2x (16) Use blue thread locker

4x (18)

(17)

(12)

(15) Leave 1mm gap from Gantry Corner Bracket
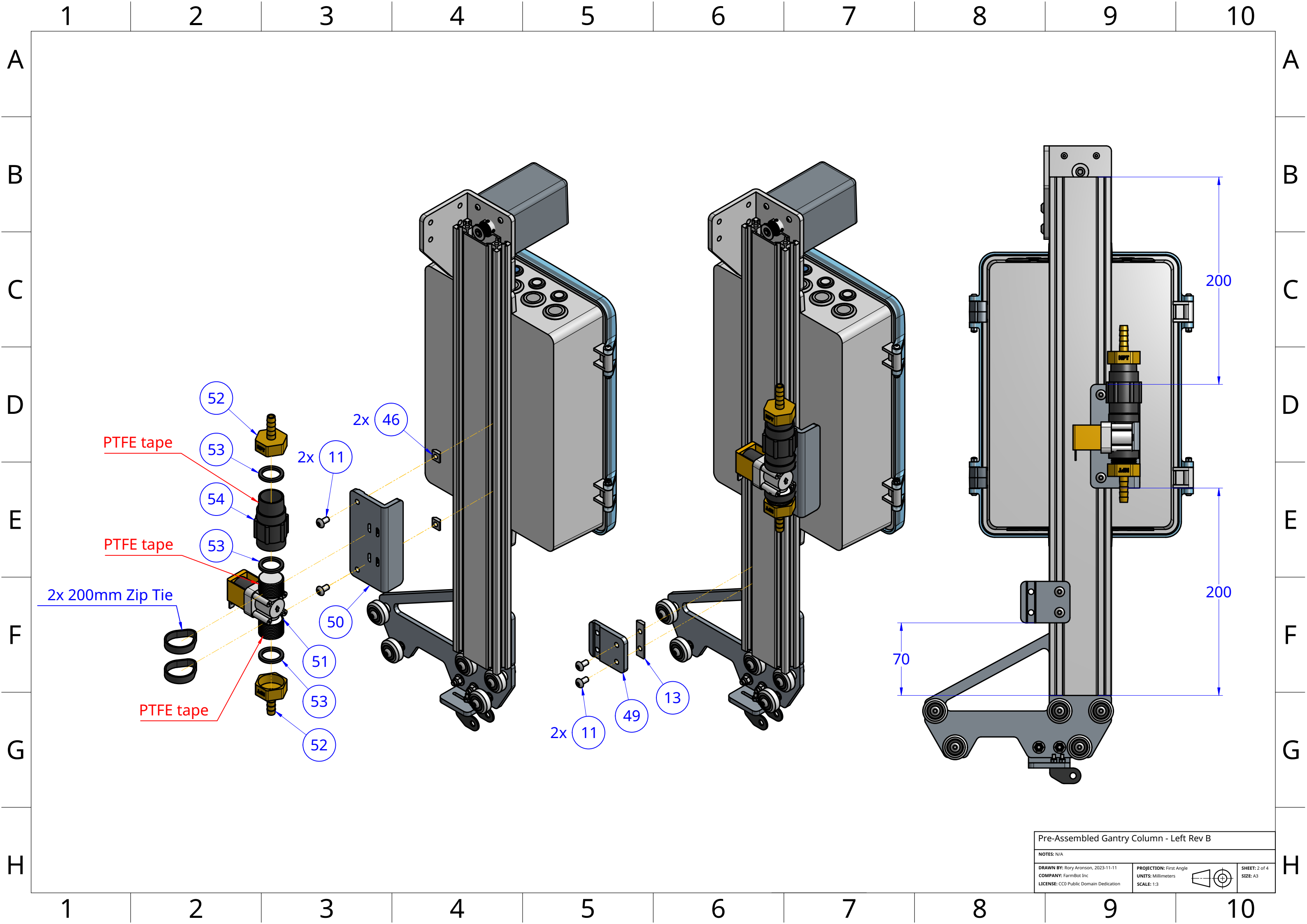
3x (13)

6x (11)

(14)

(1)

4x (46)

30

60

60

2x (10)

Pre-Assembled Genesis
Electronics Box

2x (8)

Pre-Assembled Gantry
Wheel Plate - Left

4x (11)

4x (11)

2x (22)

2x (58)

(57)

(59)

2x (60)

PTFE tape

PTFE tape

2x 200mm Zip Tie

PTFE tape

2x 46

2x 11

52
53
54
53
53
52
50
51
49
13
2x 11

200

200

70

Route cables between electronics
box and solenoid valve mount

62

61

Connect cables to
motor and encoder

Plug 61 into X1

Plug 62 into X1

Connect to solenoid valve
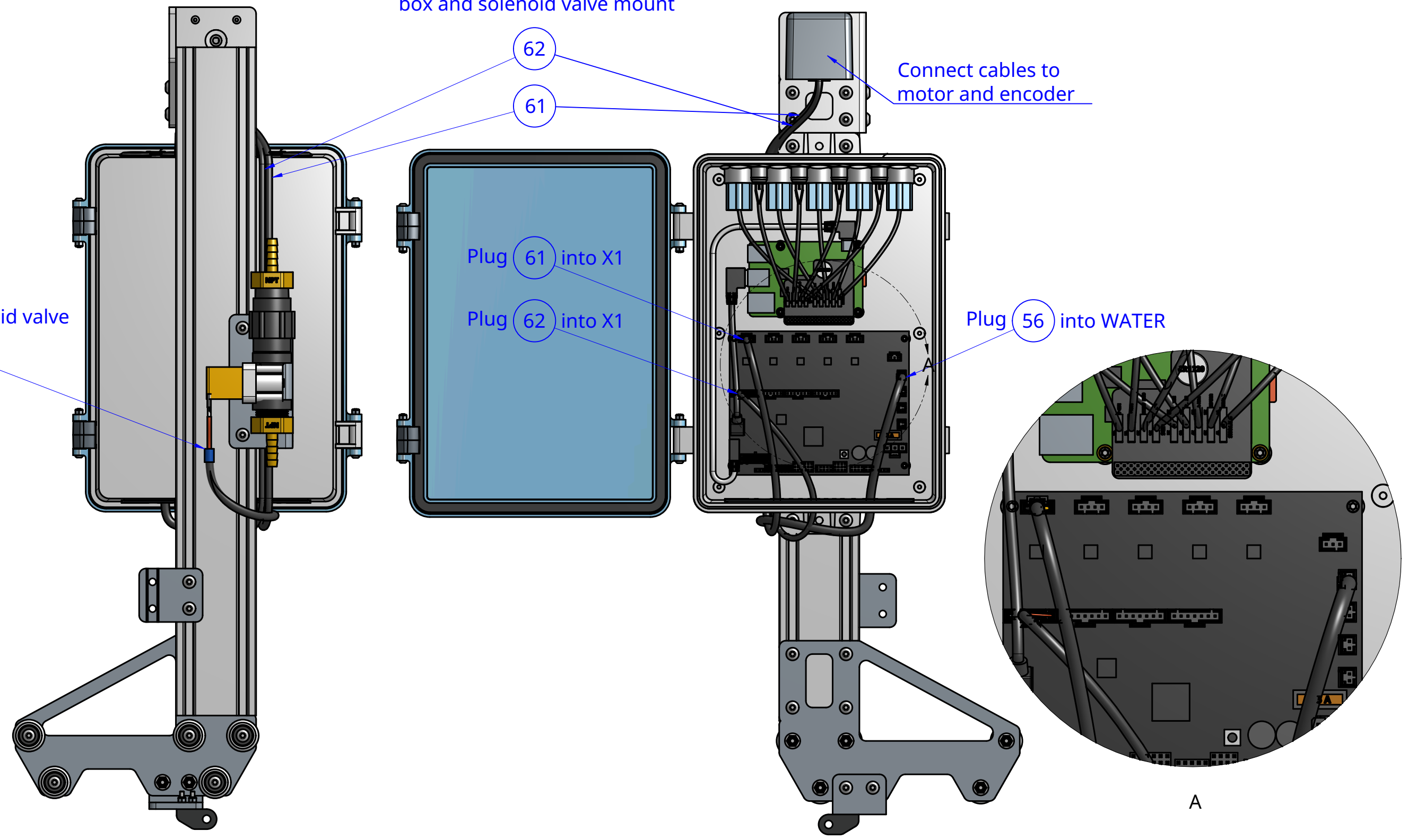
56

Plug 56 into WATER

A

A

Item	Internal Part Name	Rev	Quantity
1	Gantry Column - 500mm	C	1
2	Genesis Gantry Wheel Plate	C	1
3	M5 x 30mm Screw		5
4	V-Wheel	A	5
5	Bearing - SS-625-2RS	A	10
6	M5 x 1mm Precision Shim	A	5
7	M5 x 6mm Spacer	A	3
8	M5 Flange Locknut		7
9	M5 x 6mm Eccentric Spacer	A	2
10	Nut Bar - 60mm	B	2
11	M5 x 10mm Screw		18
12	Gantry Corner Bracket - Left	B	1
13	Nut Bar - 40mm	A	4
14	NEMA 17 Stepper Motor		1
15	GT2 Pulley (20 Tooth)	A	1
16	SS Setscrews w/ 2mm drive		2
17	Motor Housing - Horizontal, 75mm	A	1
18	M3 x 12mm Screw		4
19	Genesis Electronics Box (Box)	A	1
20	Genesis Electronics Box (Lid)	A	1
21	Genesis Electronics Box (Gasket)	A	1
22	M3 Locknut		6
23	M3 x 35mm Screw		4
24	Electronics Box (Latch)	A	2
25	Genesis Electronics Box (Supergland Half)	A	2
26	Farmduino v1.6	2.2A	1
27	Fuse - 7.5A		1
28	Shunt - 1x2, 2.54mm		8
29	M2.5 x 4mm Screw (2mm Hex Drive)		8
30	Raspberry Pi 4B - 1GB		1

Item	Internal Part Name	Rev	Quantity
31	Pi Adapter Board w/ RTC		1
32	Battery - CR1220		1
33	Micro SD Card - 8GB Sandisk Industrial		1
34	Raspberry Pi Power Cable - Type-C	A	1
35	Farmduino Data Cable	A	1
36	Push Button - White		3
37	Push Button - O-Ring		5
38	Push Button - Nut		5
39	Push Button - Yellow		1
40	Push Button - Red		1
41	LED Indicator - White		2
42	LED Indicator - O-Ring		4
43	LED Indicator - Nut		4
44	LED Indicator - Blue		1
45	LED Indicator - Green		1
46	Nut Bar - 10mm	A	6
47	Push Button - Wiring Harness		5
48	LED Indicator - Wiring Harness		4
49	Seed Trough Holder Mount Plate	A	1
50	Solenoid Valve Mount	A	1
51	Solenoid Valve - 24V, 3/4" NPT		1
52	NPT to Barb Adapter	A	2
53	Rubber Gasket - 3/4"		3
54	Pressure Regulator - 15 psi, 3/4" NPT		1
55	Zip Tie - 200mm		2
56	Solenoid Valve Cable - 0.5m (Genesis and Genesis XL)		1
57	Cable Carrier Mount - X-Axis	A	1
58	M5 x 20mm Screw		2
59	Cable Carrier End 2 JE10Q.1.16F		1
60	M3 x 16mm Flat Head Screw		2
61	Motor Cable - X1, 0.7m (Genesis and Genesis XL)	A	1
62	Encoder Cable - X1, 0.7m (Genesis and Genesis XL)	A	1