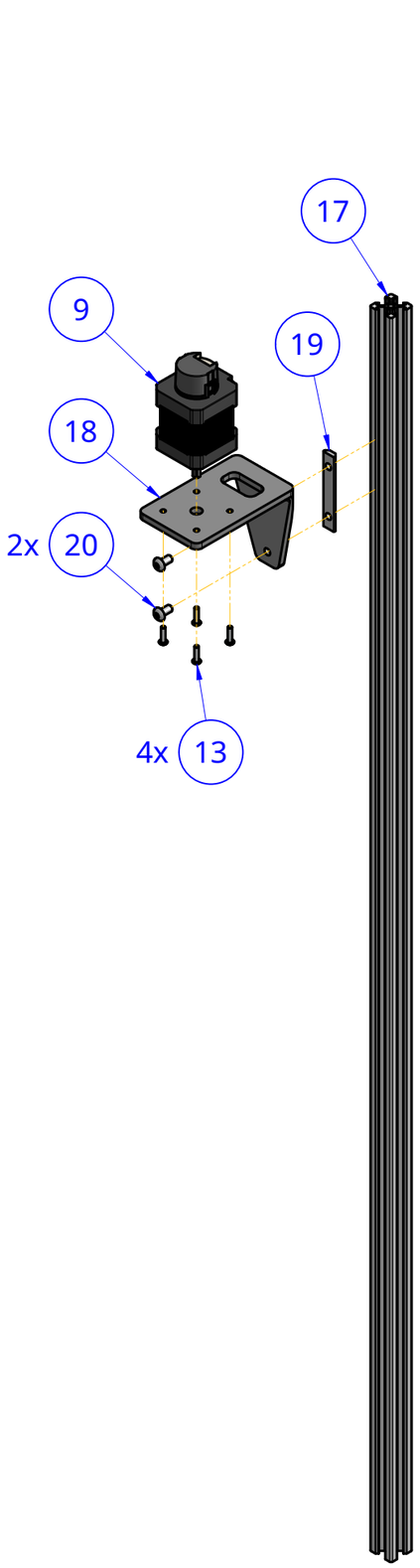
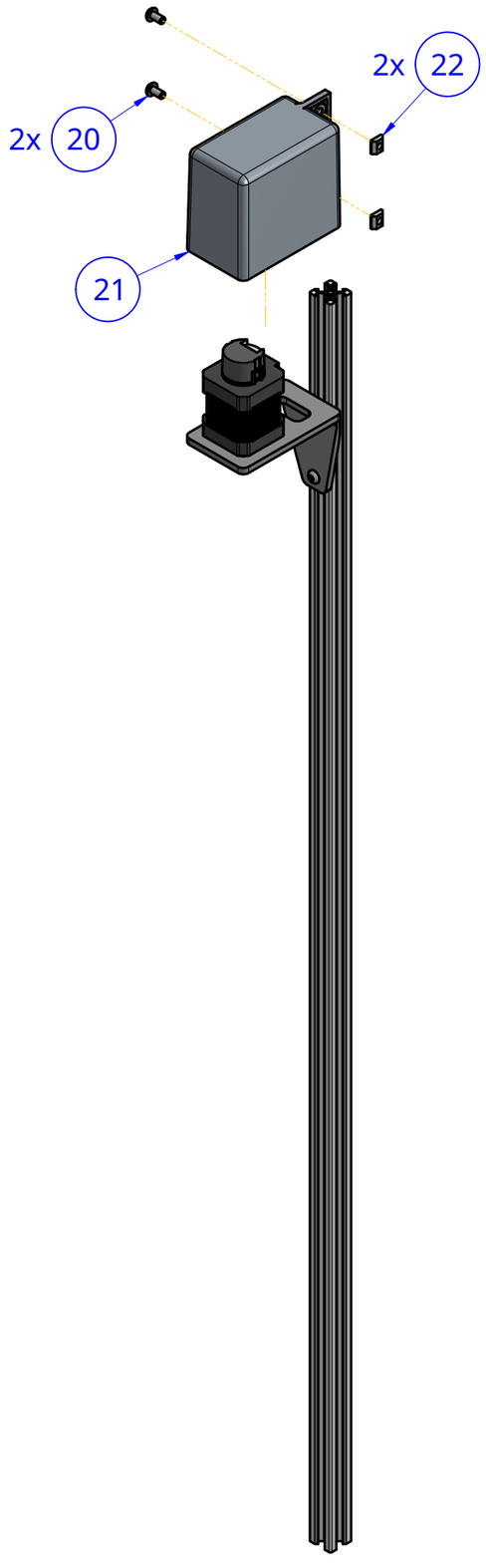
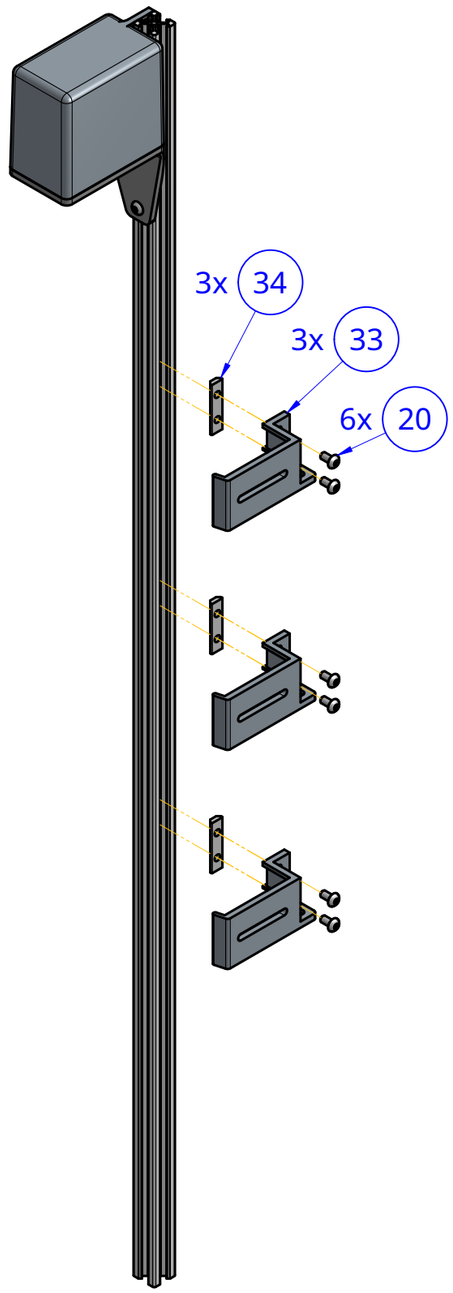
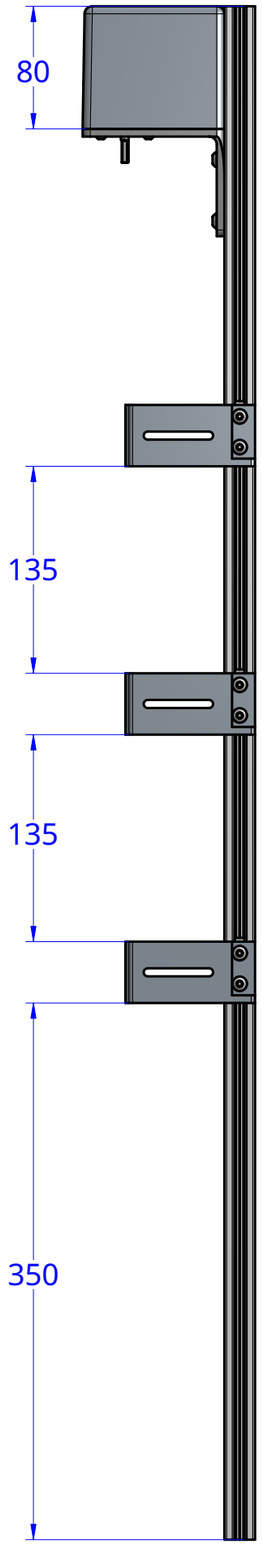








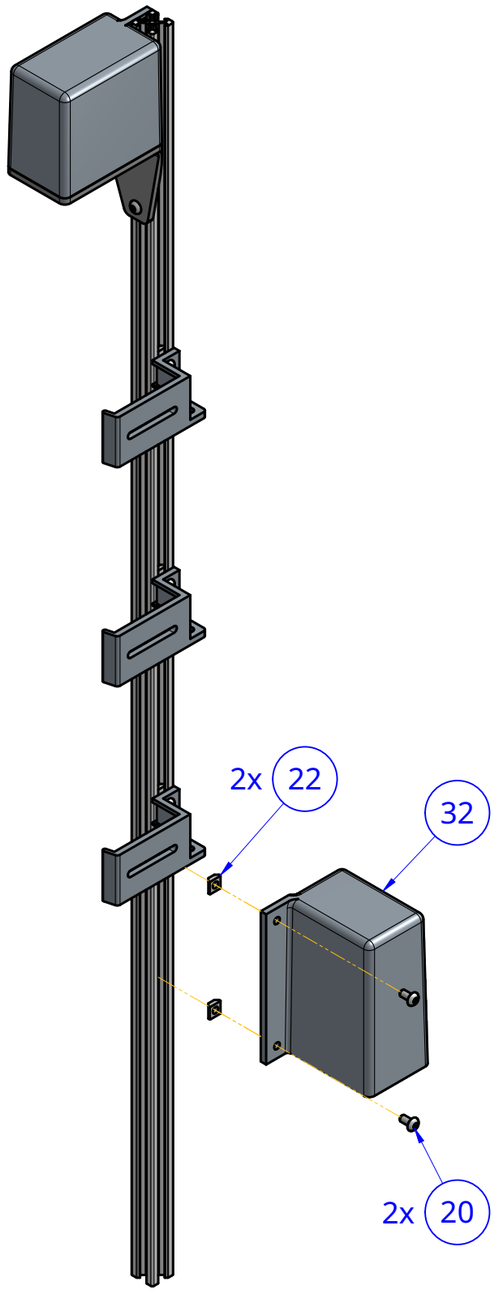
Pre-Assembled Z-Axis Rev B

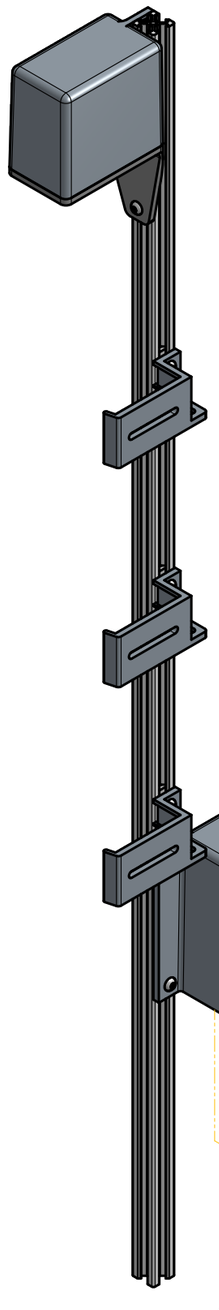
NOTES: N/A

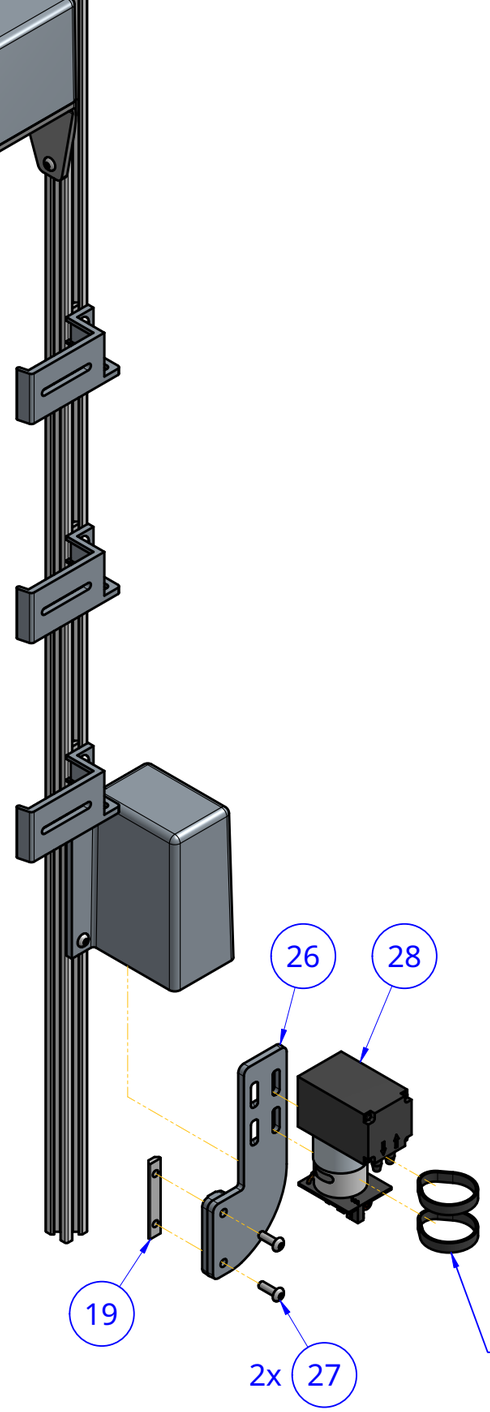
DRAWN BY: Rory Aronson, 2023-08-23
COMPANY: FarmBot Inc
LICENSE: CC0 Public Domain Dedication

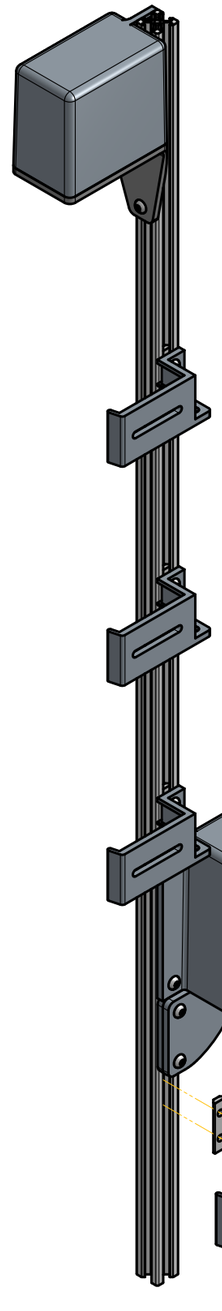
PROJECTION: First Angle
UNITS: Millimeters
SCALE: 1:4

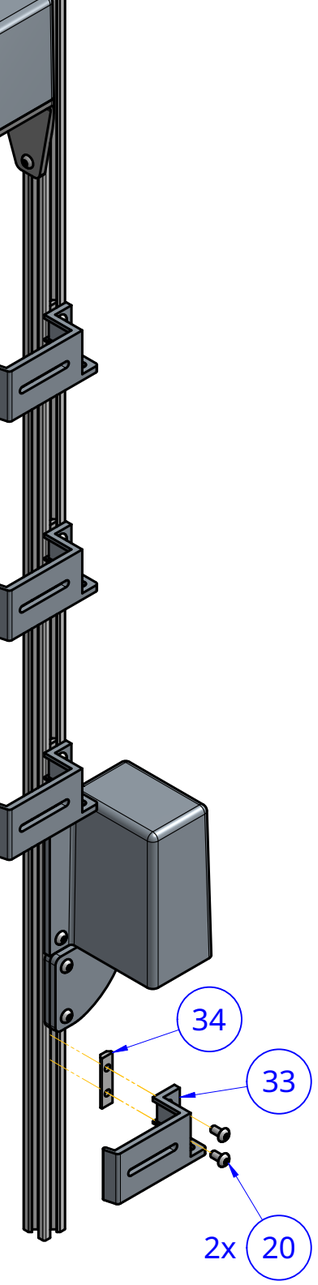
SHEET: 1 of 7
SIZE: A3

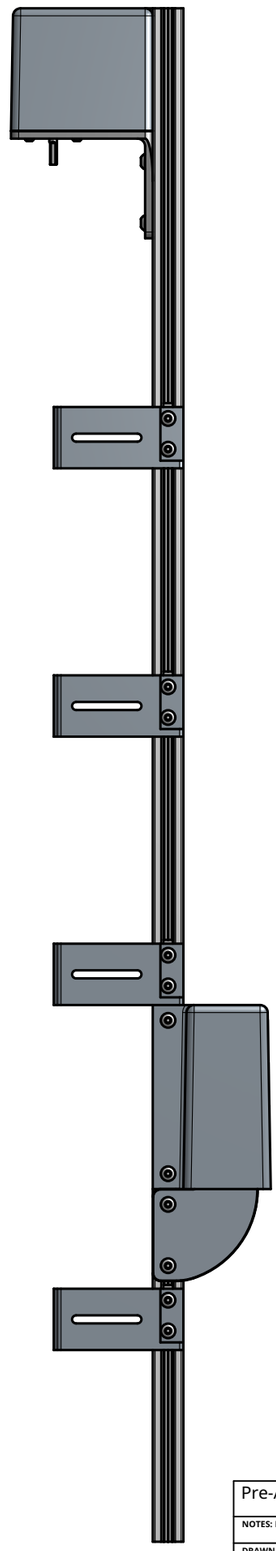




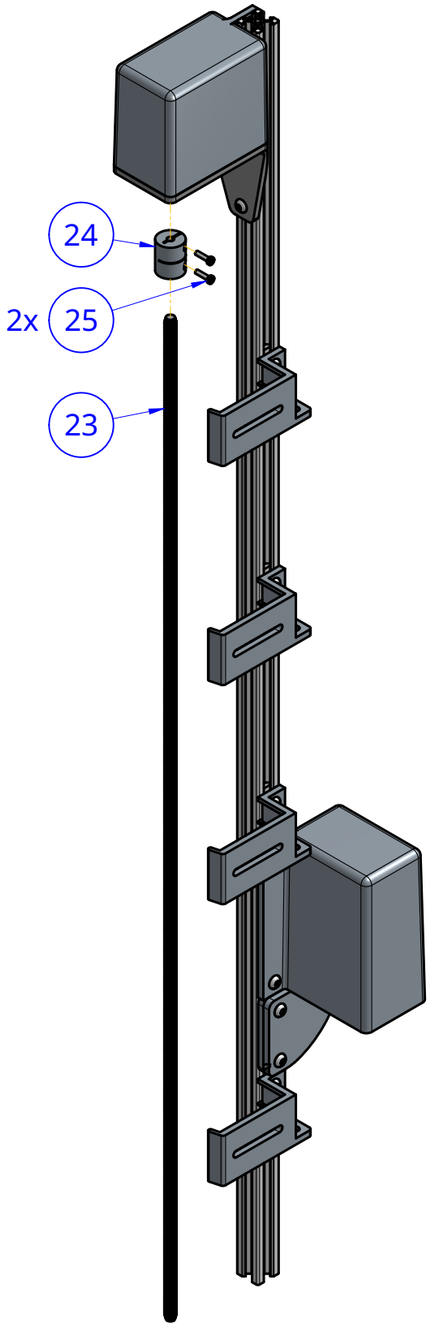


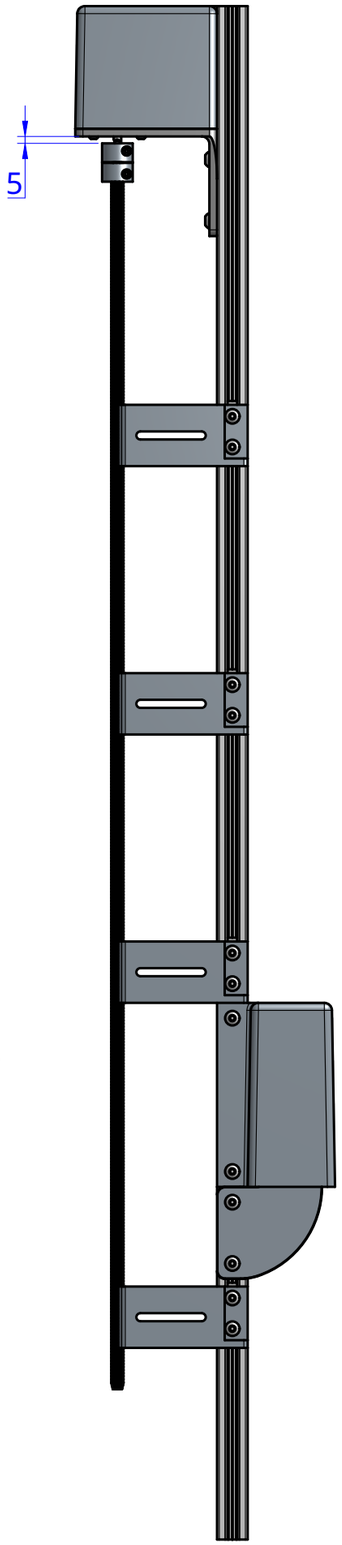


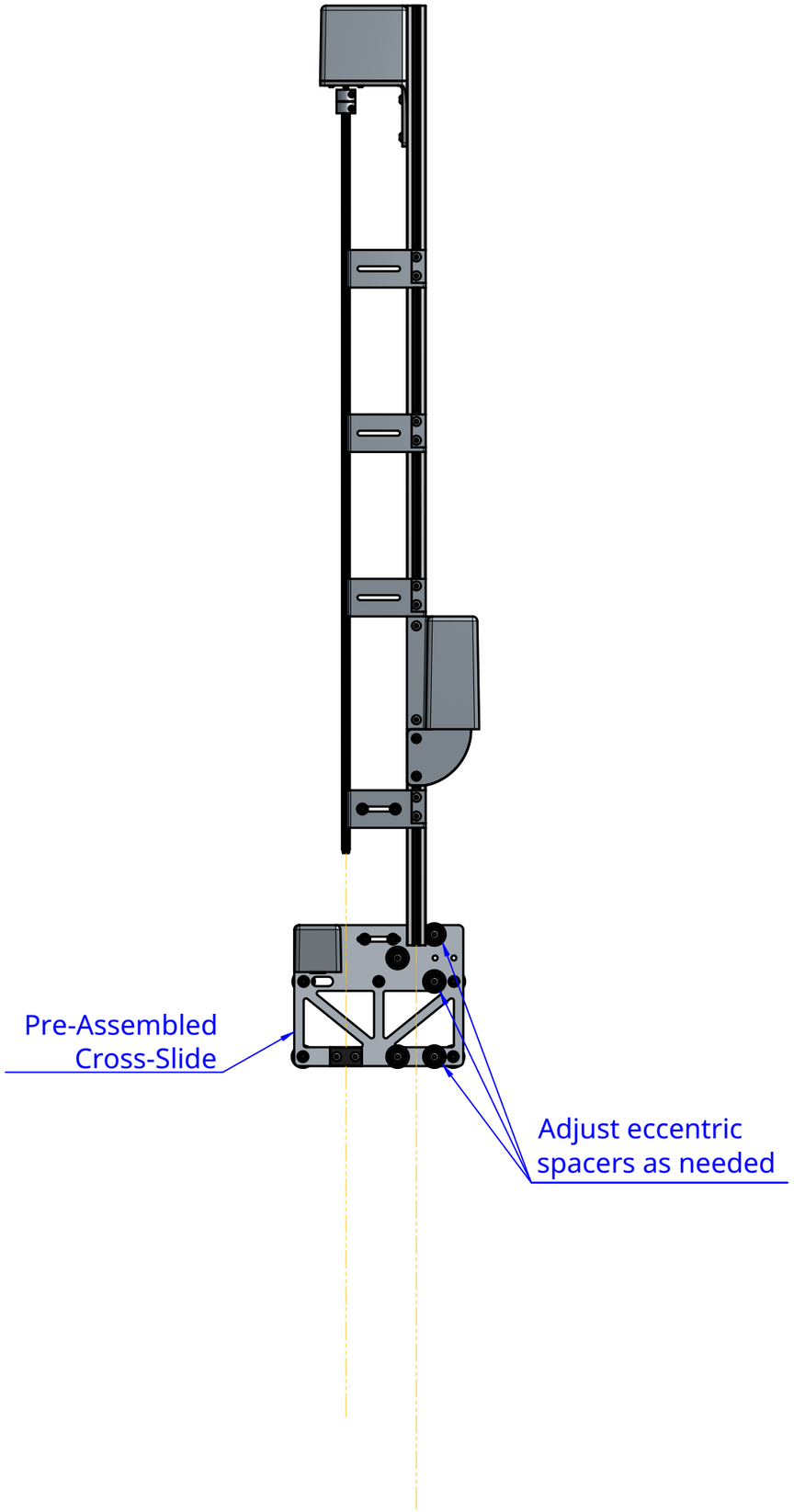


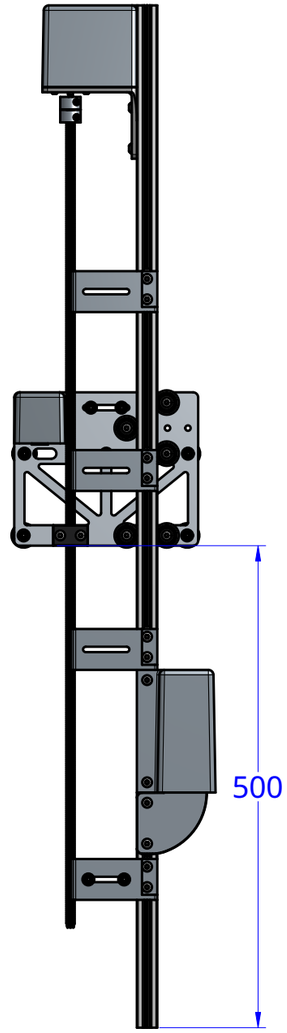


Pre-Assembled Z-Axis Rev B	
NOTES: N/A	
DRAWN BY: Rory Aronson, 2023-08-23 **COMPANY:** FarmBot Inc **LICENSE:** CC0 Public Domain Dedication	**PROJECTION:** First Angle **UNITS:** Millimeters **SCALE:** 1:4
SHEET: 2 of 7 **SIZE:** A3	









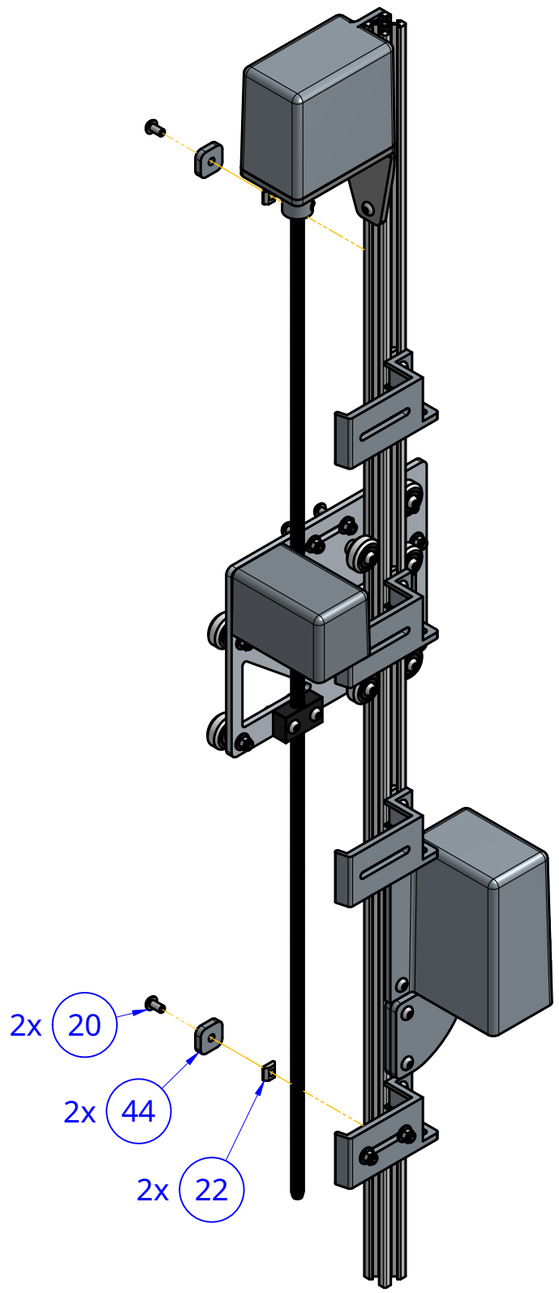
Pre-Assembled Z-Axis Rev B

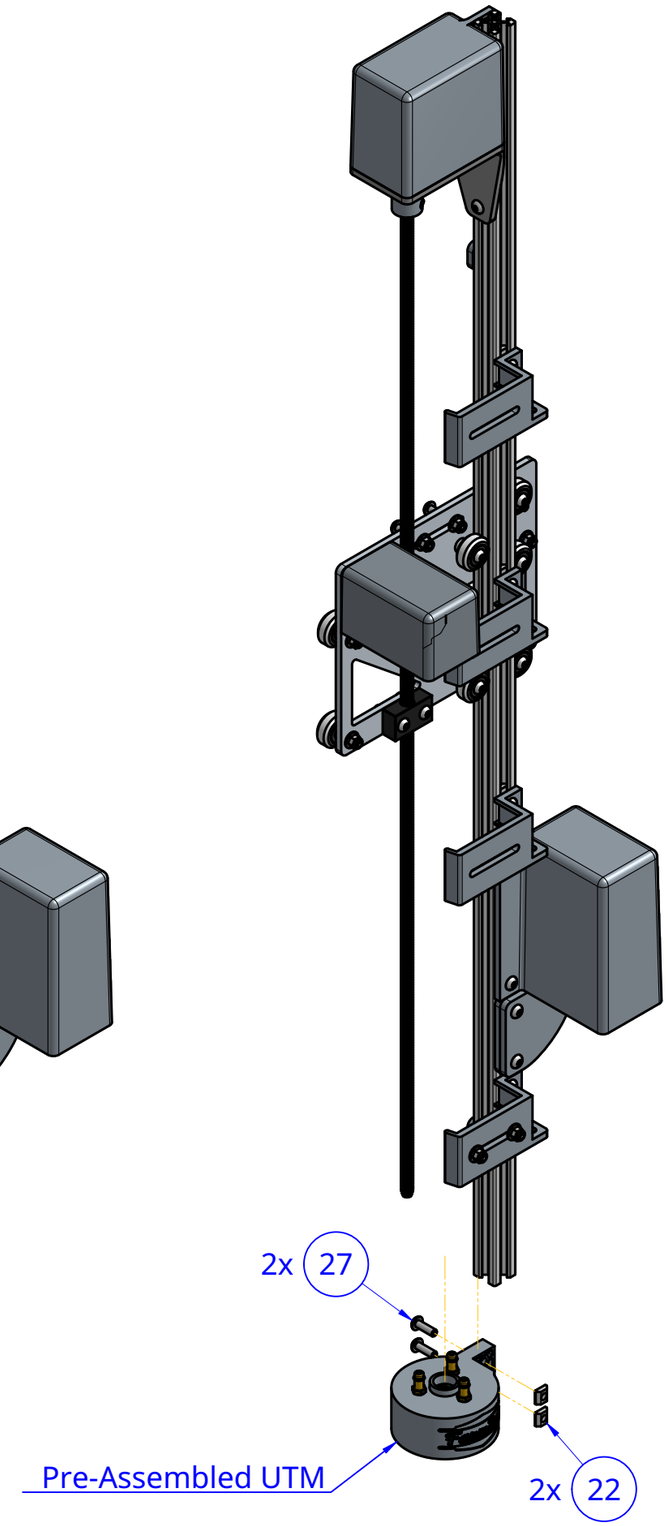
NOTES: N/A

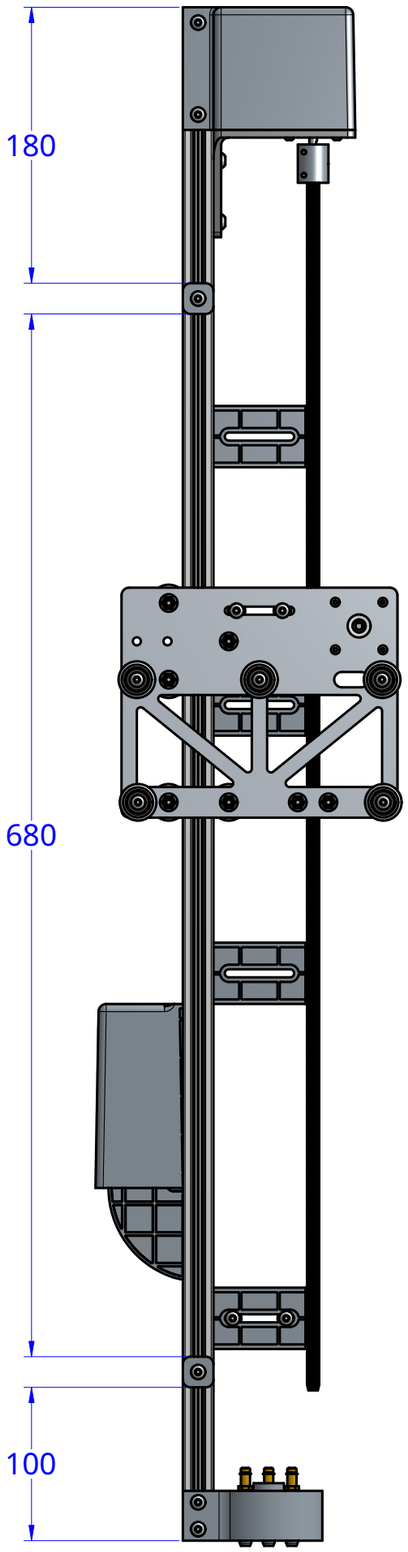
DRAWN BY: Rory Aronson, 2023-08-23
COMPANY: FarmBot Inc
LICENSE: CC0 Public Domain Dedication

PROJECTION: First Angle
UNITS: Millimeters
SCALE: 1:4

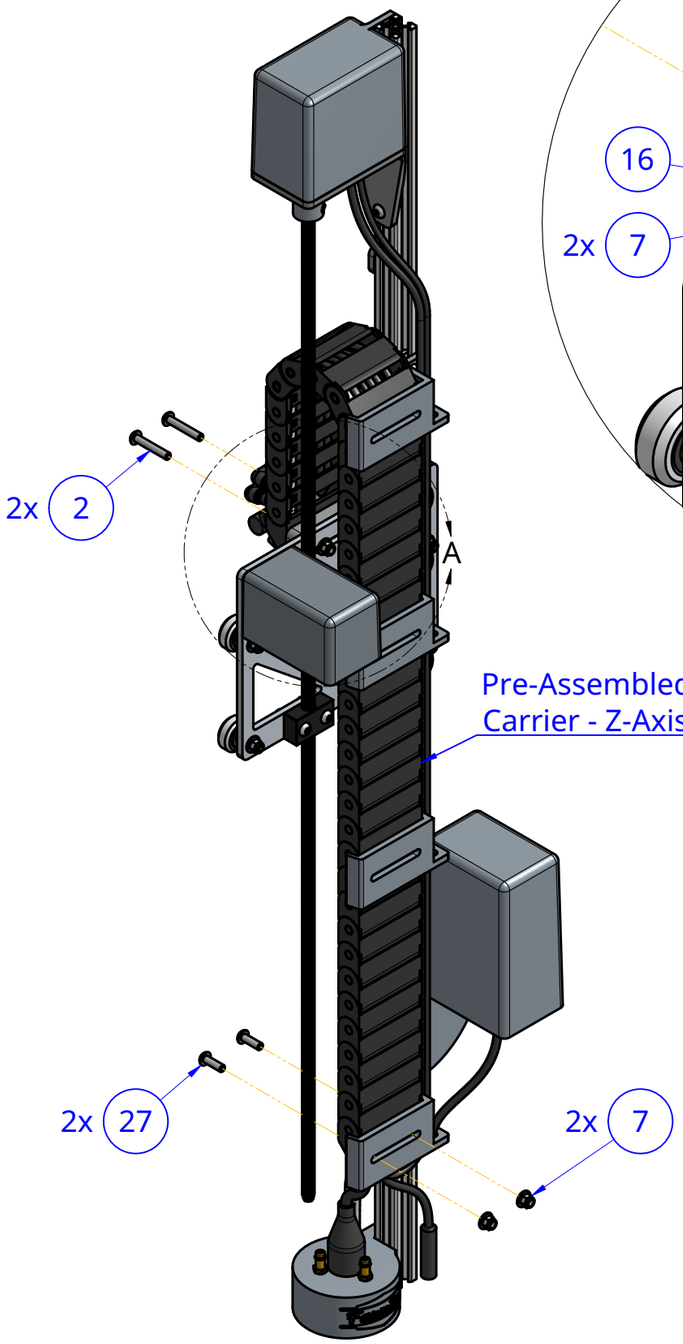
SHEET: 3 of 7
SIZE: A3

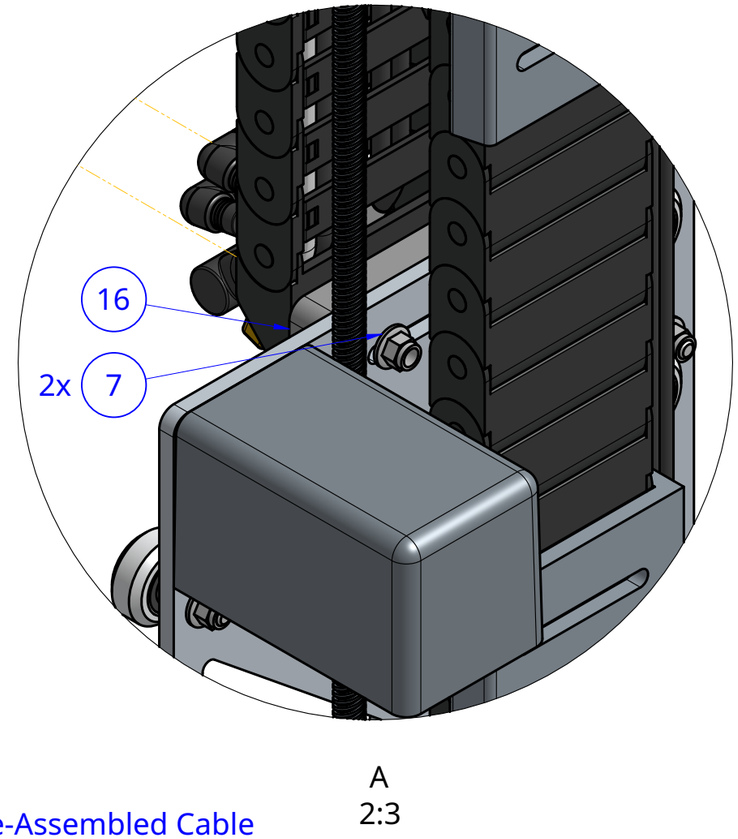




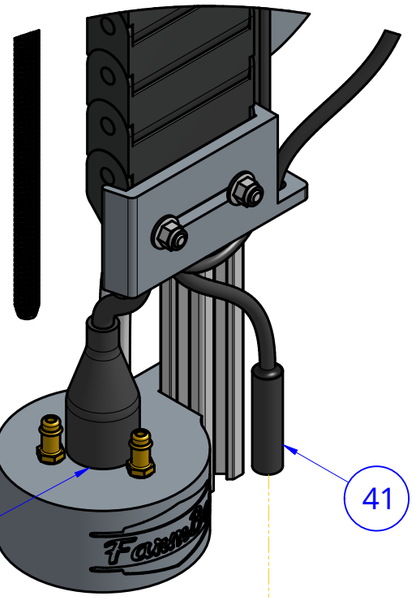


Pre-Assembled Z-Axis Rev B		
NOTES: N/A		
DRAWN BY: Rory Aronson, 2023-08-23 **COMPANY:** FarmBot Inc **LICENSE:** CC0 Public Domain Dedication	**PROJECTION:** First Angle **UNITS:** Millimeters **SCALE:** 1:4	**SHEET:** 4 of 7 **SIZE:** A3

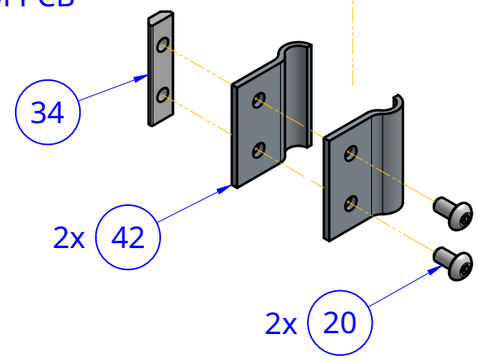


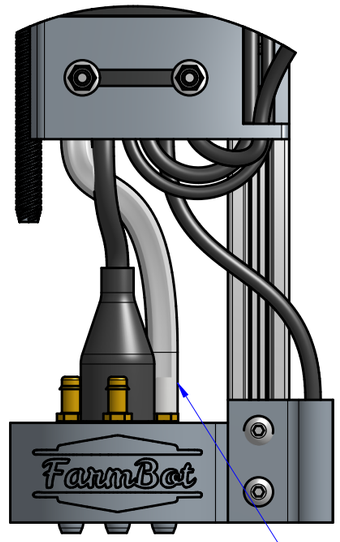


A
2:3



Connect to UTM PCB





Connect to Barb

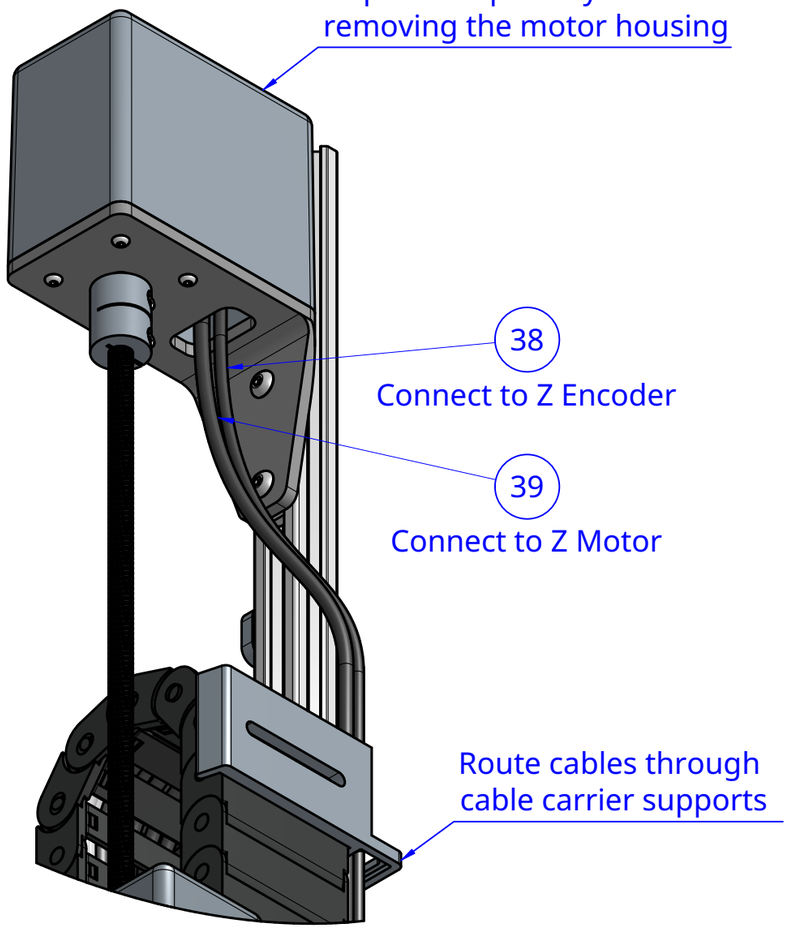
Pre-Assembled Z-Axis Rev B

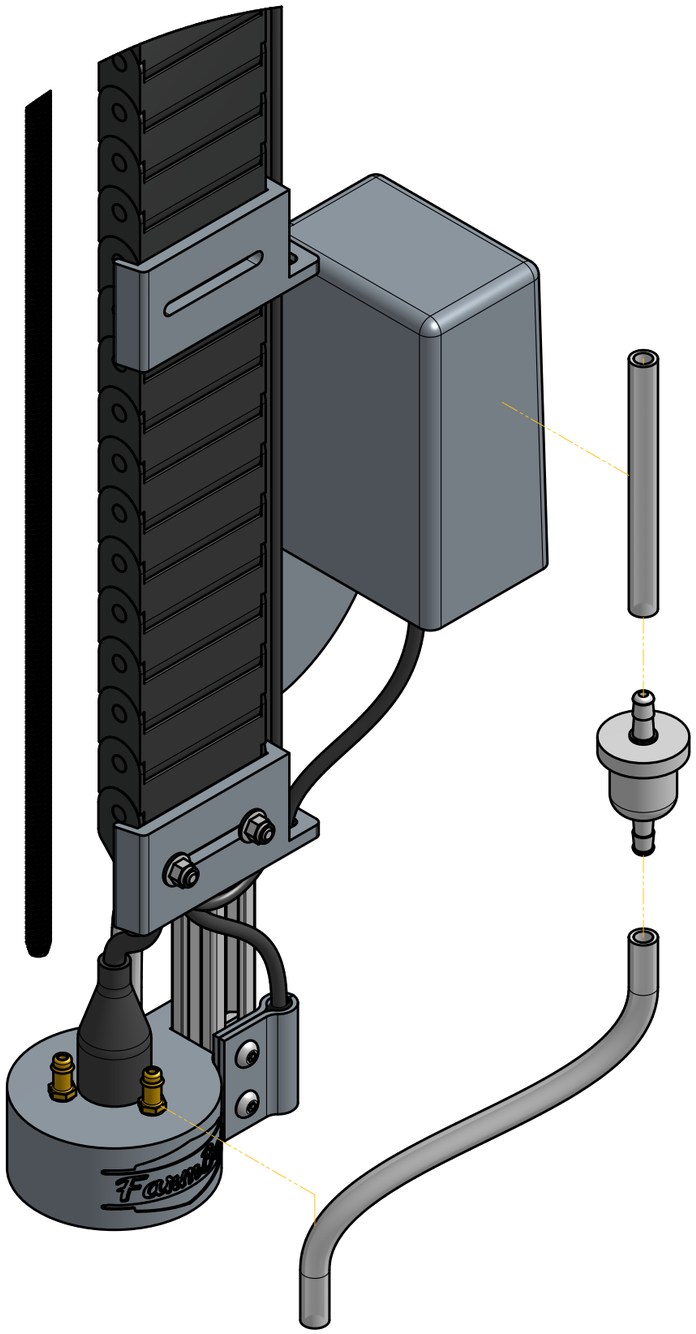
NOTES: N/A

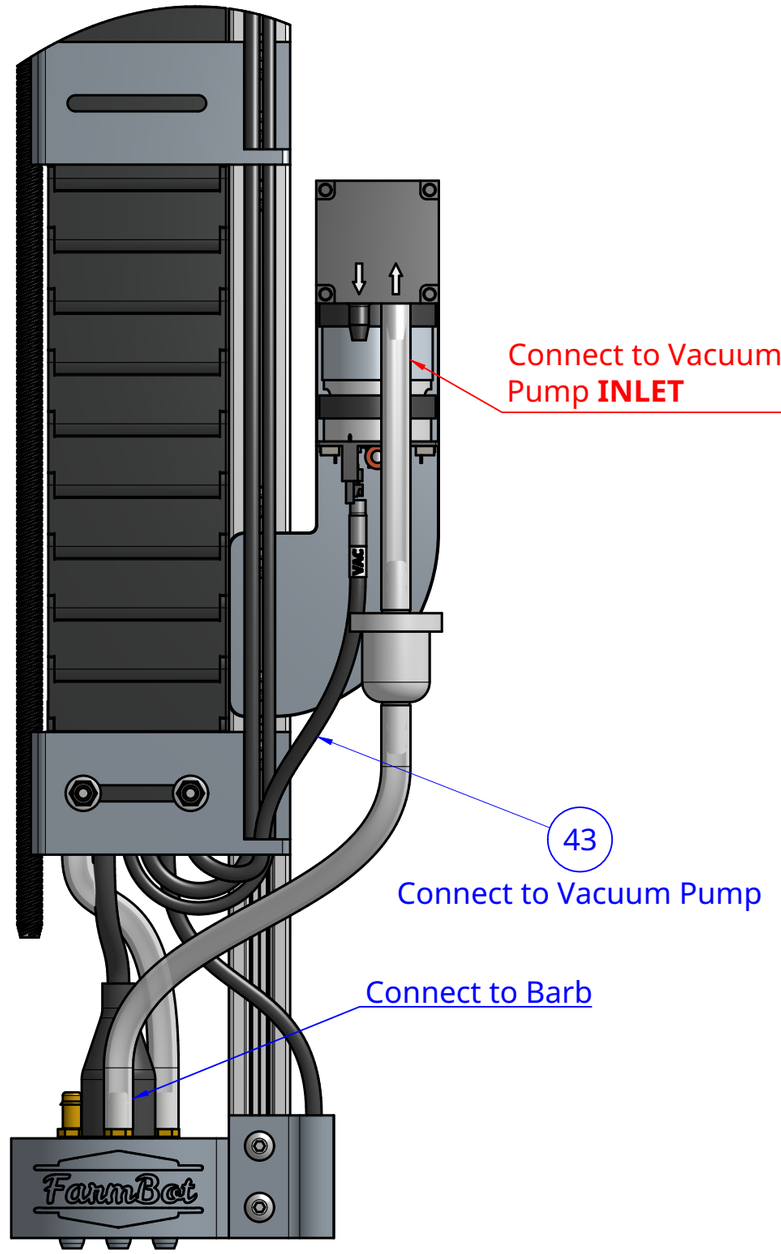
DRAWN BY: Rory Aronson, 2023-08-23
COMPANY: FarmBot Inc
LICENSE: CC0 Public Domain Dedication

PROJECTION: First Angle
UNITS: Millimeters
SCALE: 1:4

SHEET: 5 of 7
SIZE: A3







Pre-Assembled Z-Axis Rev B	
NOTES: N/A	
DRAWN BY: Rory Aronson, 2023-08-23 **COMPANY:** FarmBot Inc **LICENSE:** CC0 Public Domain Dedication	**PROJECTION:** First Angle **UNITS:** Millimeters **SCALE:** 1:2
SHEET: 6 of 7 **SIZE:** A3	

Item	Internal Part Name	Rev	Quantity
1	Genesis Cross-Slide Plate	C	1
2	M5 x 30mm Screw		12
3	V-Wheel	A	10
4	Bearing - SS-625-2RS	A	20
5	M5 x 1mm Precision Shim	A	10
6	M5 x 6mm Spacer	A	5
7	M5 Flange Locknut		16
8	M5 x 6mm Eccentric Spacer	A	5
9	NEMA 17 Stepper Motor		2
10	GT2 Pulley (20 Tooth)	A	1
11	SS Setscrews w/ 2mm drive		2
12	Motor Housing - Horizontal, 75mm	A	1
13	M3 x 12mm Screw		8
14	Leadscrew Block	B	1
15	M5 x 25mm Screw		2
16	Cable Carrier Spacer Block - 60mm	A	1
17	Extrusion - 20mm x 20mm x 1000mm (Z-Axis)	N/A	1
18	Genesis Z-Axis Motor Mount	D	1
19	Nut Bar - 60mm	B	2
20	M5 x 10mm Screw		18
21	Motor Housing - Vertical, 80mm	A	1
22	Nut Bar - 10mm	A	8
23	Leadscrew - 8mm x 800mm		1
24	Shaft Coupler - 5mm to 8mm	A	1
25	M3 x 12mm Low-Profile Socket Head Screw		2
26	Vacuum Pump Mount	B	1
27	M5 x 16mm Screw		9
28	Vacuum Pump - 24V with EMI Filter	1.1	1
29	Inline Air Filter (Barbs for 6mm ID tubing)		1
30	6 x 10mm Tube - 0.15m (Vacuum)		2

Item	Internal Part Name	Rev	Quantity
31	Zip Tie - 200mm		2
32	Vacuum Pump Housing	A	1
33	Cable Carrier Support - Vertical, 60mm	A	4
34	Nut Bar - 40mm	A	5
35	Cable Carrier - 15 x 50 x 740mm (37 links + end pieces in Z configuration)		1
36	6 x 10mm Tube - 0.95m (Water, Z-axis, all bots)		1
37	90 Degree Barb - Brass	A	1
38	Encoder Cable - ZZ, 1.8m (Genesis and Genesis XL)	A	1
39	Motor Cable - ZZ, 1.8m (Genesis and Genesis XL)	A	1
40	UTM Cable - Z, 1.0m (Genesis and Genesis XL)	A	1
41	Camera	C	1
42	Camera Mount Half	A	2
43	Vacuum Pump Cable - Z, 1.0m (Genesis and Genesis XL)	C	1
44	Z-Axis Hardstop	A	2
45	UTM	B	1
46	M5 Barb	A	3
47	UTM PCB	A	1
48	Pogo Pin		12
49	Pogo Pin Jam Nut		24
50	Ring Magnet - Standard	A	3
51	O-Ring - X Profile		3

Pre-Assembled Z-Axis Rev B

NOTES: N/A

DRAWN BY: Rory Aronson, 2023-08-23
COMPANY: FarmBot Inc
LICENSE: CC0 Public Domain Dedication

PROJECTION: First Angle
UNITS: Millimeters
SCALE:

SHEET: 7 of 7
SIZE: A3