

M955: Configure Accelerometer

To be supported in RRF 3.4 (limited support in 3.3beta3)

Parameters (provisional)

Pnn or Pbb.nn Accelerometer to use (required)

Inn Accelerometer orientation

Snnn Sample rate (Hz)

Rnn Resolution (bits), typically 8, 10 or 12

C"aaa+bbb" Pins to use for CS and INT when connecting the accelerometer via SPI
Qnnn (RRF 3.3RC1 and later) SPI clock frequency (optional, default 2000000 i.e. 2MHz)

This command configures an accelerometer.

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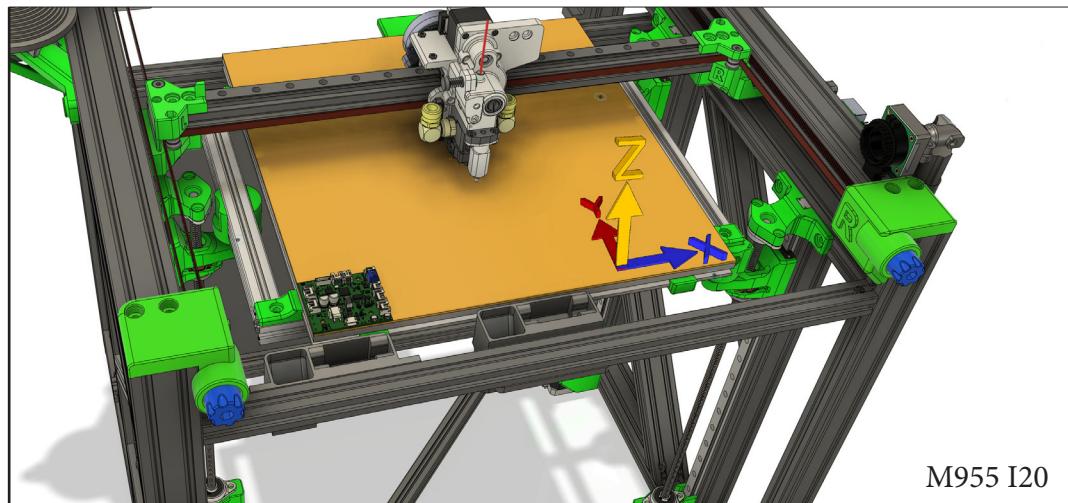
The I (orientation) parameter tells the firmware which of the 24 possible orientations the accelerometer chip is in relative to the printer axes. It is expressed as a 2-digit number.

The first digit specifies which machine direction the Z axis of the accelerometer chip (usually the top face of the chip) faces, as follows: 0 = +X, 1 = +Y, 2 = +Z, 4 = -X, 5 = -Y, 6 = -Z. The second digit expresses which direction the X axis of the accelerometer chip faces, using the same code.

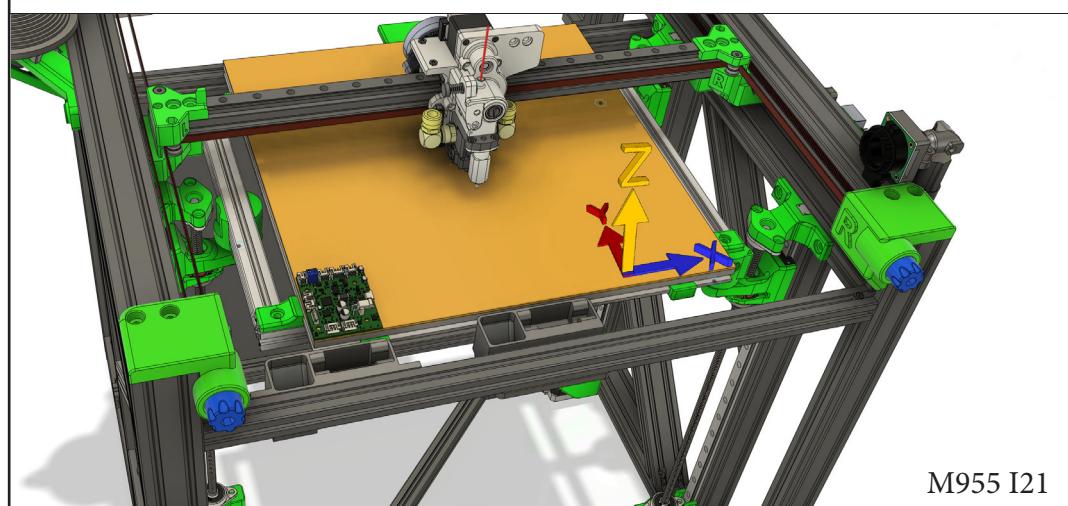
If the accelerometer chip axes line up with the machine axis, the orientation is 20. This is the default orientation if no orientation has been specified.

...

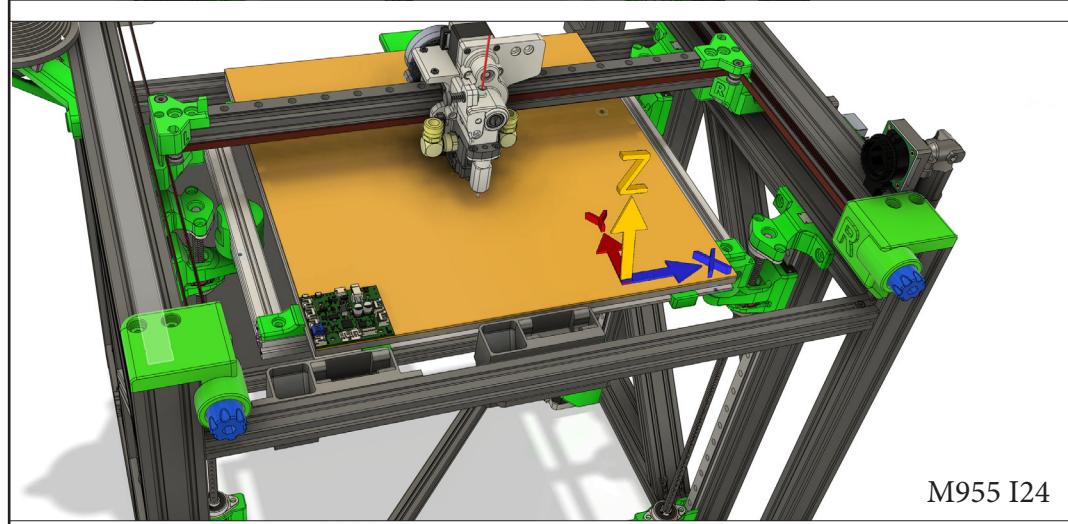
Match the image to your board orientation, and note the I value associated with the image. The indexing component on the board for the purposes of this document, is **OUT 0** connector shown as blue, and is a screw down terminal normally used for the Extruder Heater element.



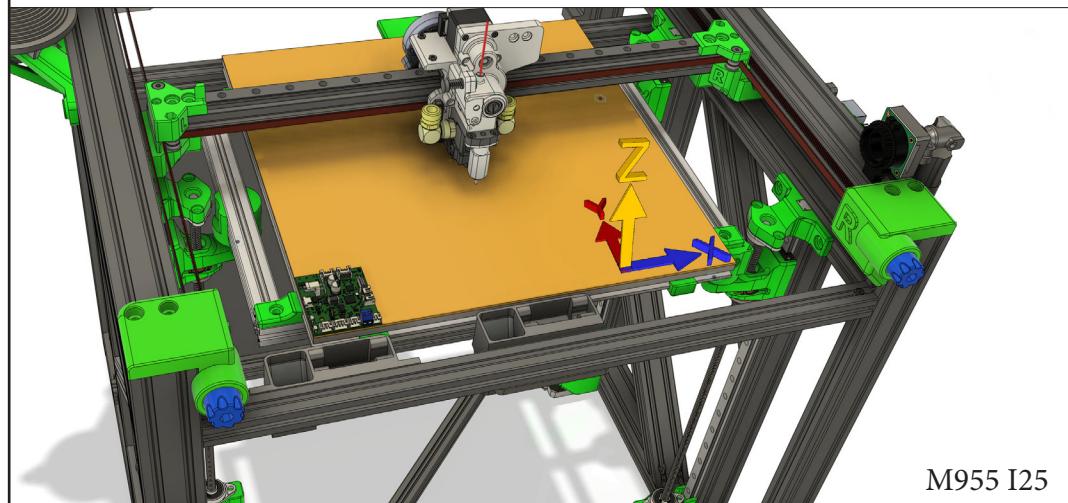
M955 I20



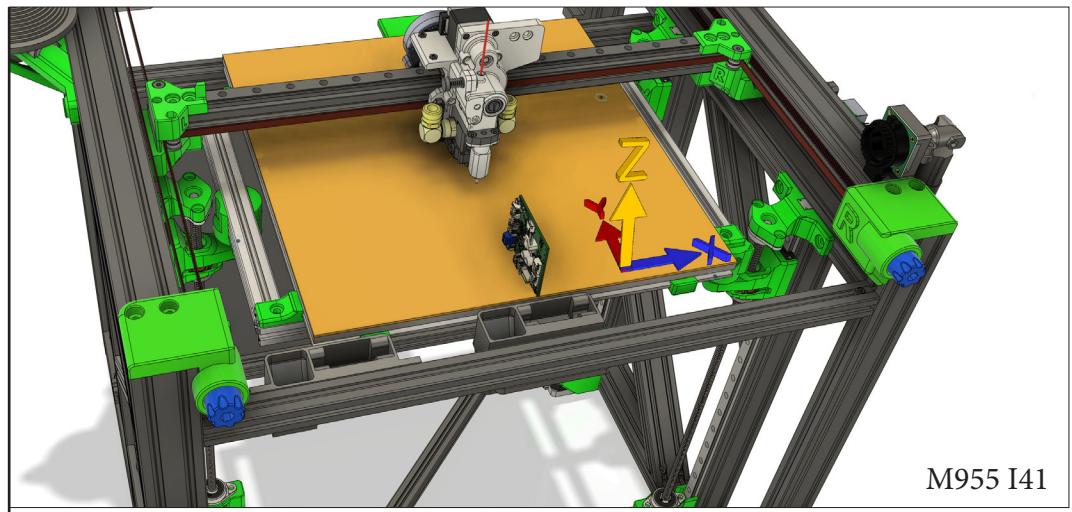
M955 I21



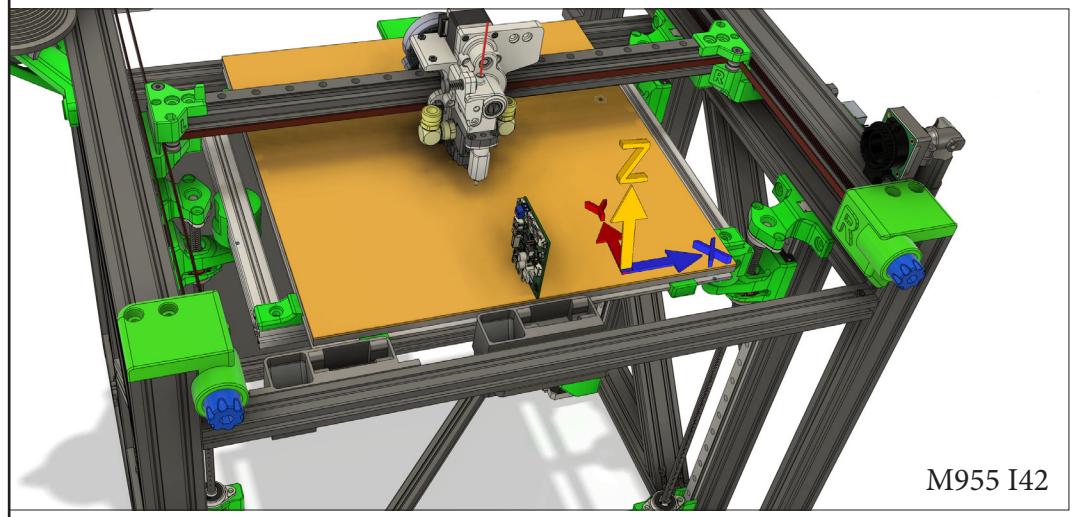
M955 I24



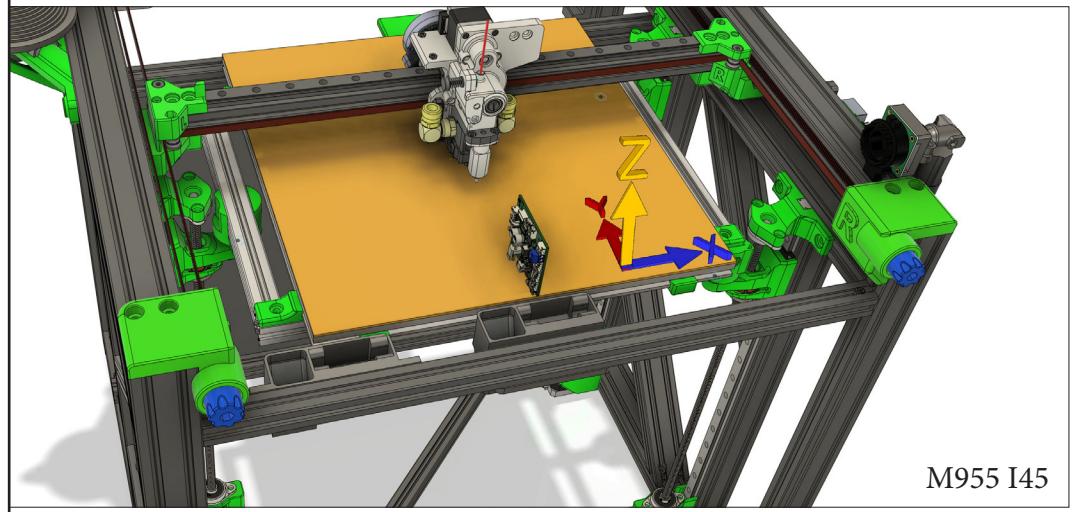
M955 I25



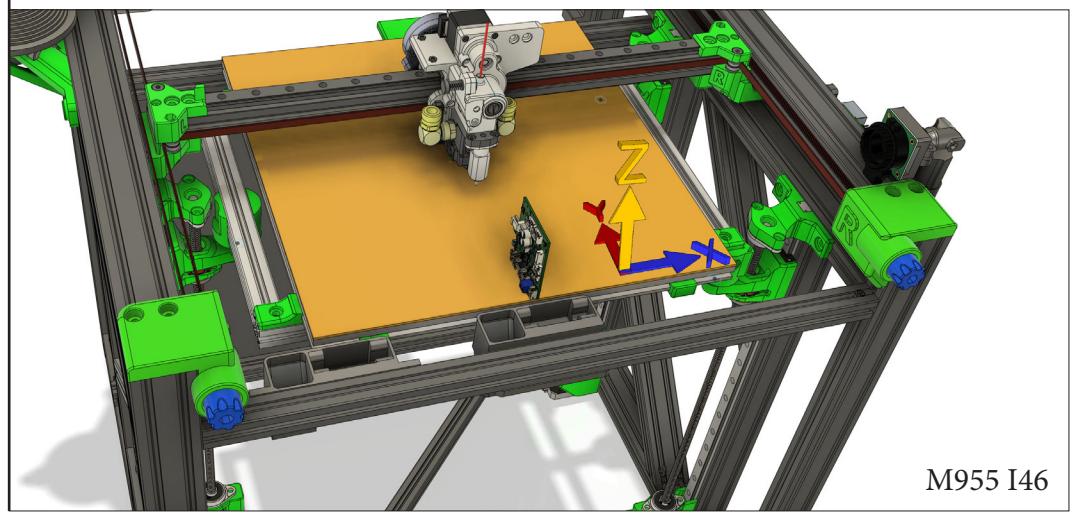
M955 I41



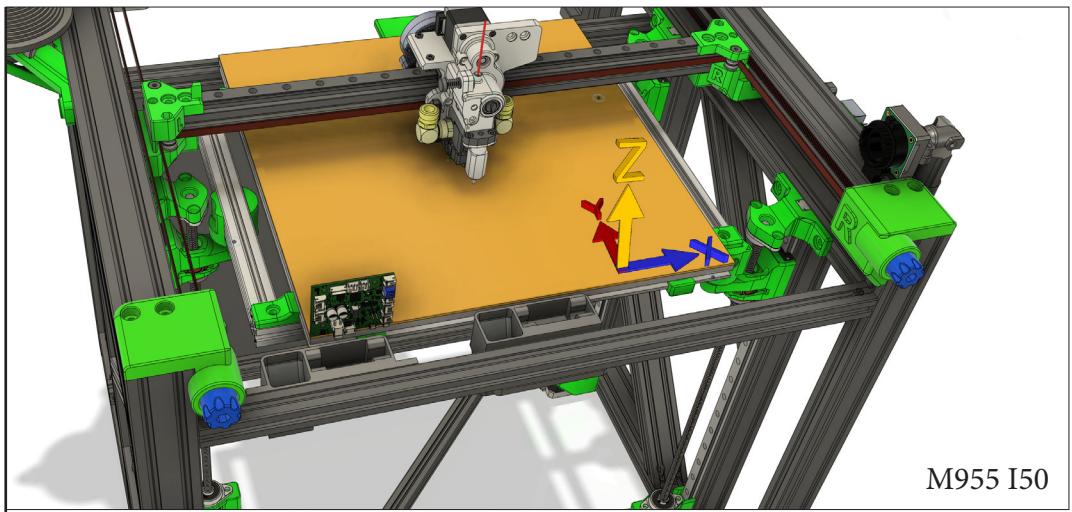
M955 I42



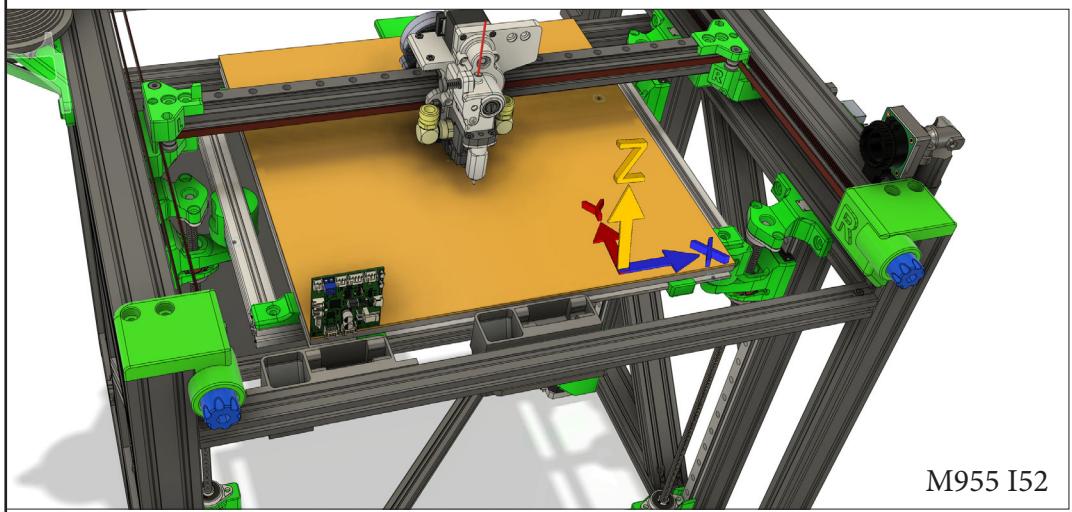
M955 I45



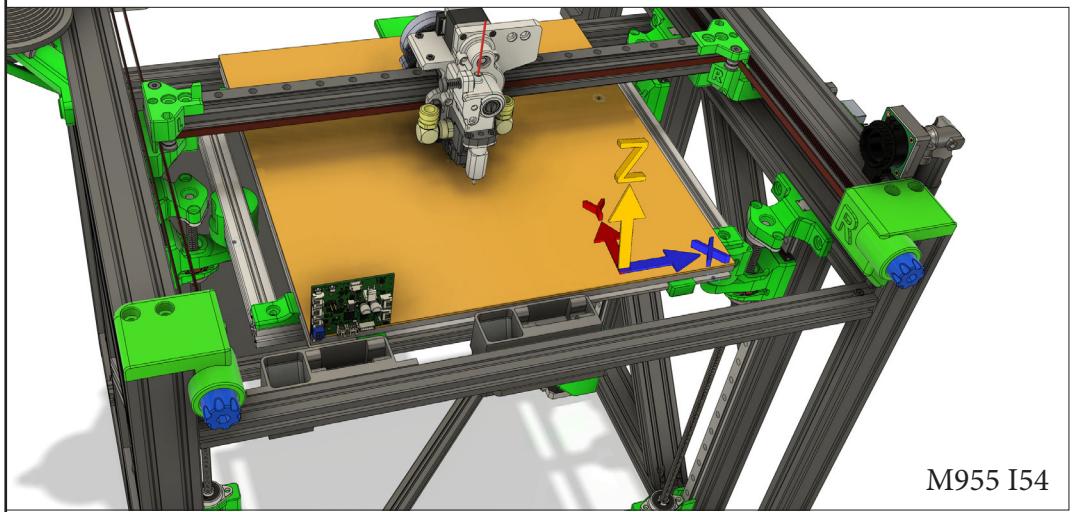
M955 I46



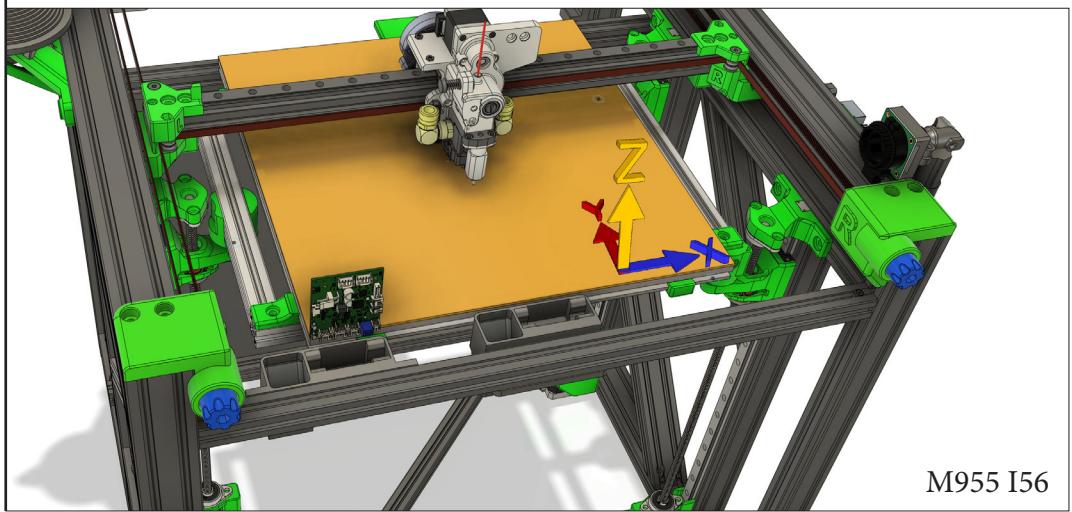
M955 I50



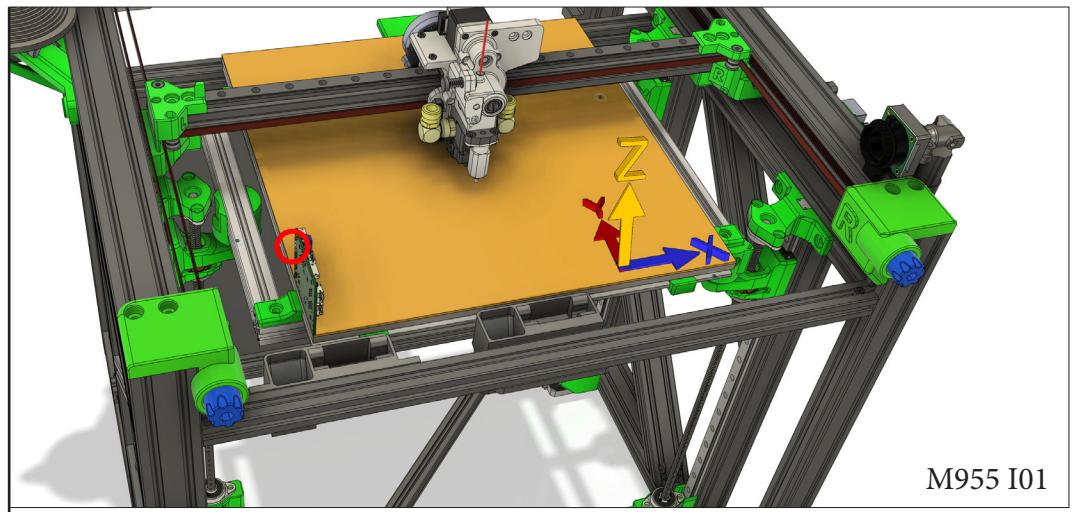
M955 I52



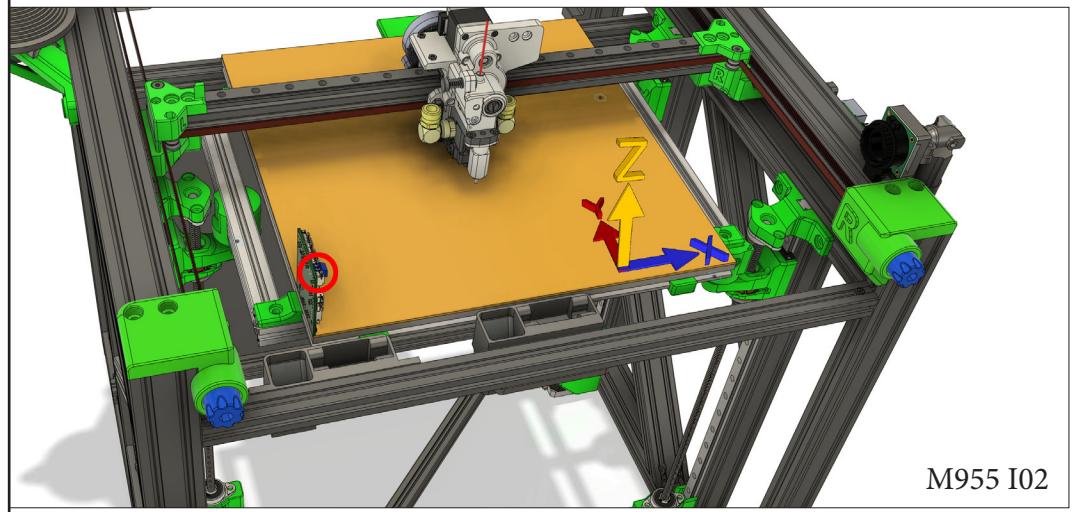
M955 I54



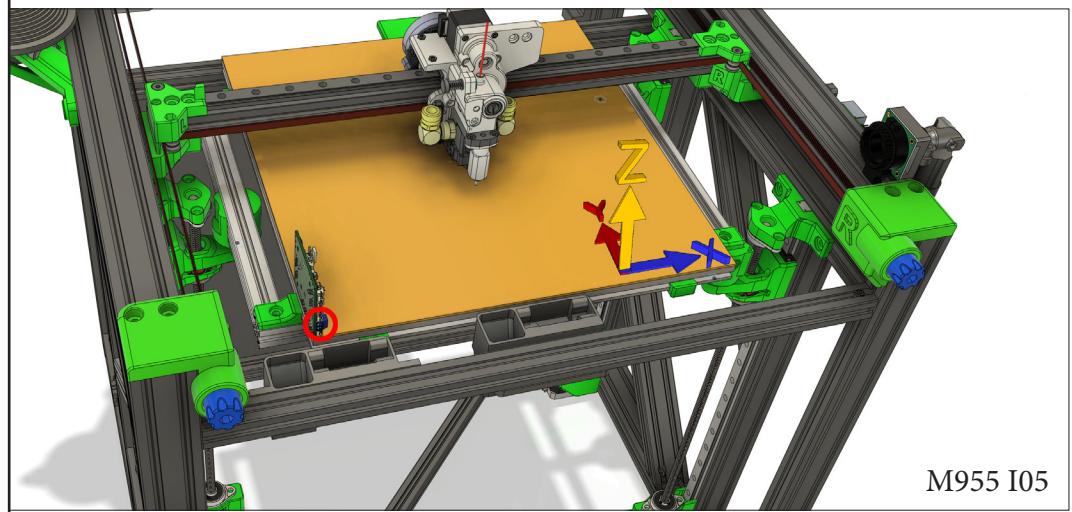
M955 I56



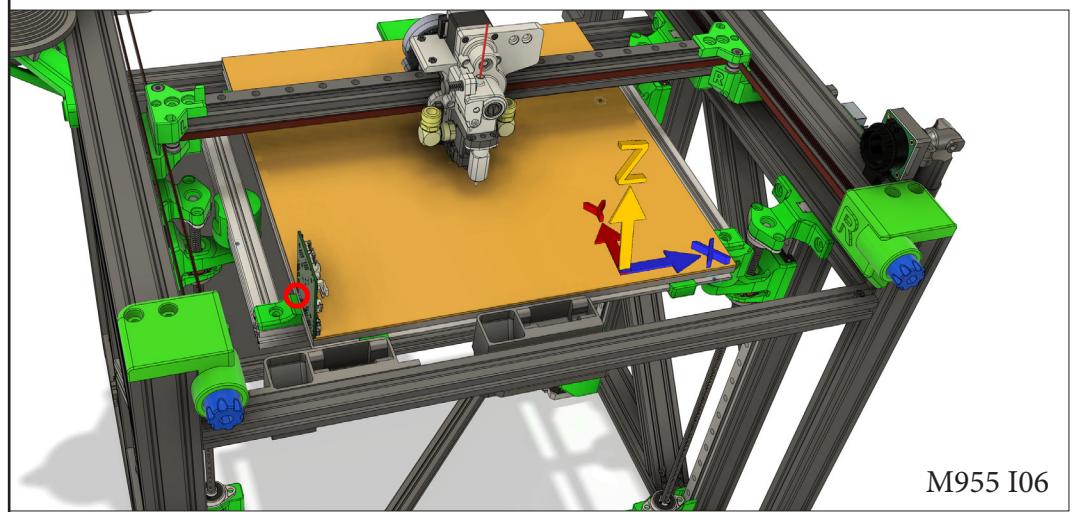
M955 I01



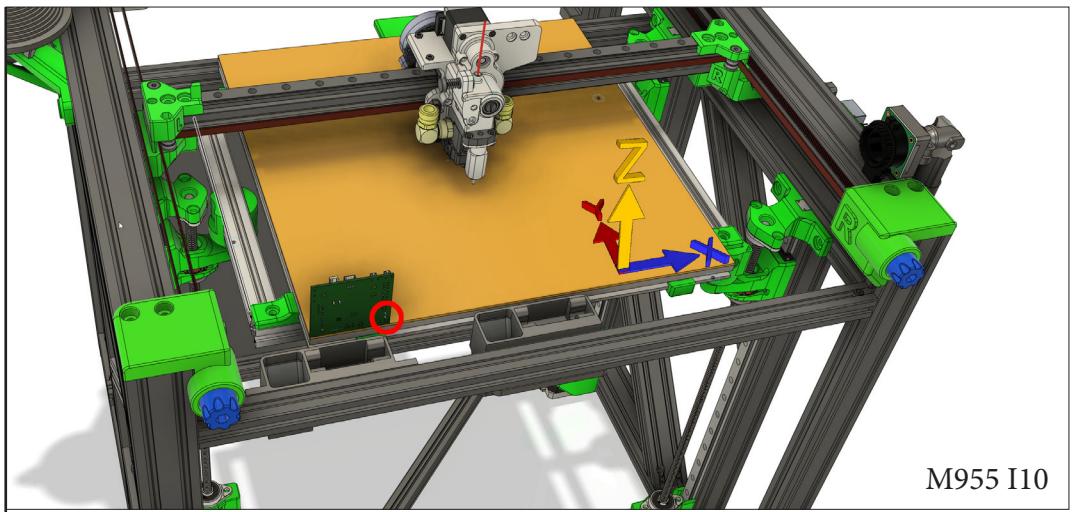
M955 I02



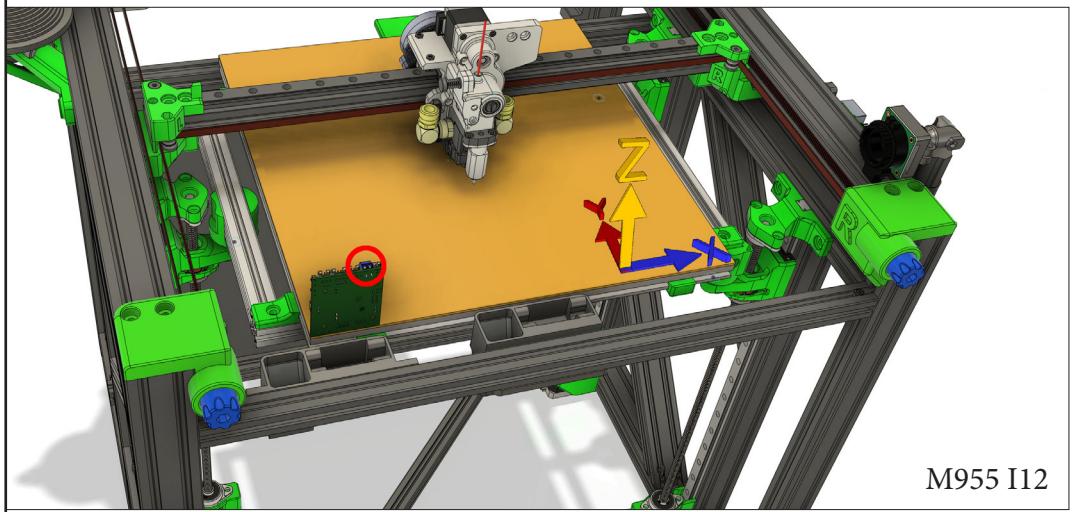
M955 I05



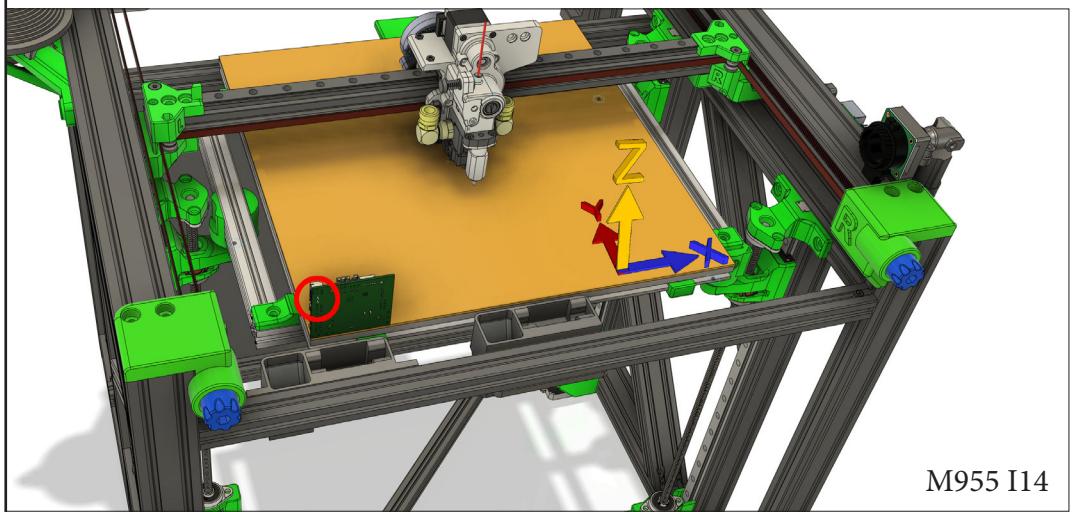
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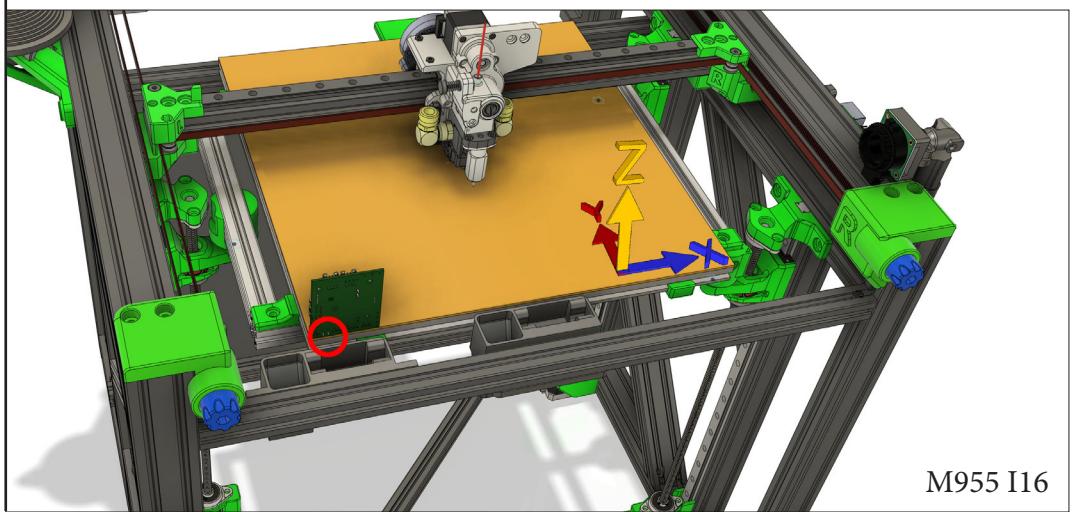
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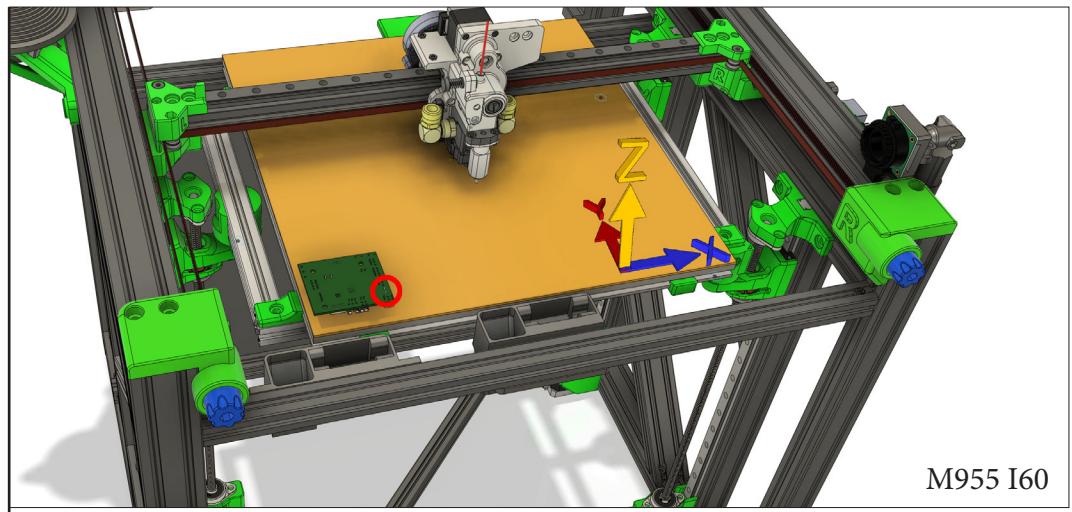
M955 I12



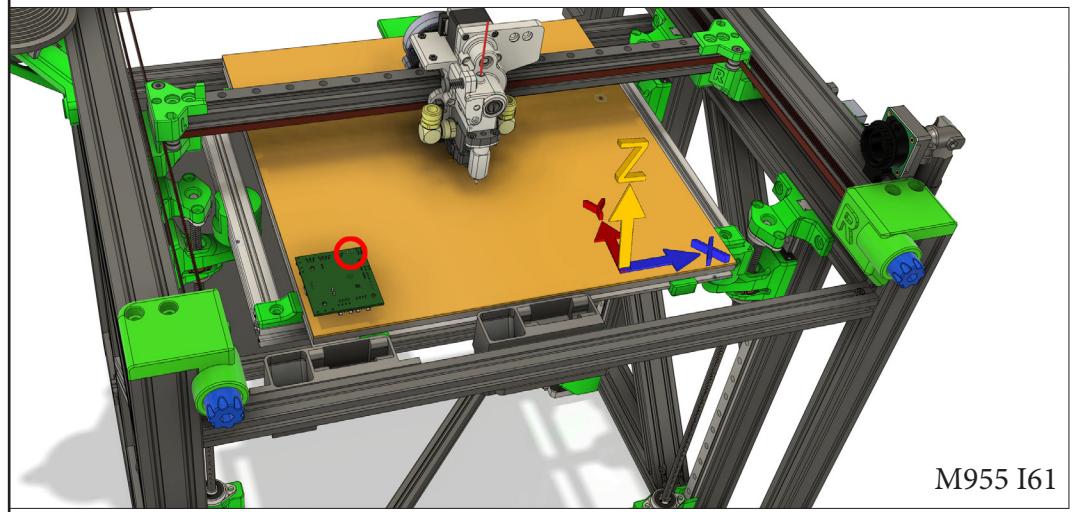
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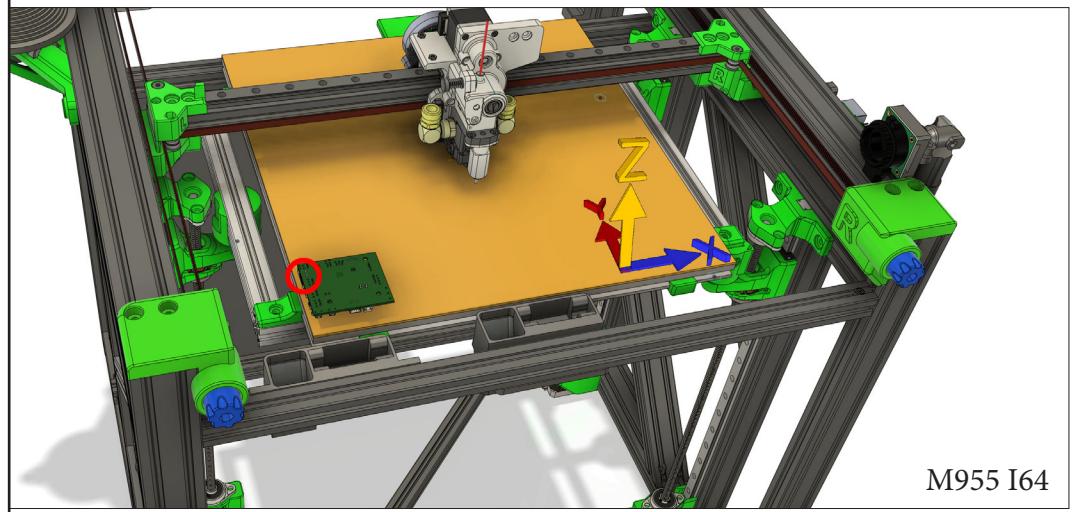
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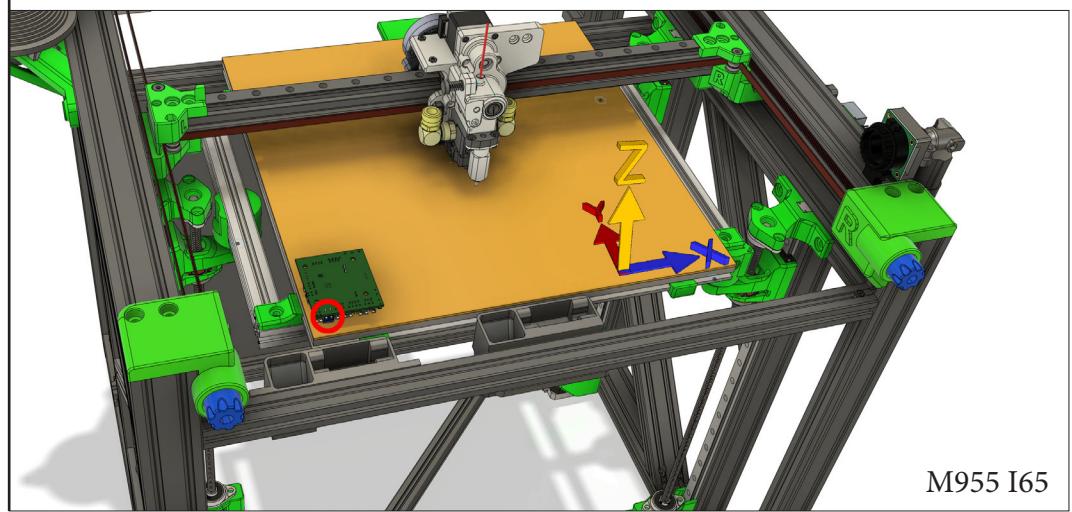
M955 I60



M955 I61



M955 I64



M955 I65