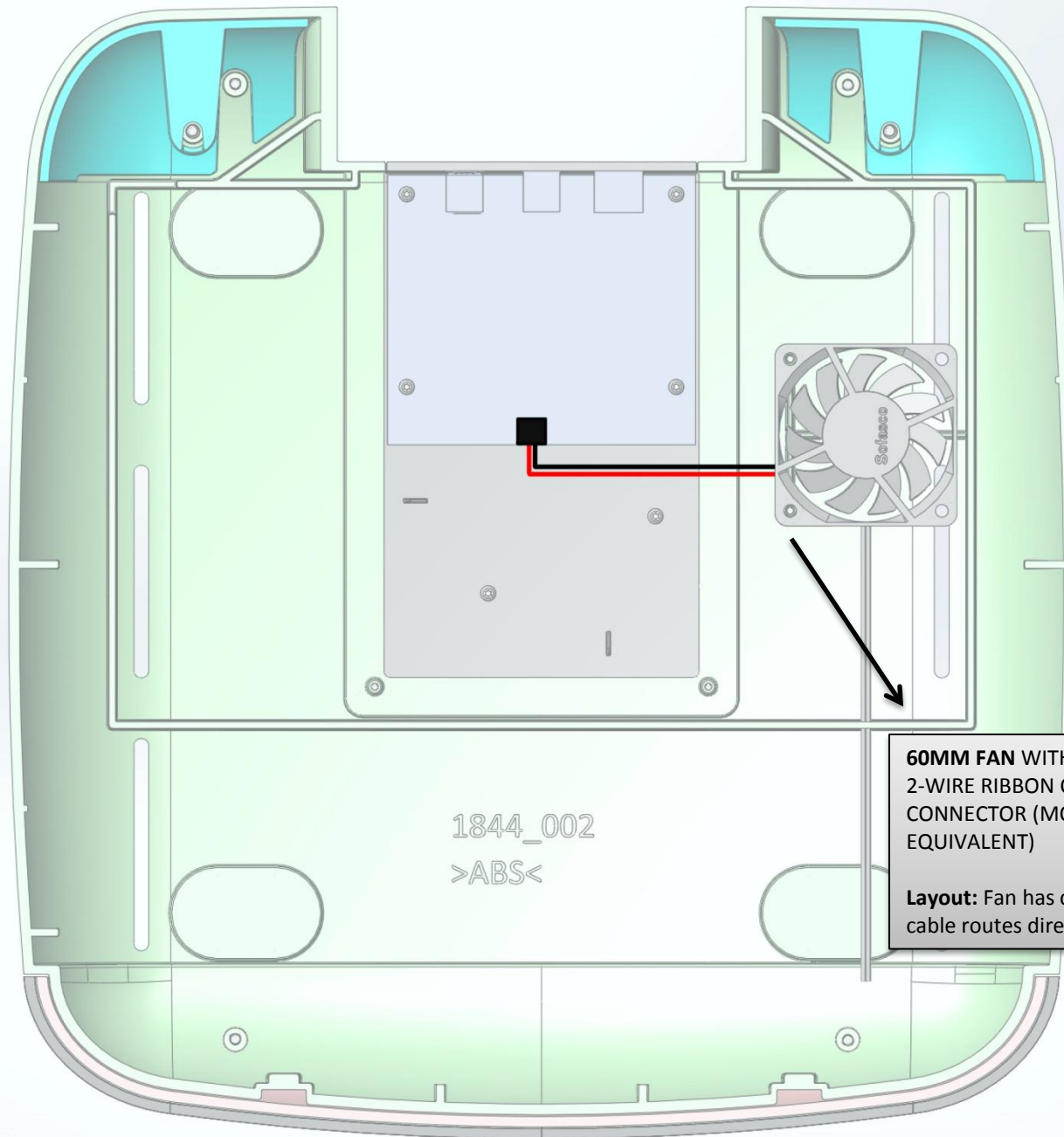
X/Y Limit Switch Cable

815mm 18 AWG 3-WIRE RIBBON
CABLE

Connectors: MOLEX 50-57-9403 (2X)

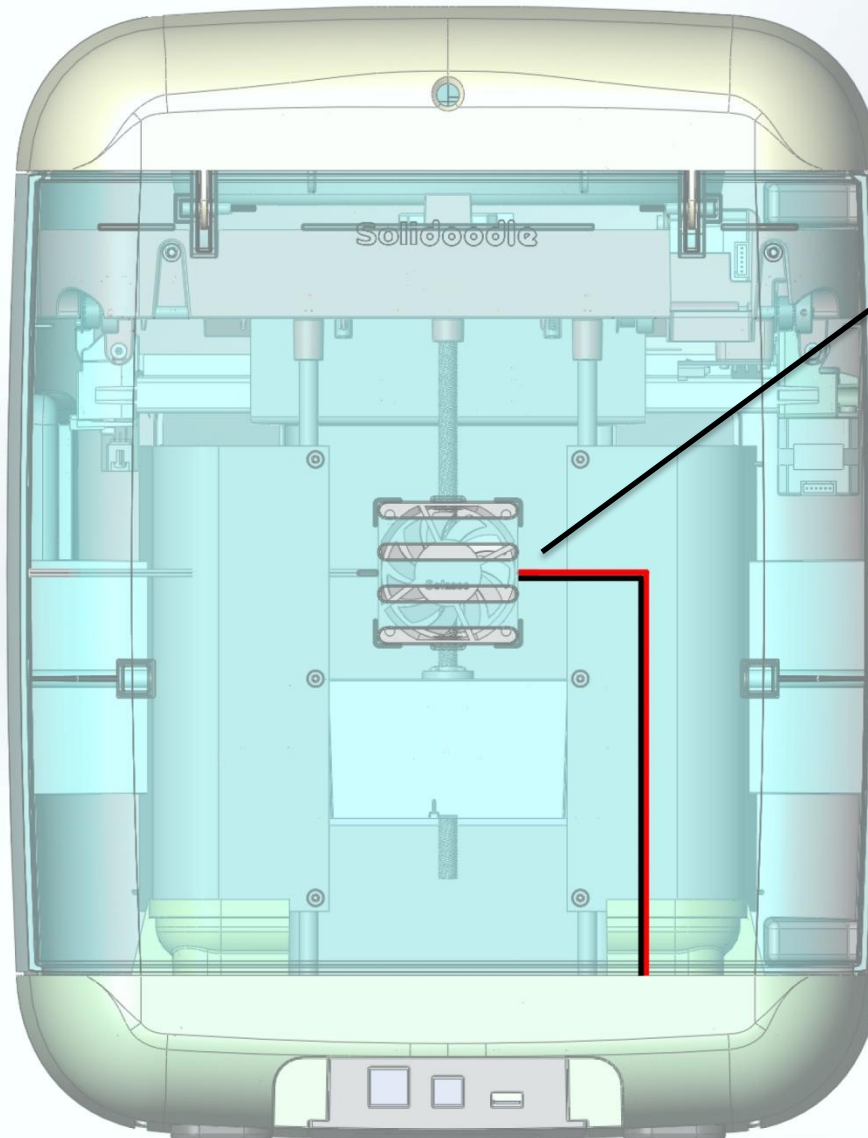
Layout: Wire attaches to microswitch
pcb on underside of gantry, and
travels down behind inner wall into
main cable bundle.





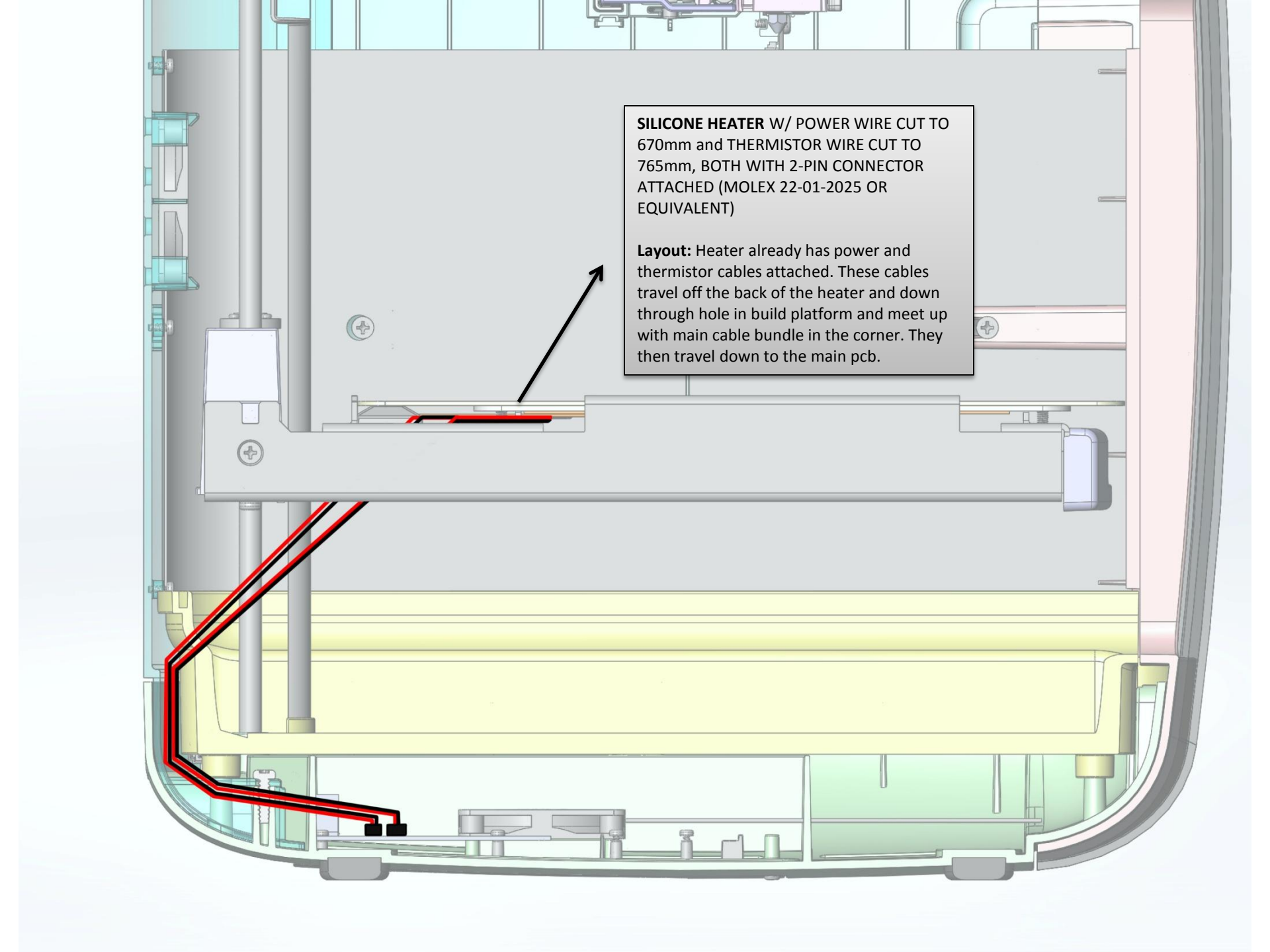
60MM FAN WITH BUILT-IN 150mm 18 AWG 2-WIRE RIBBON CABLE AND 2-PIN CONNECTOR (MOLEX 22-01-2025 OR EQUIVALENT)

Layout: Fan has cable already built-in. This cable routes directly into main PCB.



60MM FAN WITH BUILT-IN 150mm 18 AWG 2-WIRE RIBBON CABLE AND 2-PIN CONNECTOR (MOLEX 22-01-2025 OR EQUIVALENT)

Layout: Fan has cable already built-in. This cable routes to the left of the machine into the main cable bundle, and then travels down to the main pcb.



SILICONE HEATER W/ POWER WIRE CUT TO 670mm and THERMISTOR WIRE CUT TO 765mm, BOTH WITH 2-PIN CONNECTOR ATTACHED (MOLEX 22-01-2025 OR EQUIVALENT)

The diagram is a cross-sectional view of a device. At the top, there are various mechanical components and a window. Below this is a grey rectangular block. A black arrow points from a text box to a small component on the front face of this grey block. Below the grey block is a yellow horizontal bar. At the bottom, there is a green section containing electronic components. Red and black wires are shown running from the heater component, down through a hole in the grey block, and then along the left side of the device to connect to components in the green section.

Layout: Heater already has power and thermistor cables attached. These cables travel off the back of the heater and down through hole in build platform and meet up with main cable bundle in the corner. They then travel down to the main pcb.