VEX CTE

3D Build Instructions

CTE Workcell Base + Pneumatics



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Previous Build



CTE Workcell Base



1x Disk Loader
Components Box 2



1x 1/4” Star Drive Screw Locking
Components Box 1



8x 1/2” Star Drive Screw Locking
Components Box 1



4x 3/4” Star Drive Screw
Components Box 1



5x Low Profile Nut
Components Box 1



1x 1/2” Standoff
Components Box 1



2x 1.5” Standoff
Components Box 1



1x 2x Pitch Motor Shaft
Components Box 1



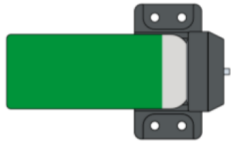
1x Smart Cables 300 mm
Components Box 2



3x Tee Fitting
Components Box 1



1x Air Pump
Components Box 2



1x Air Tank 70mL
Components Box 2



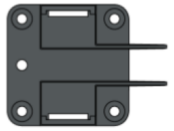
1x 4 Pitch Stroke Pneumatic Cylinder
Components Box 2



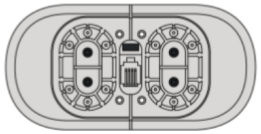
1x Disk Feeder
Components Box 3



1x 4mm Tubing
Components Box 2

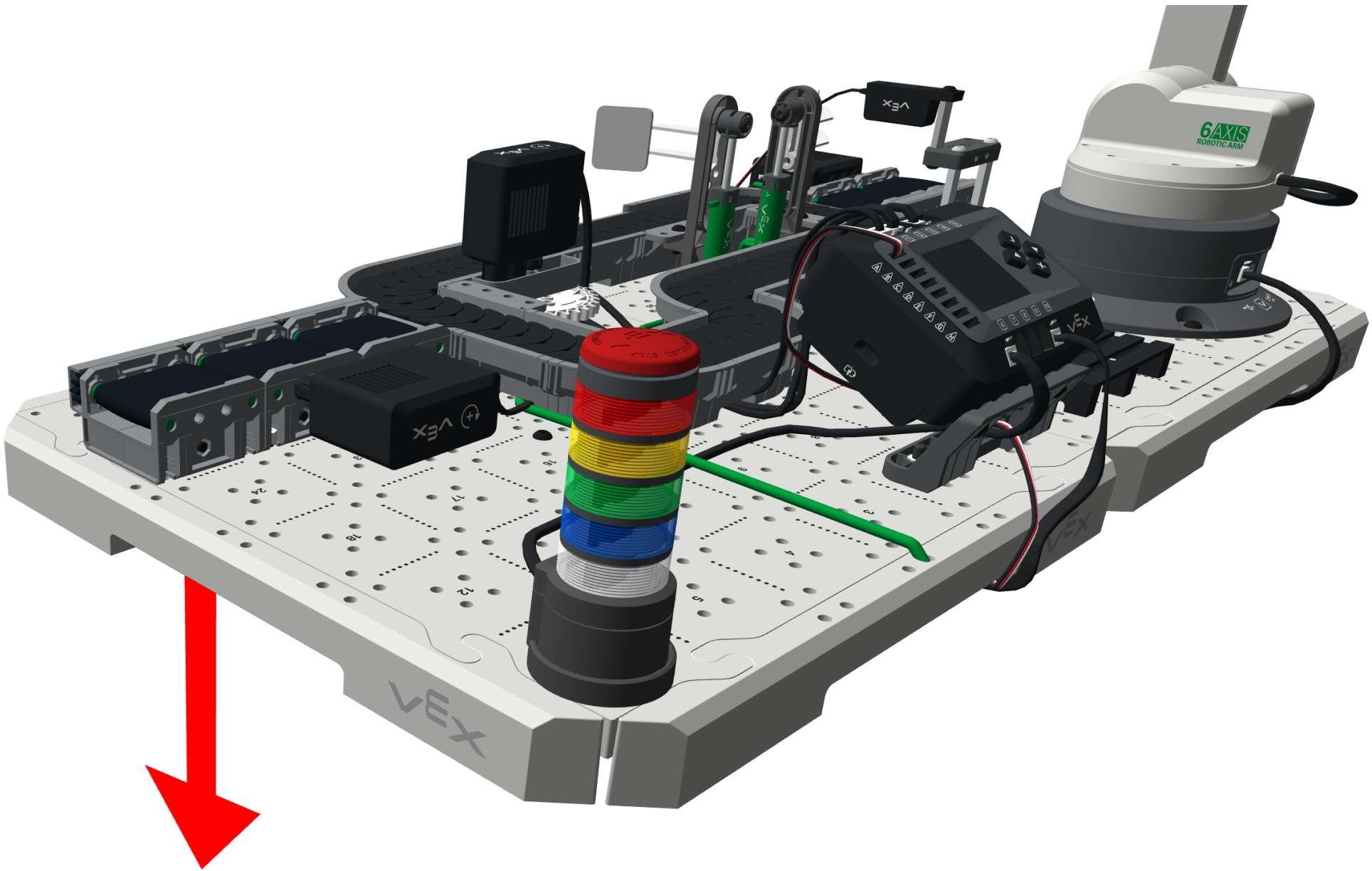


1x Feeder Base
Components Box 3

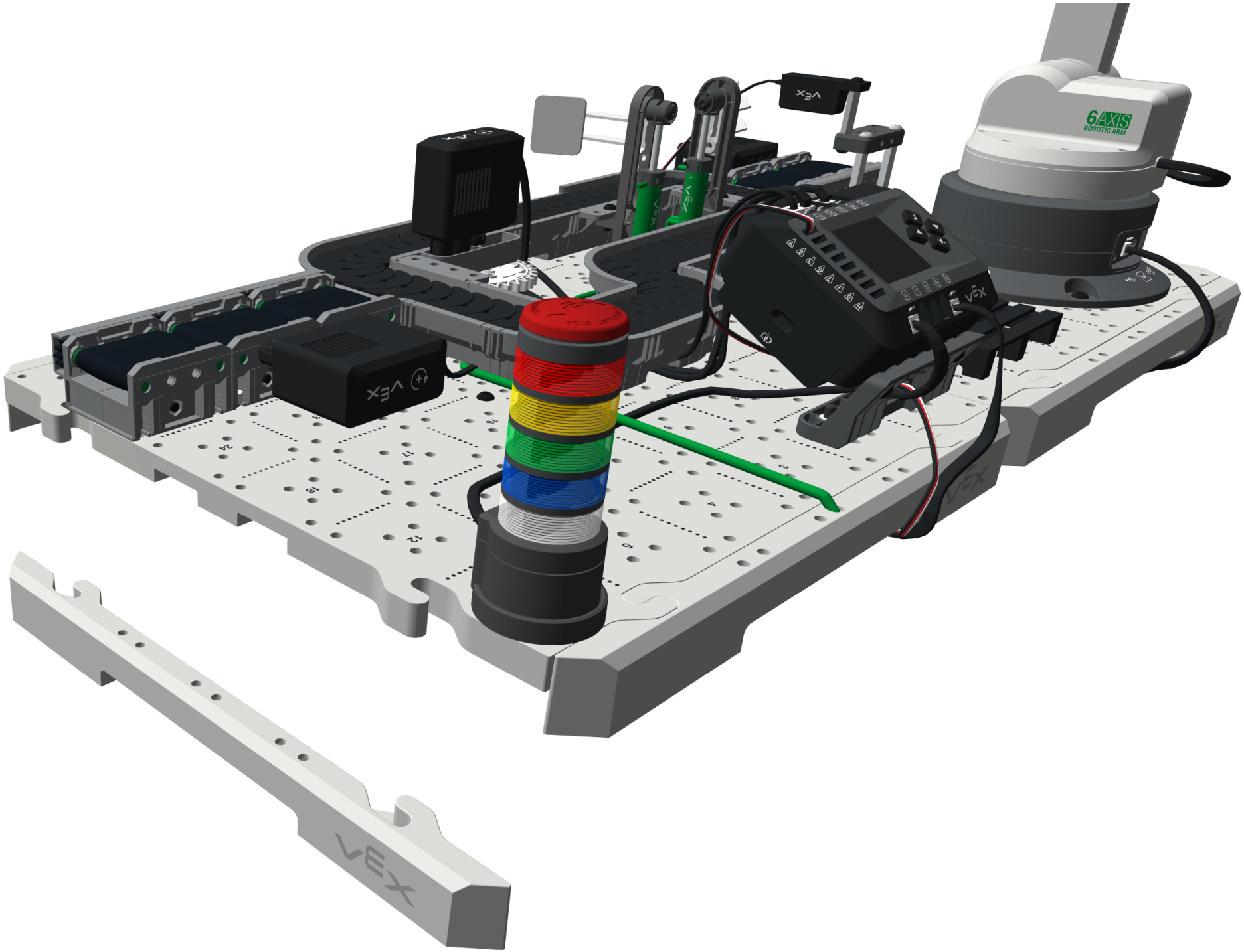


1x Pneumatic Solenoid
Components Box 2

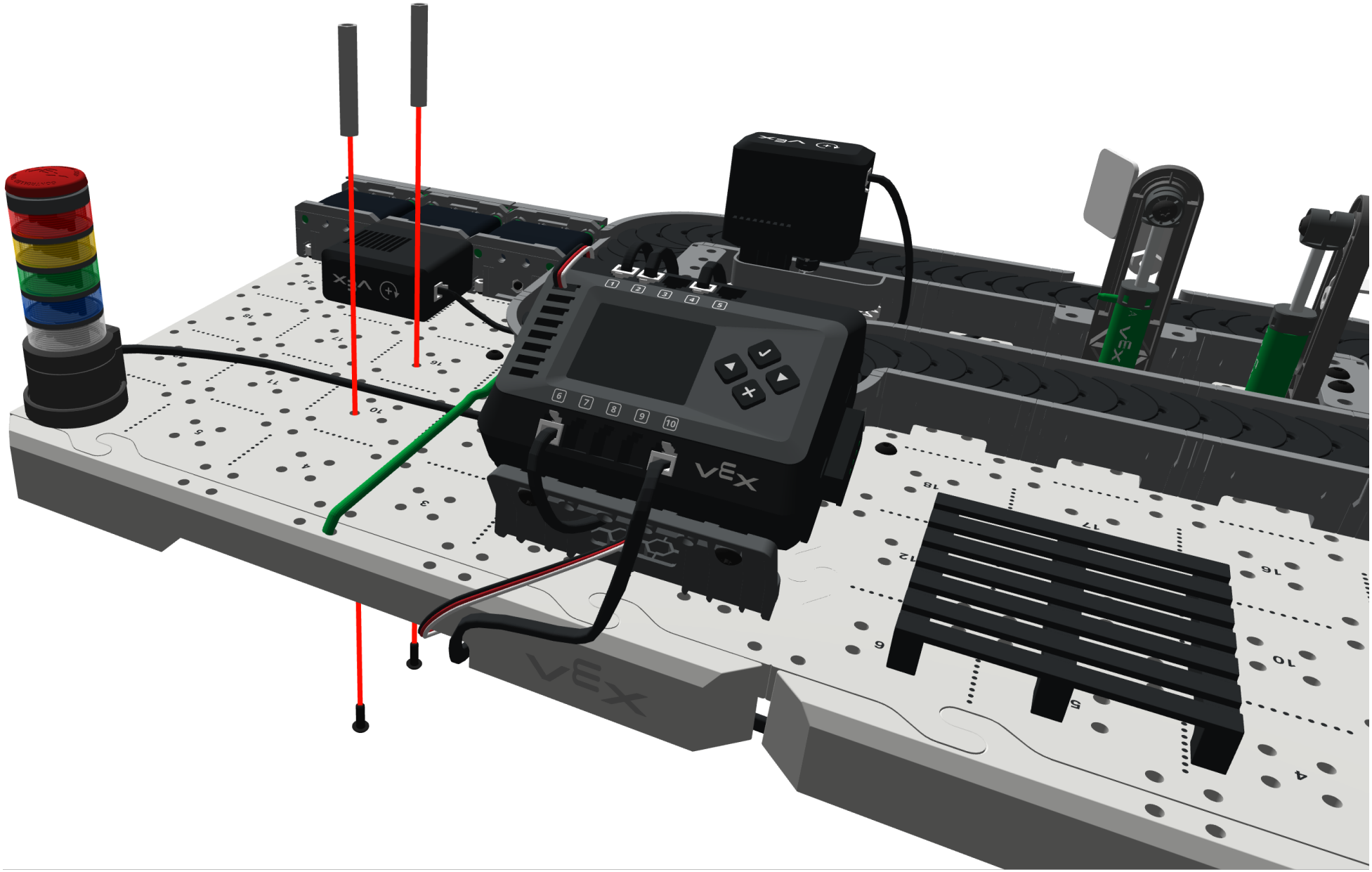
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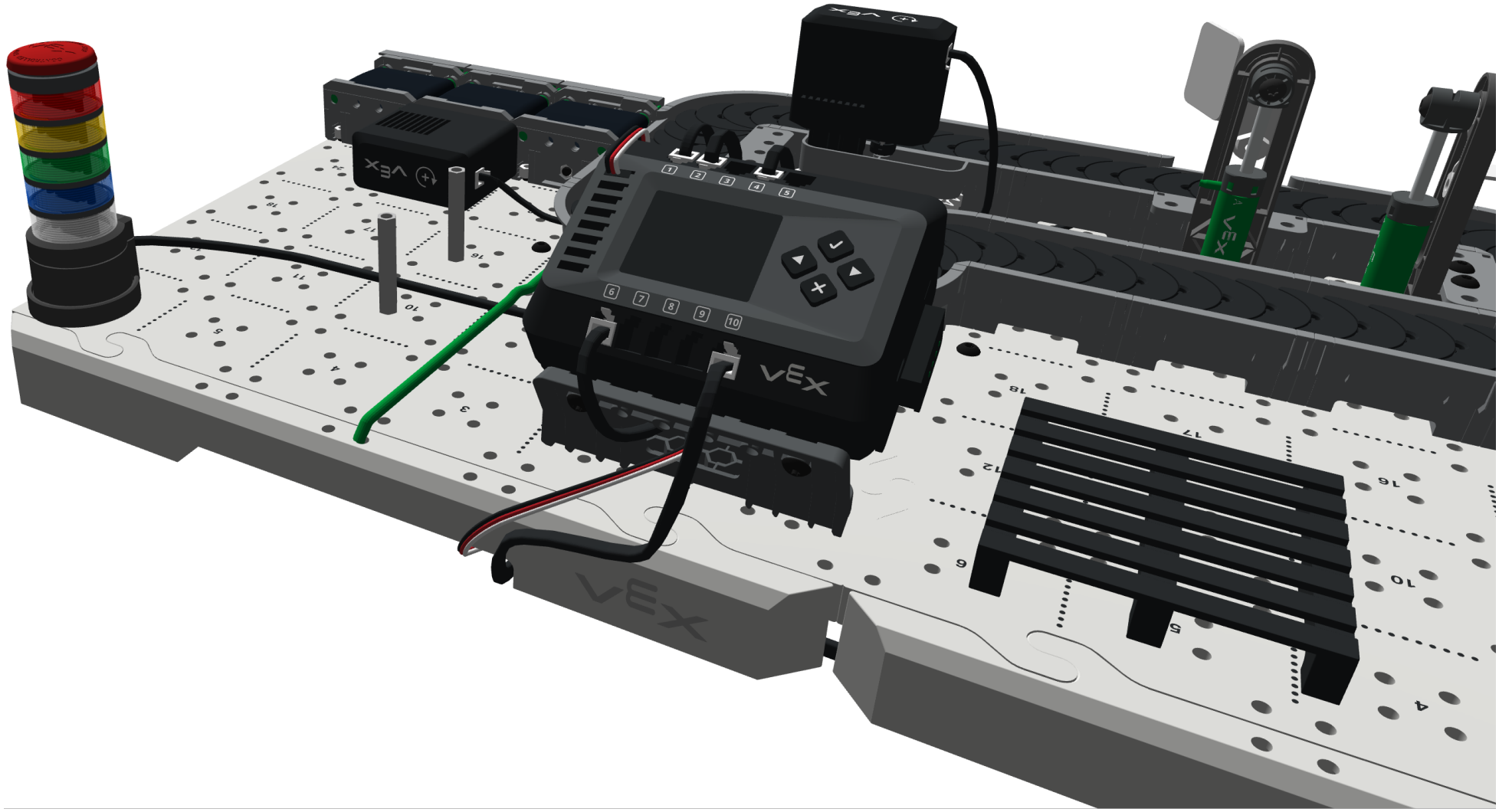
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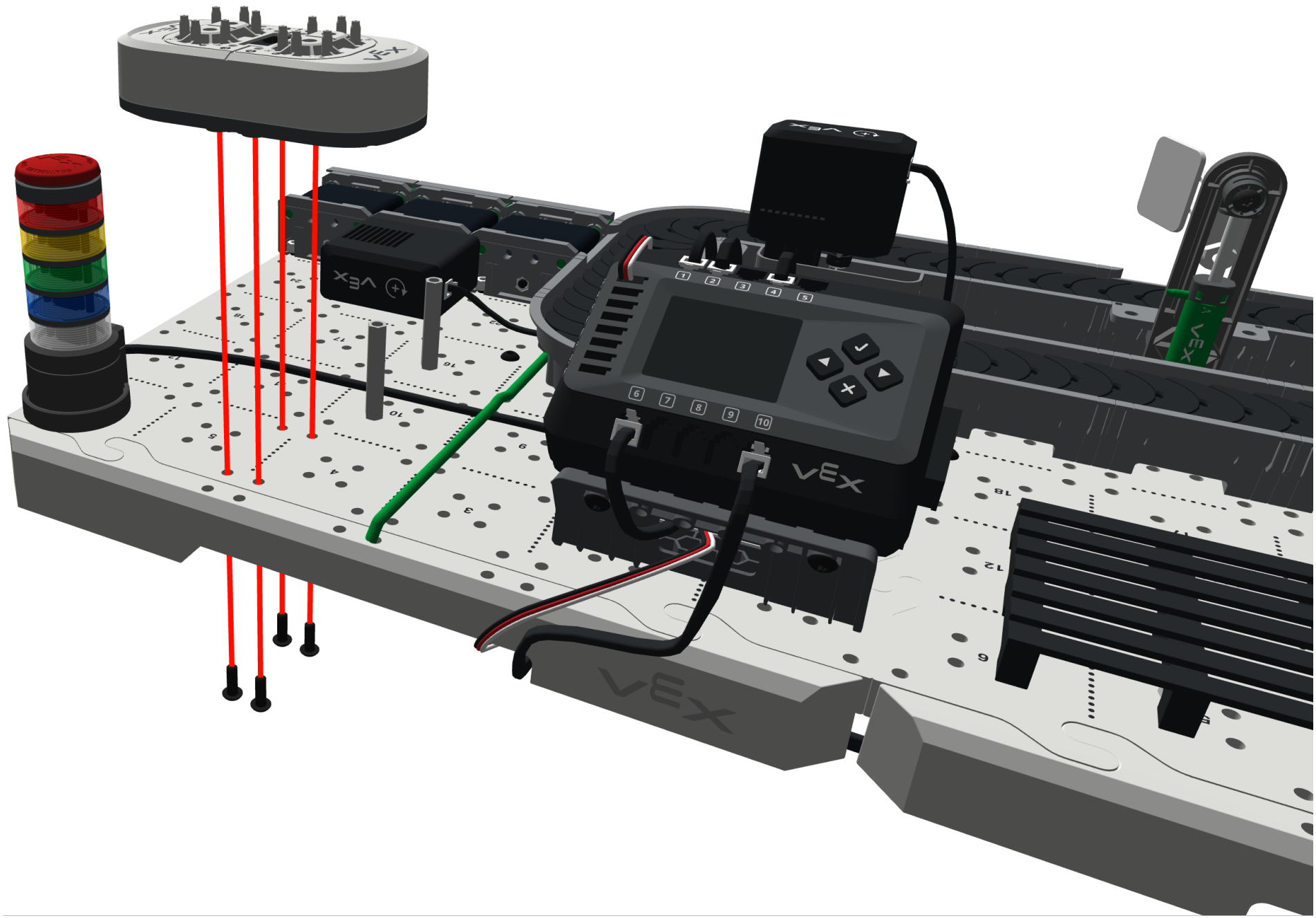
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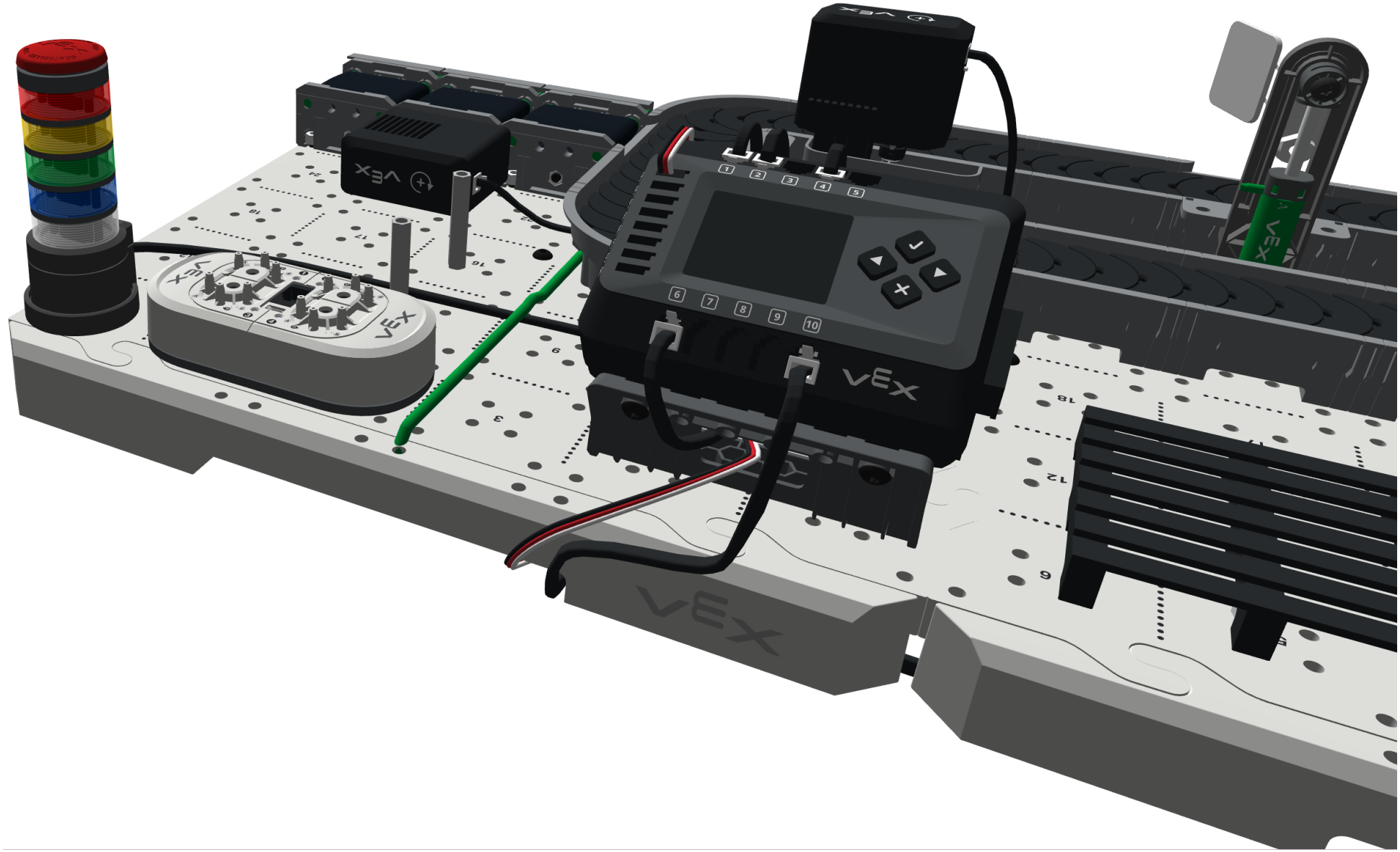
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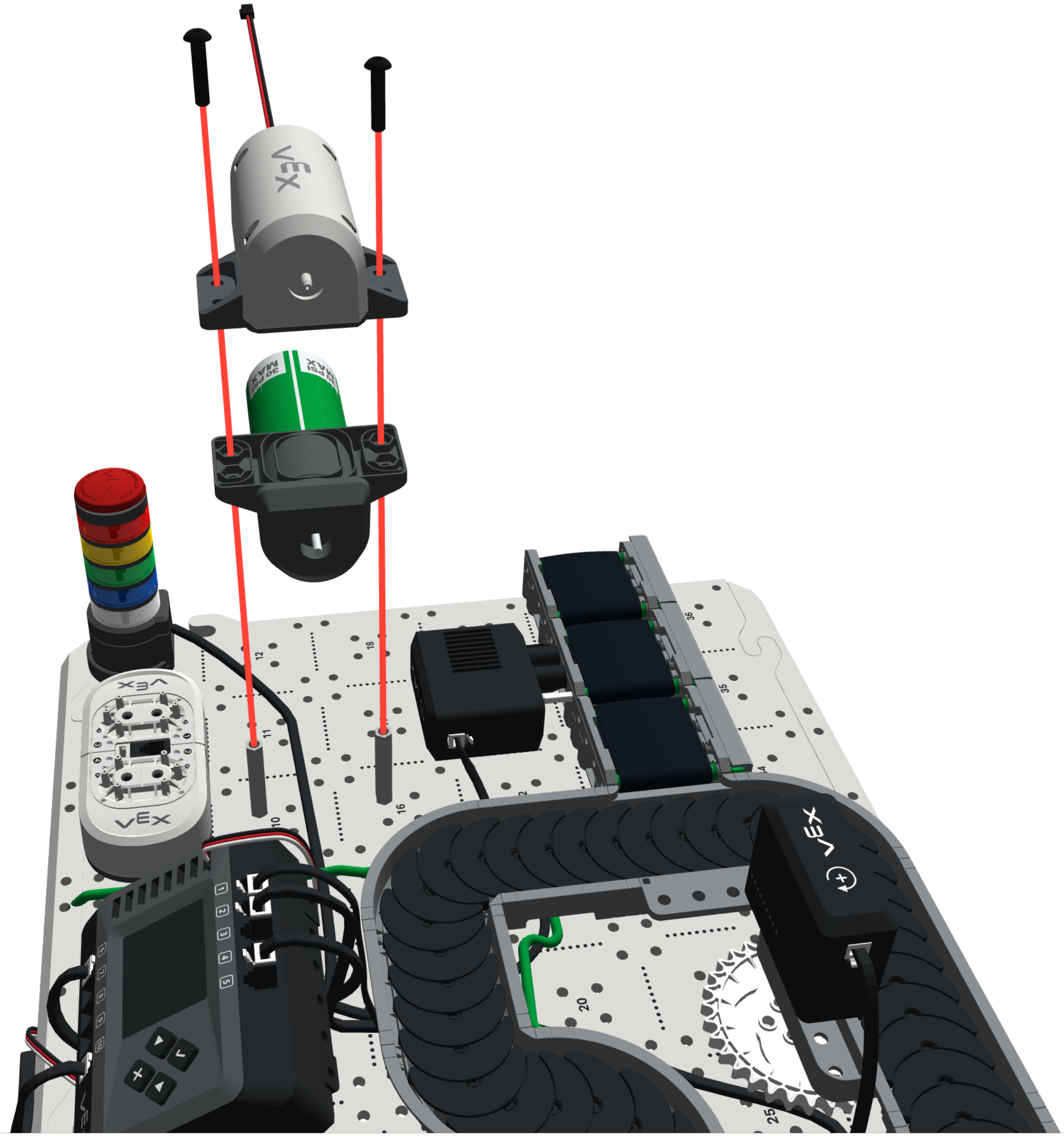
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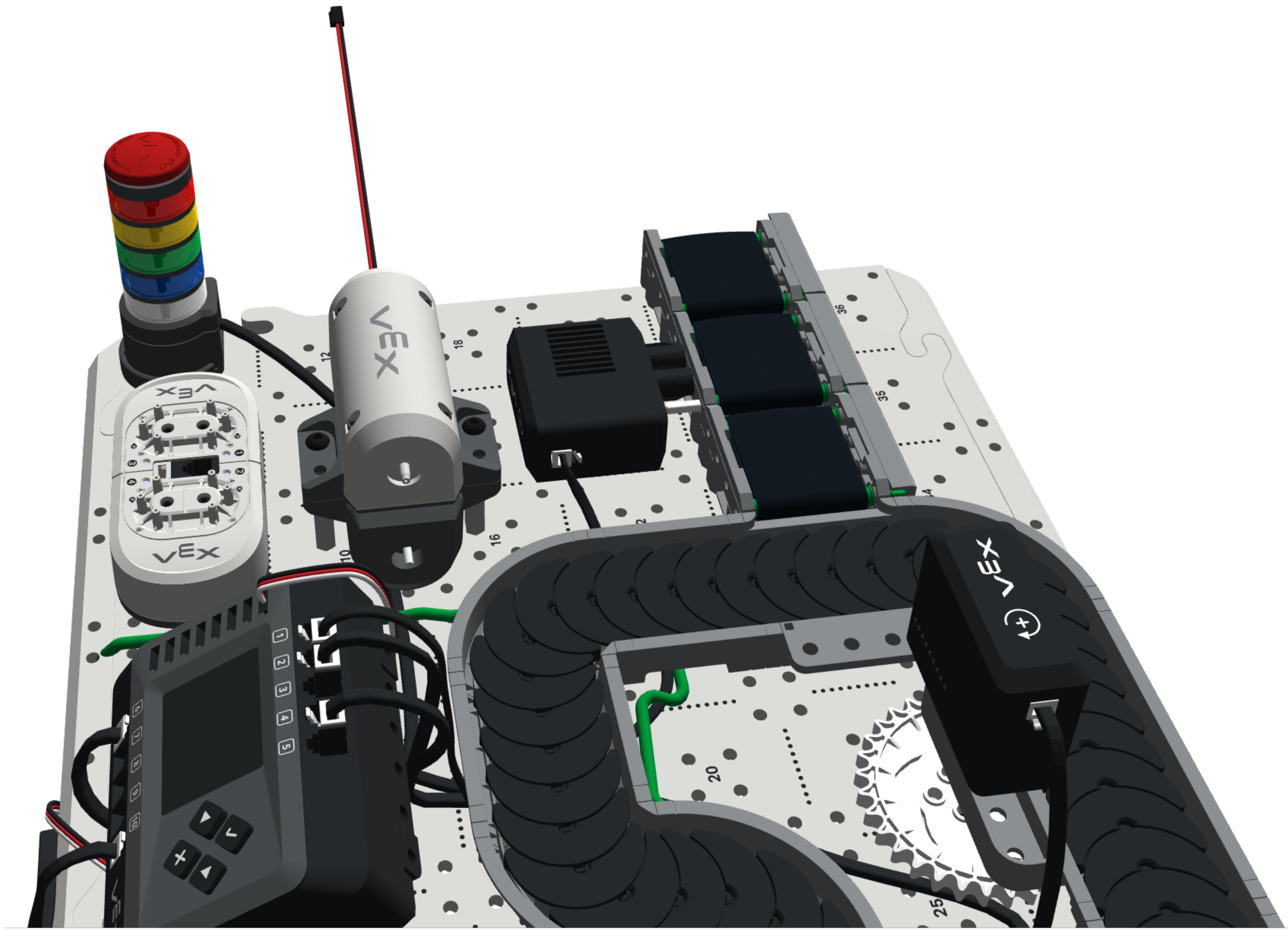
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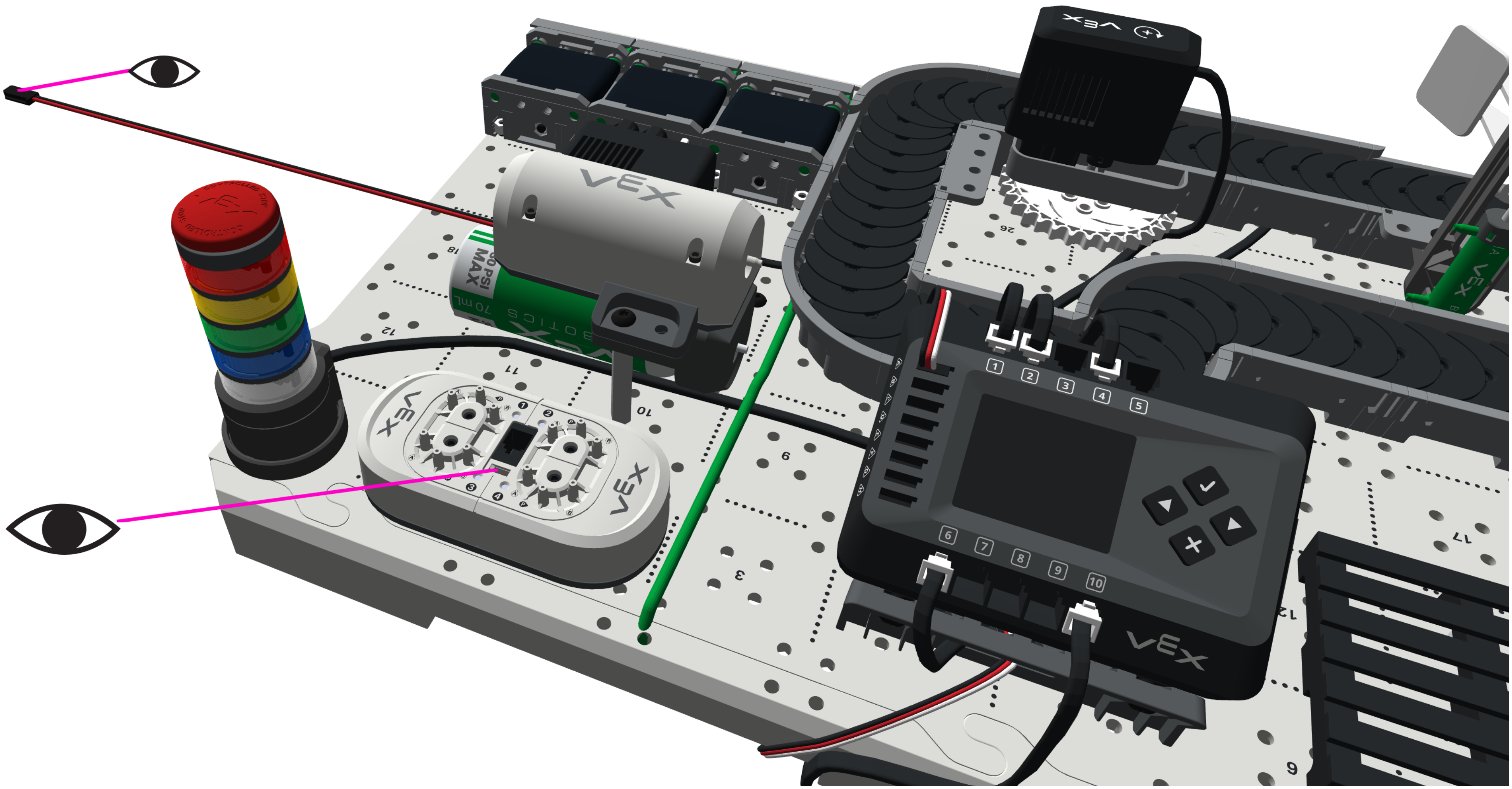
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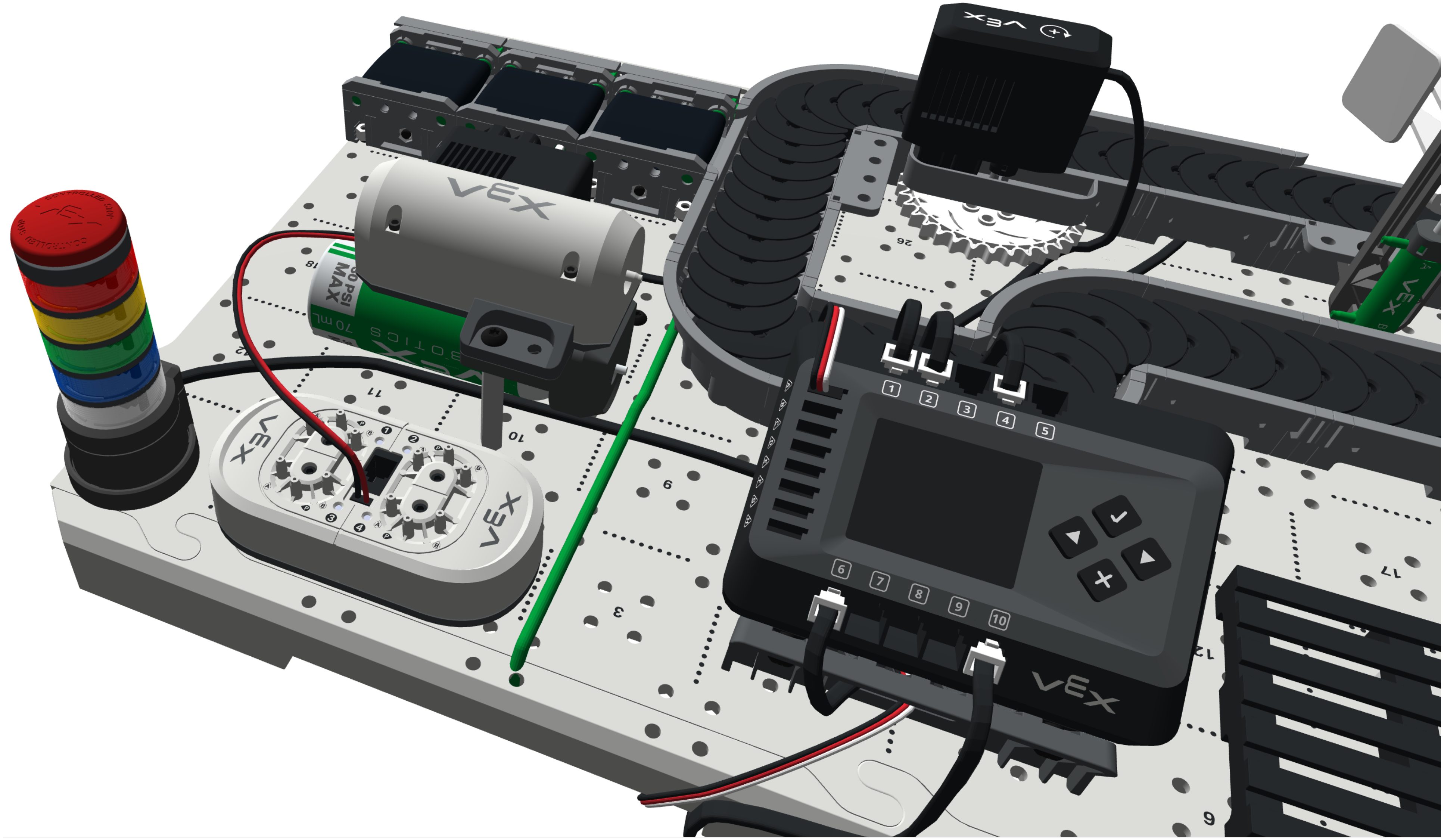
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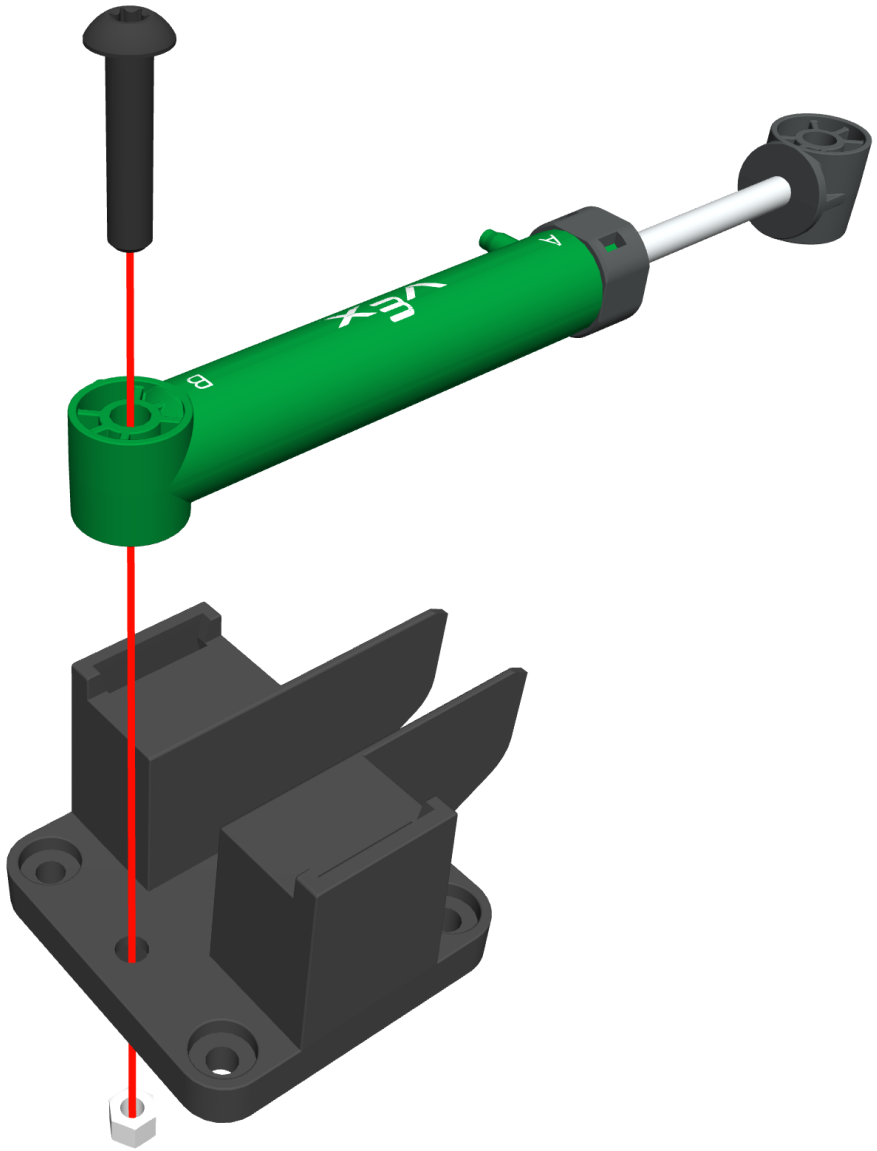
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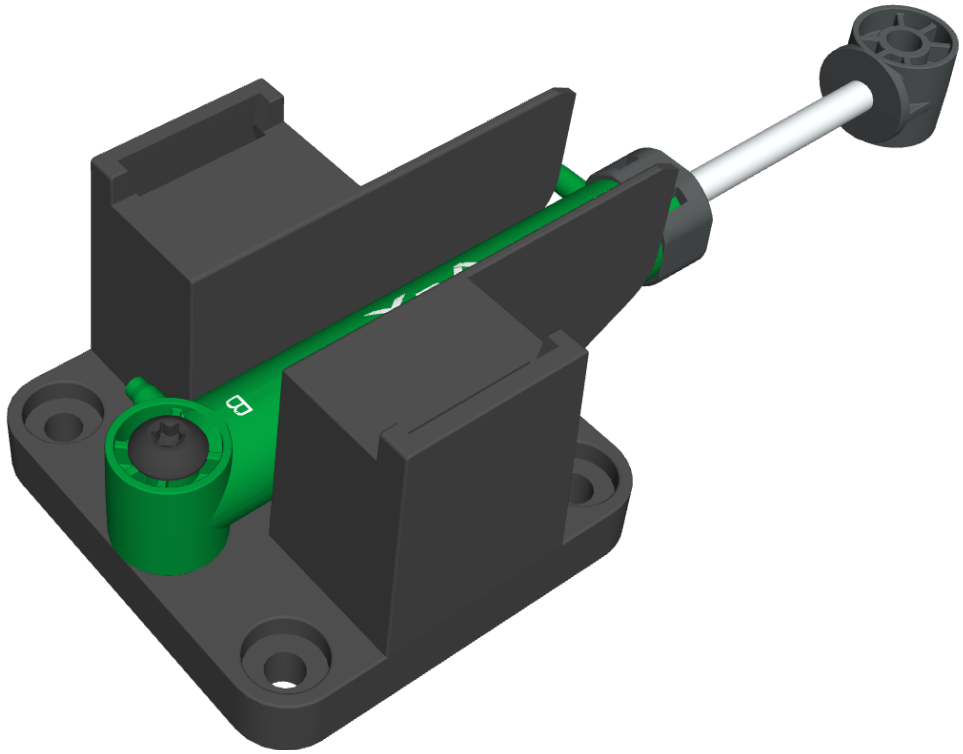


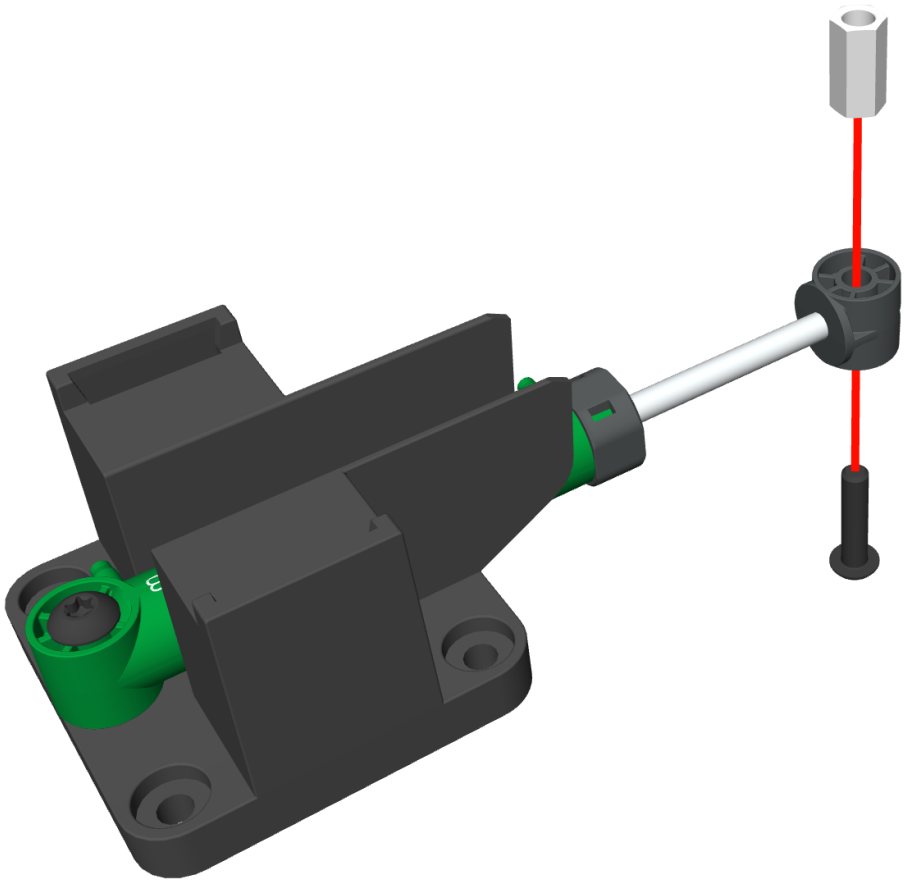
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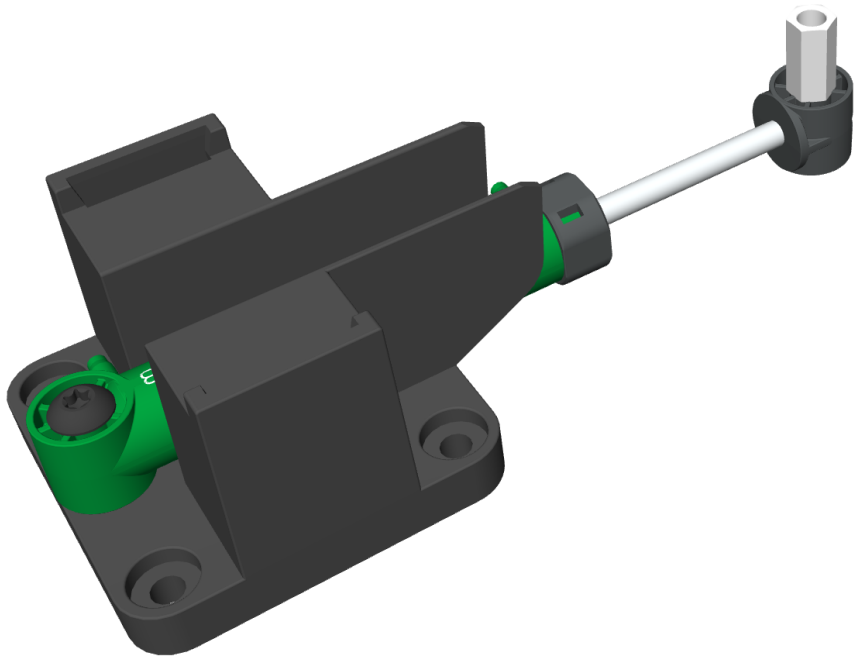


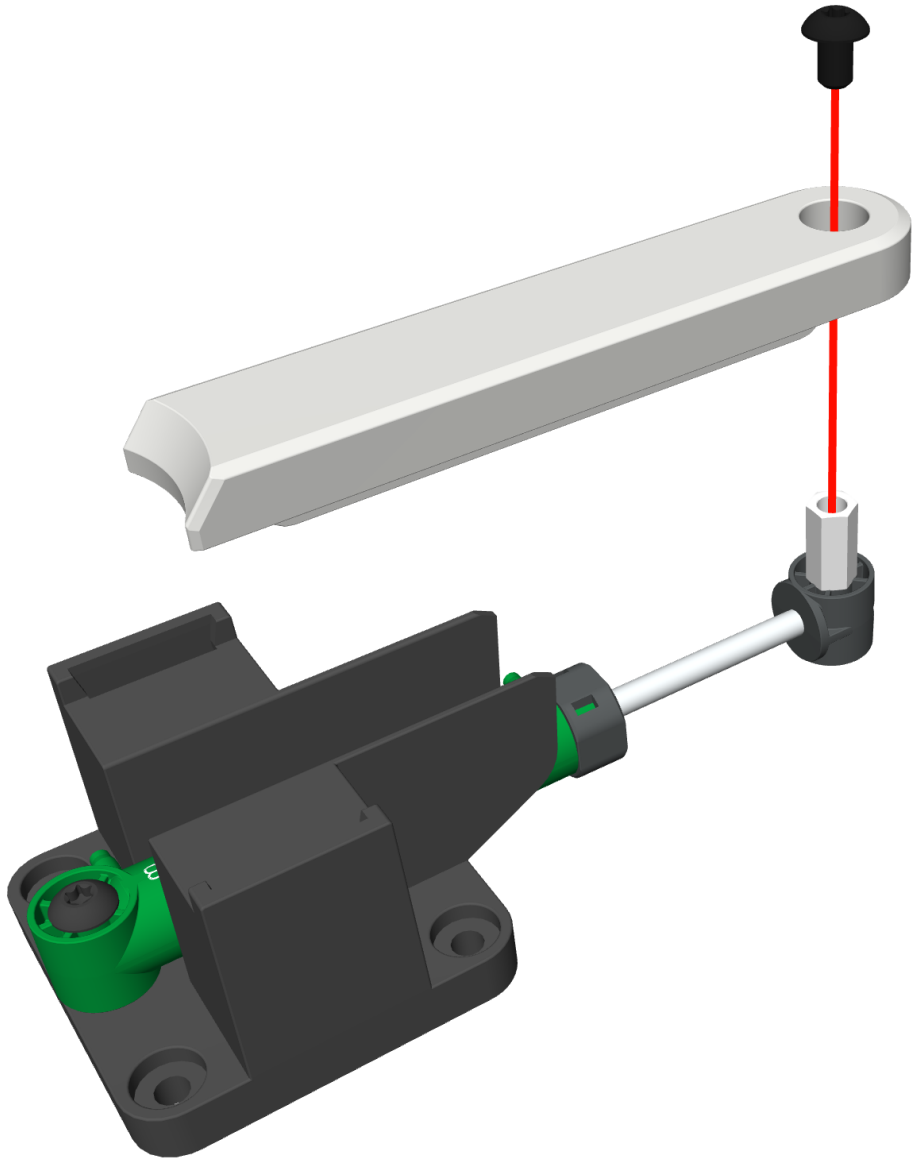
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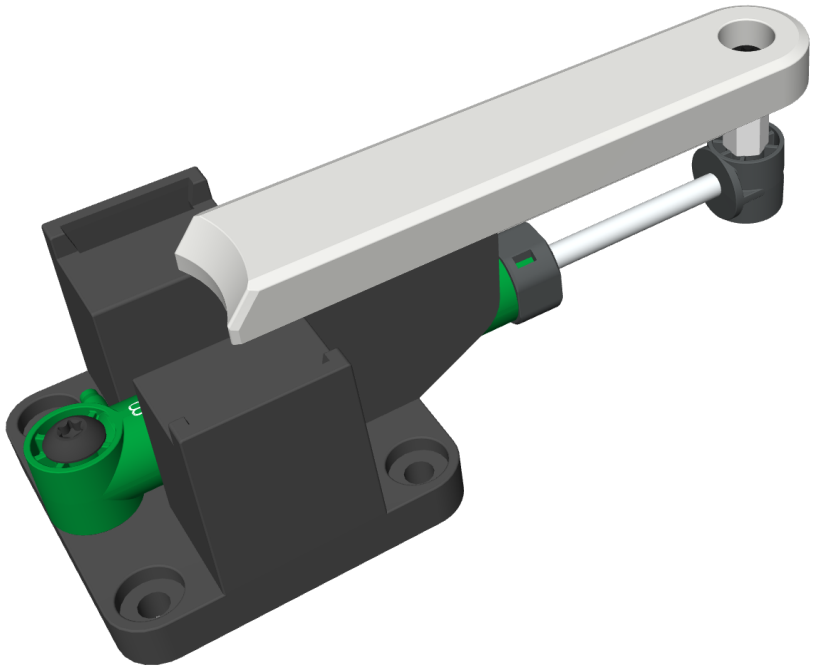


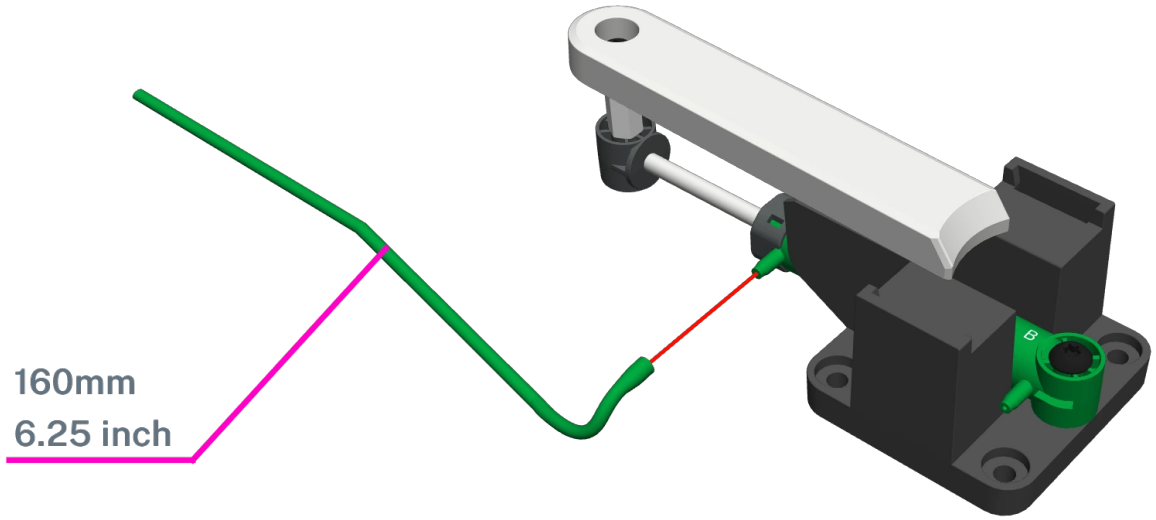

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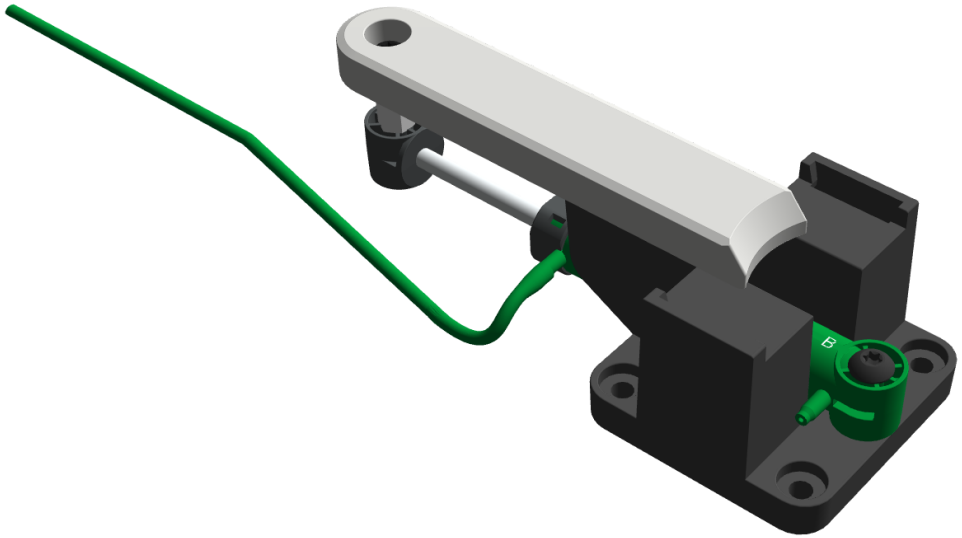


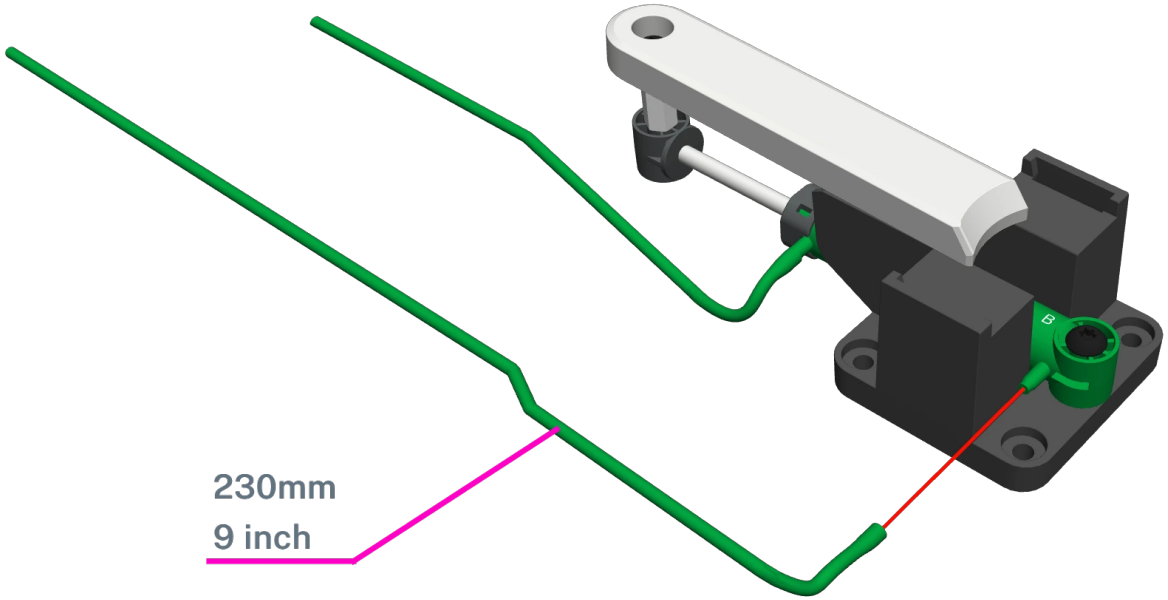


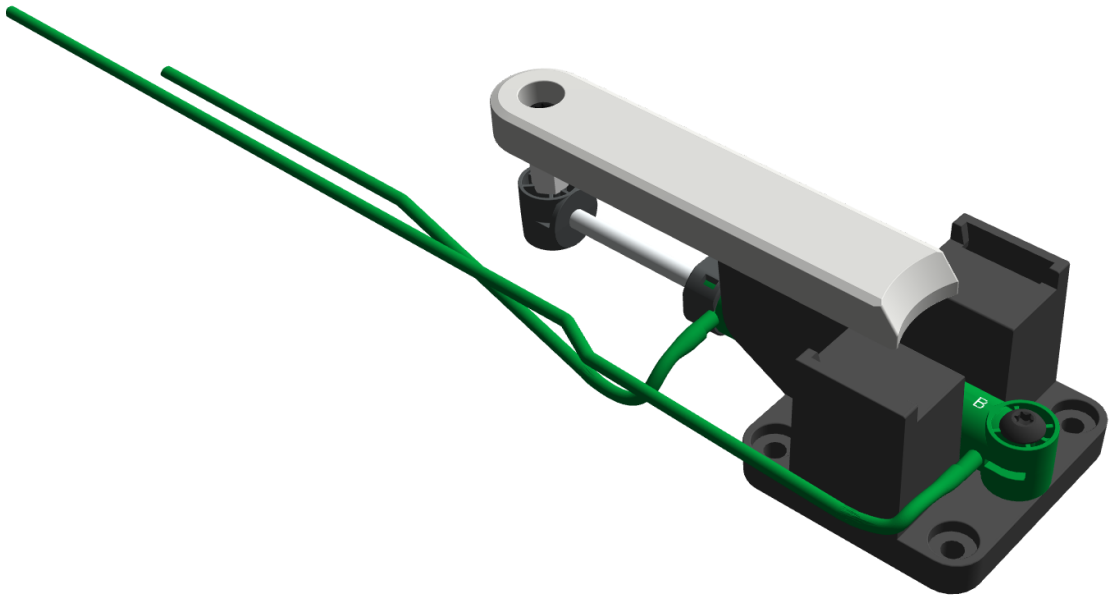


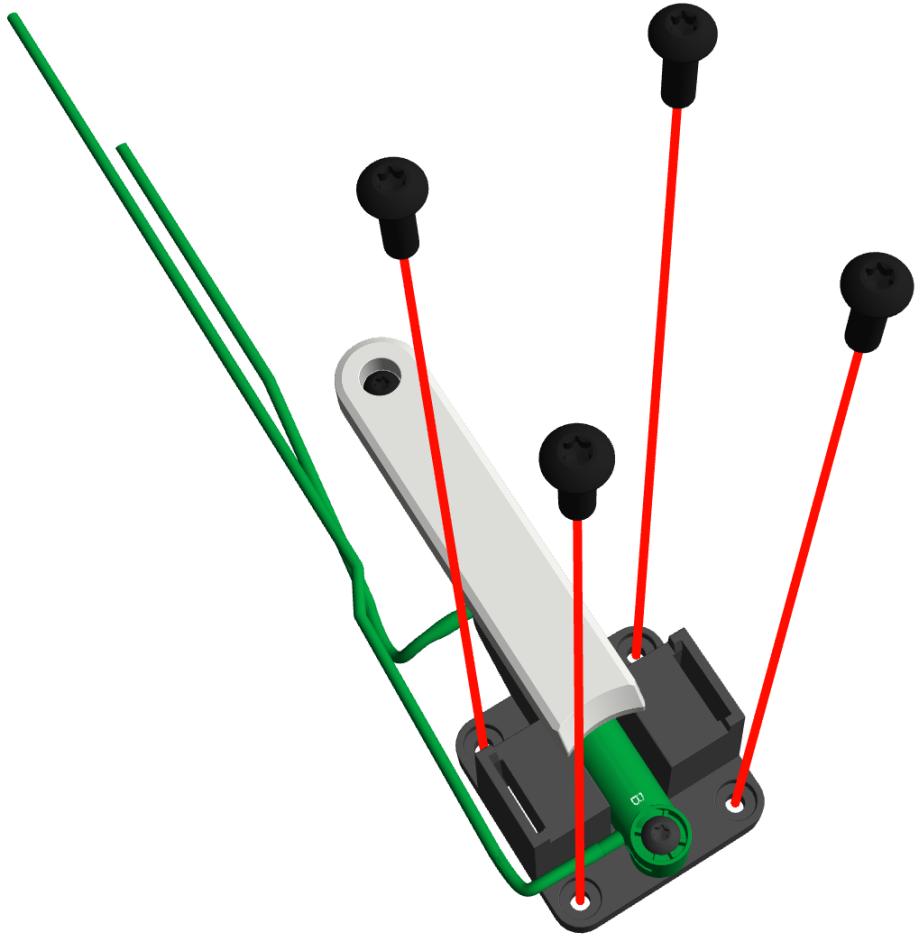


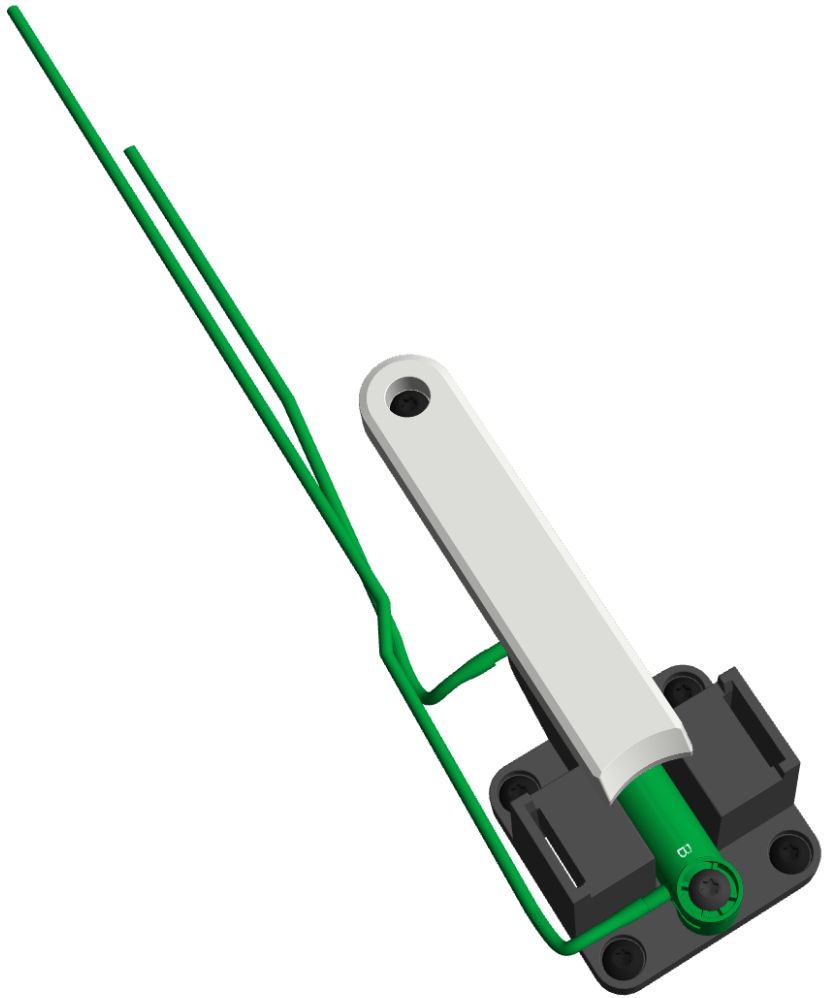

160mm
6.25 inch

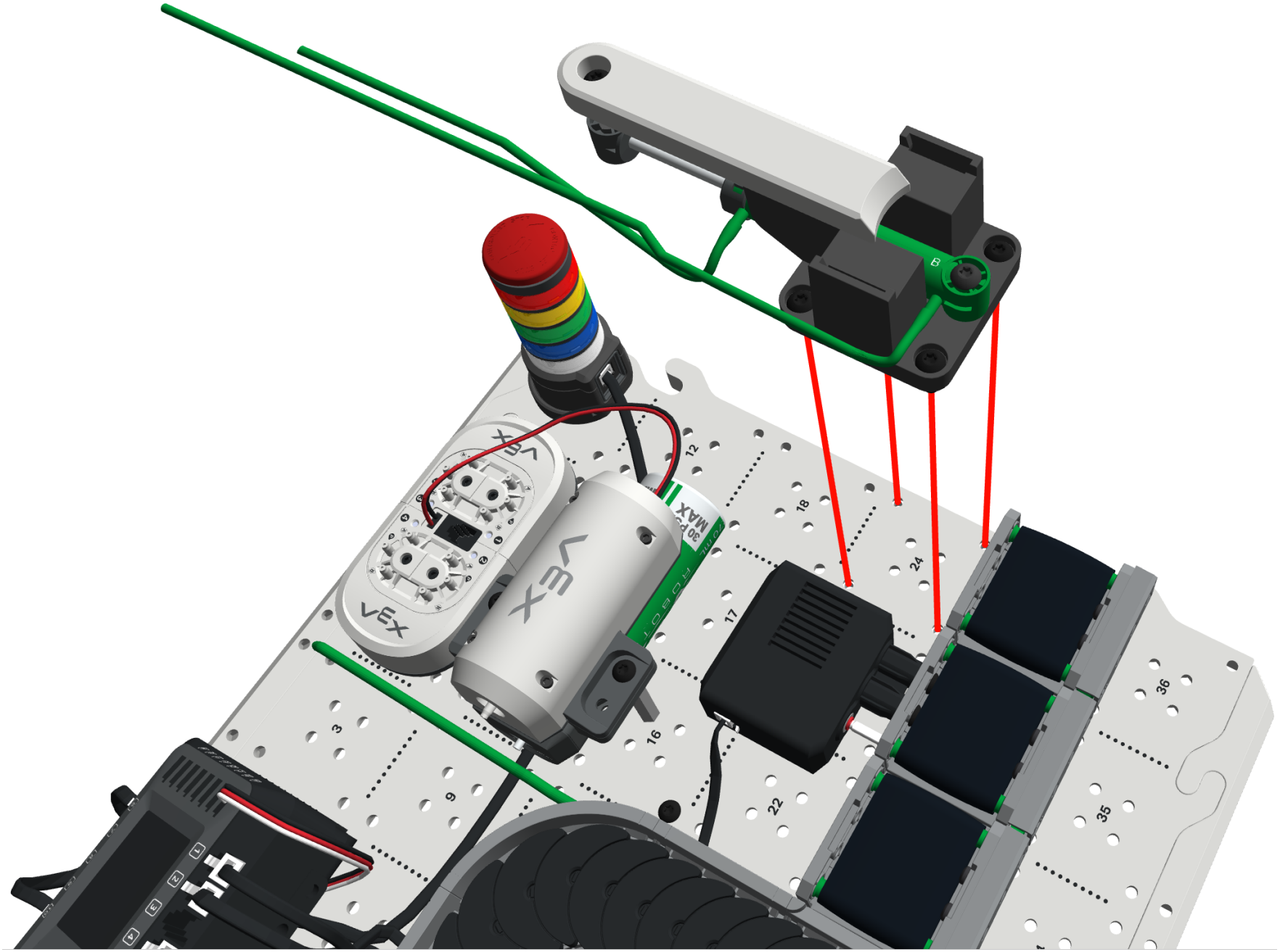

B

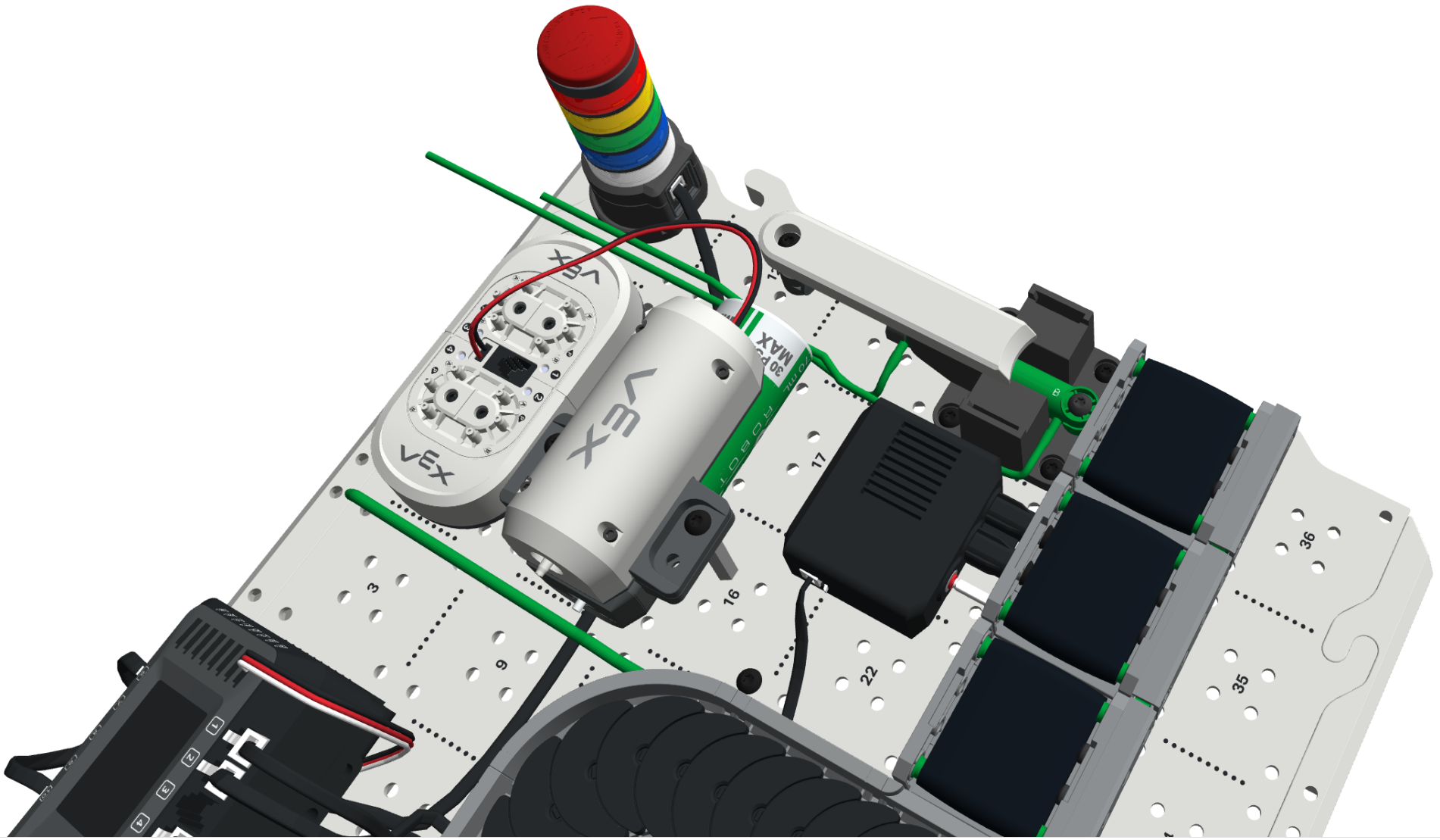

230mm
9 inch

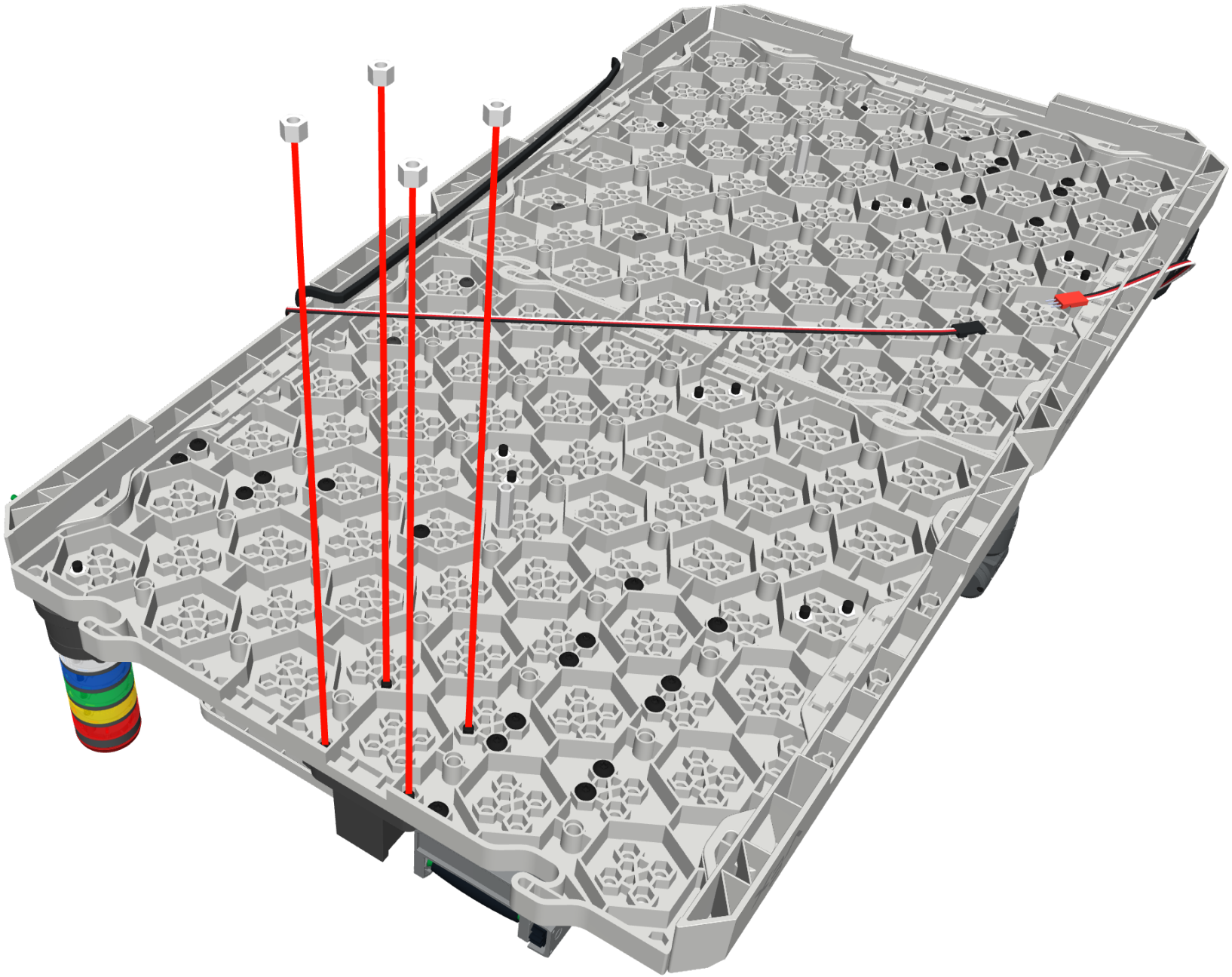

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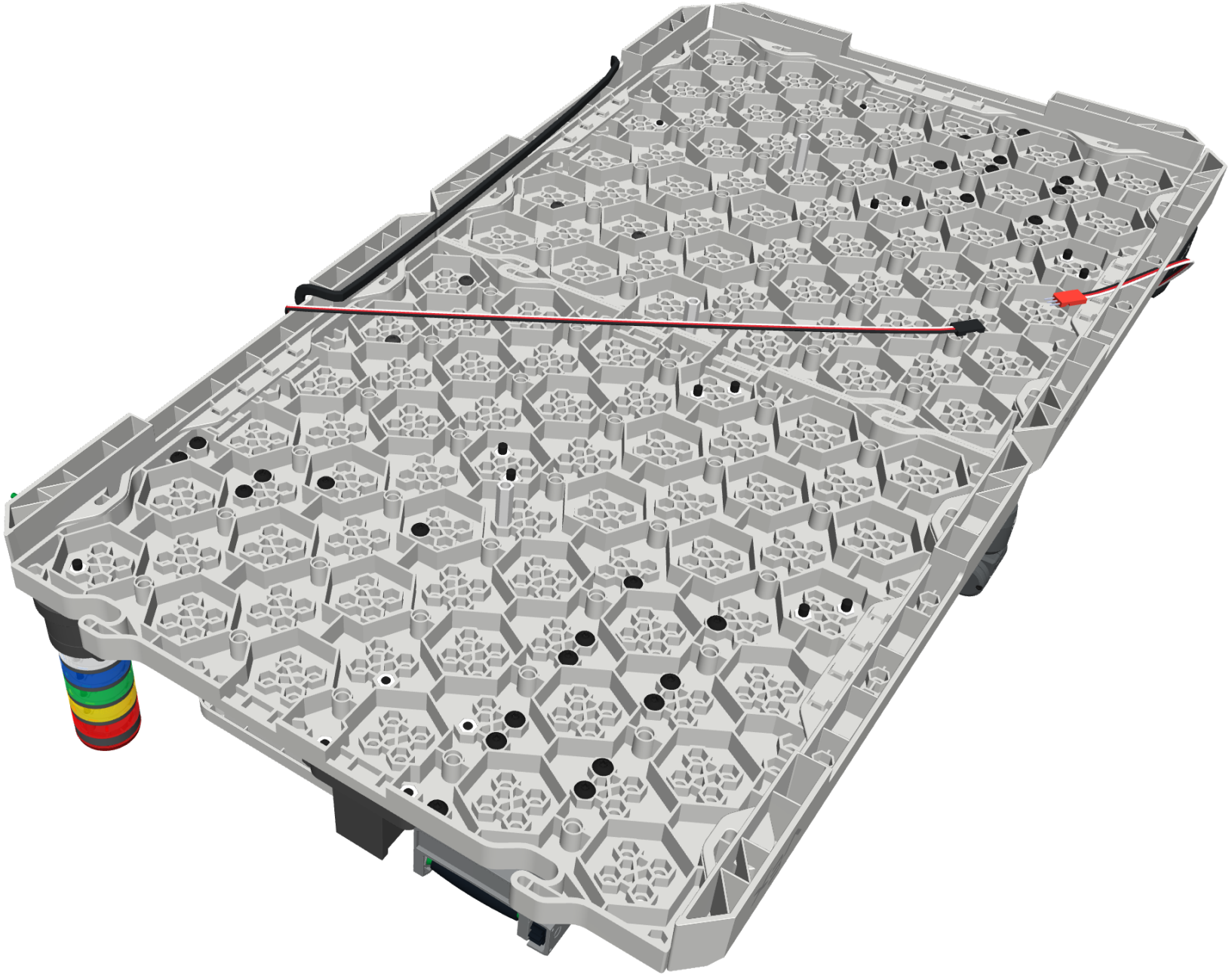


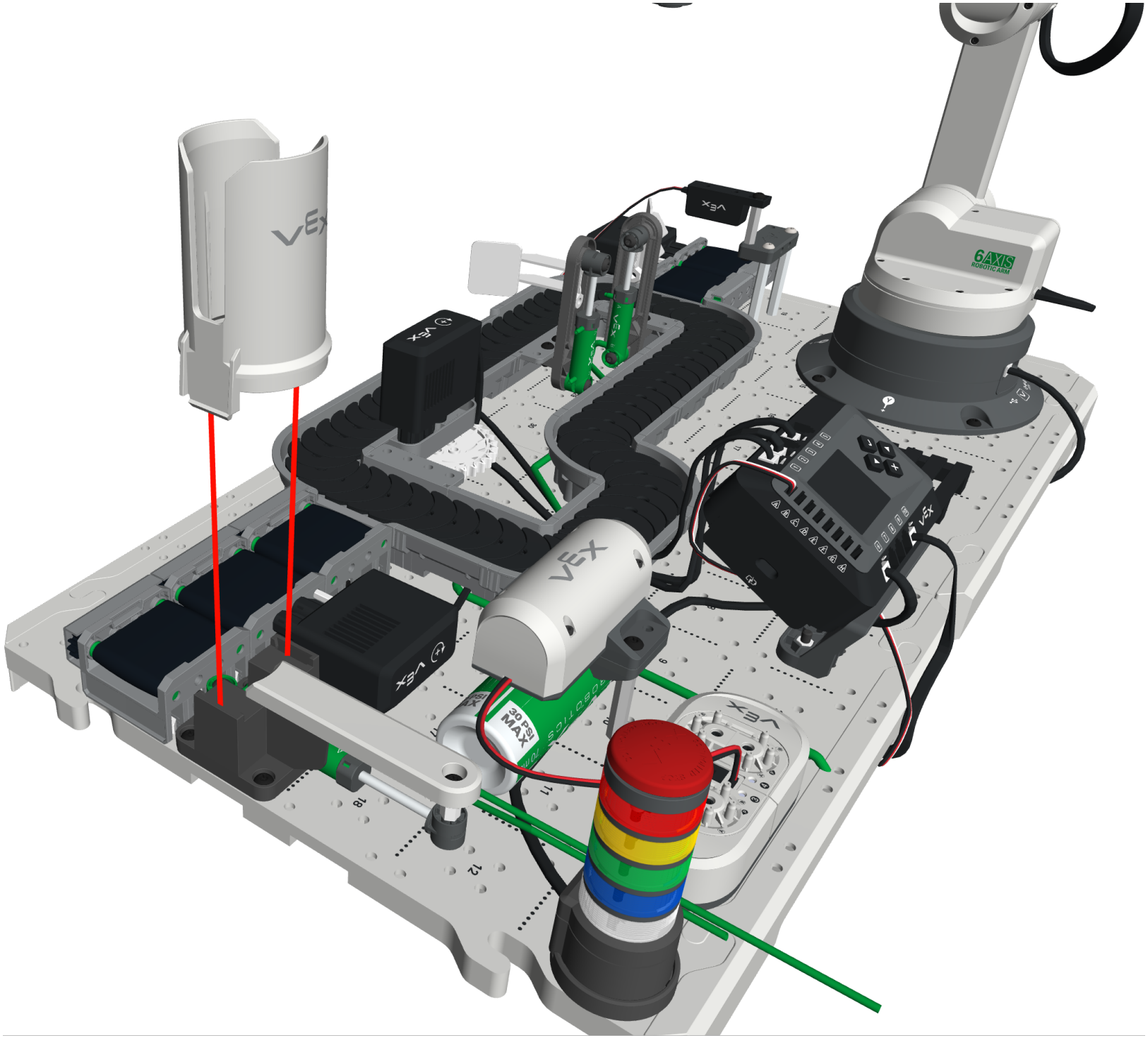


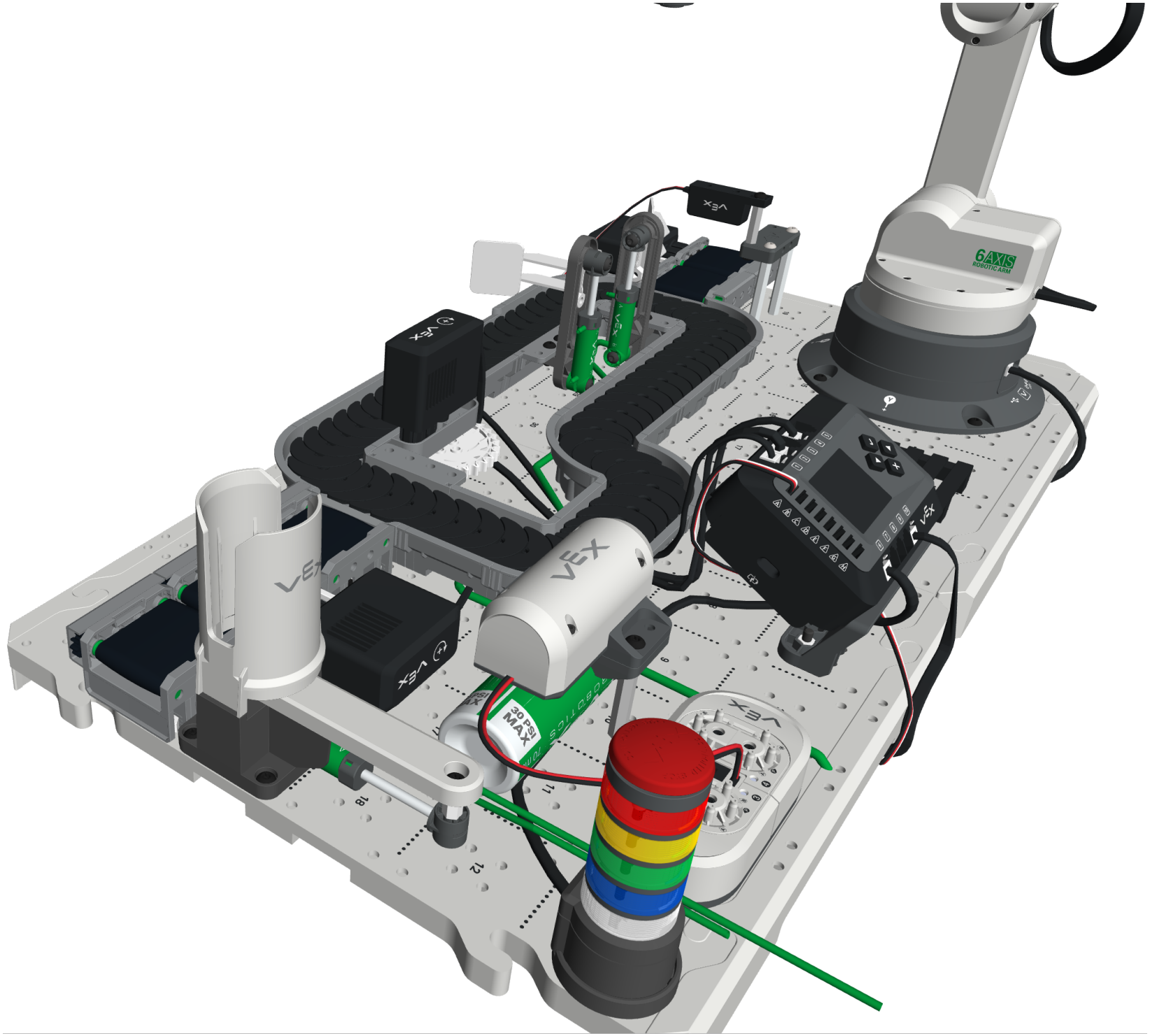

VEX
VEX
VEX
12
18
24
17
16
3
9
22
35
36

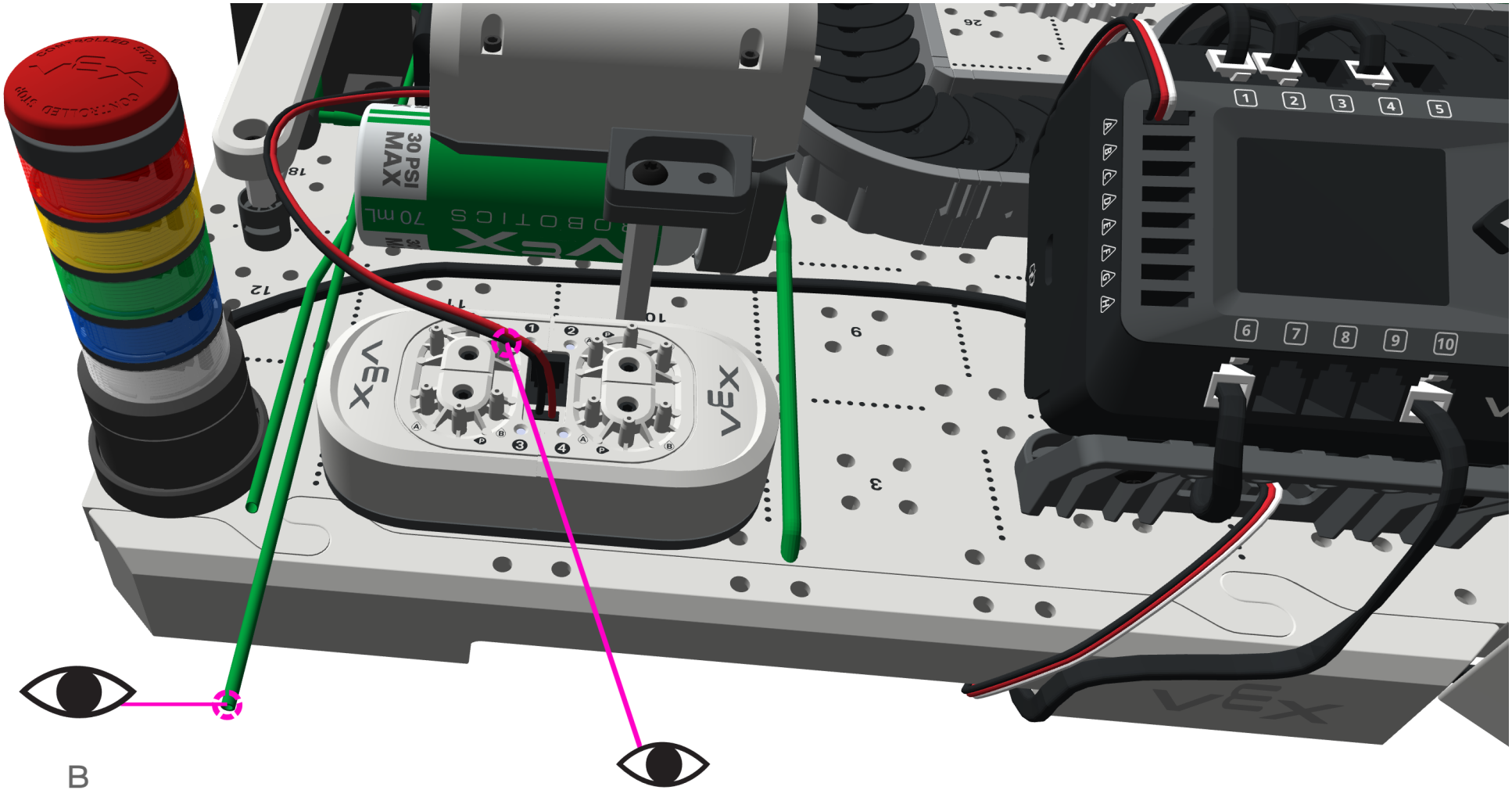

VEX
VEX
VEX
MAX
3
9
16
17
22
35
36

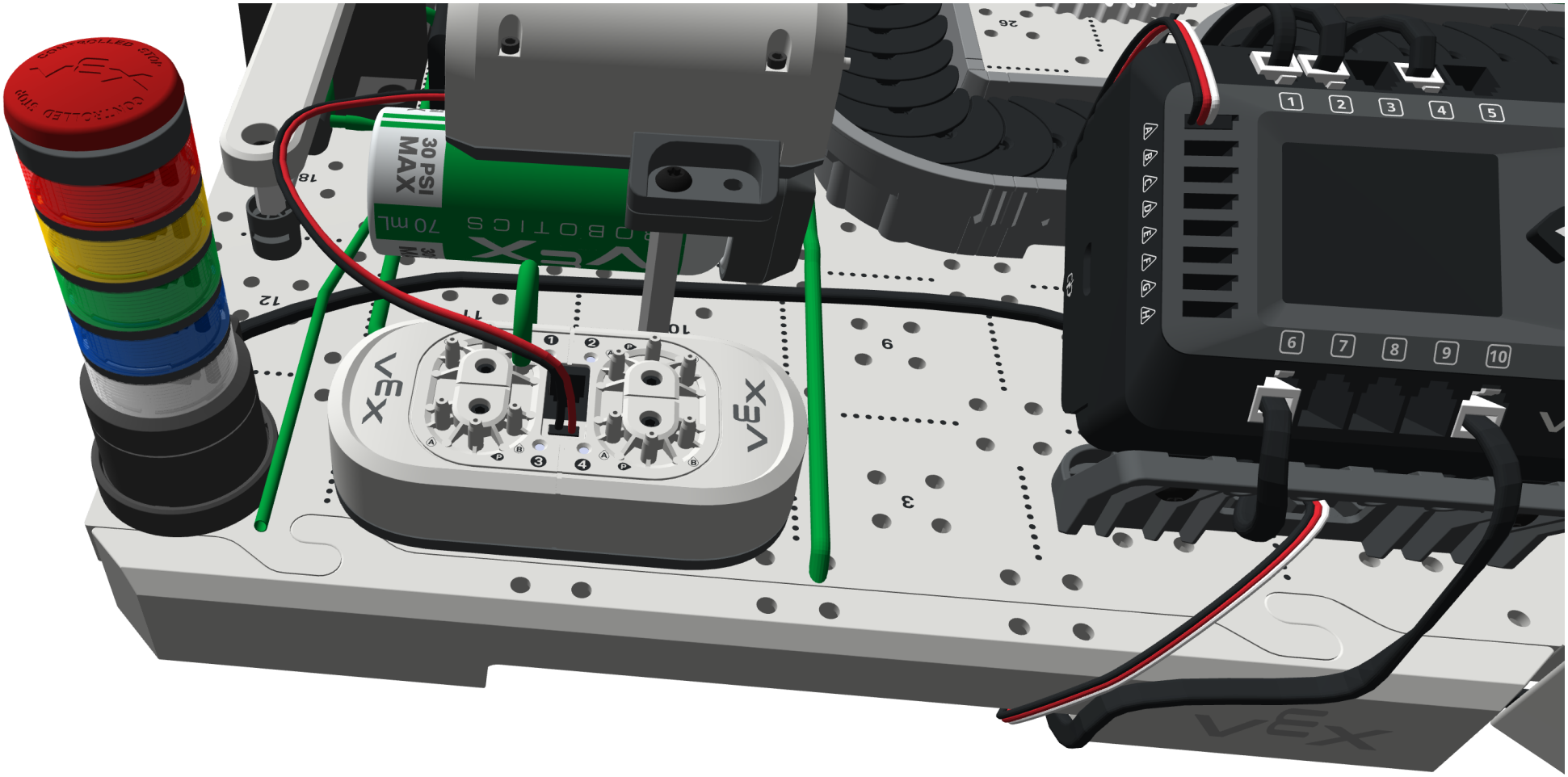


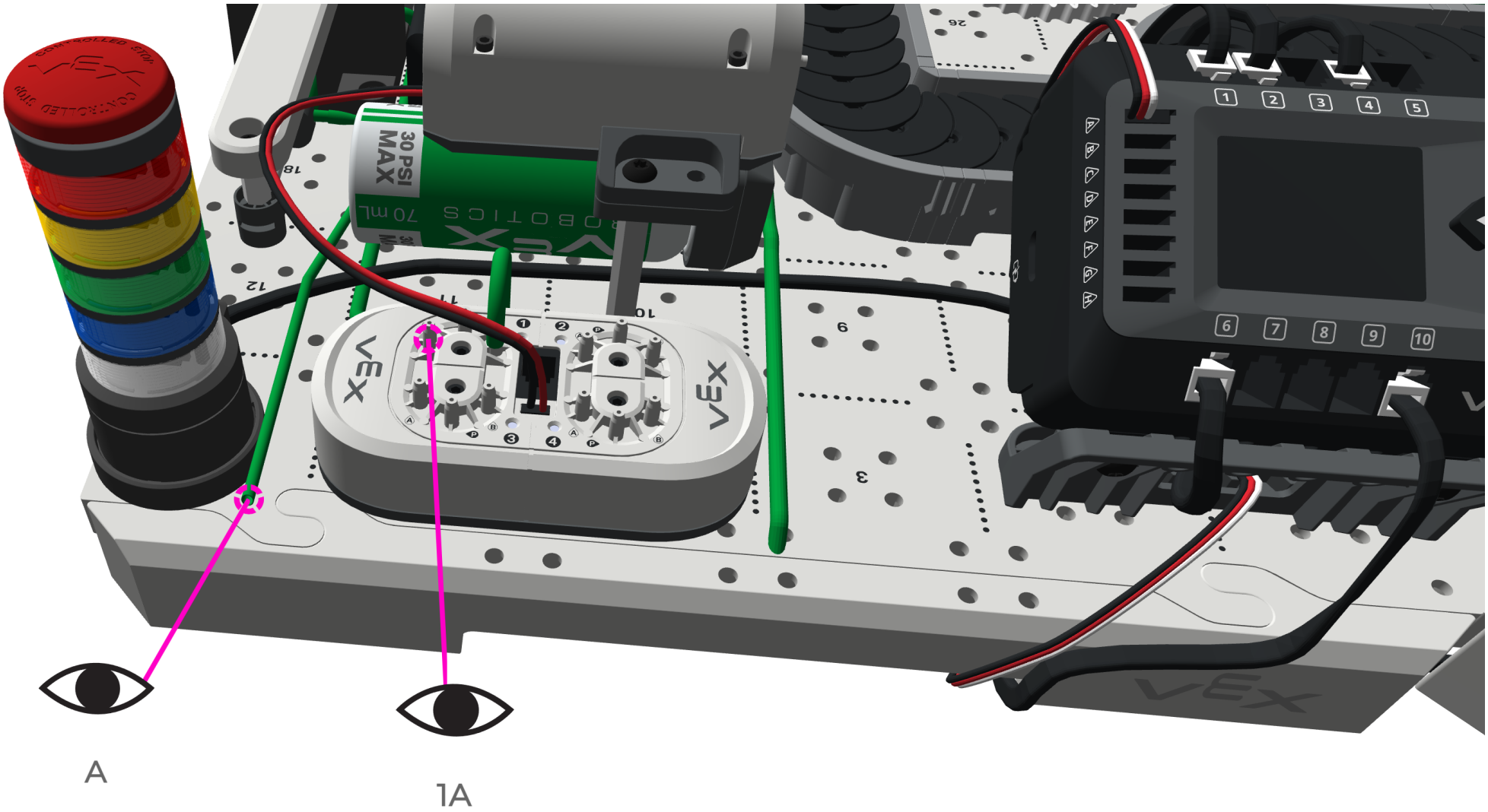


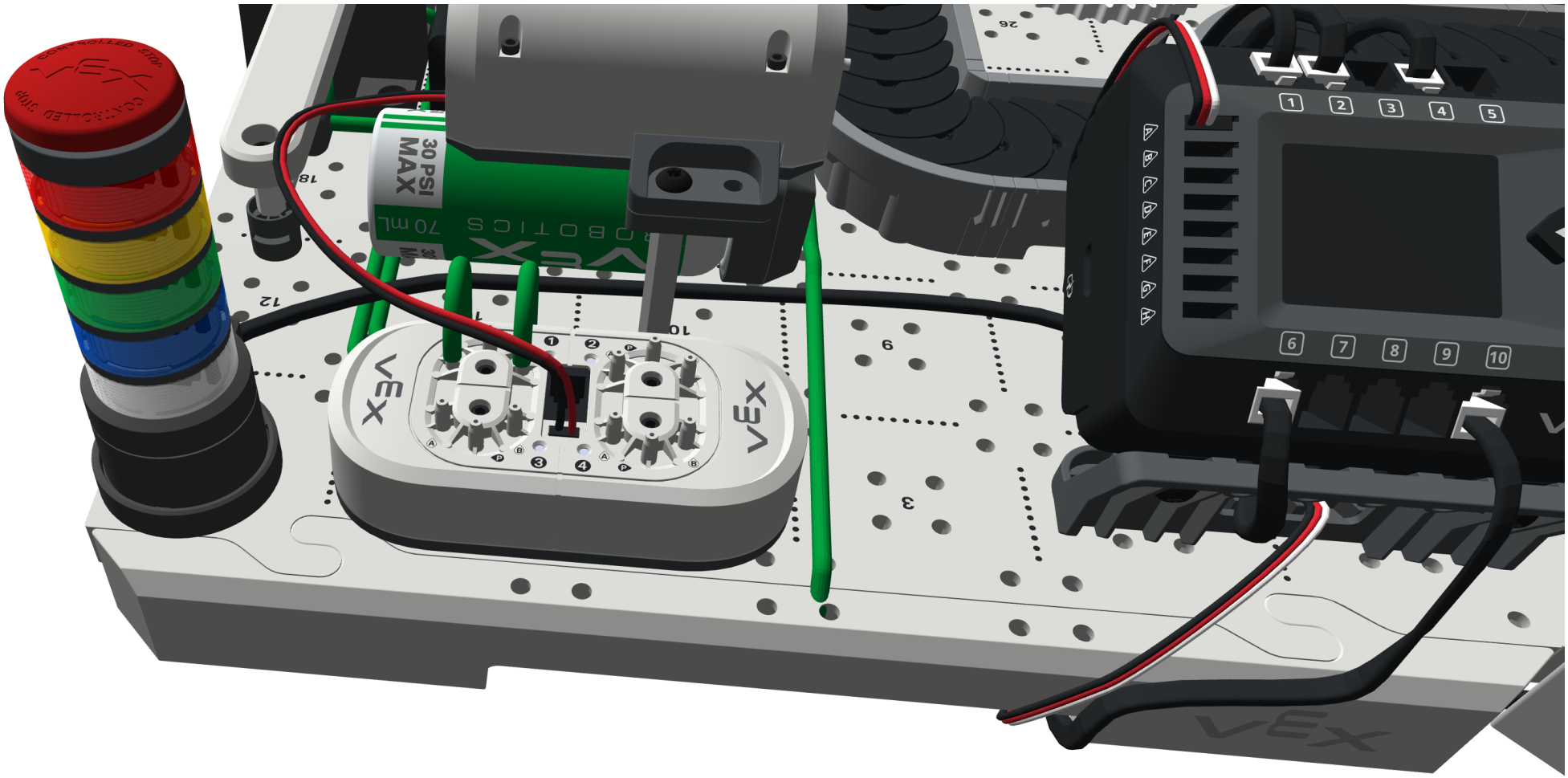

6AXIS
ROBOTIC ARM
30 PSI MAX

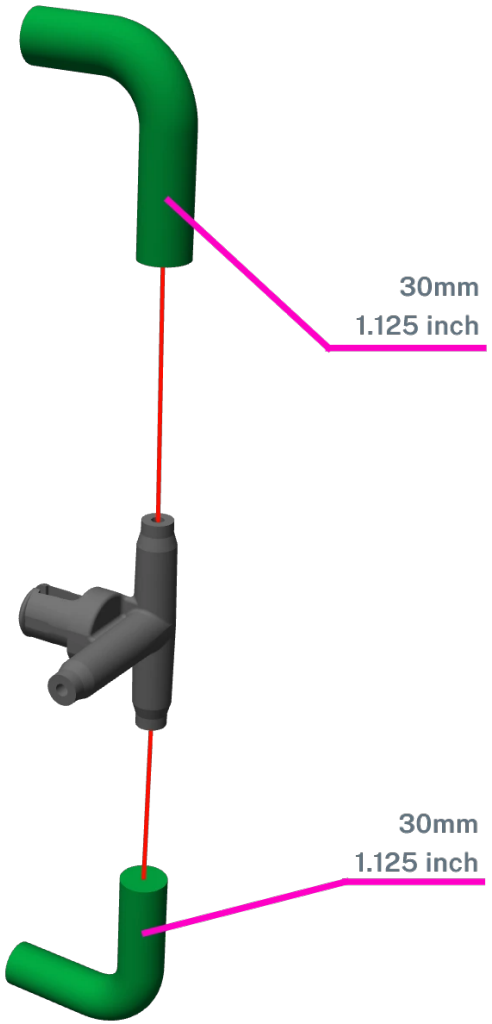

6AXIS
ROBOTIC ARM
30 PSI MAX

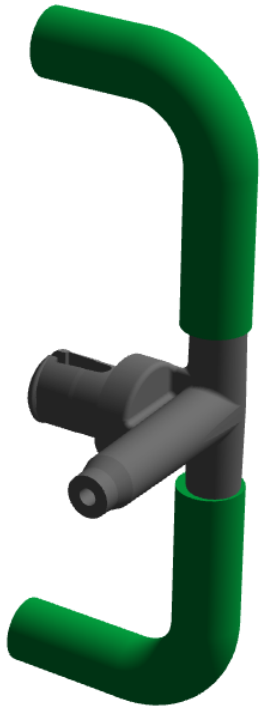

30 PSI MAX
VEX
B
1B

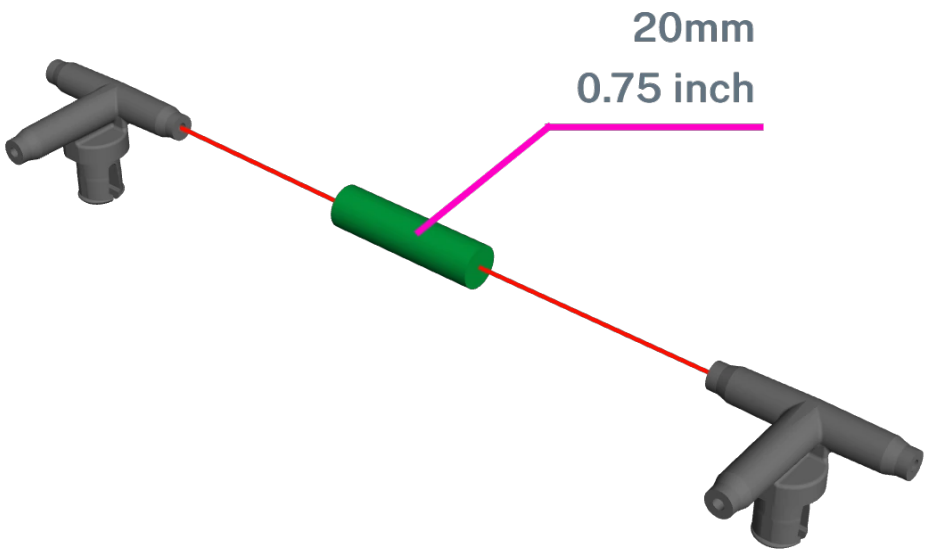

30 PSI MAX
VEX
VEX
VEX
VEX
1
2
3
4
5
6
7
8
9
10

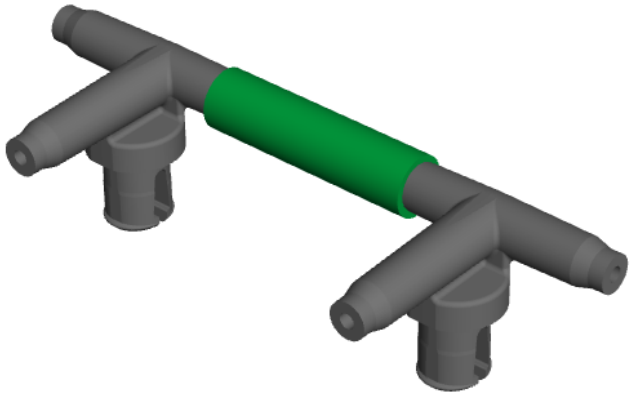

30 PSI MAX
A
1A

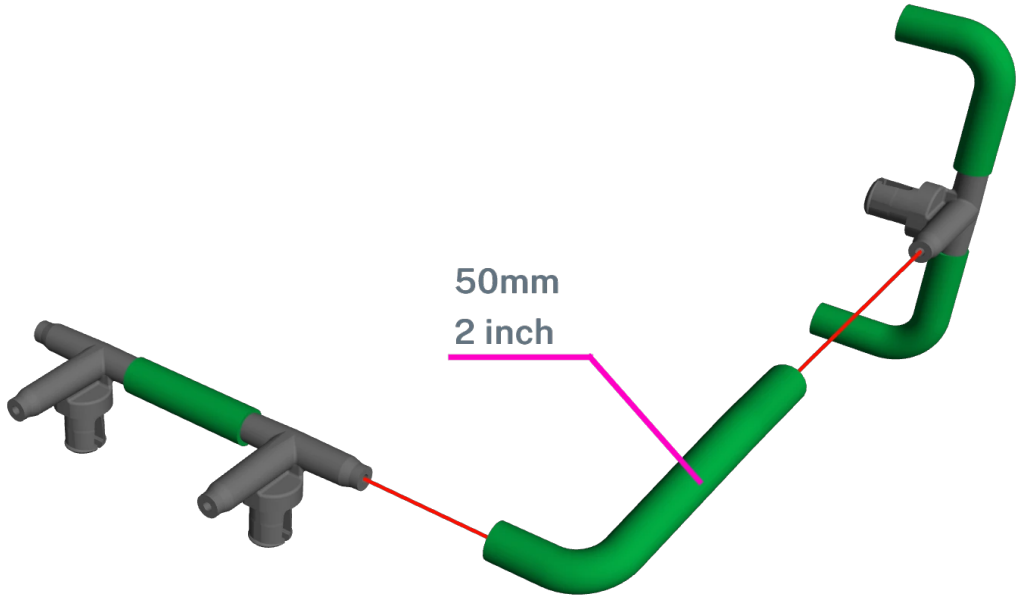

30 PSI MAX
70 mL
VEX
CONTROLLED STOP

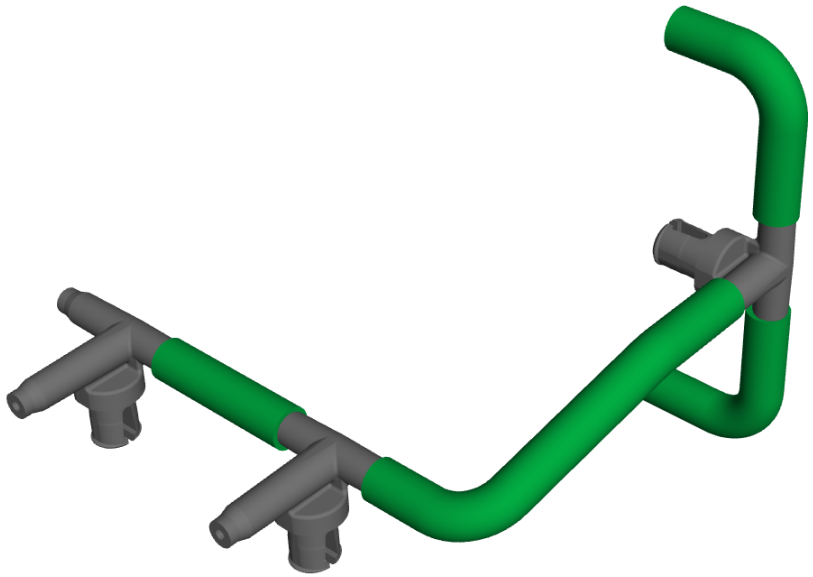

30mm
1.125 inch
30mm
1.125 inch

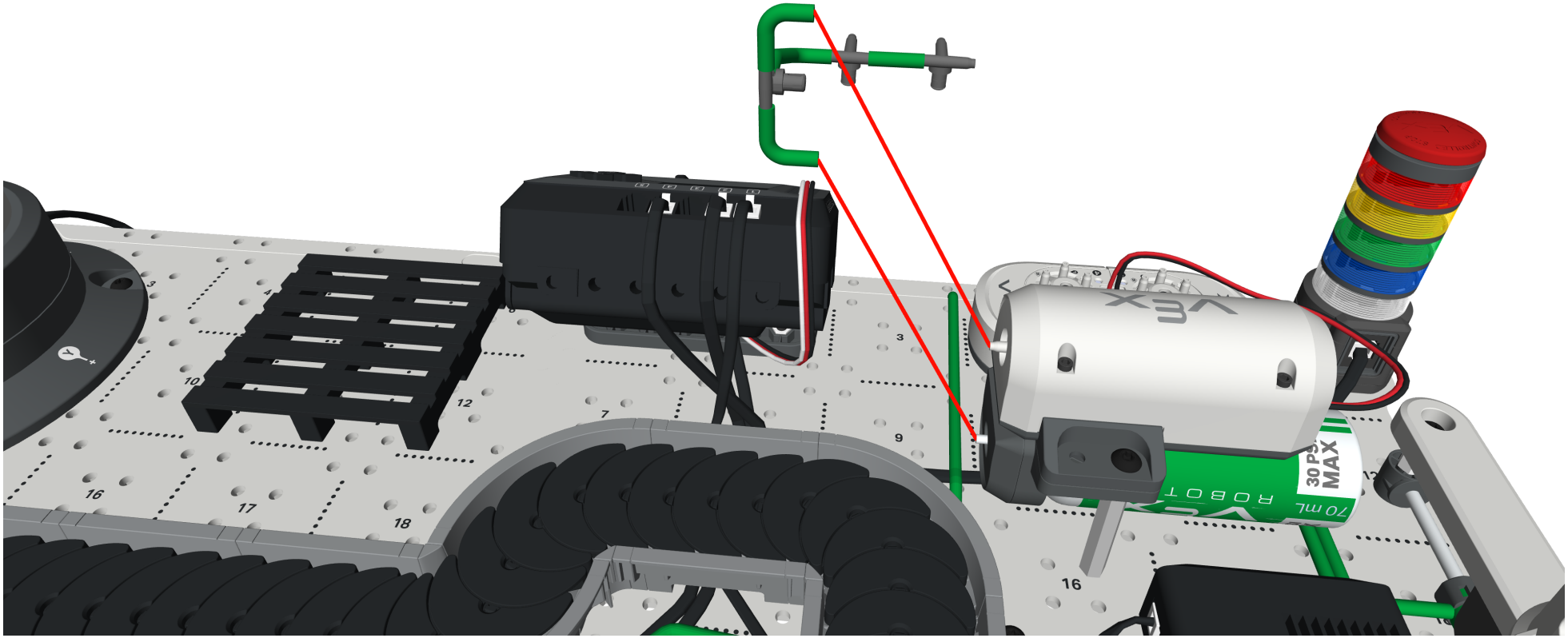


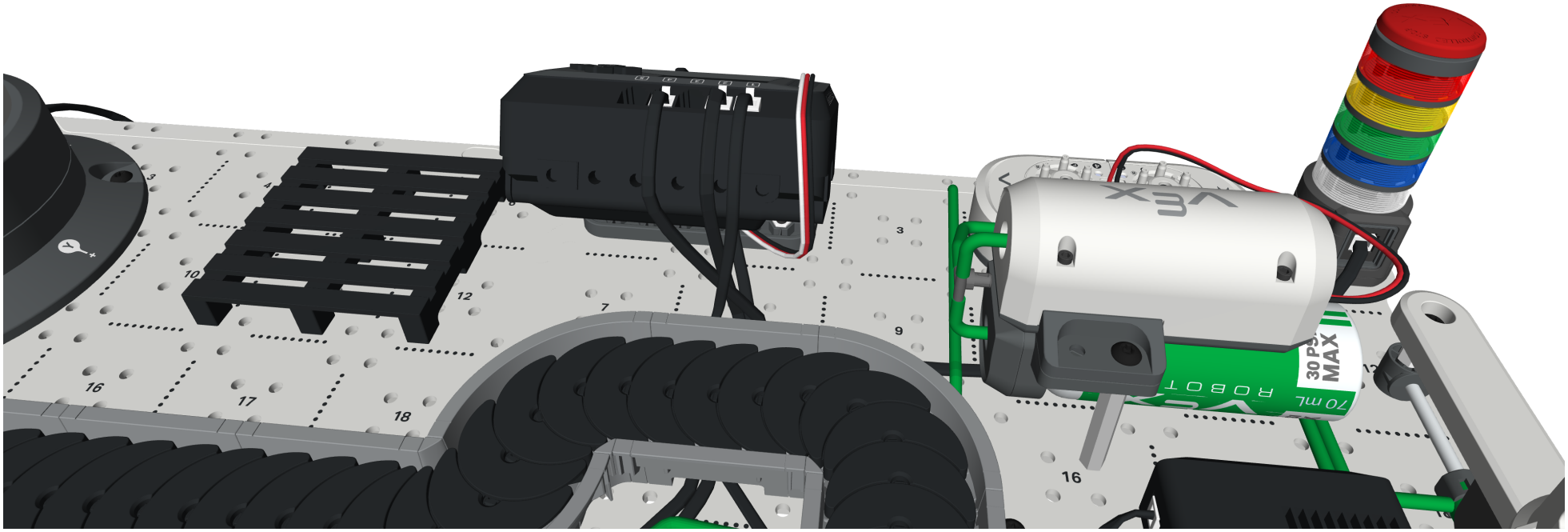

20mm
0.75 inch

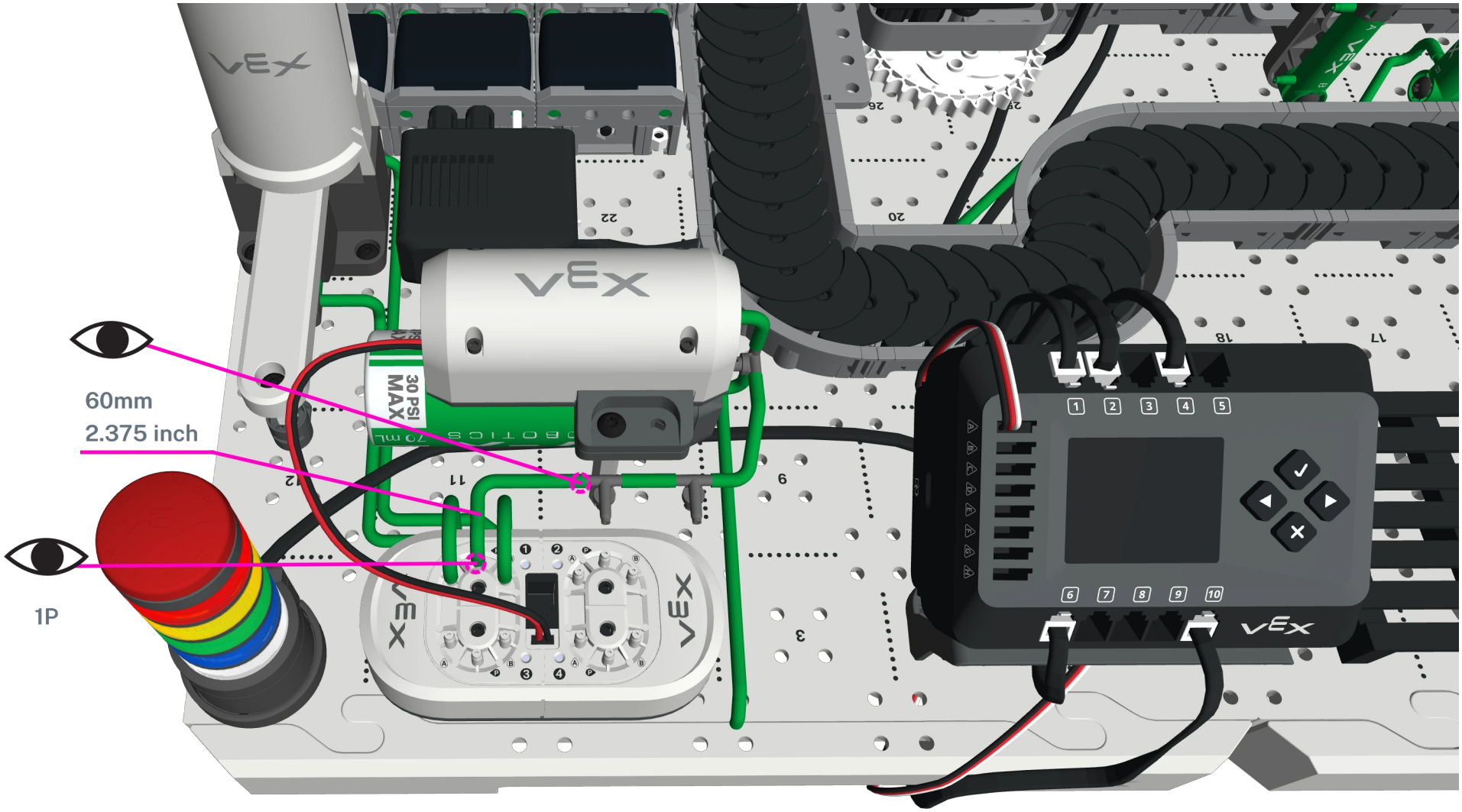


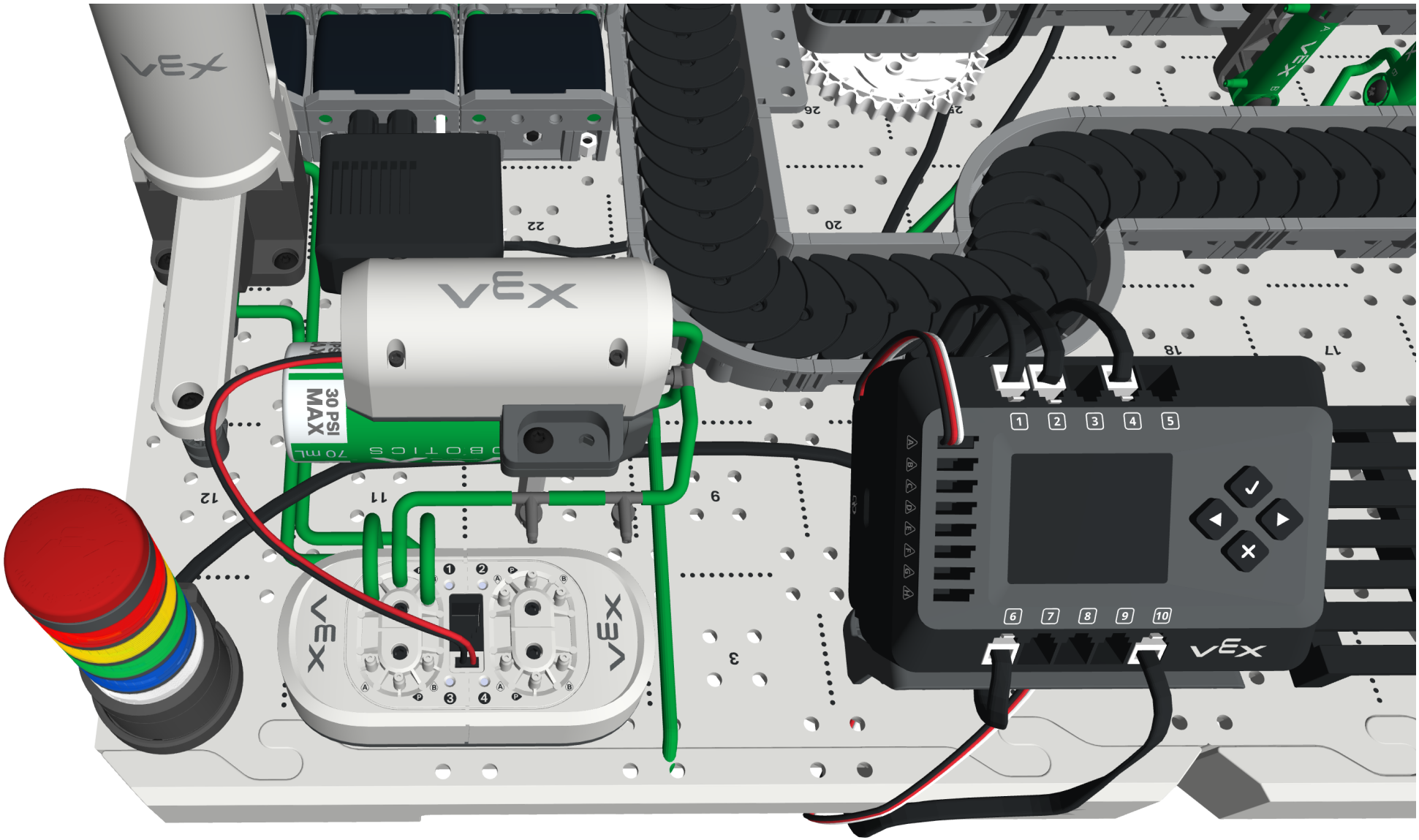

50mm
2 inch

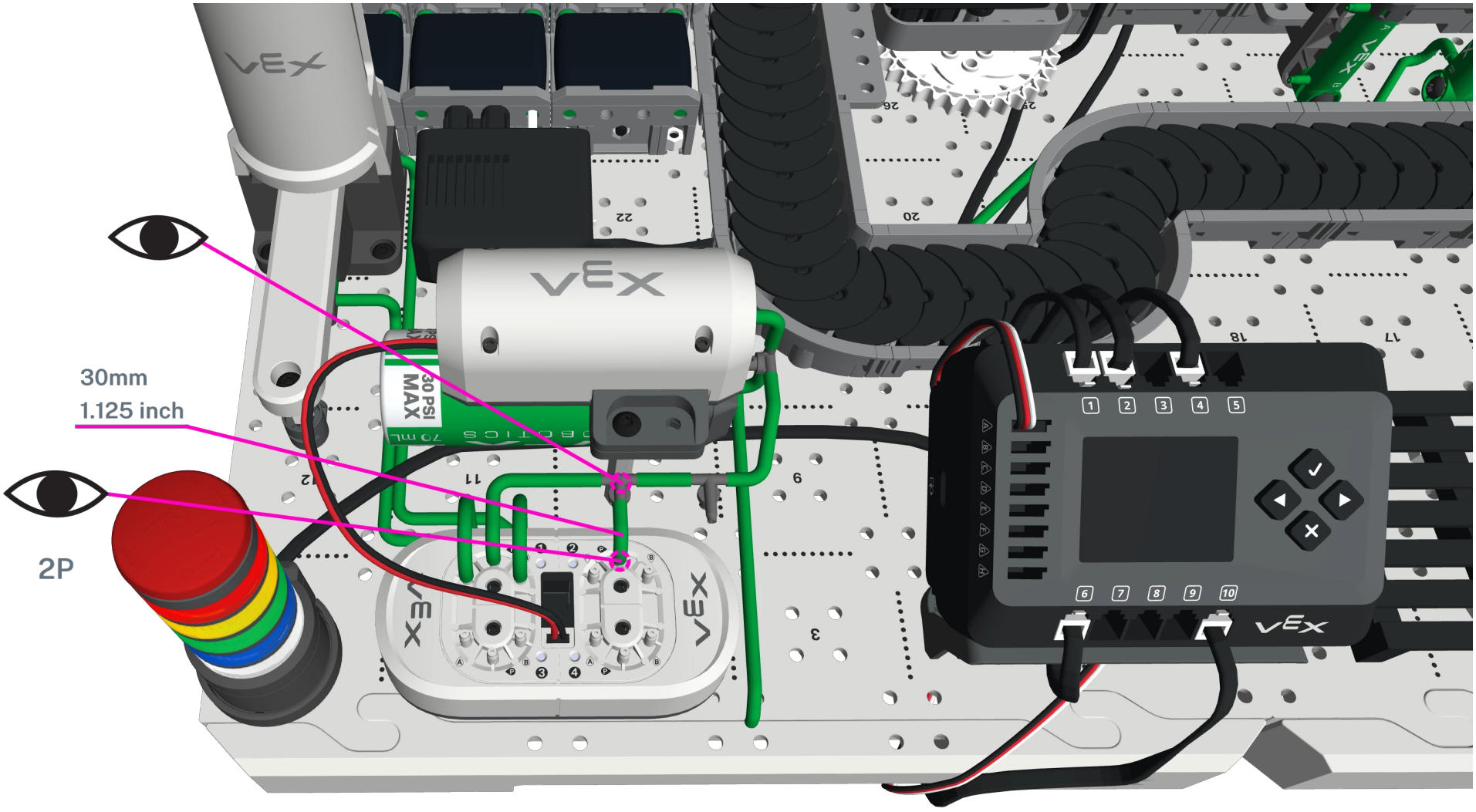


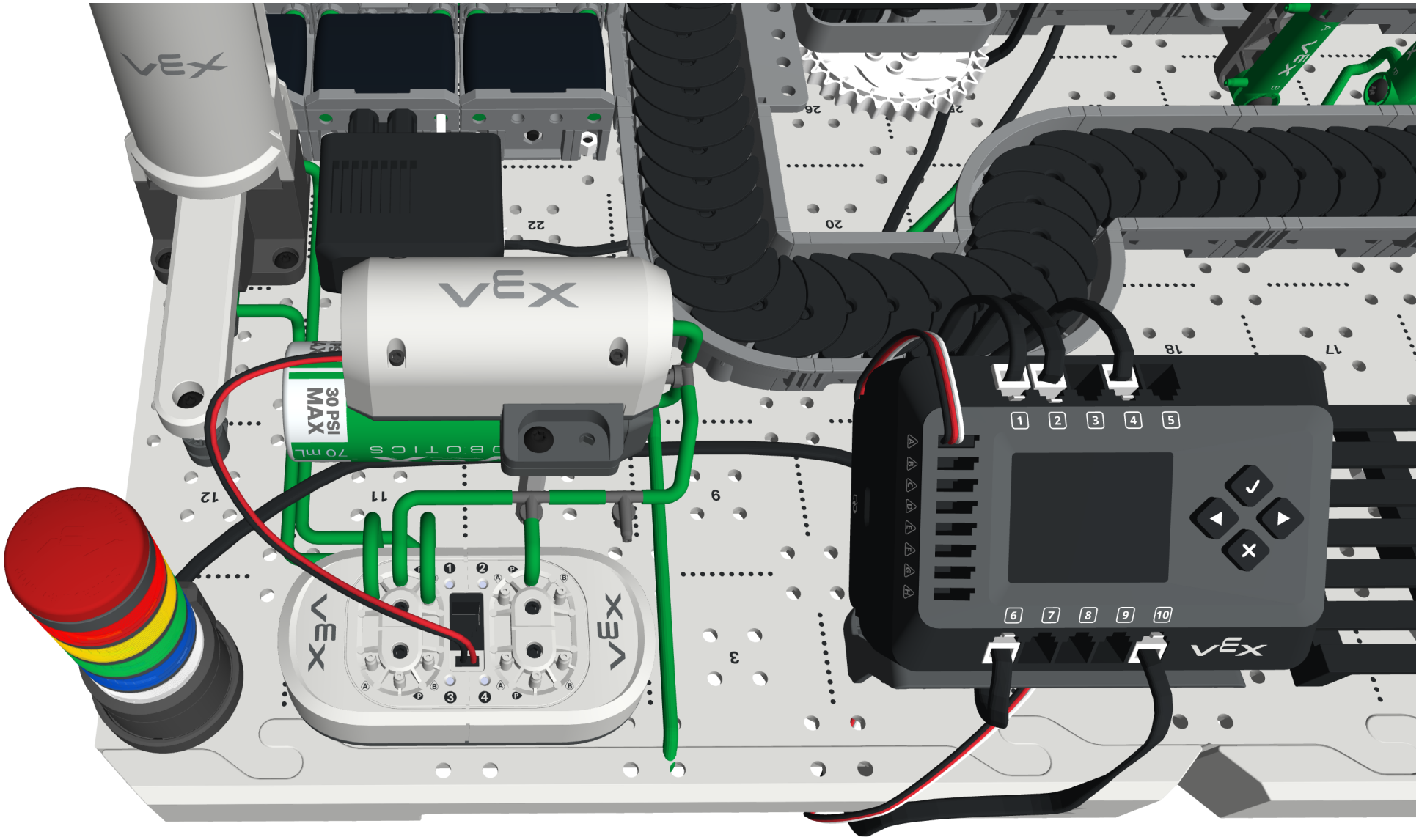

70 mL
30 PSI
MAX

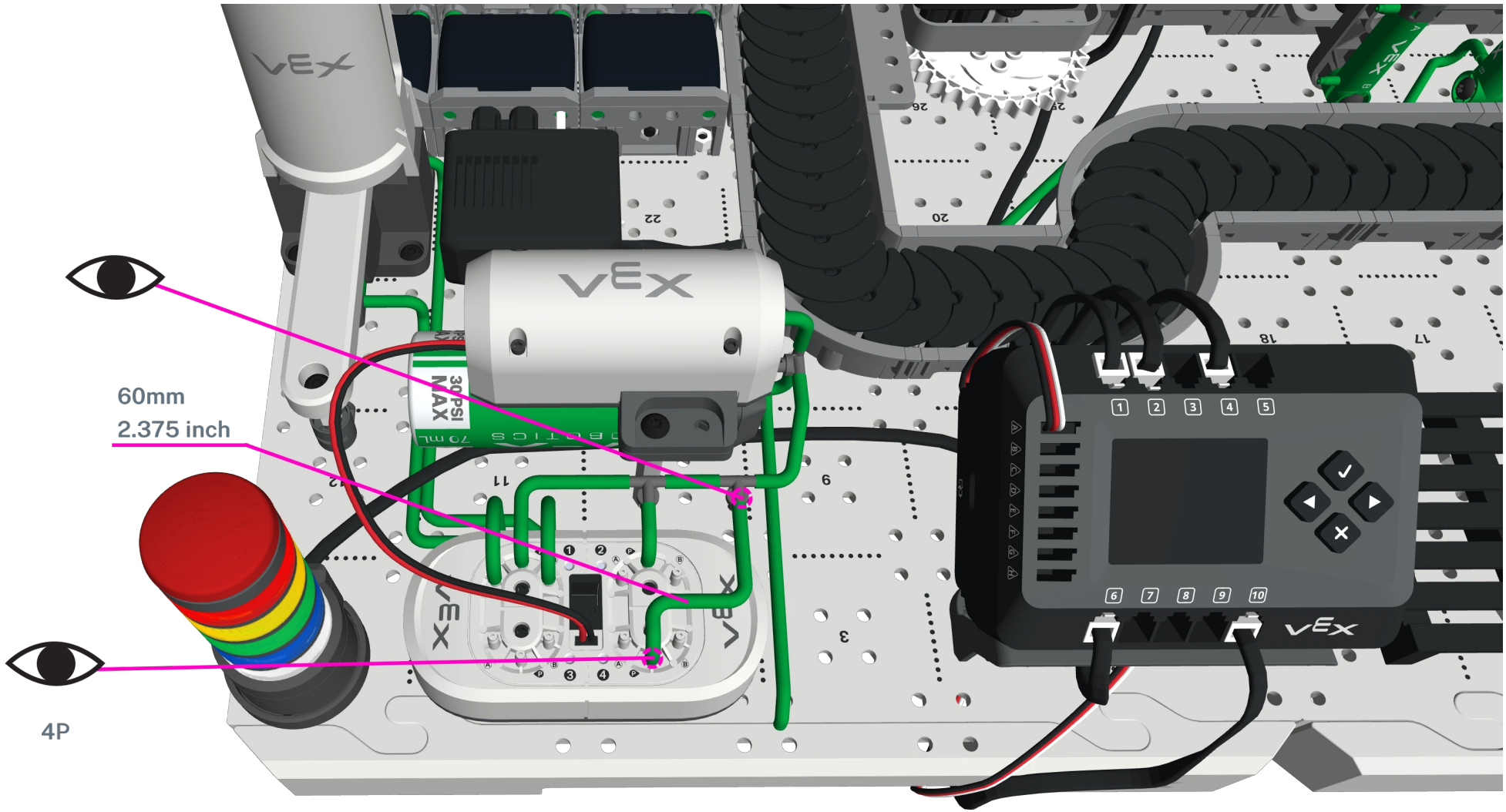

70 mL
30 PSI MAX

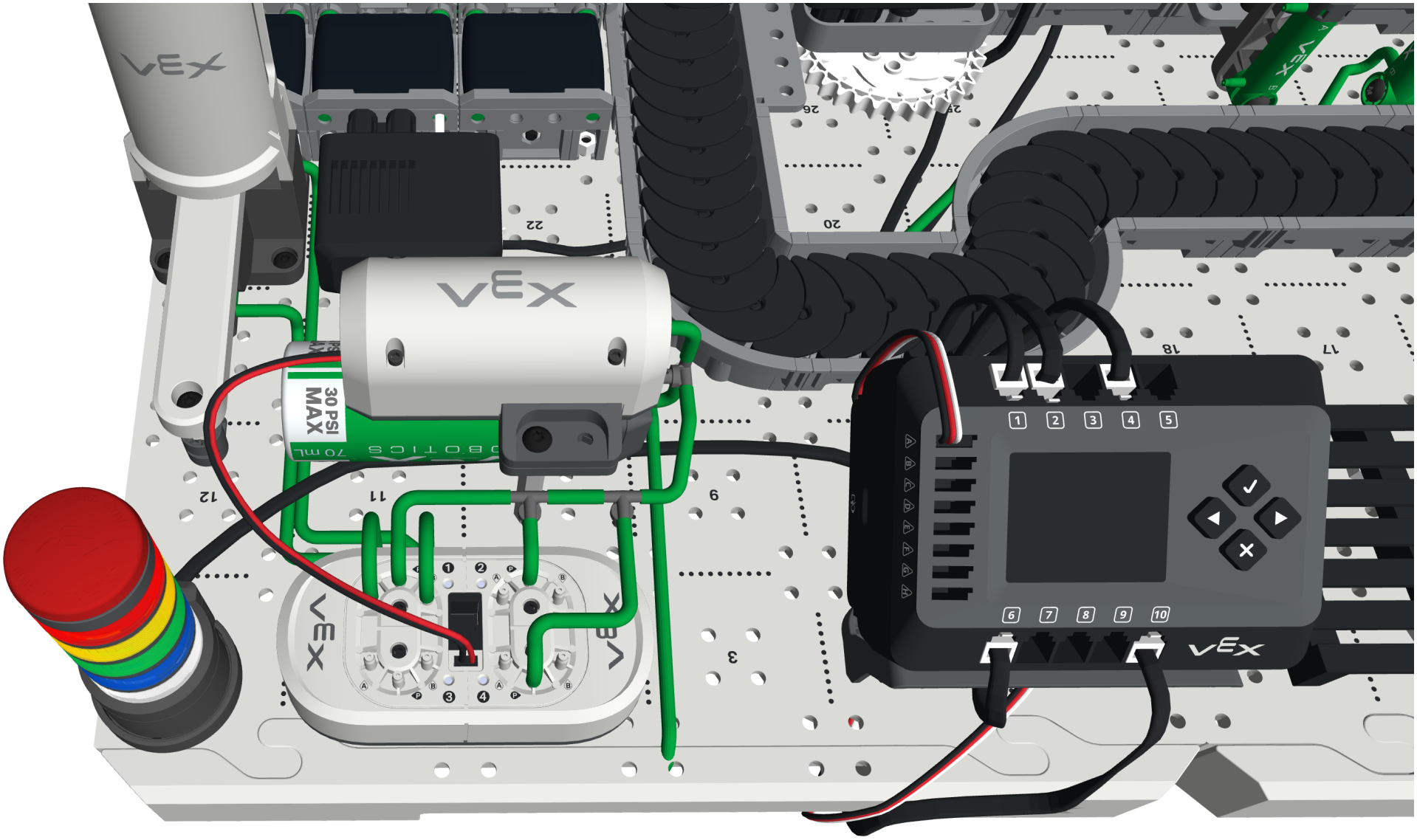

60mm
2.375 inch
1P
30 PSI MAX
VEX

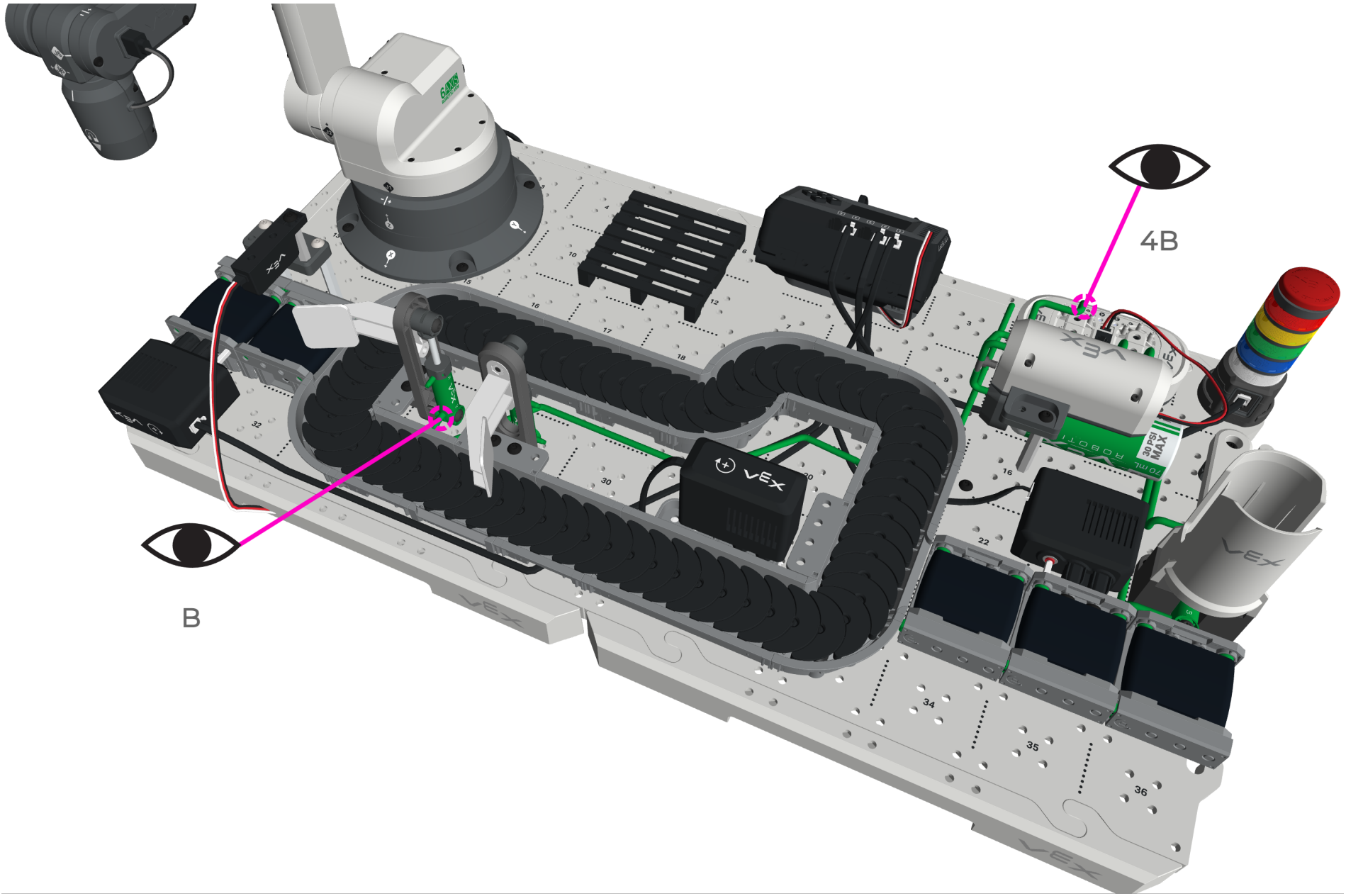

VEX
30 PSI MAX
70 mL
1
2
3
4
5
6
7
8
9
10

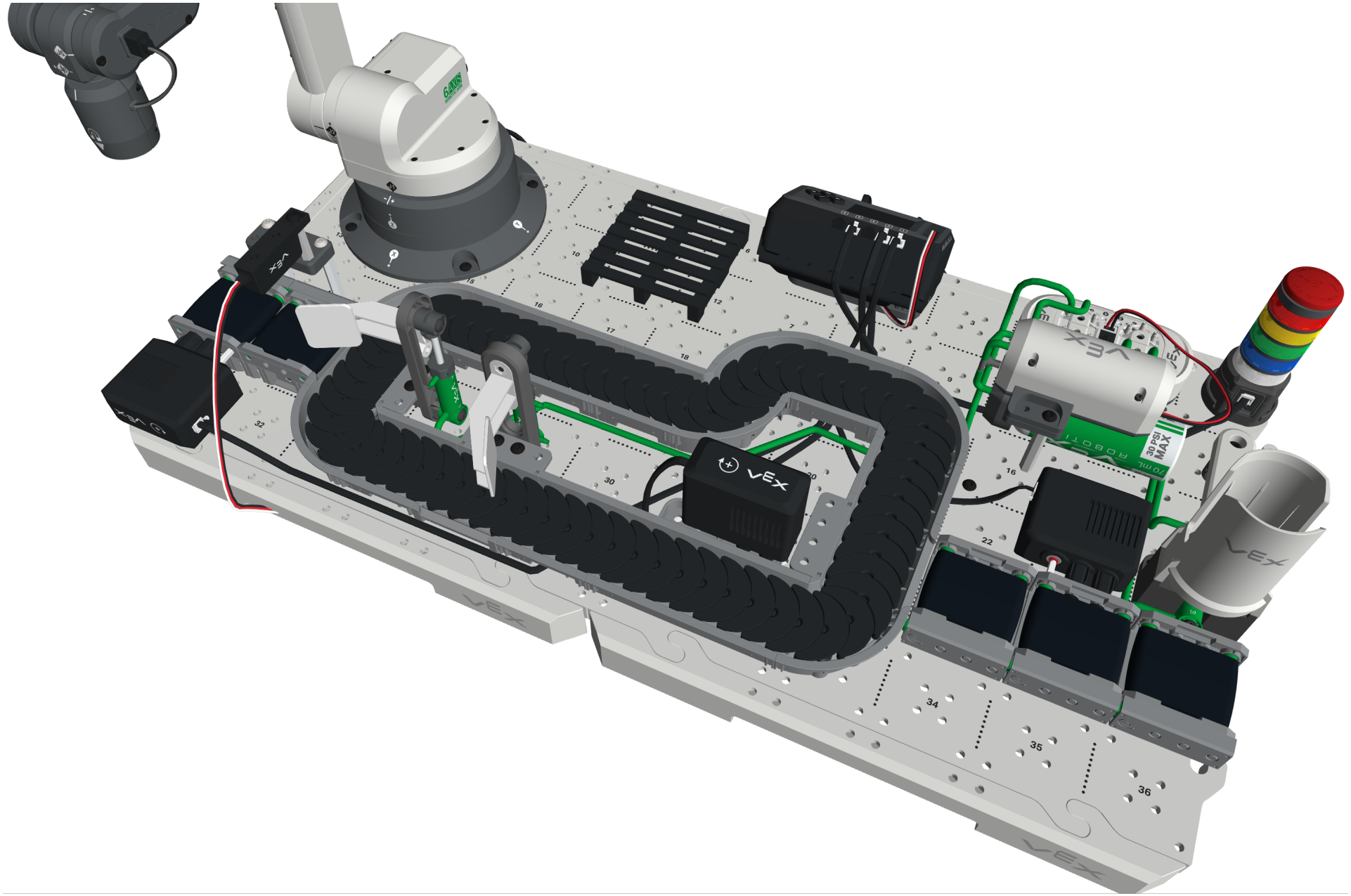

30mm
1.125 inch
2P
30 PSI MAX
70 mL

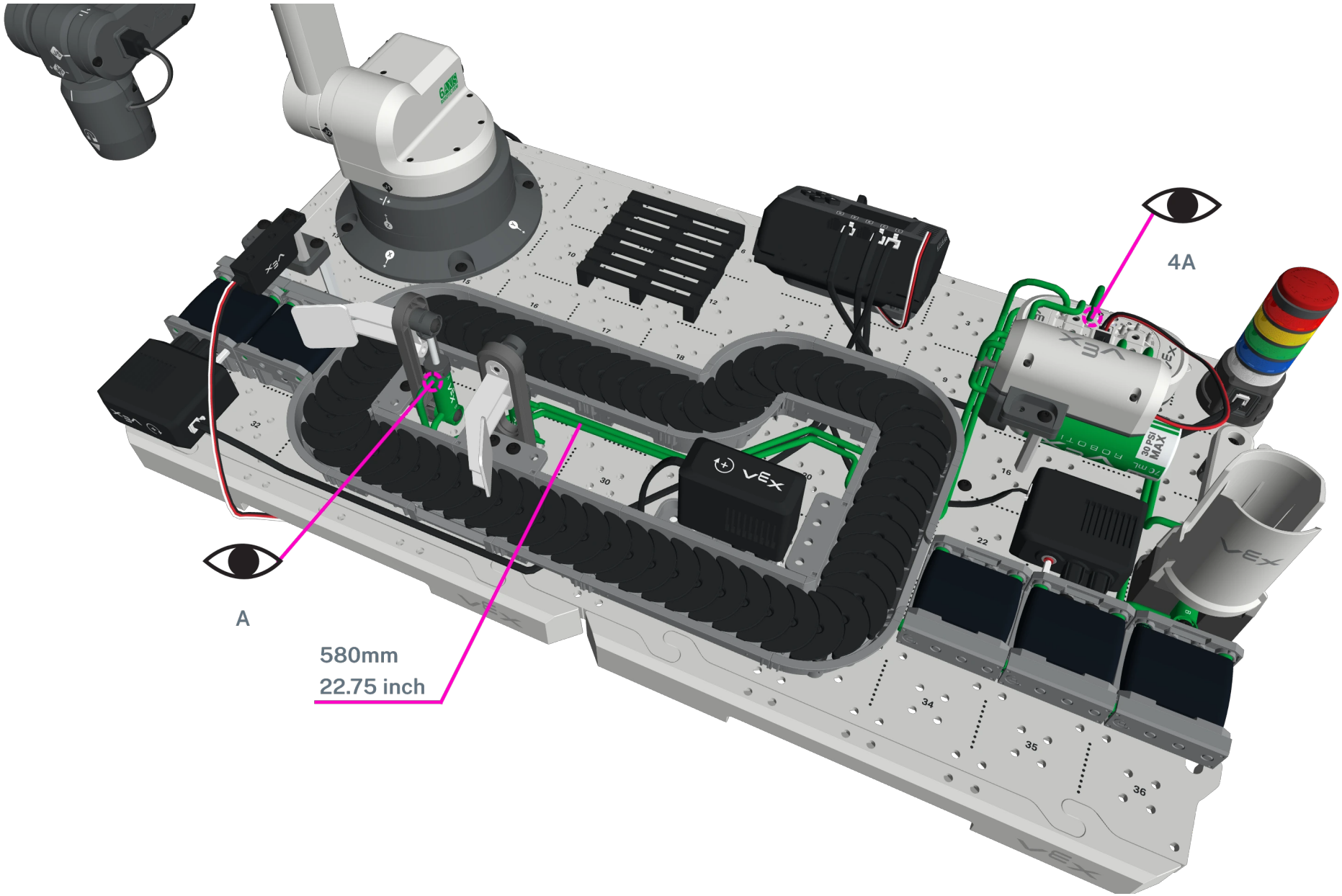

30 PSI MAX
70 mL

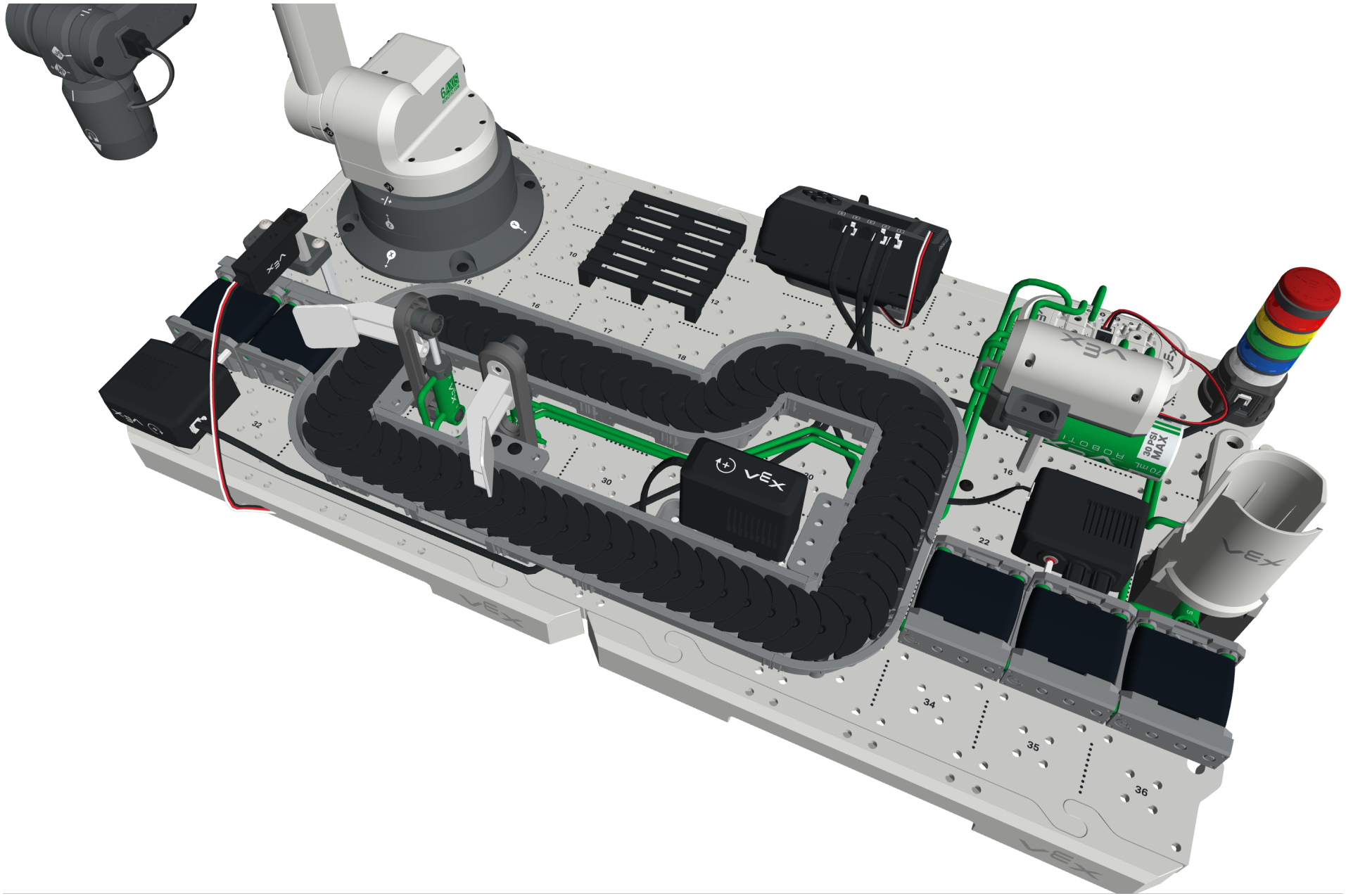

60mm
2.375 inch
4P

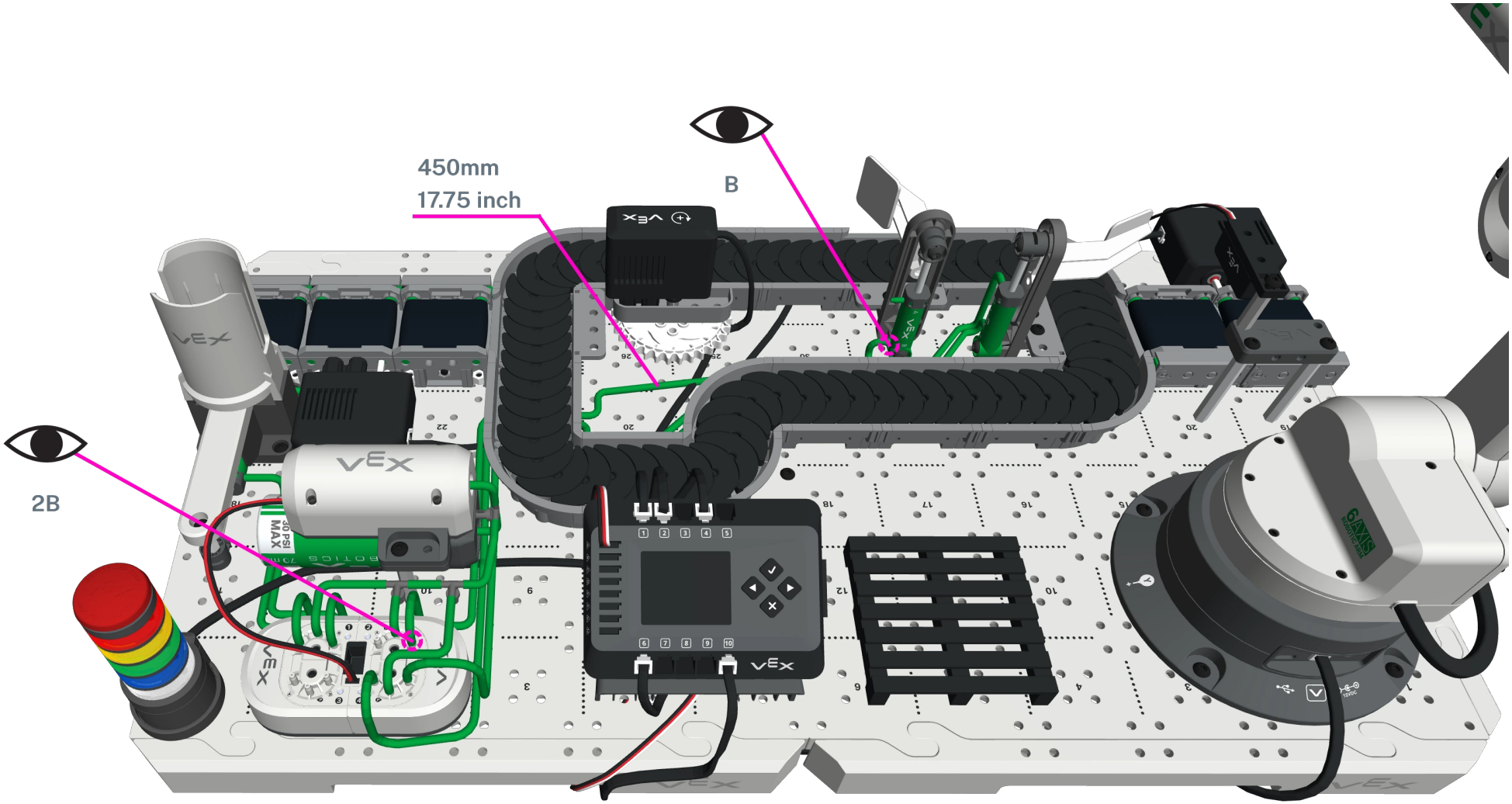

30 PSI MAX
70 mL

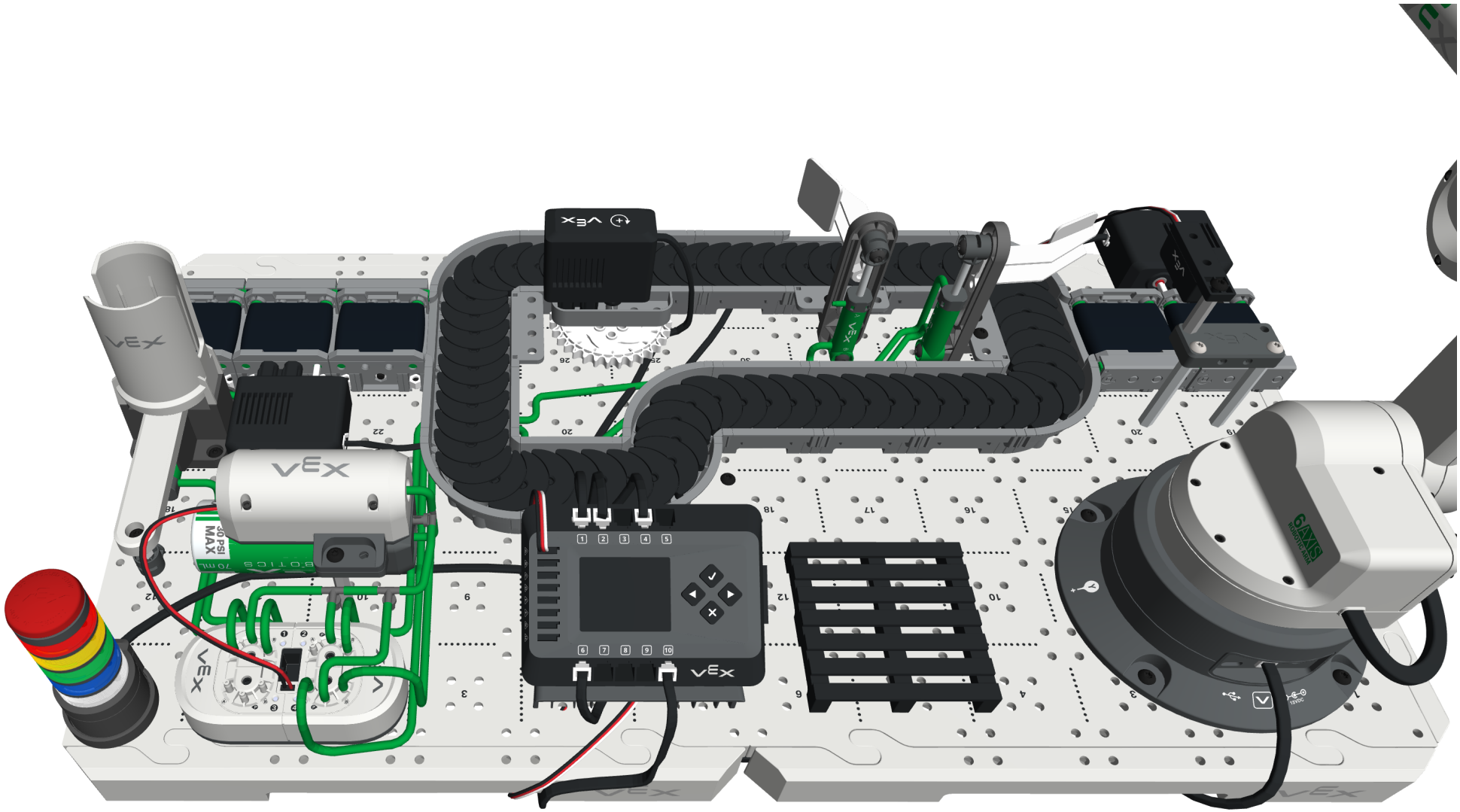

4B
B

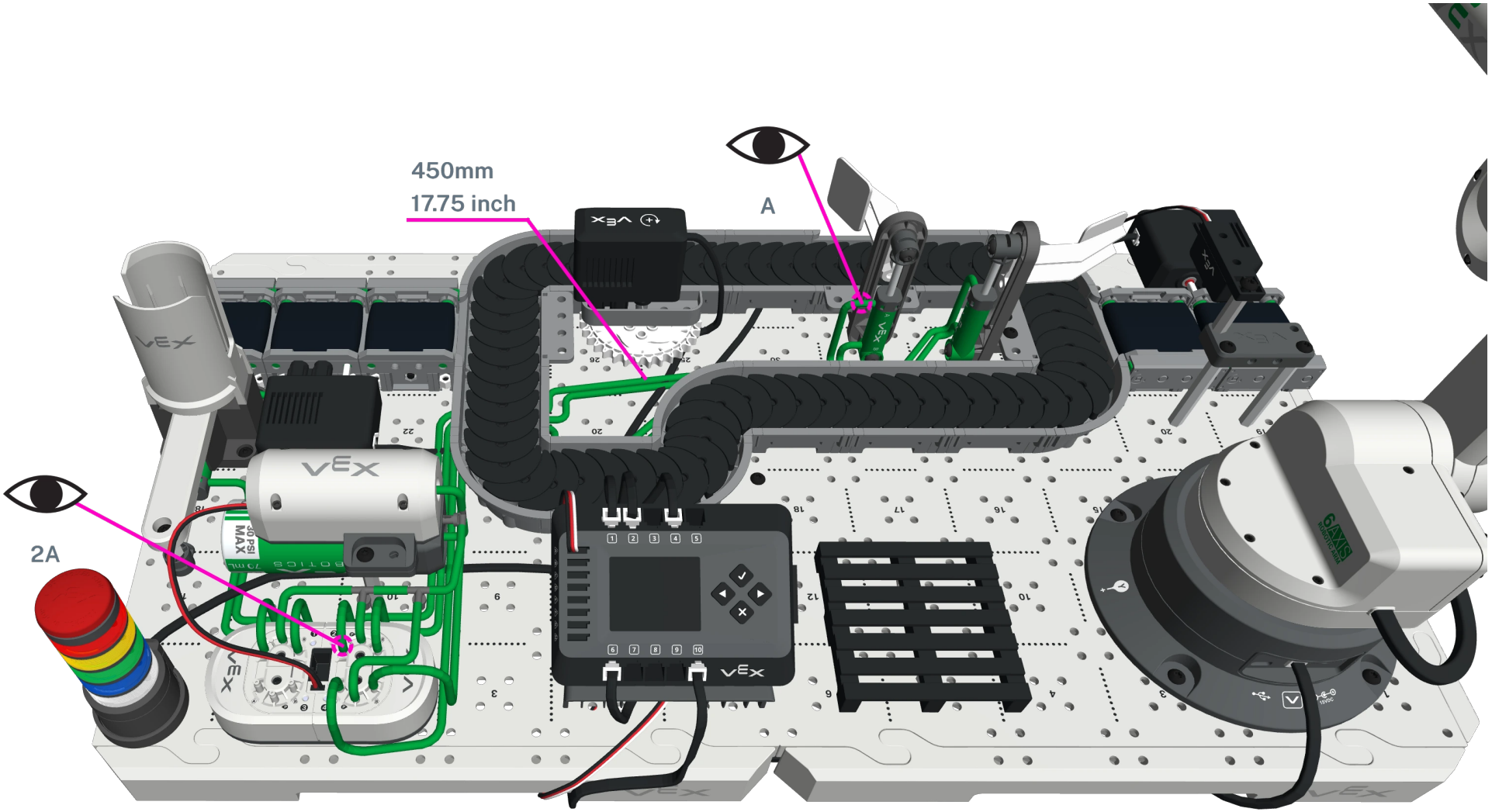

6 AXIS
VEX
VEX ROBOTICS
70ML
30 PSI MAX

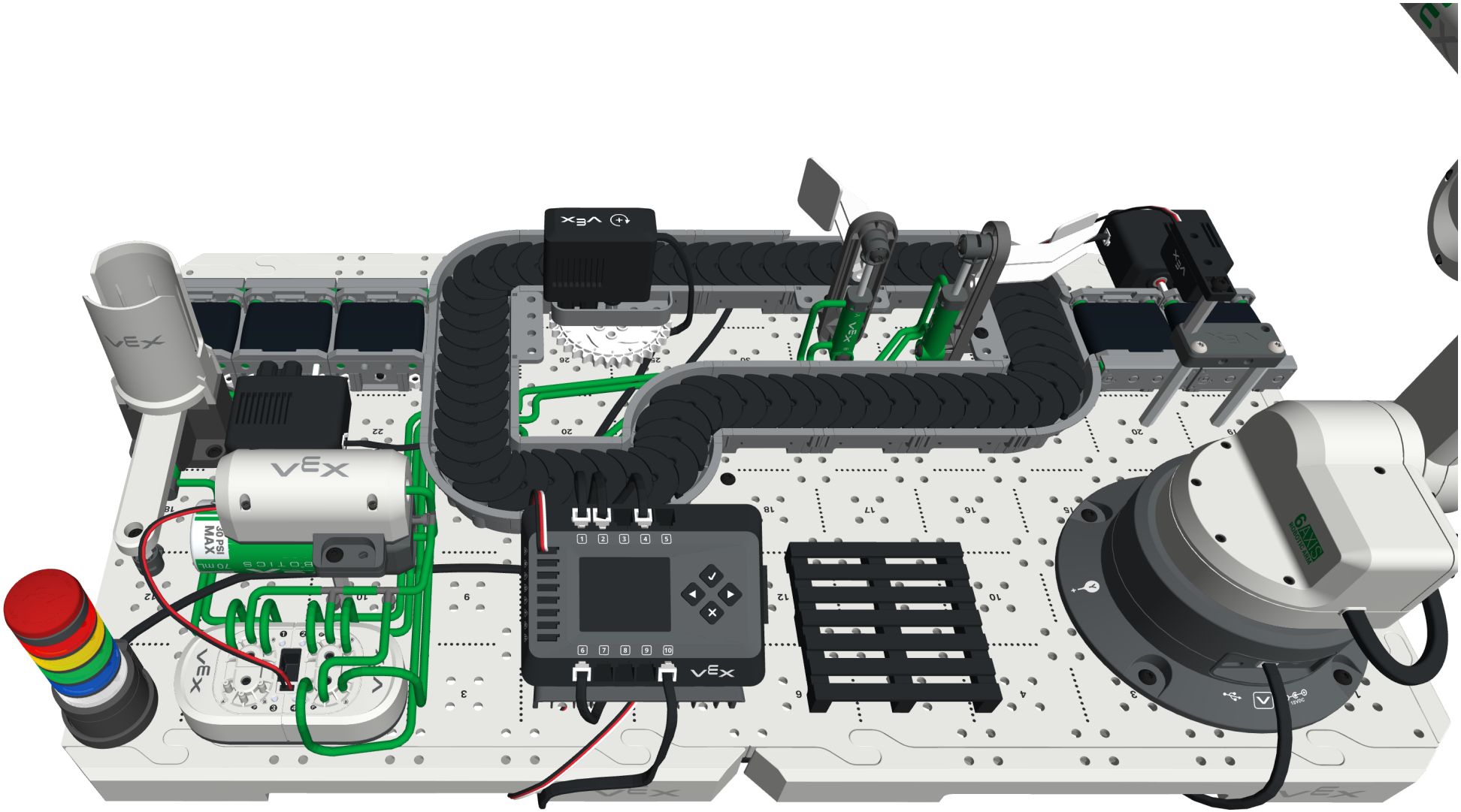

4A
A
580mm
22.75 inch

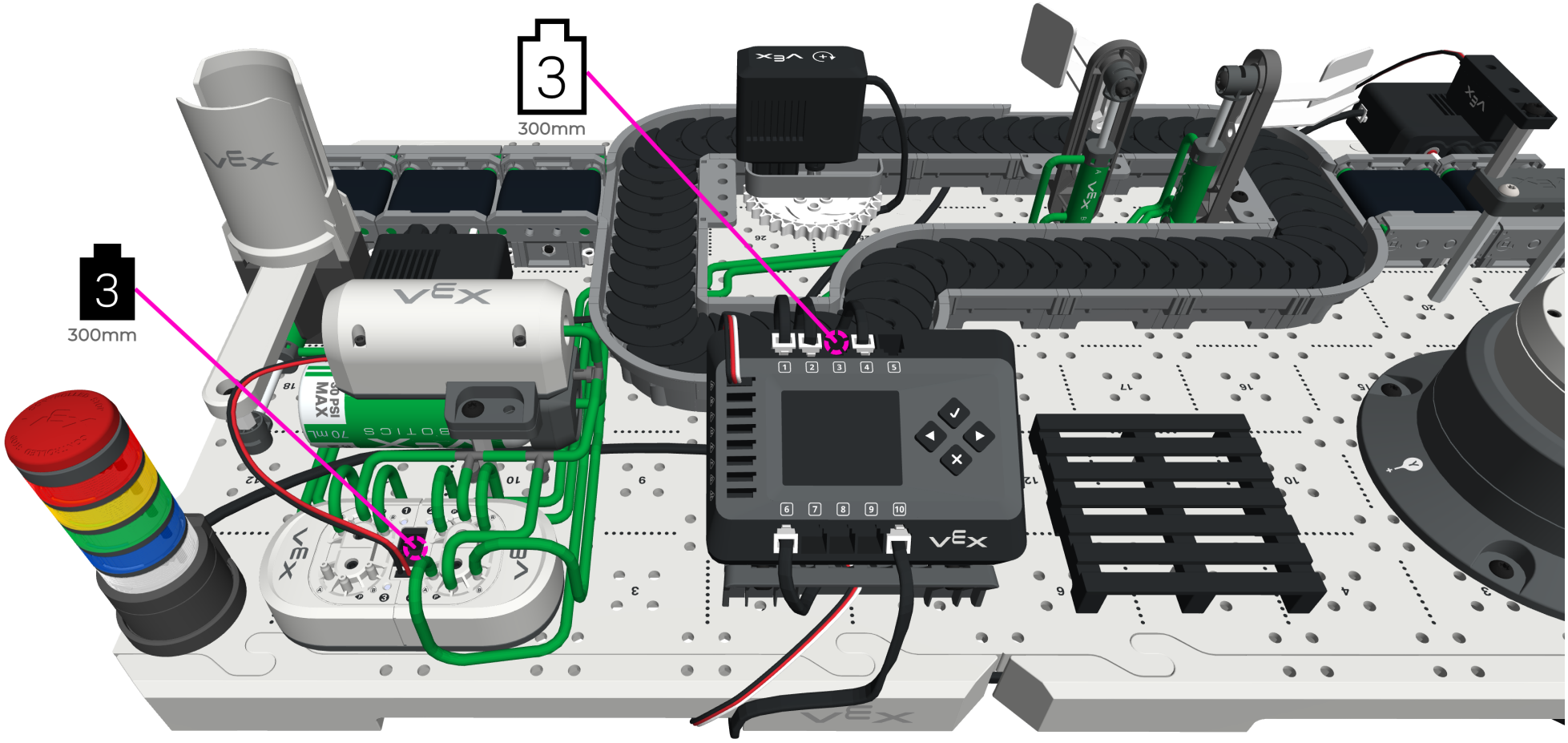

VEX
30 PSI MAX
70 mL ROBOTI


450mm
17.75 inch
B
2B

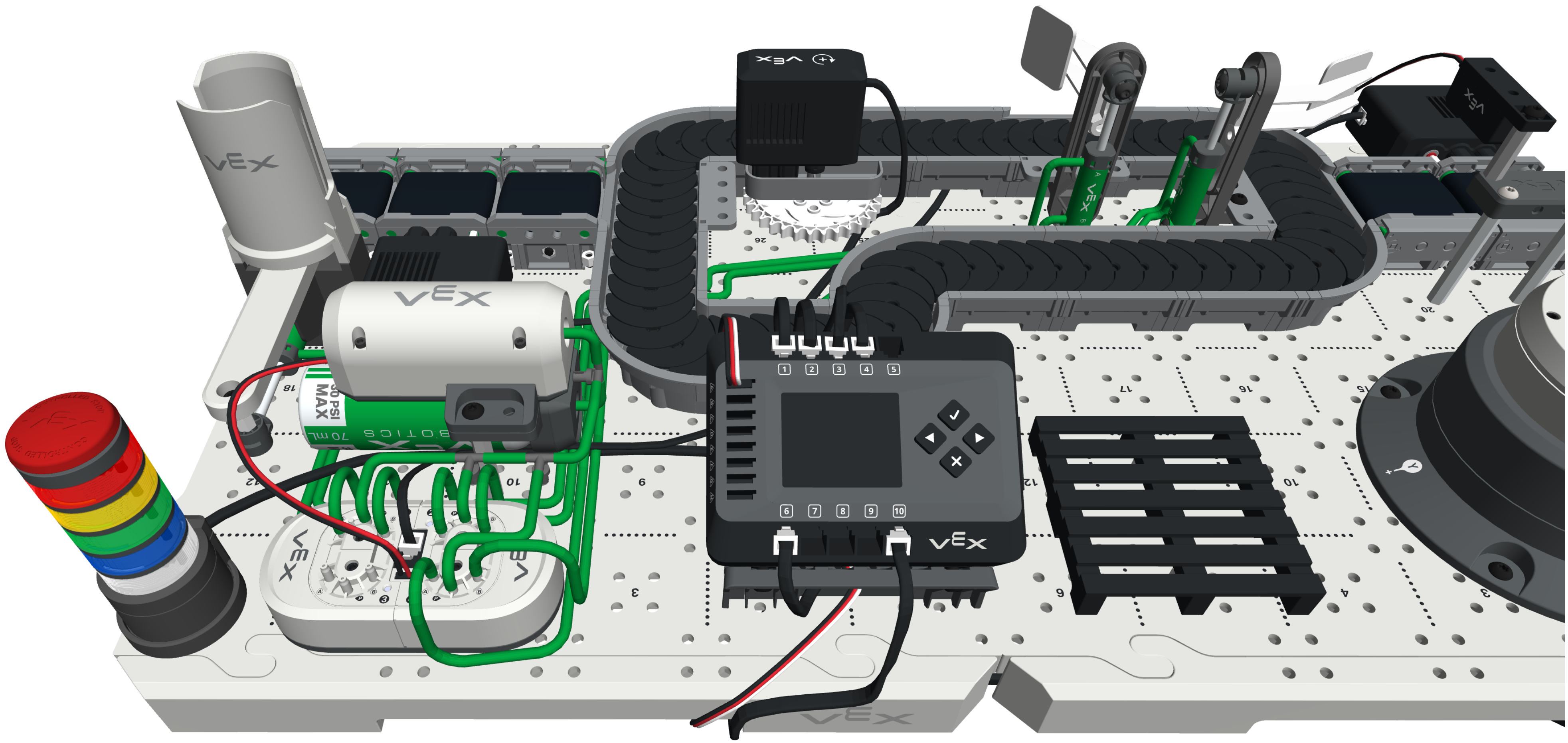

VEX
30 PSI MAX
6 AXIS ROBOTIC ARM

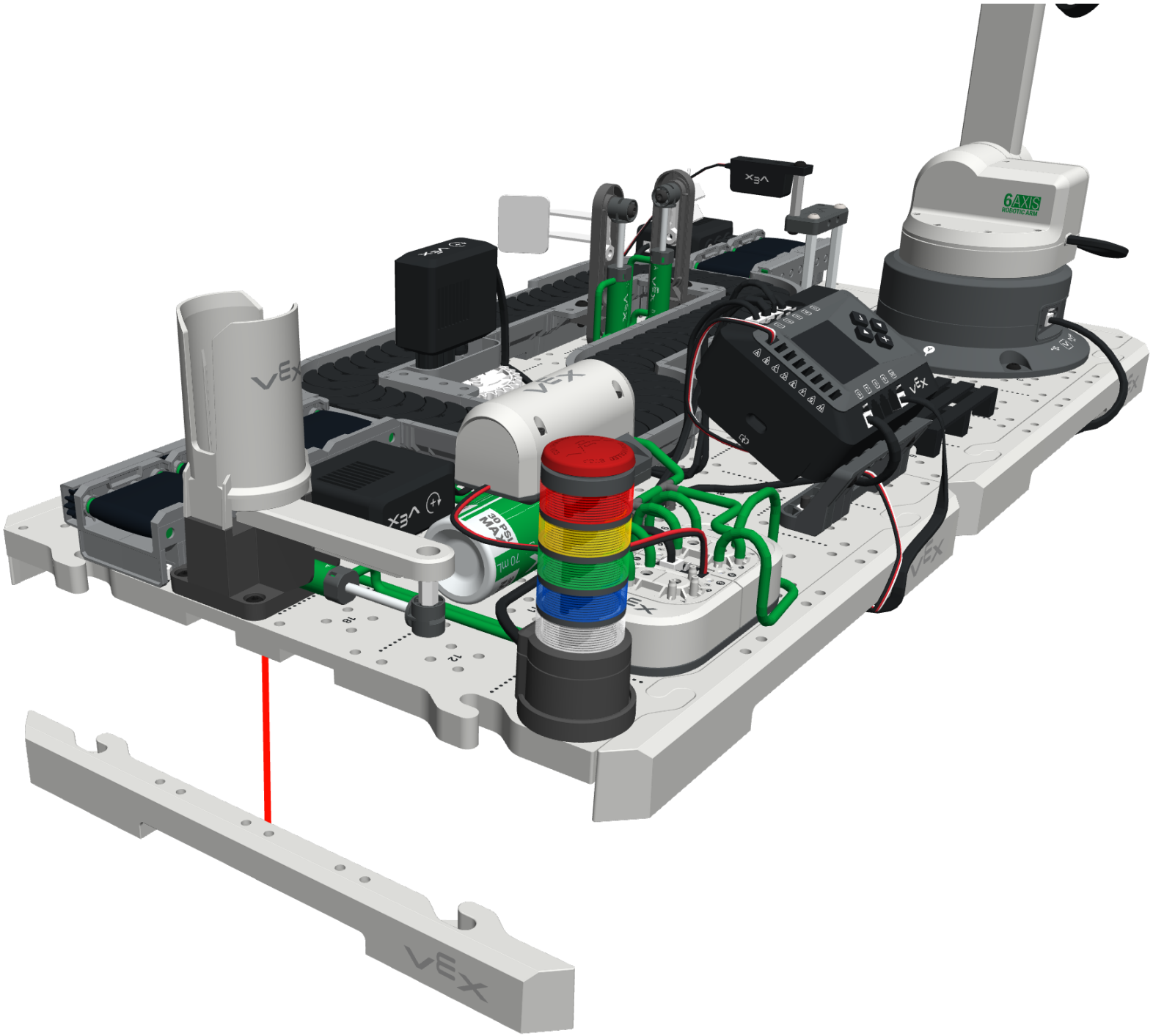

450mm
17.75 inch
A
2A

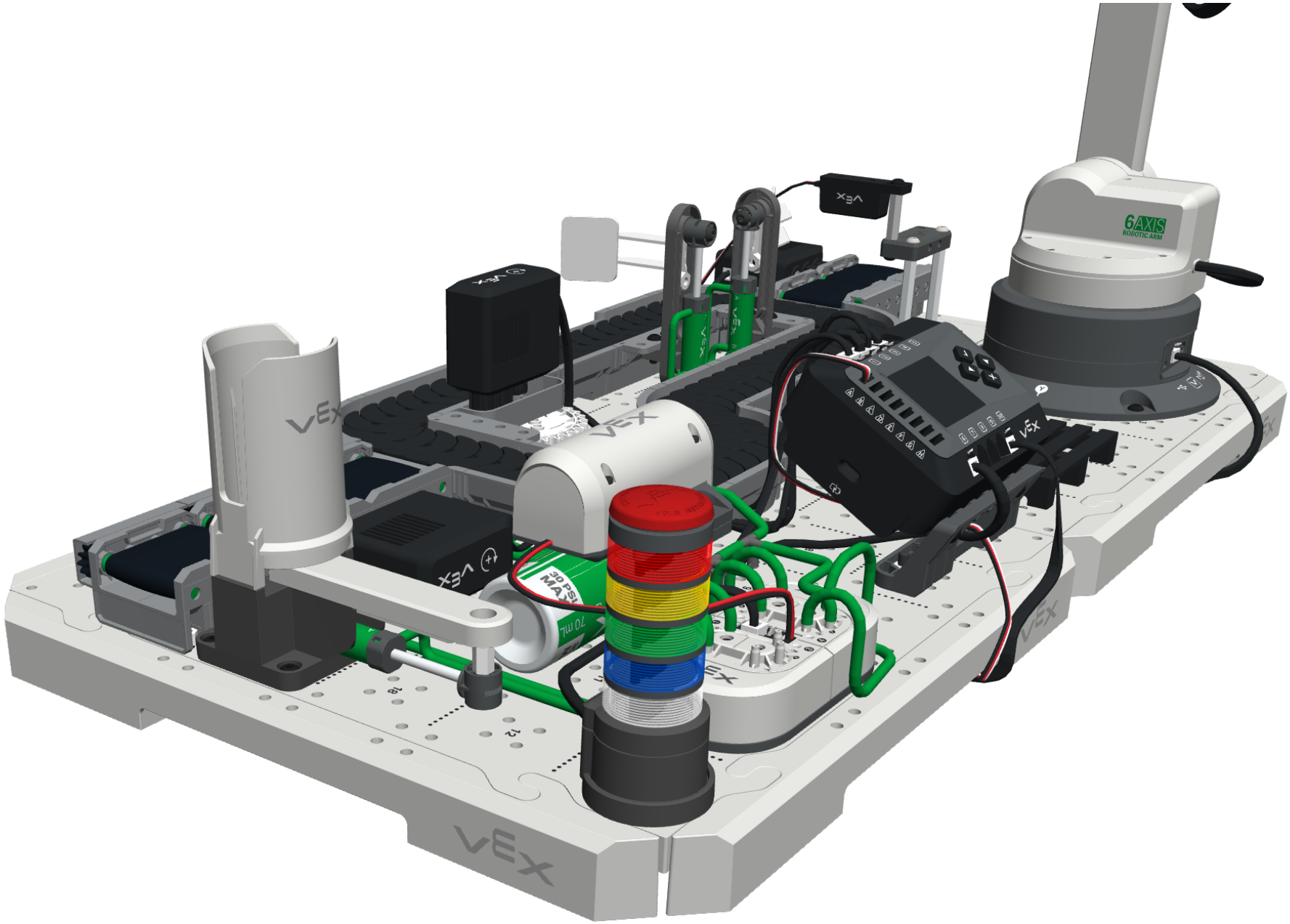

VEX
30 PSI MAX
6 AXIS

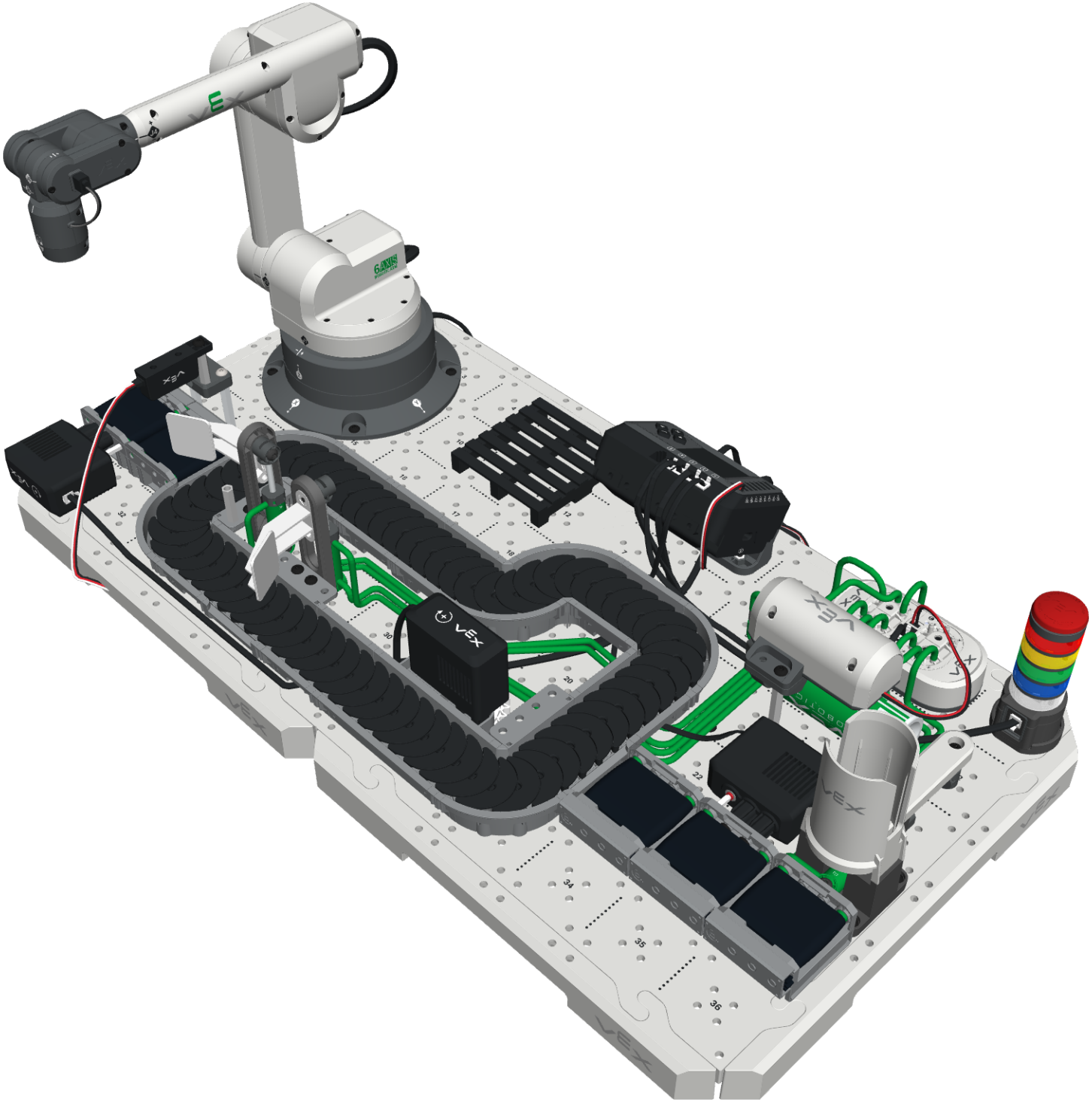

3
300mm
3
300mm

58




6 AXIS
ROBOTIC ARM


6AXIS
ROBOTIC ARM


VEX
6 AXIS