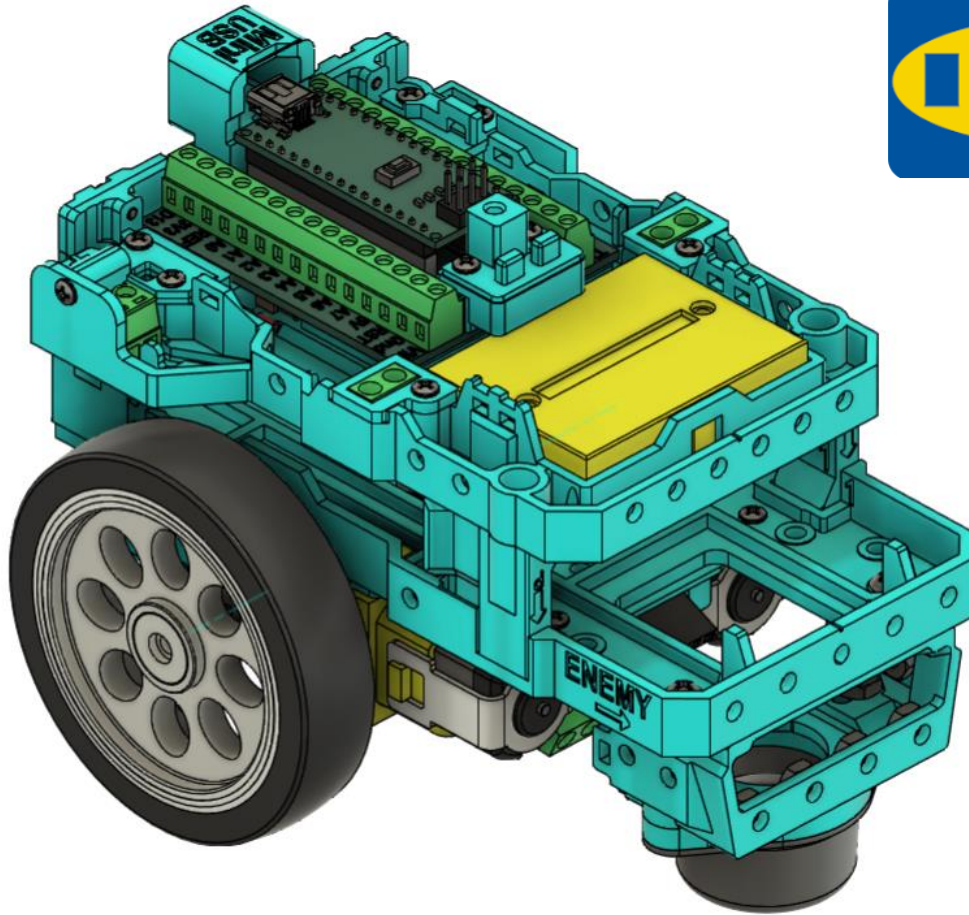
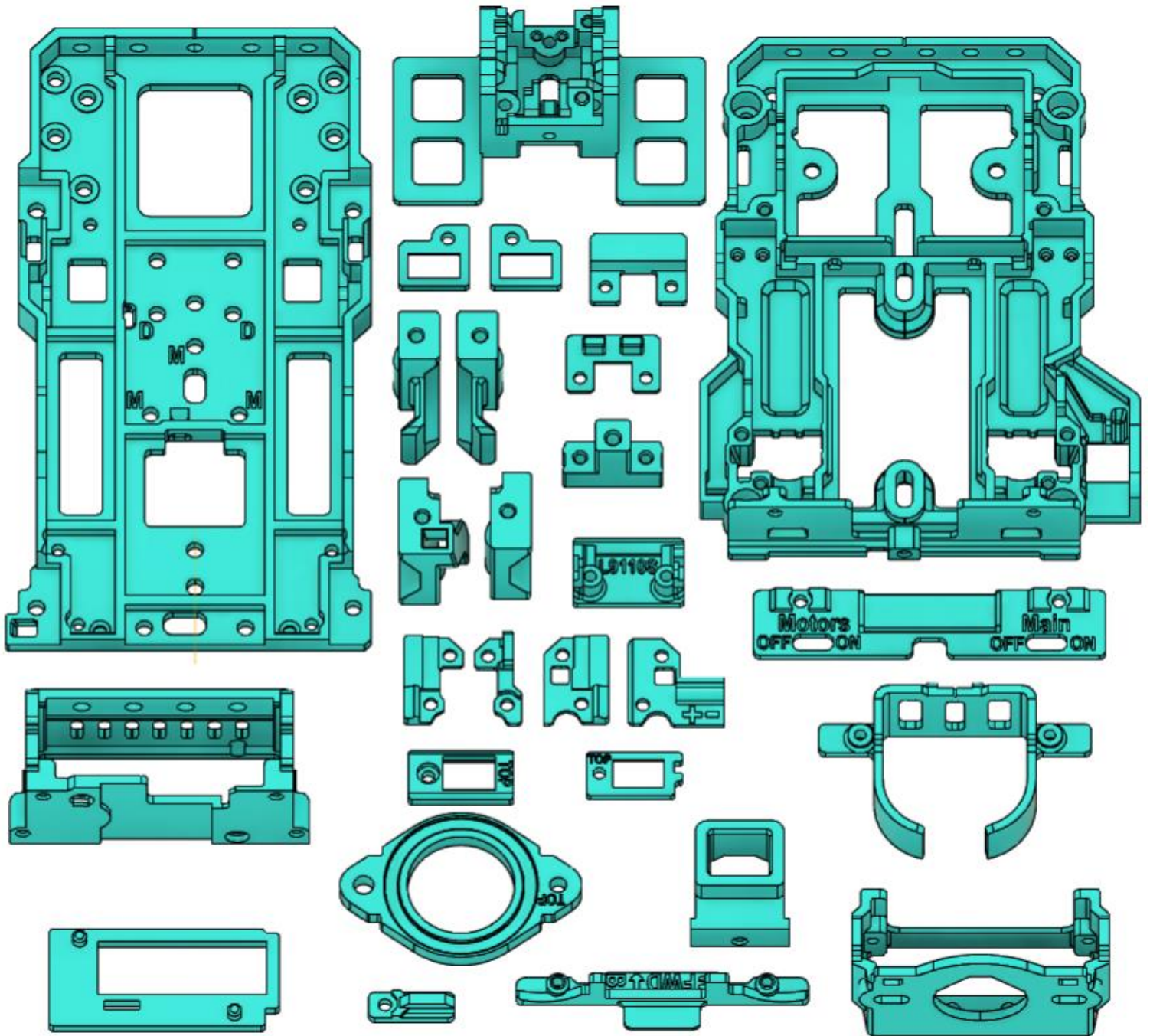
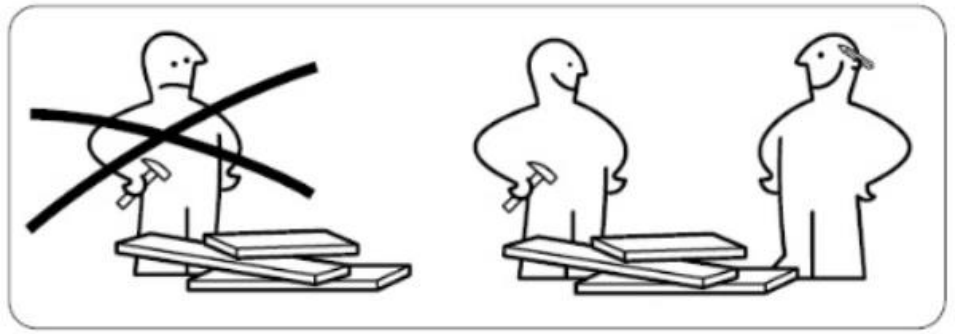
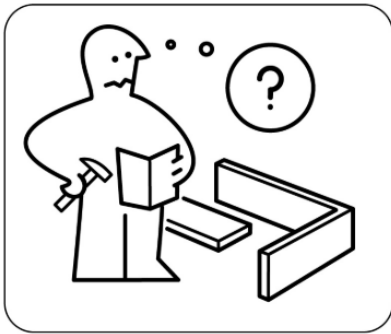
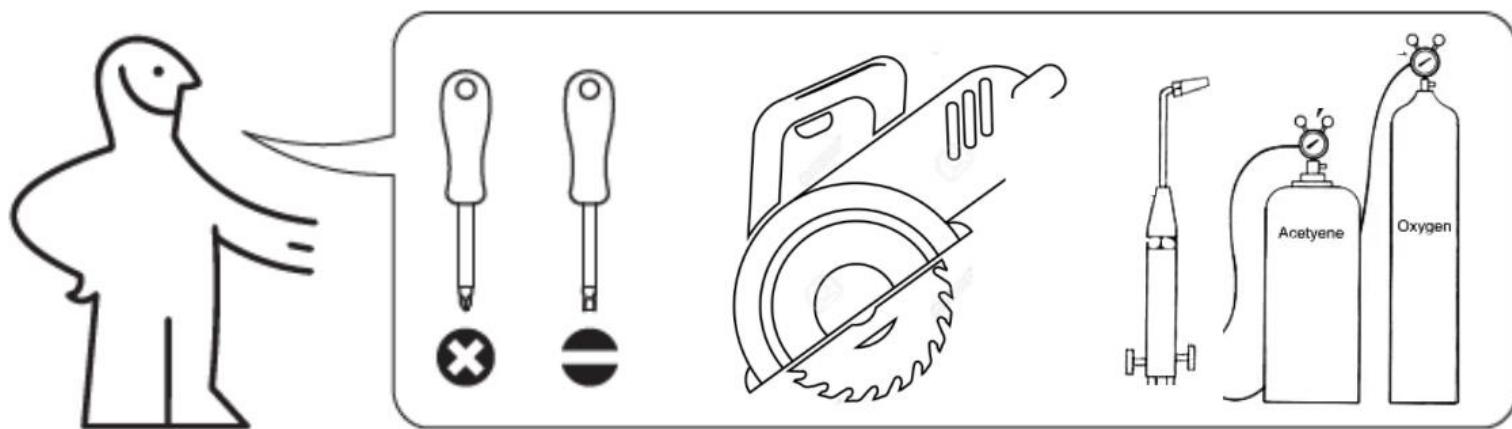


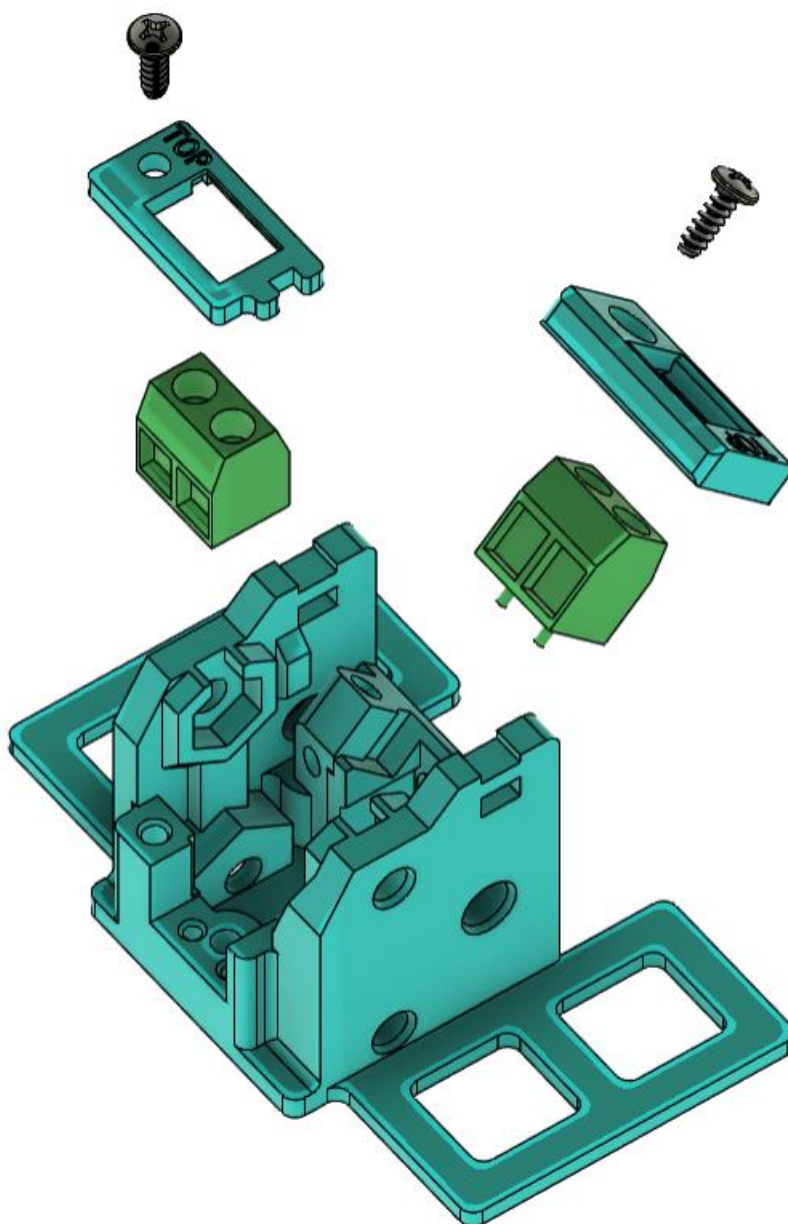
Hårdvara för pedagogiskt robotsystem



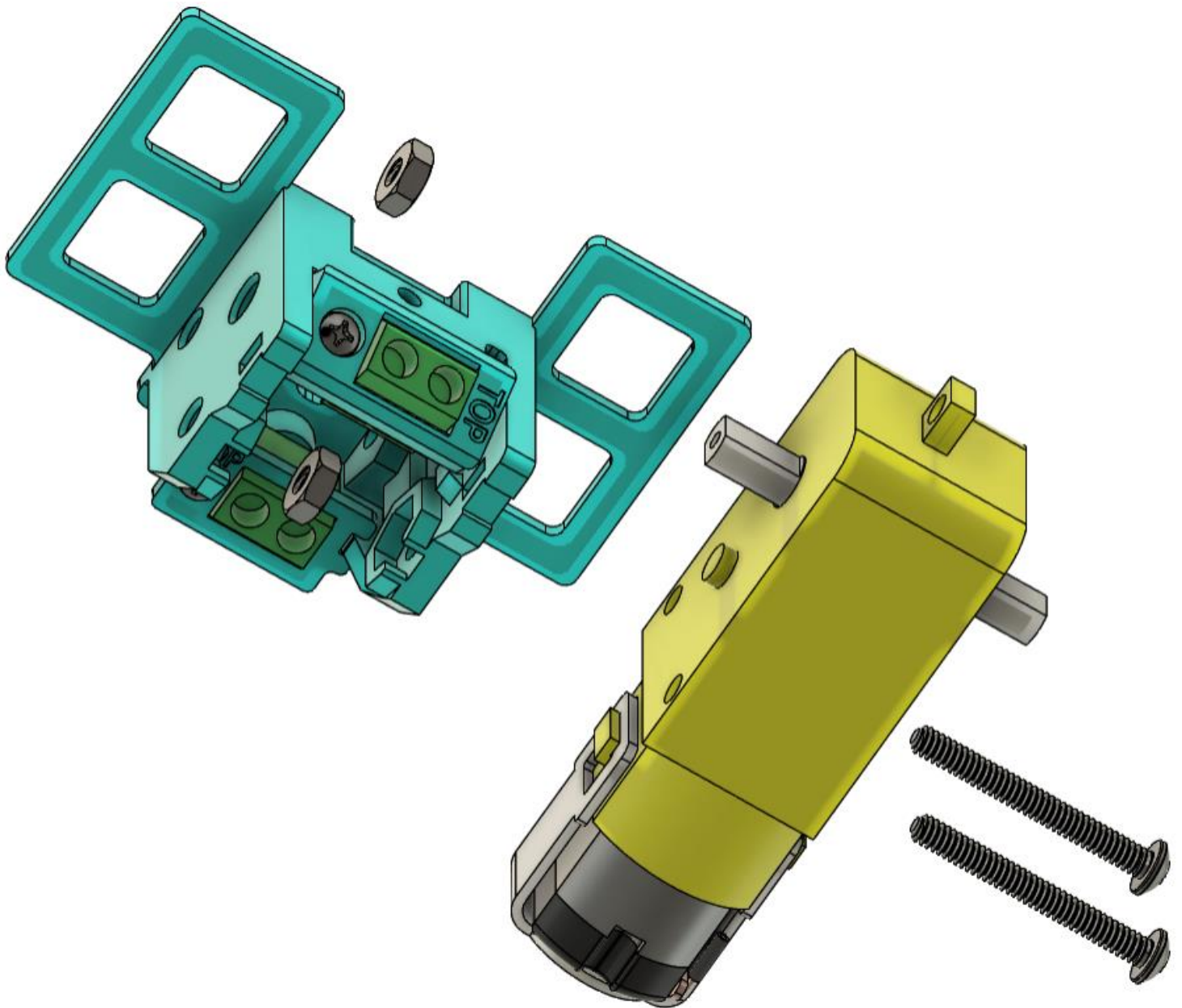




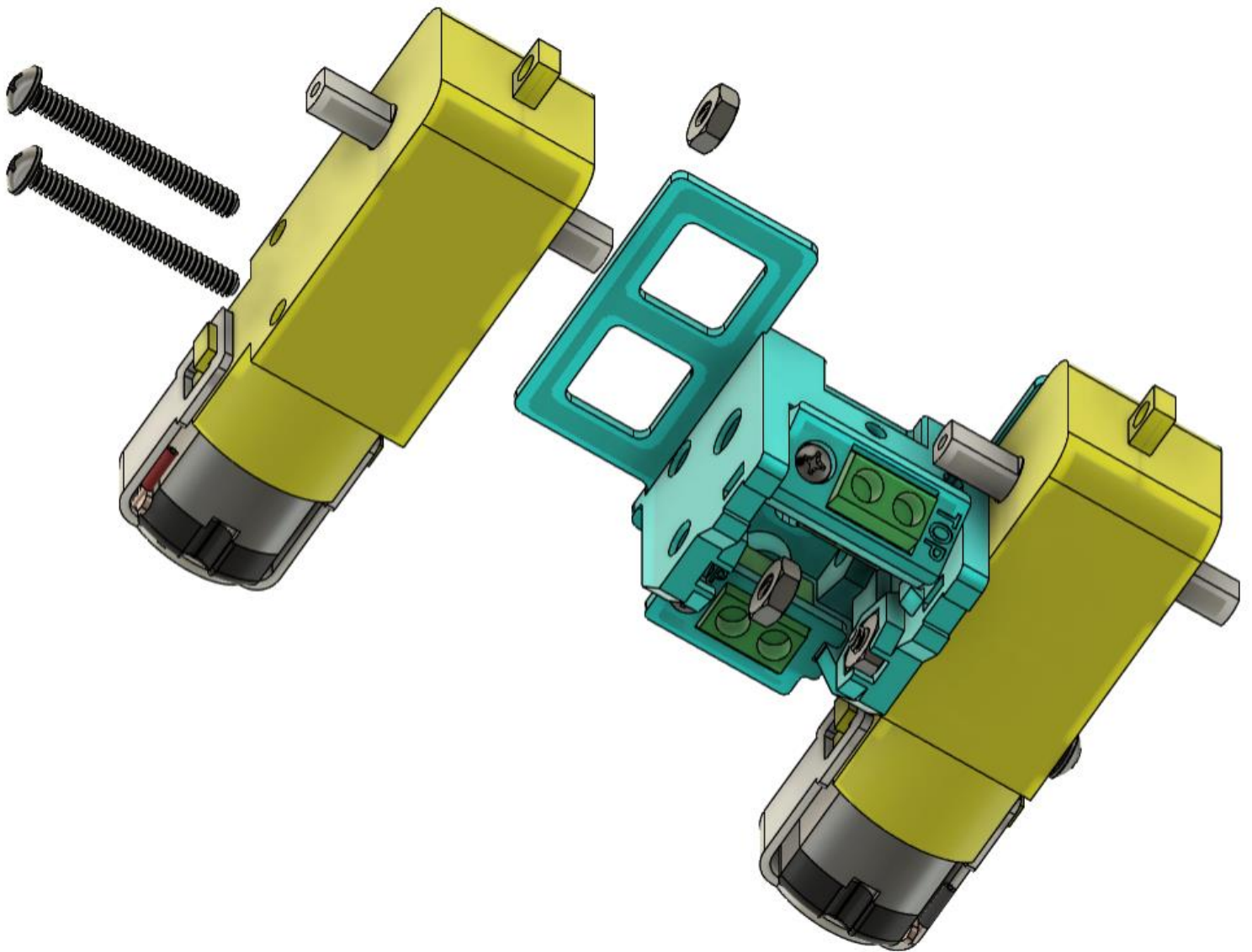
kopplingsplintar för motorstyrning



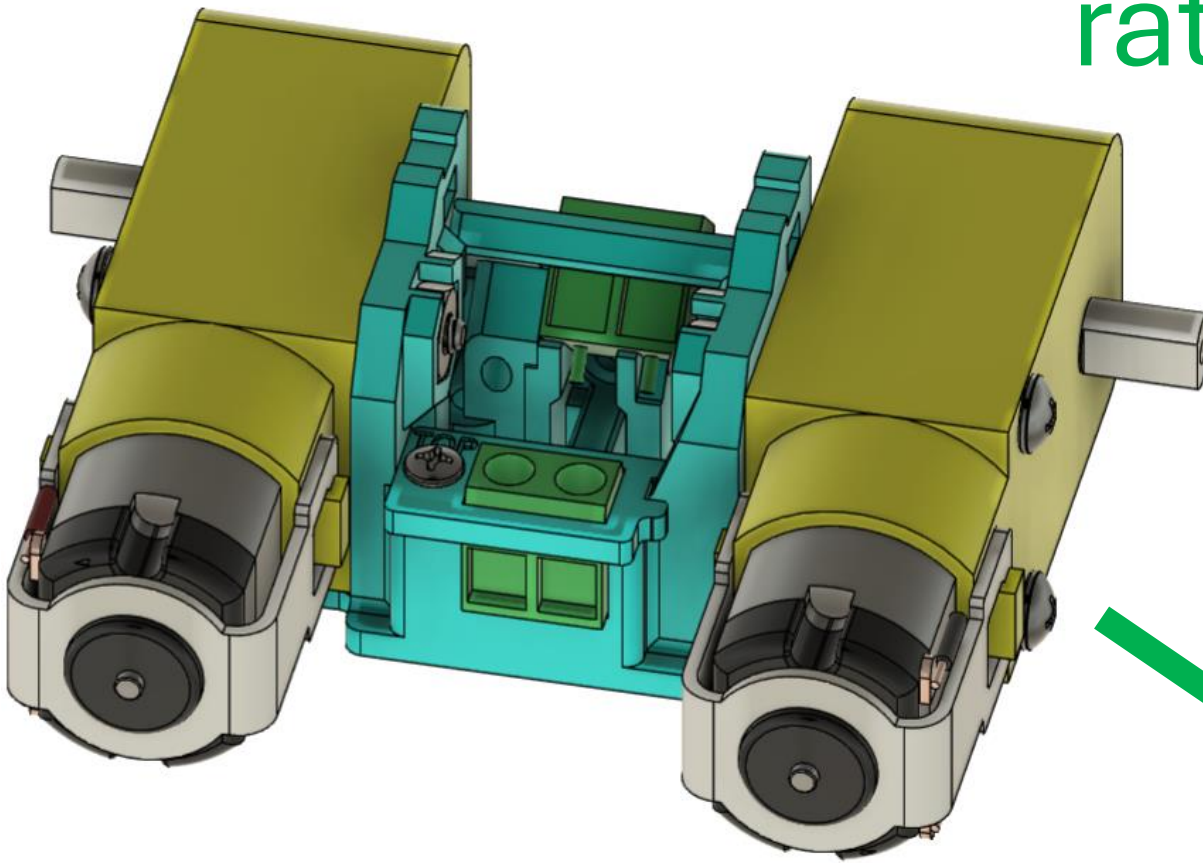
Drivmotor för ställdon vänster



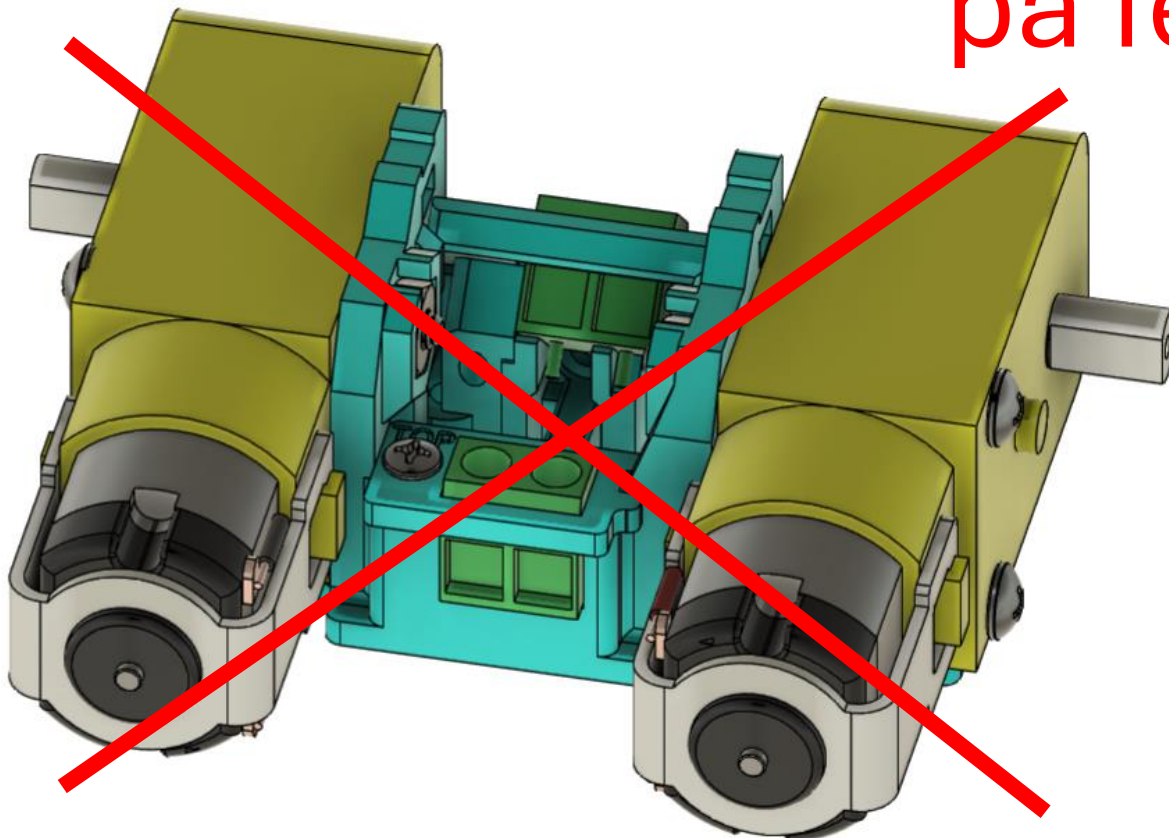
Drivmotor för ställdon höger



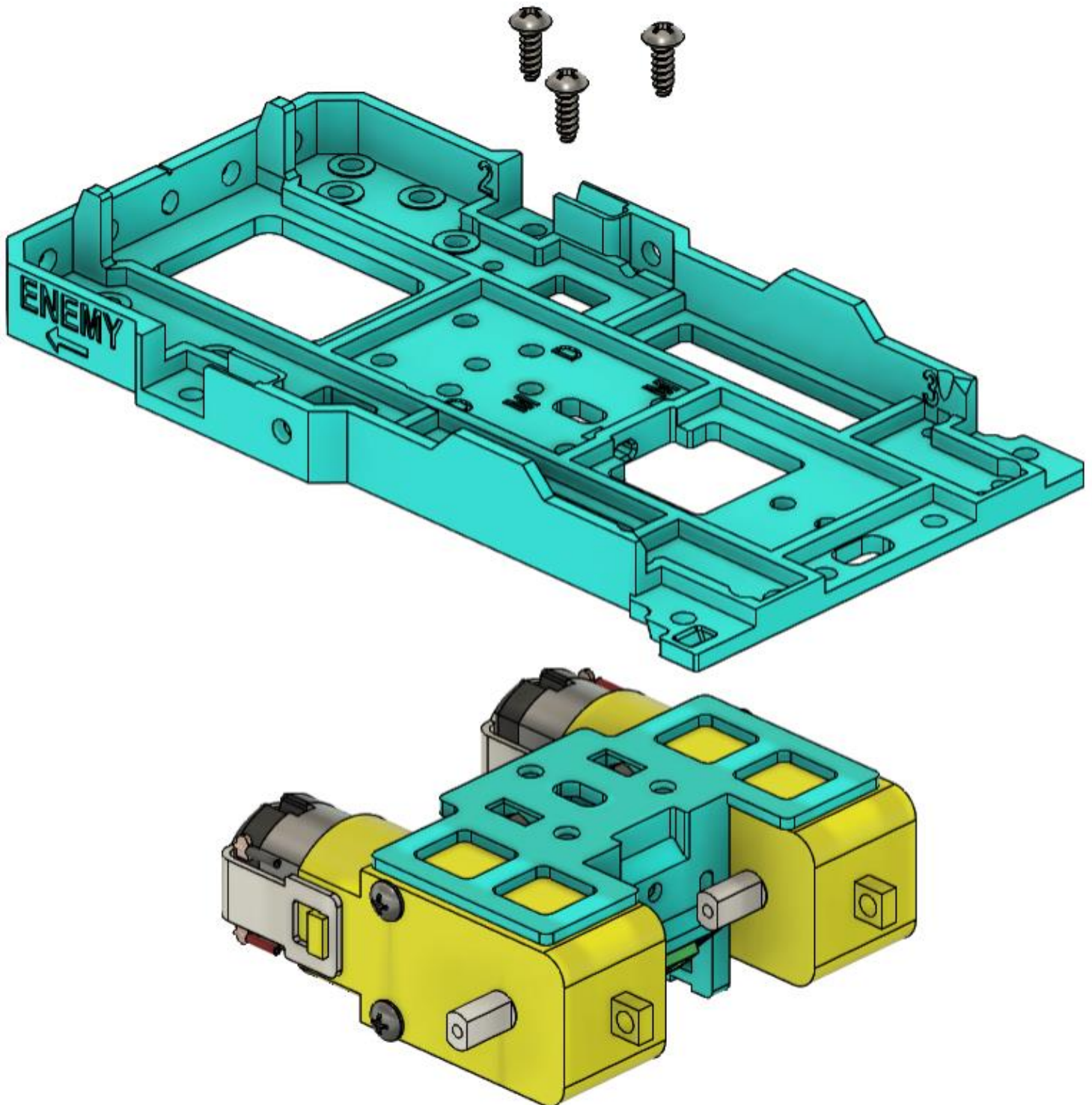
rätt sätt



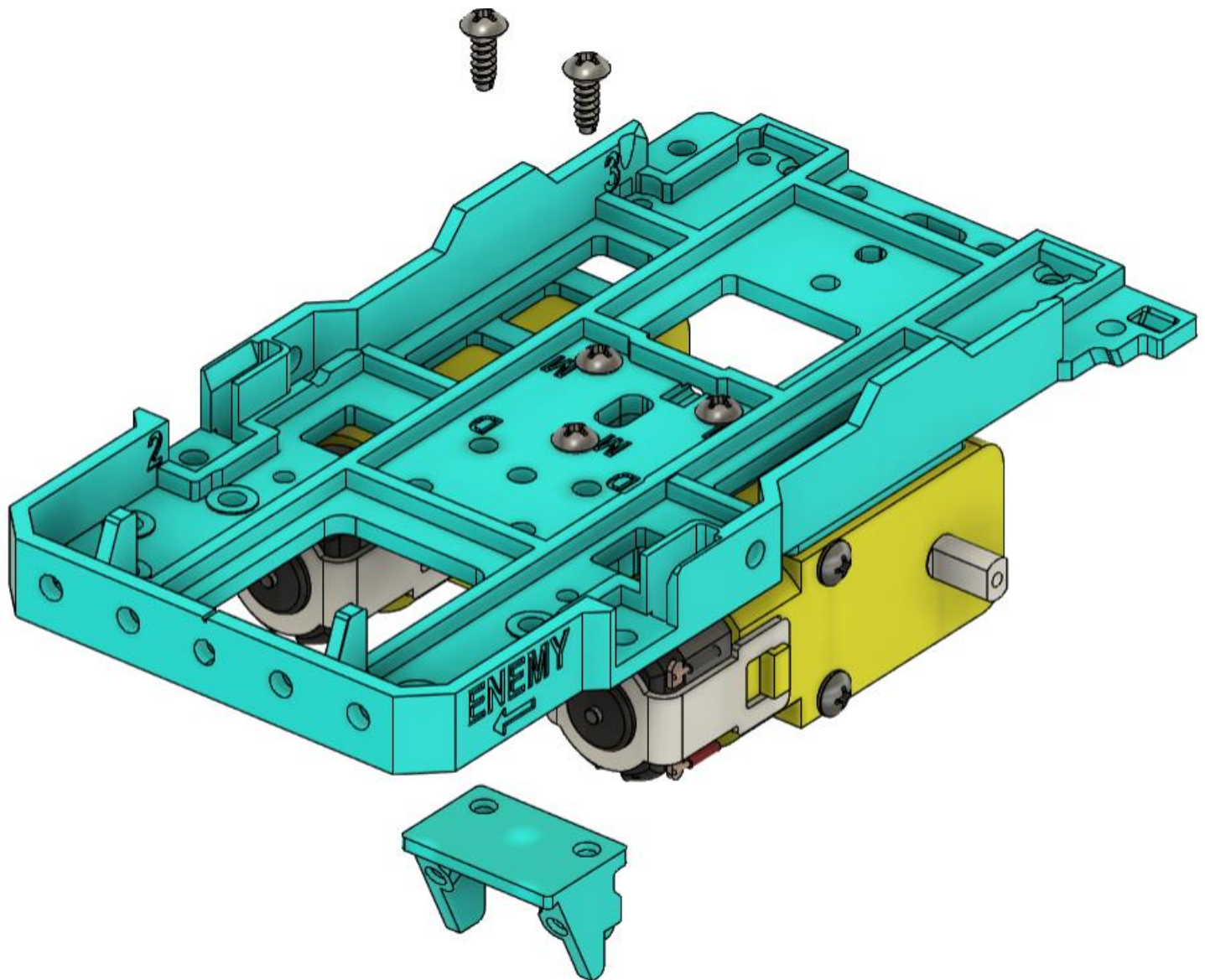
på fel sätt



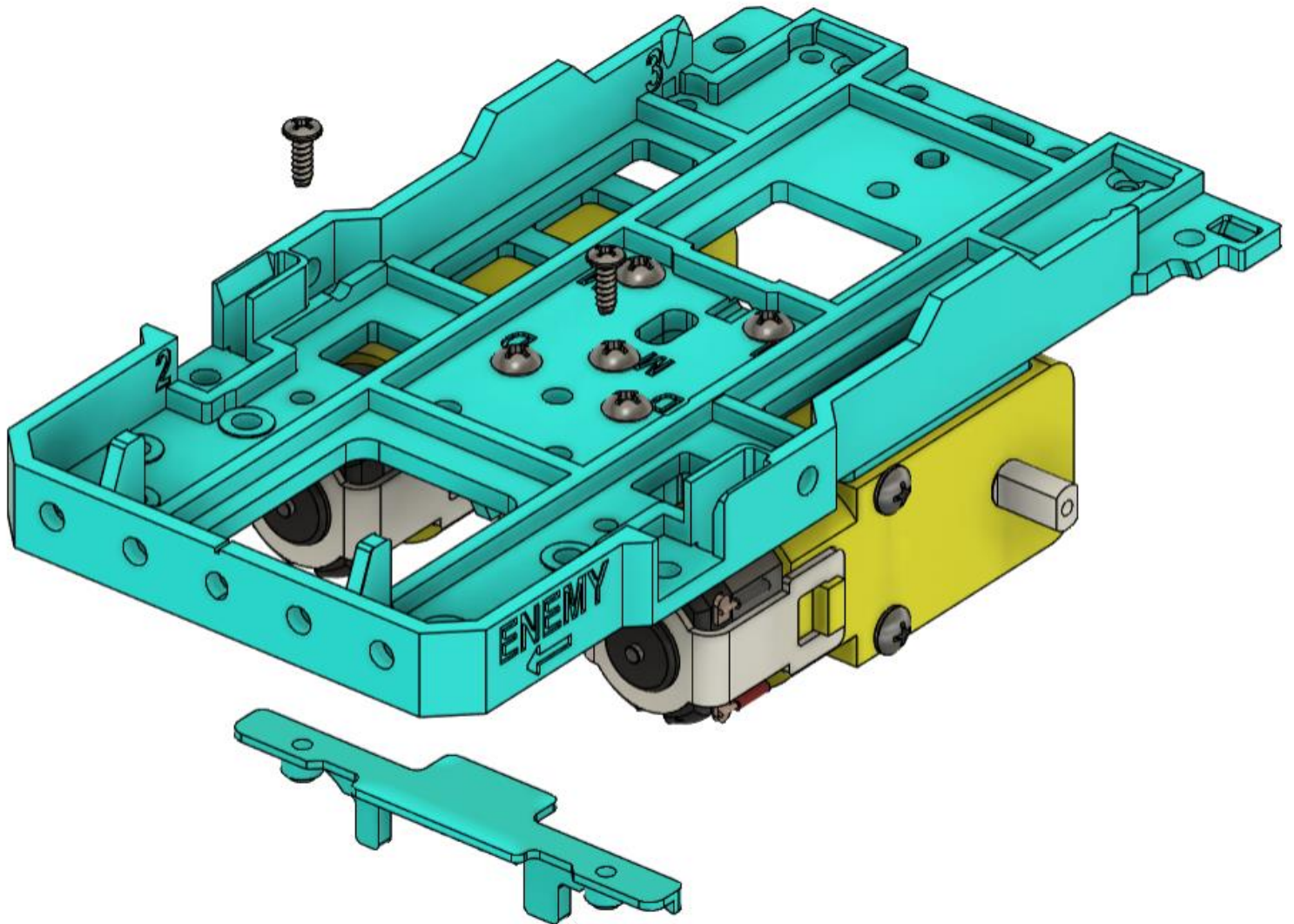
Montering av motorenheten på basen



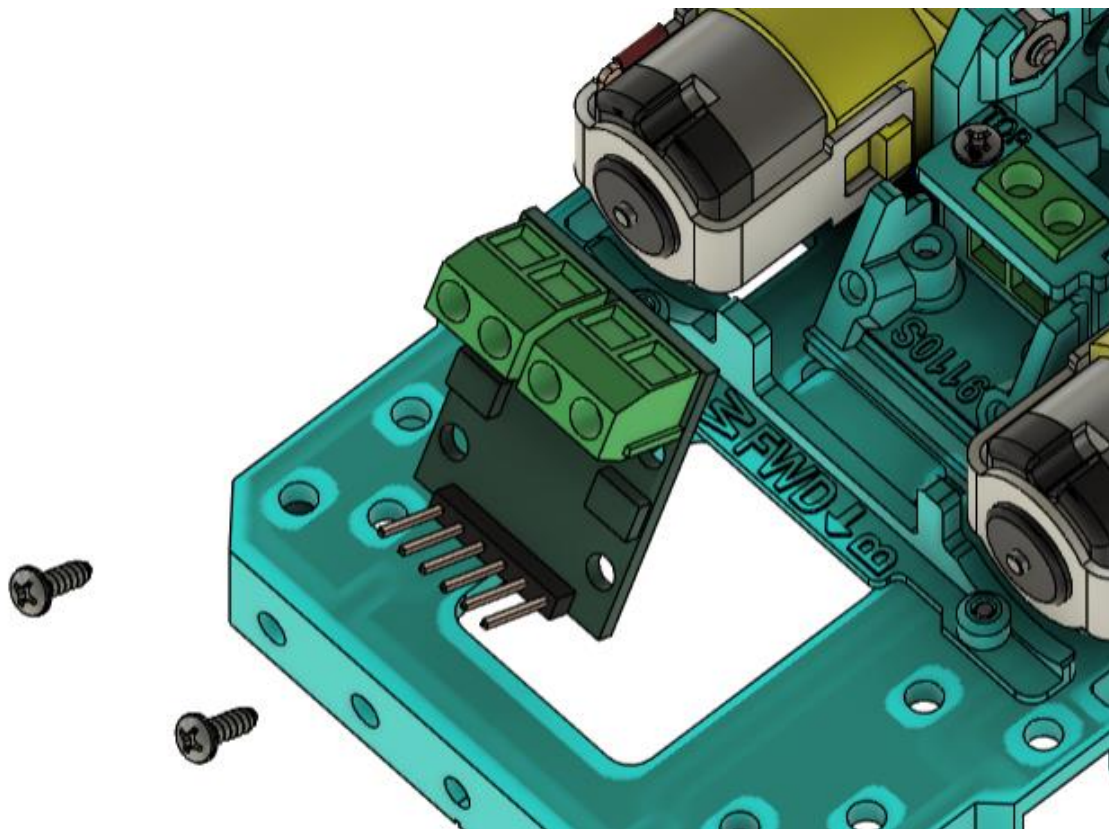
Fäste för motordrivsteg monterat på basen



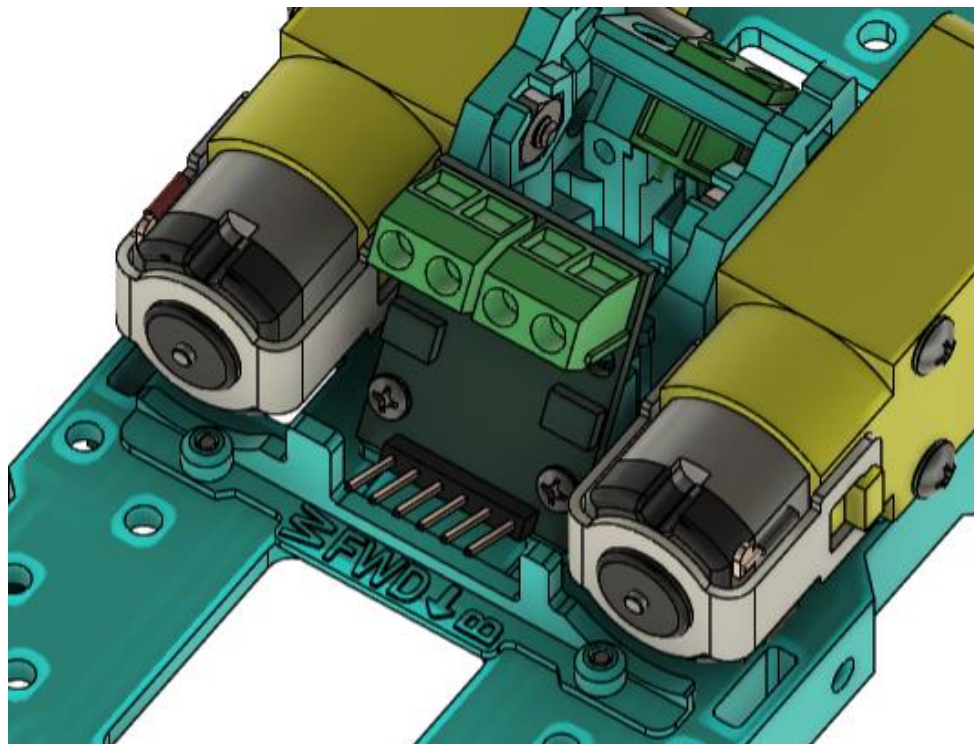
Trådledare monterad på basen



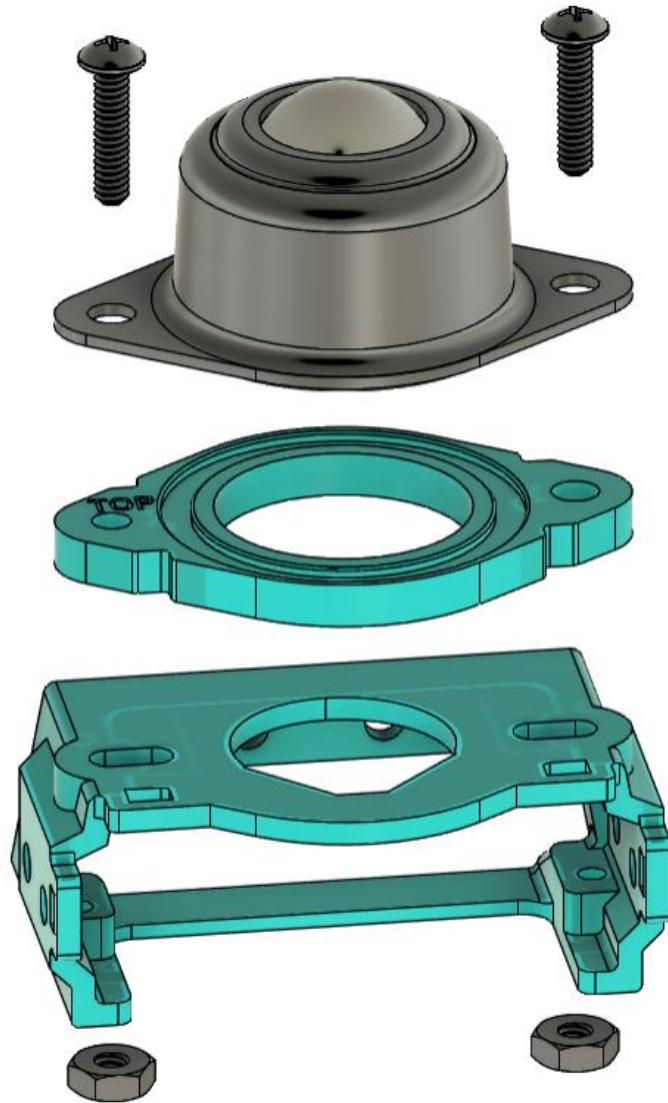
Motordrivsteg monterat på fästet



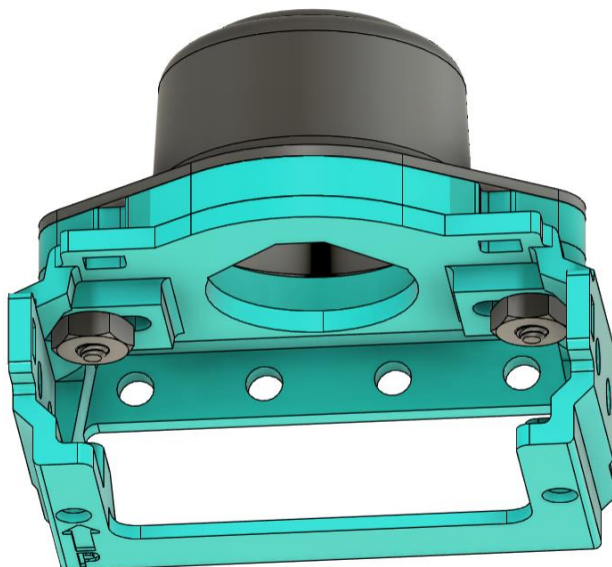
Resultat



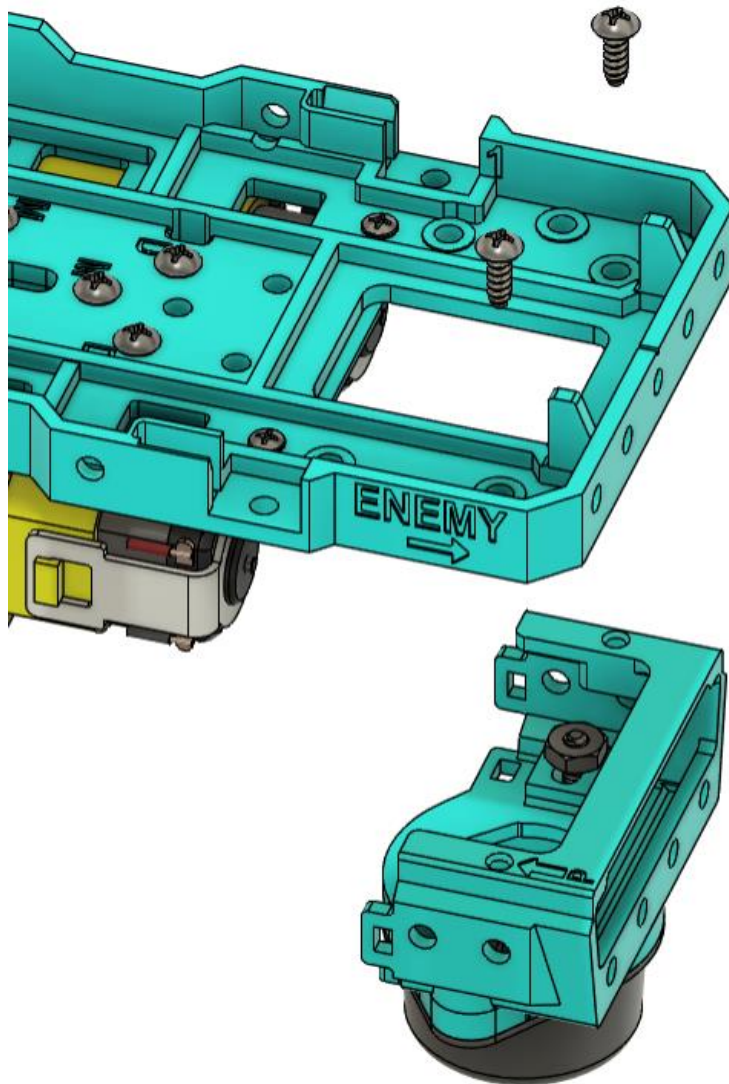
Svänghjulsenhet



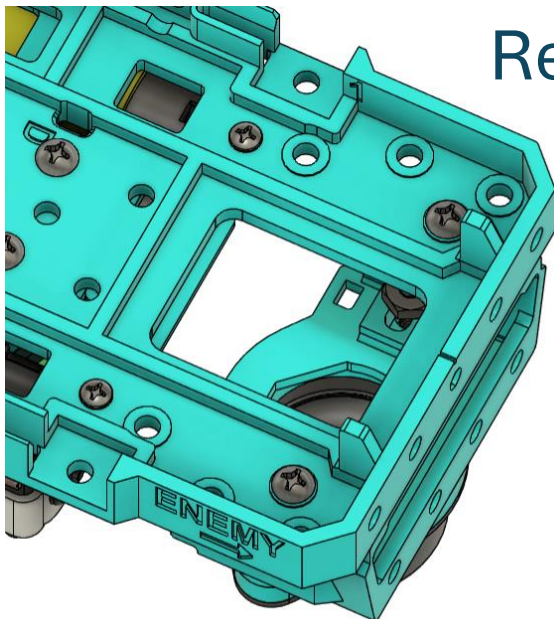
Resultat



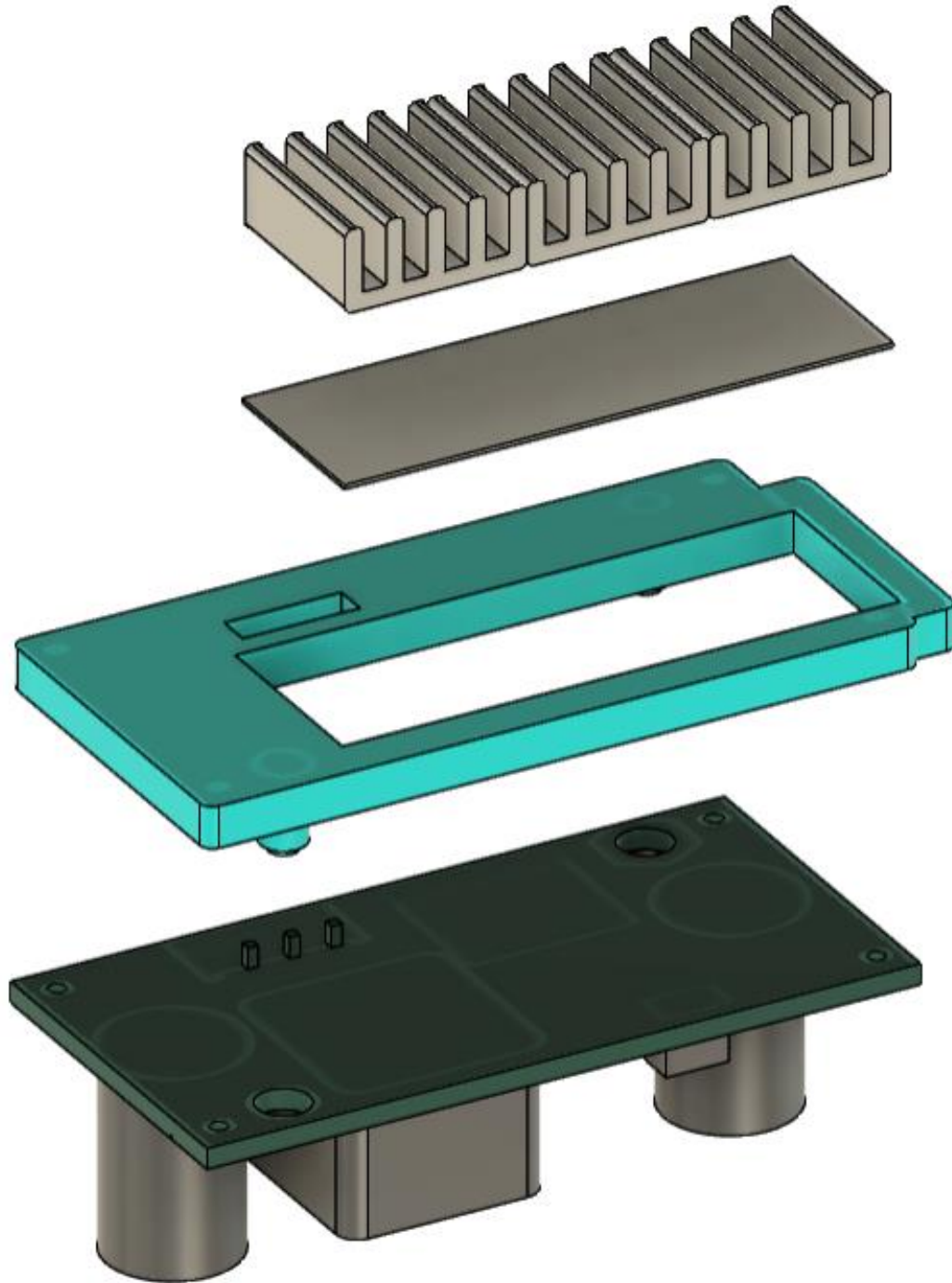
Montering av länkhjulsmodulen



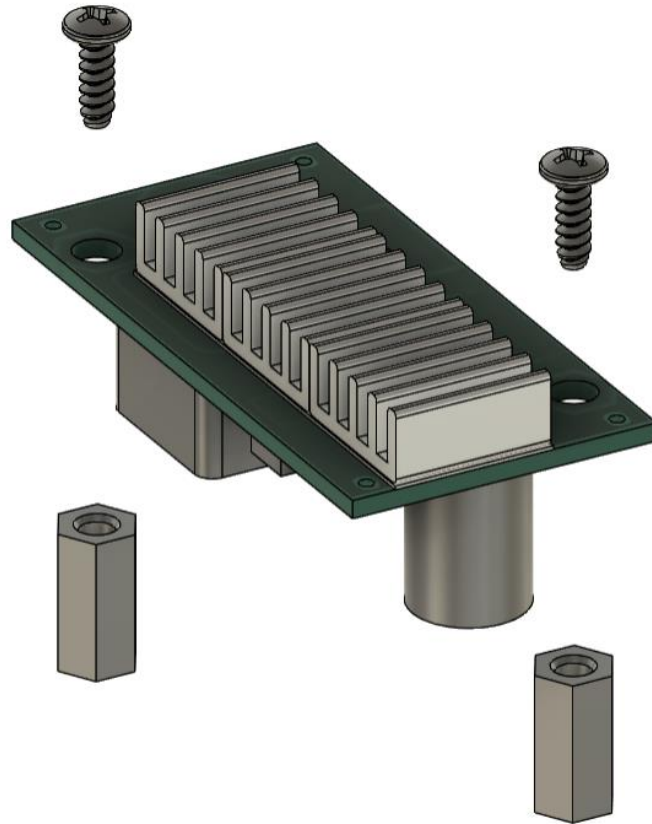
Resultat



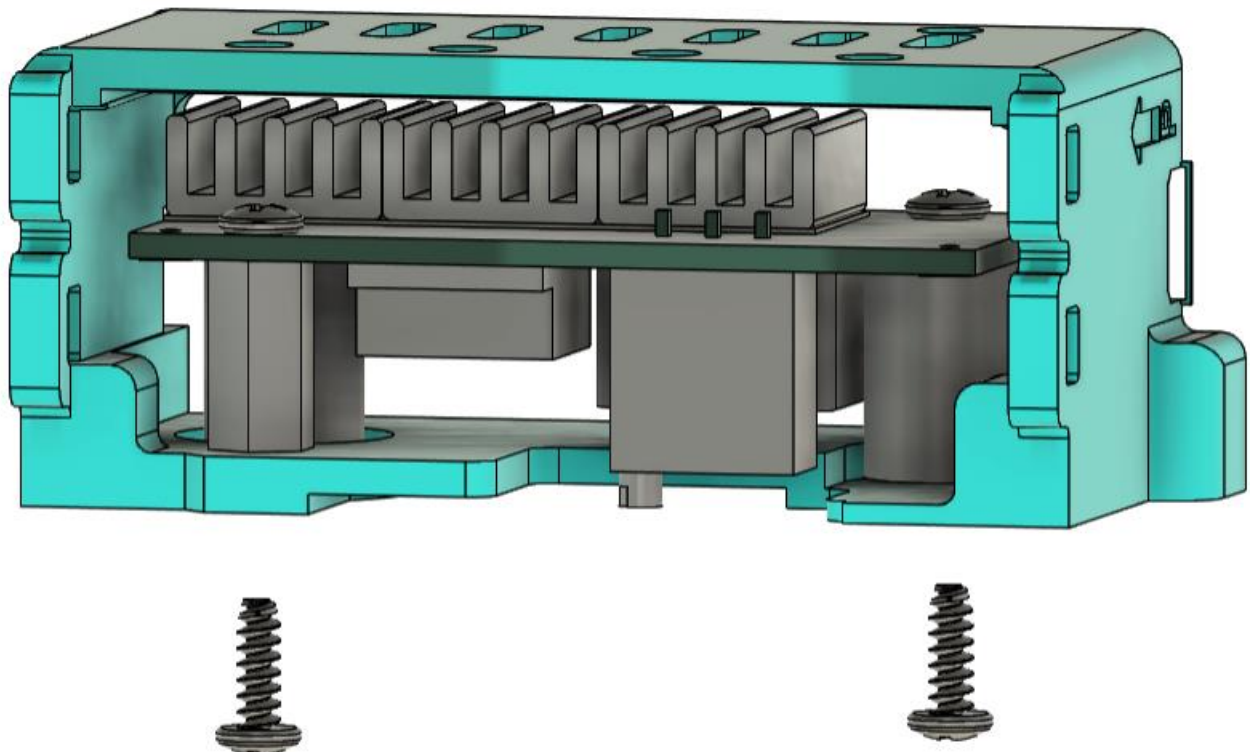
Montering av kylflänsar på DC/DC-omvandlare



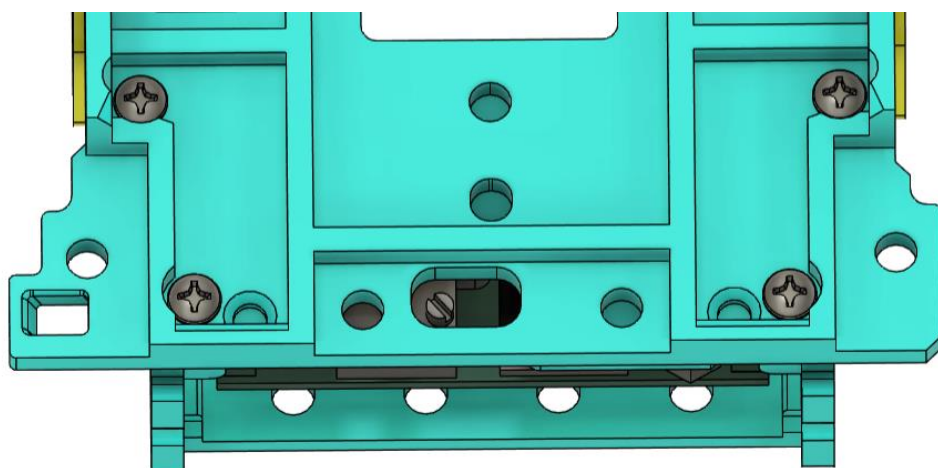
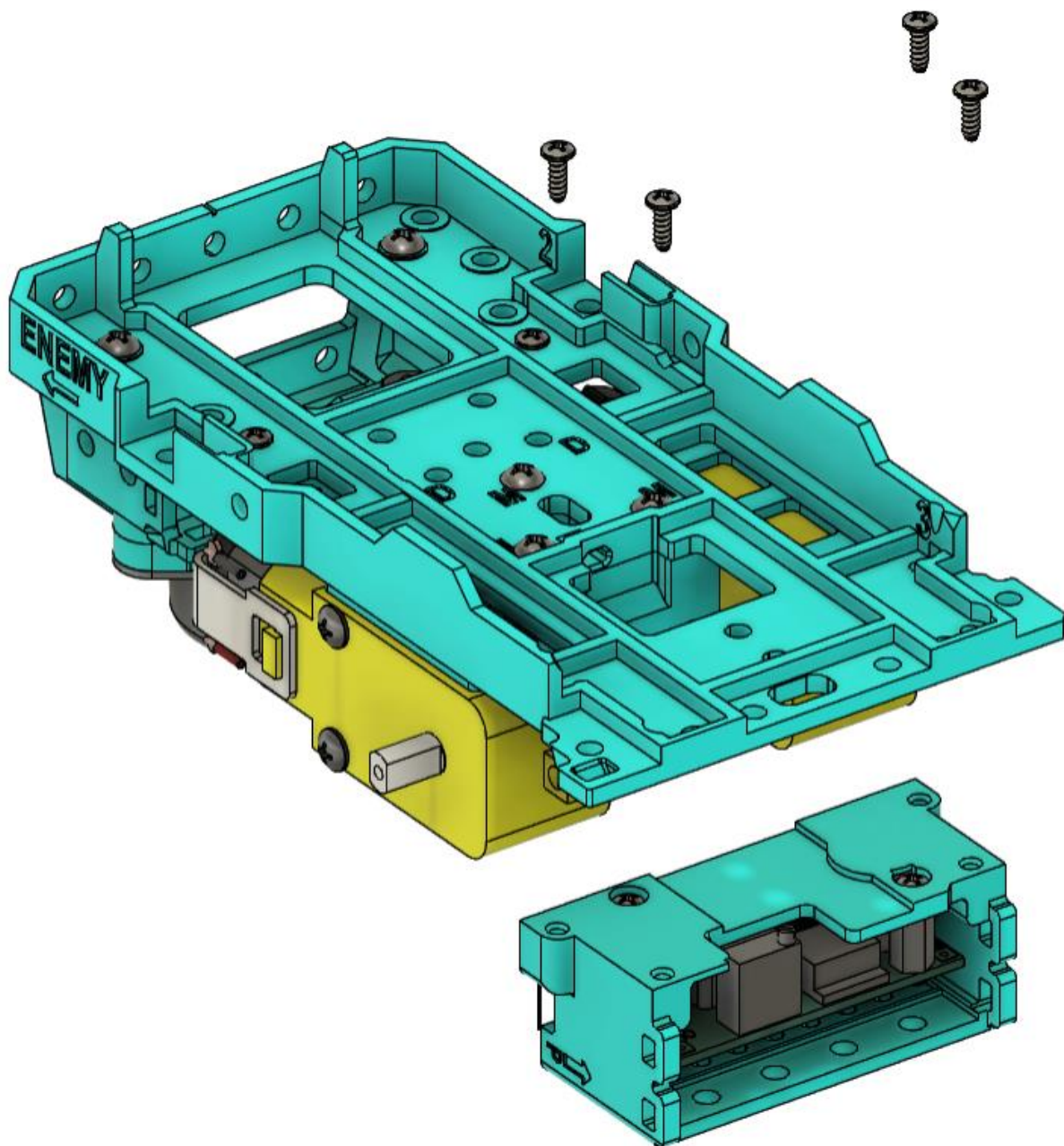
Montering av distanser på DC/DC-omvandlare



Montering av DC/DC-omvandlare i hölje

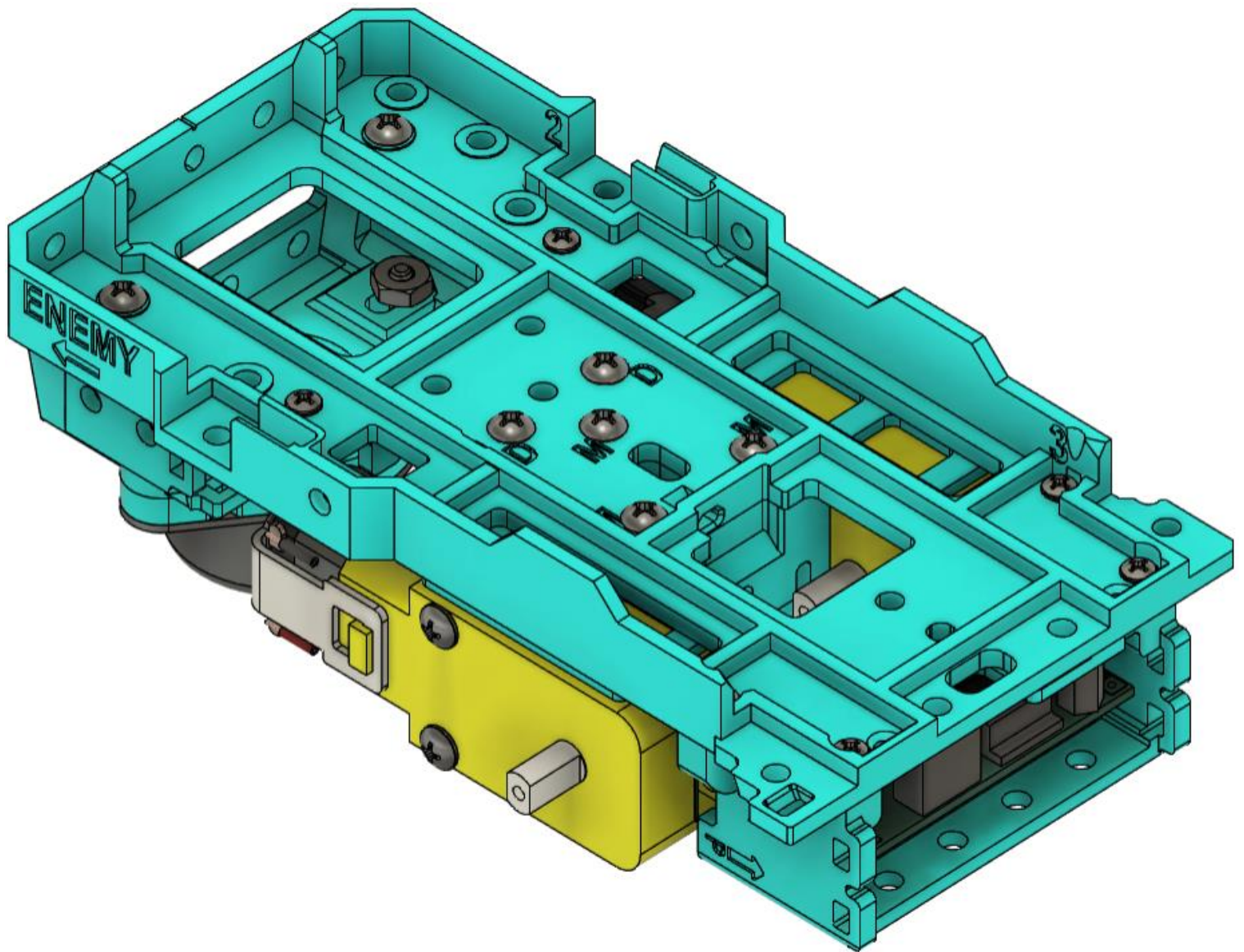


Montering av DC/DC-omvandlarenhet på basen

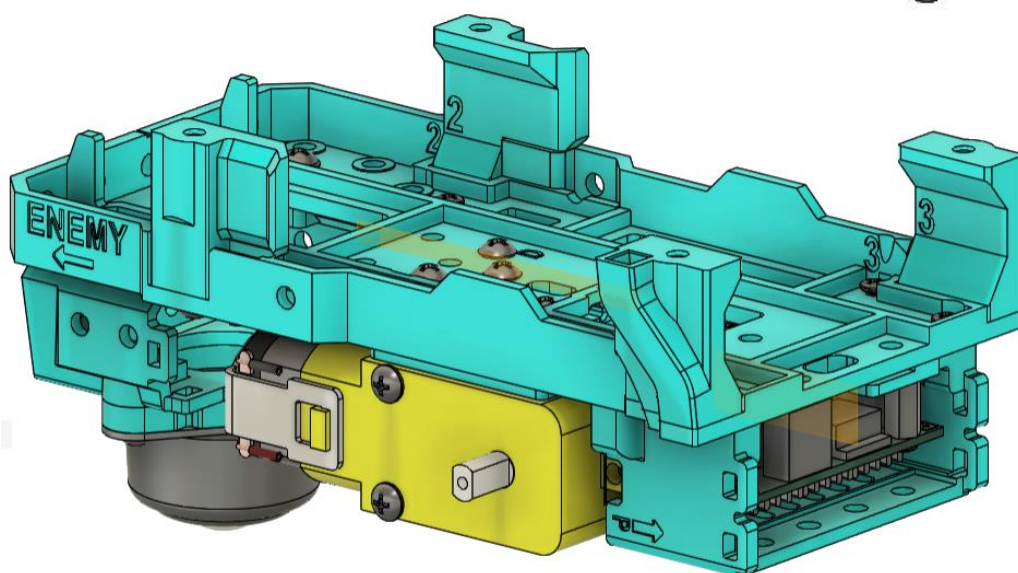
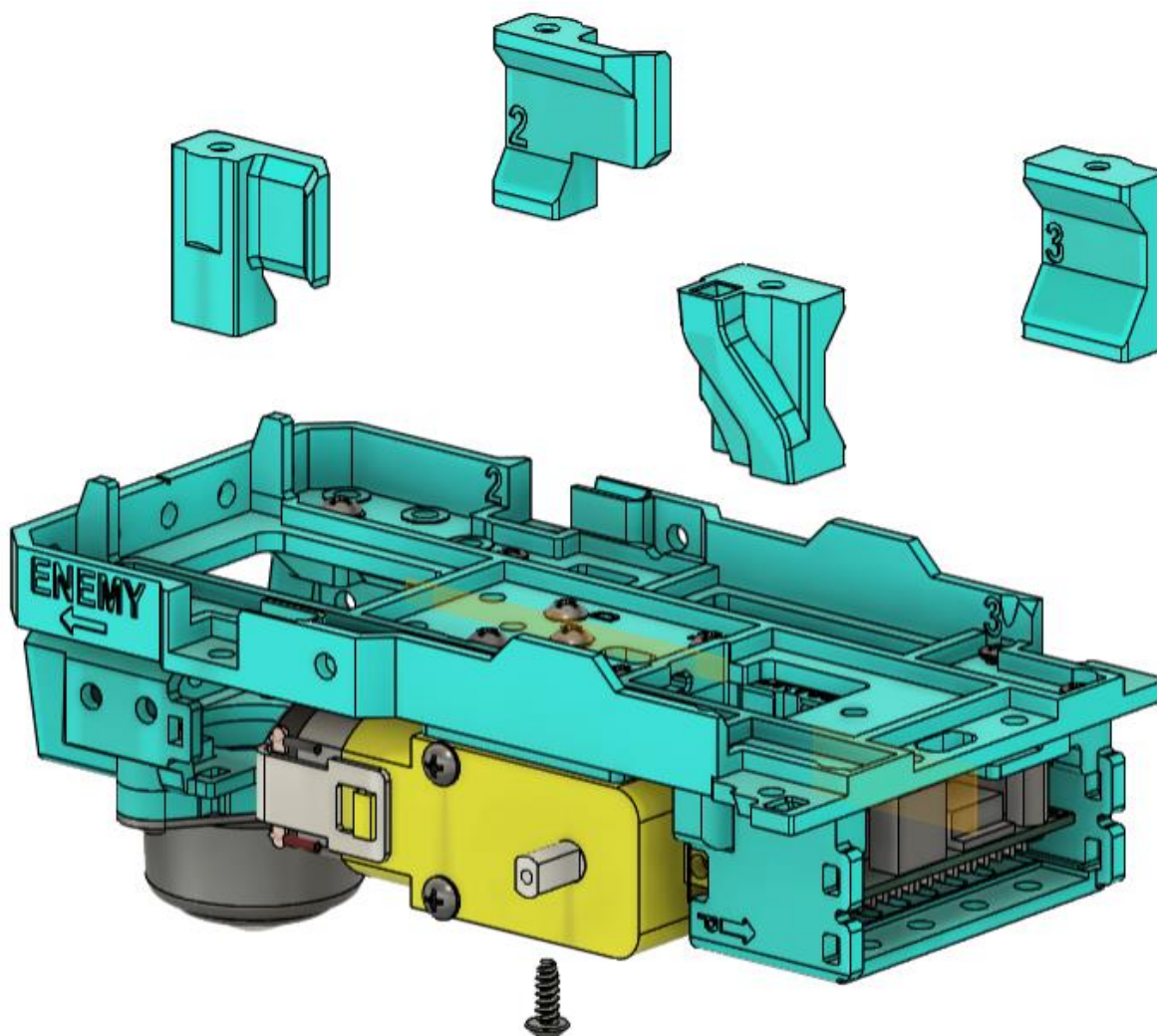


Skruvpositioner

färdigställd nedre bas

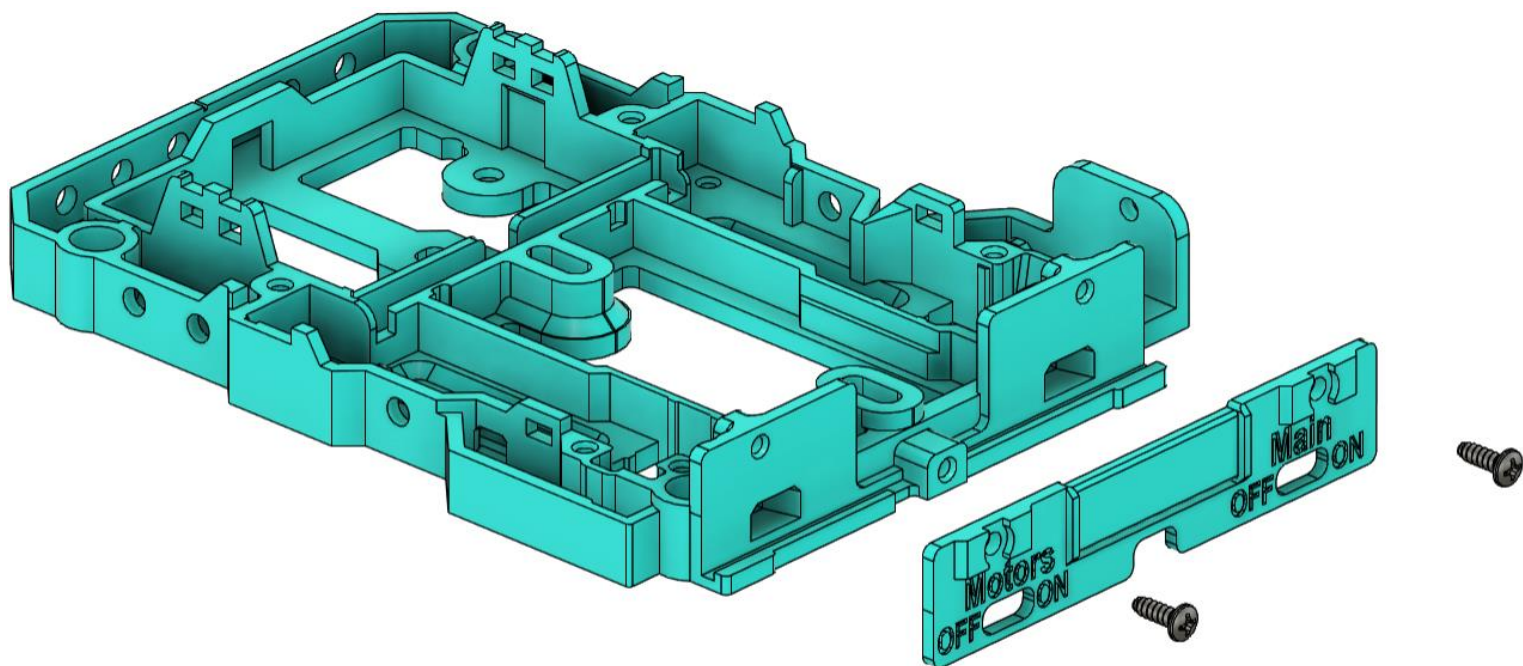


Montering av stöden på den nedre bottenplattan

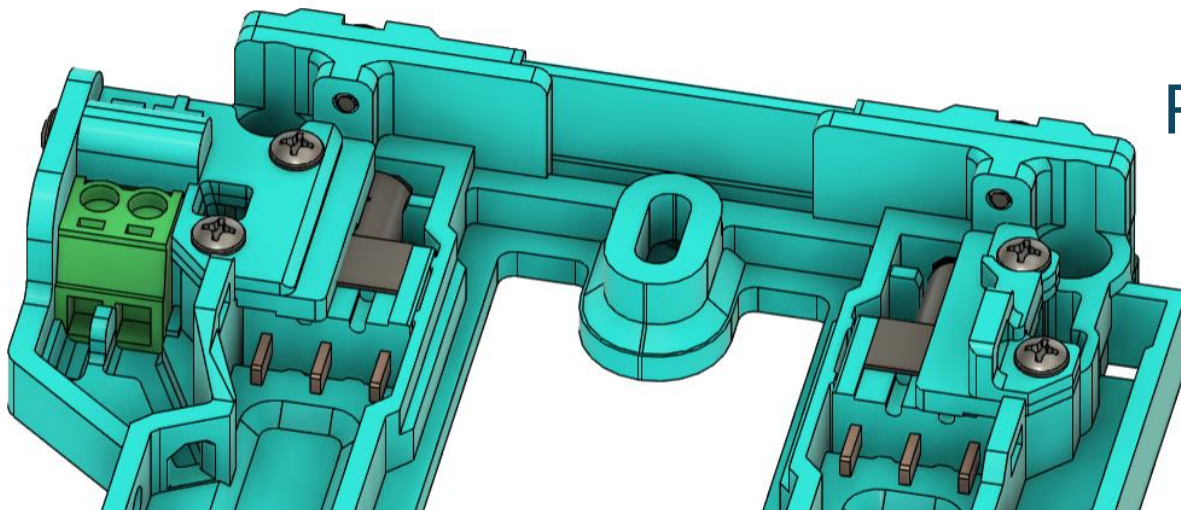
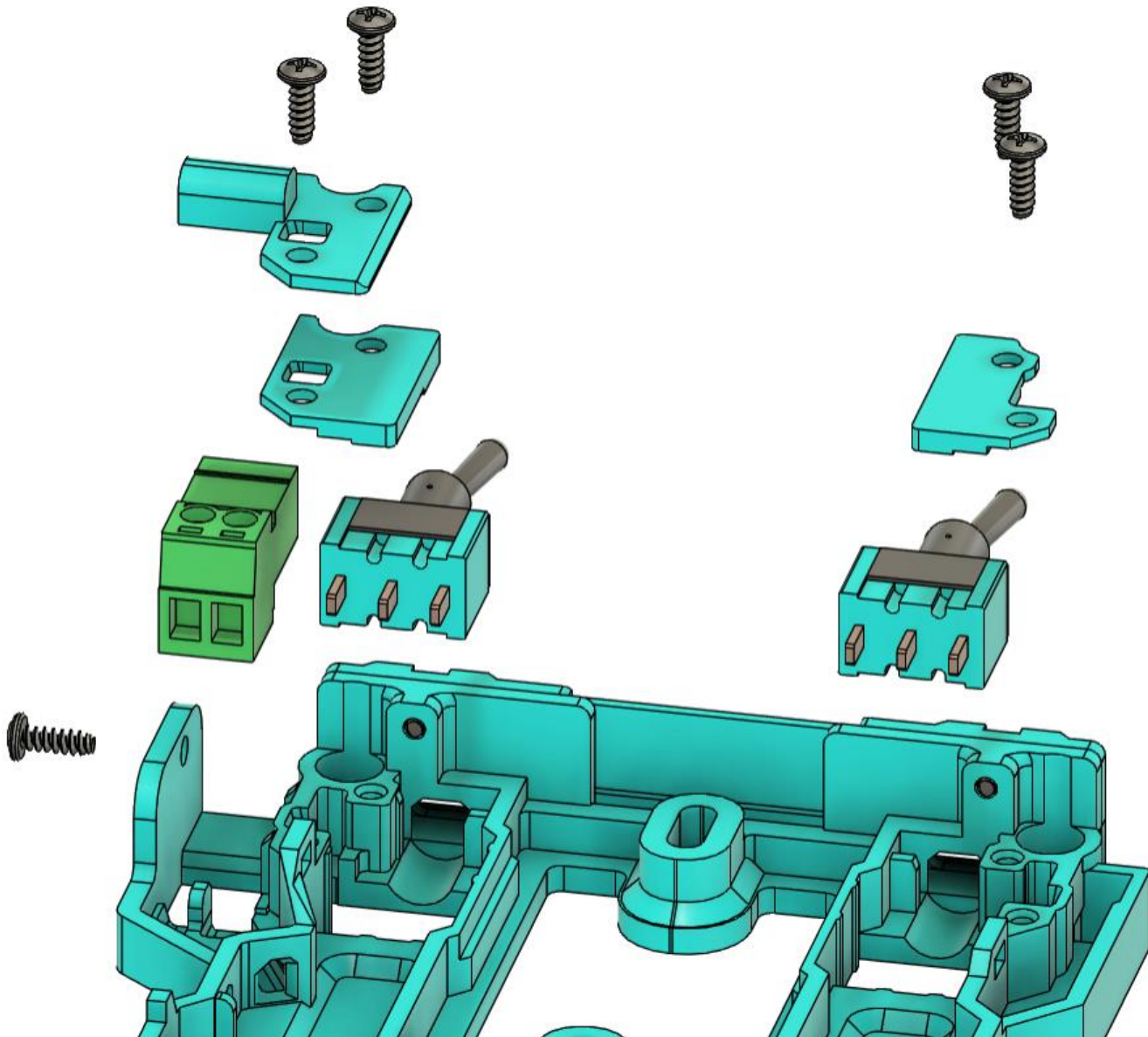


Resultat

Montering av den bakre skyltplattan på den övre basen

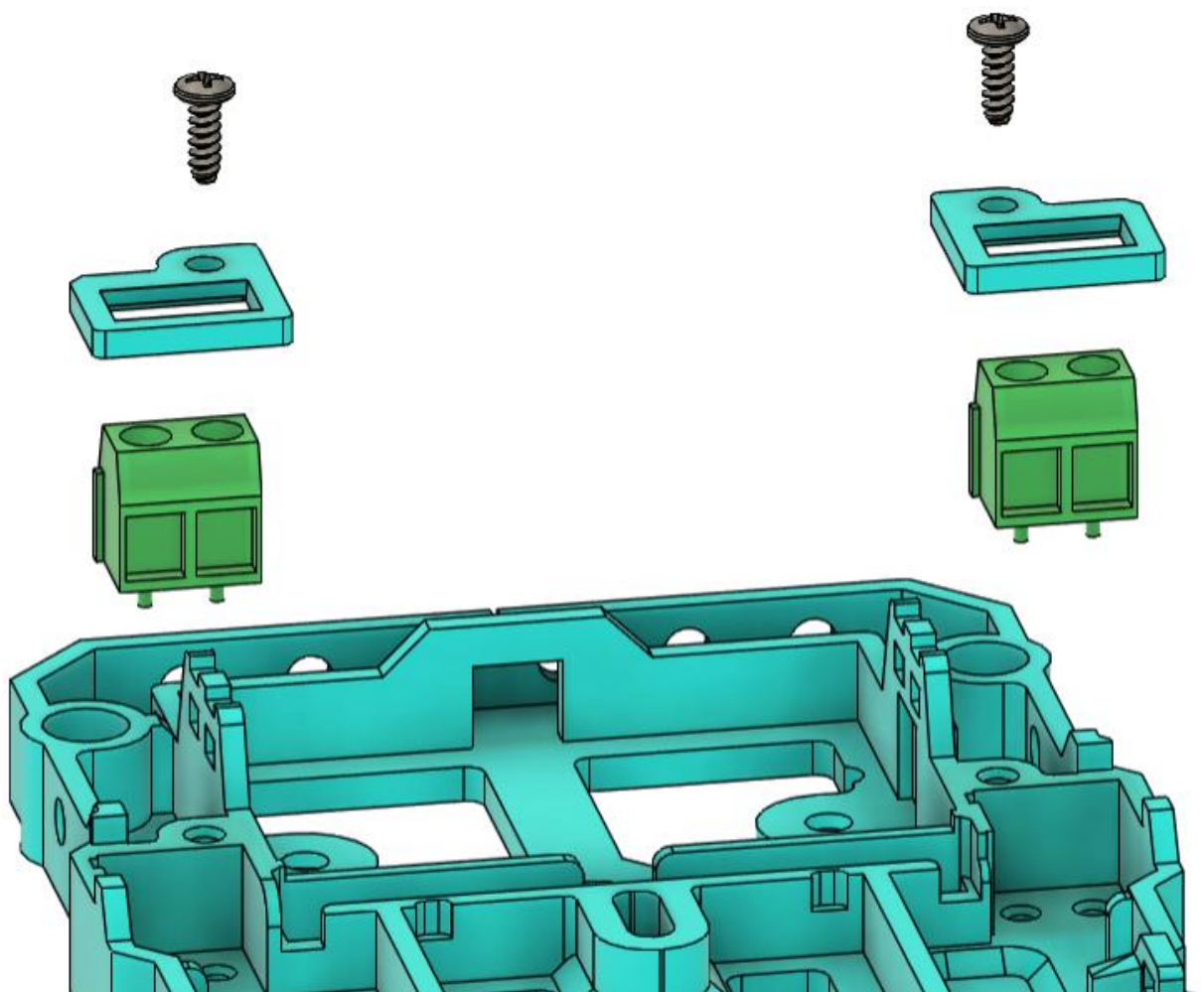


Montering av brytarna på den övre basen

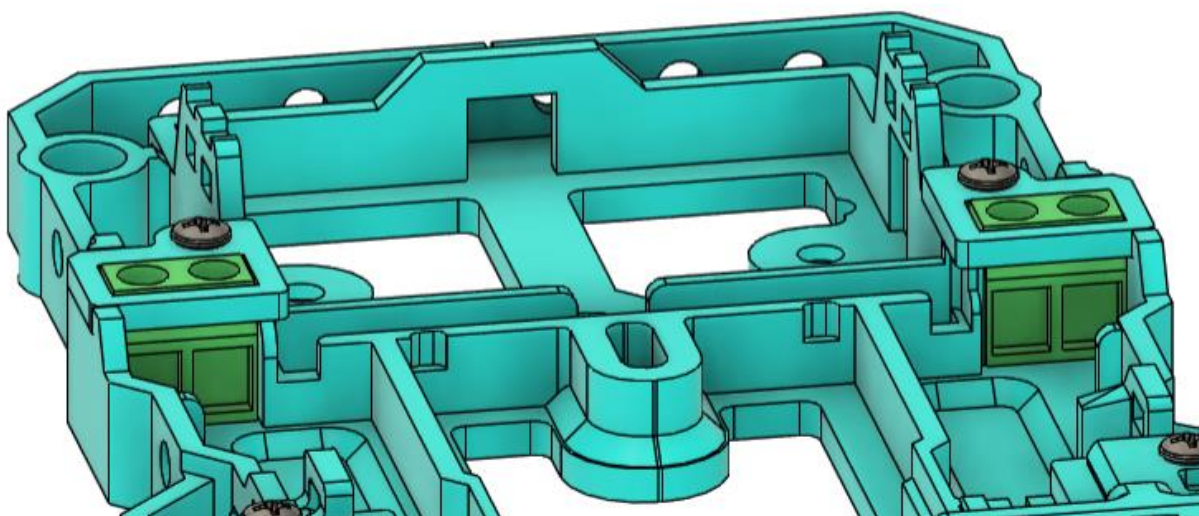


Resultat

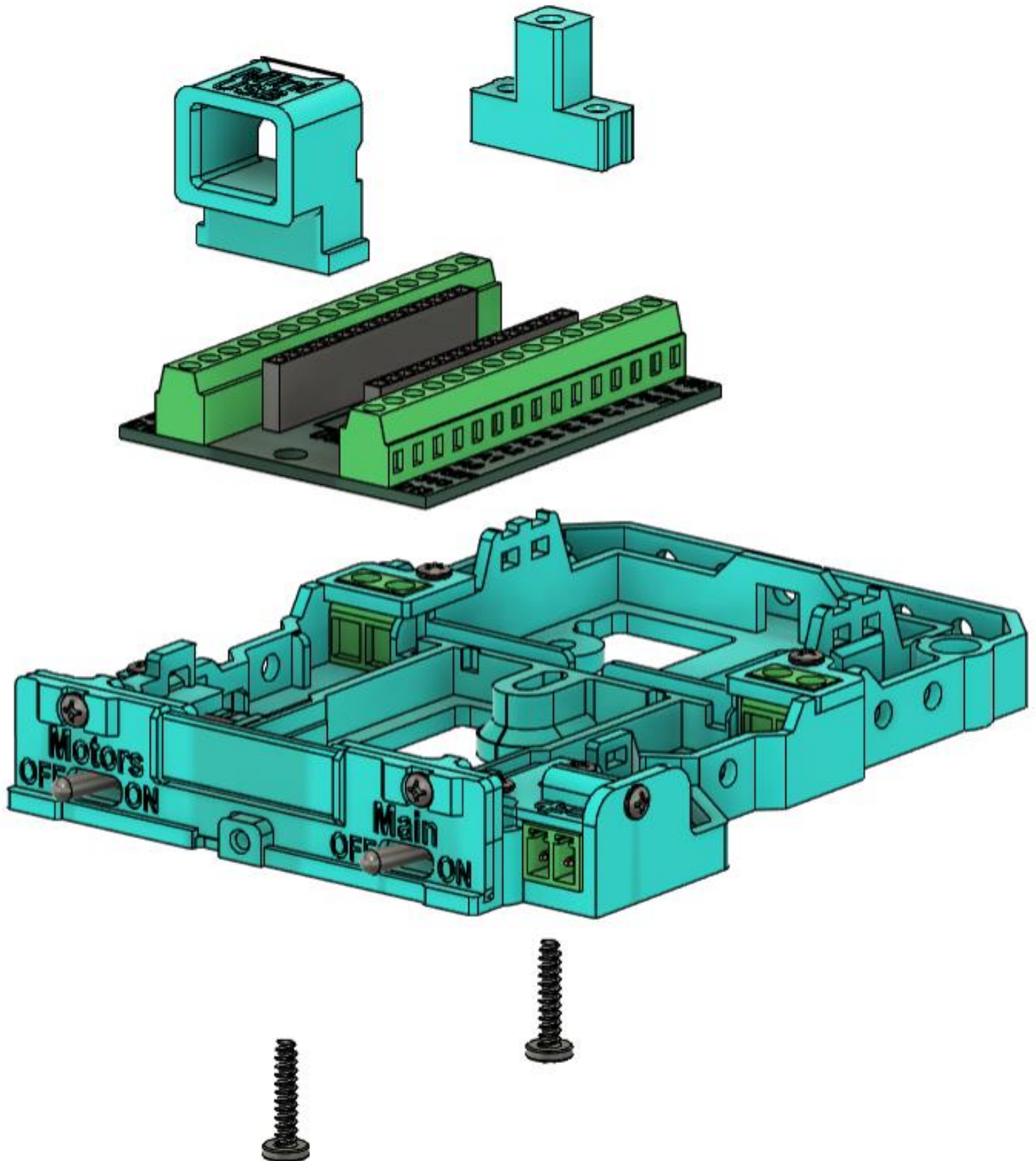
Montering av anslutningskontakterna på den övre basen



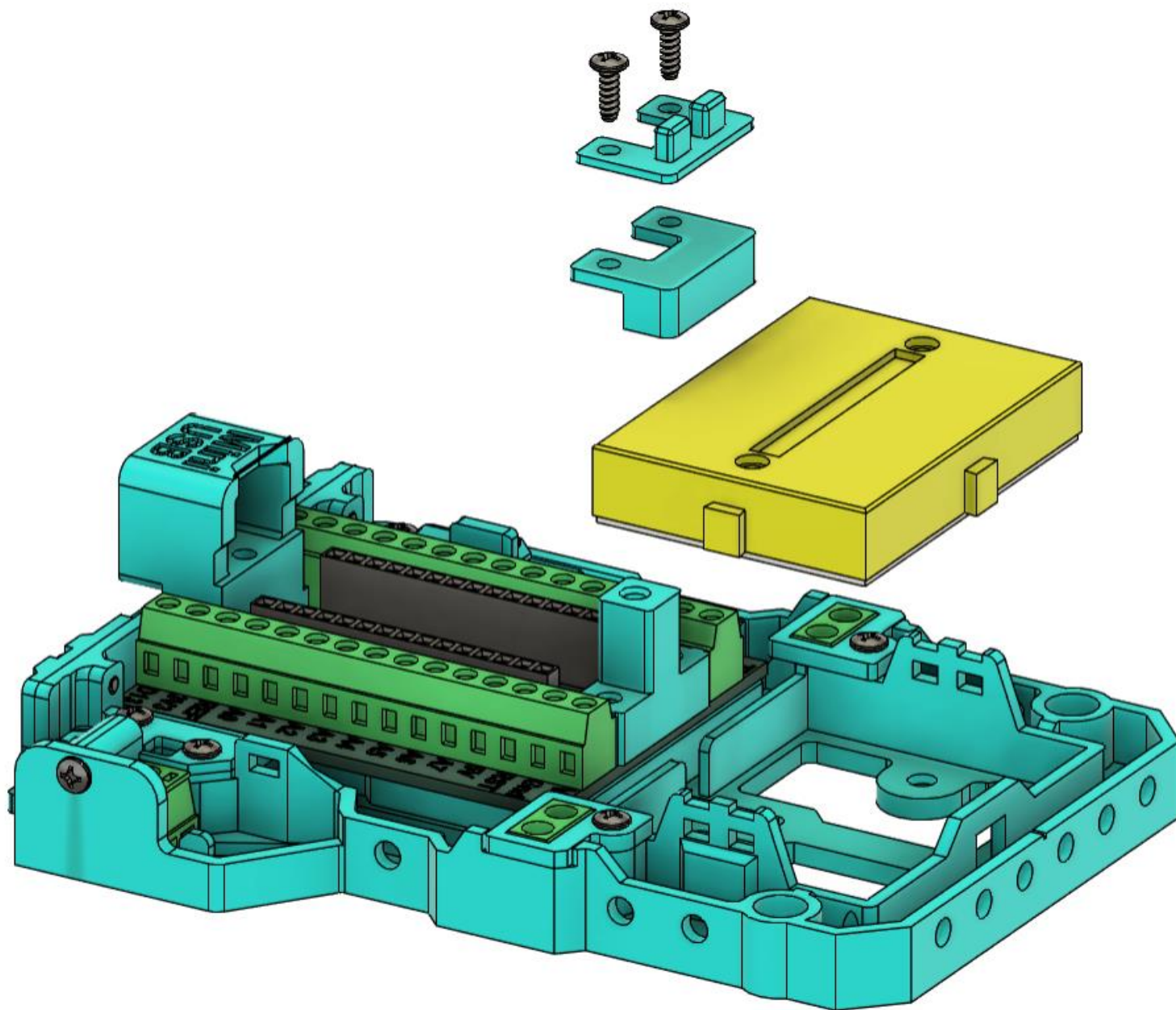
Resultat



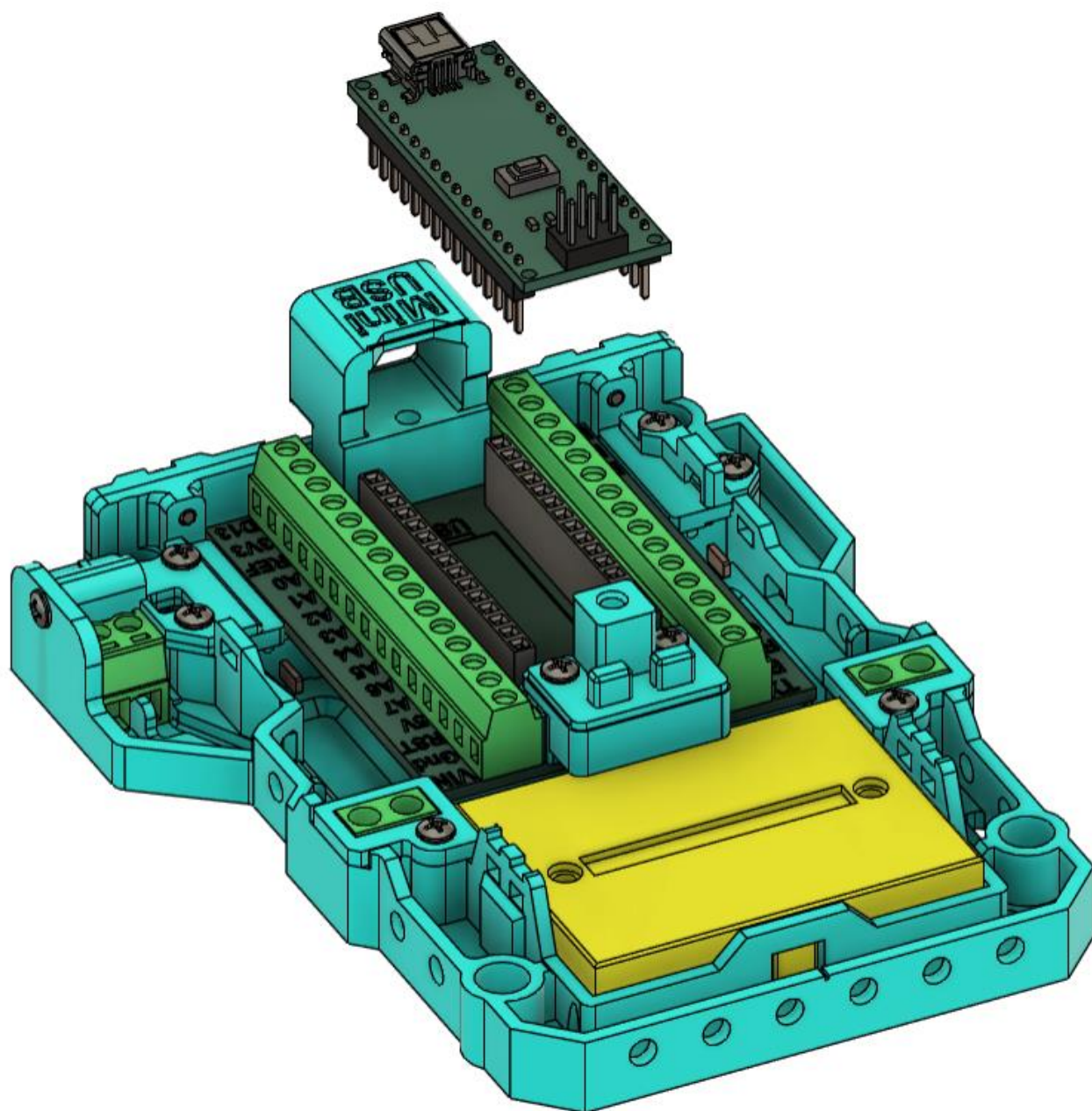
Montering av styrenhetens kopplingsplint på den övre basen



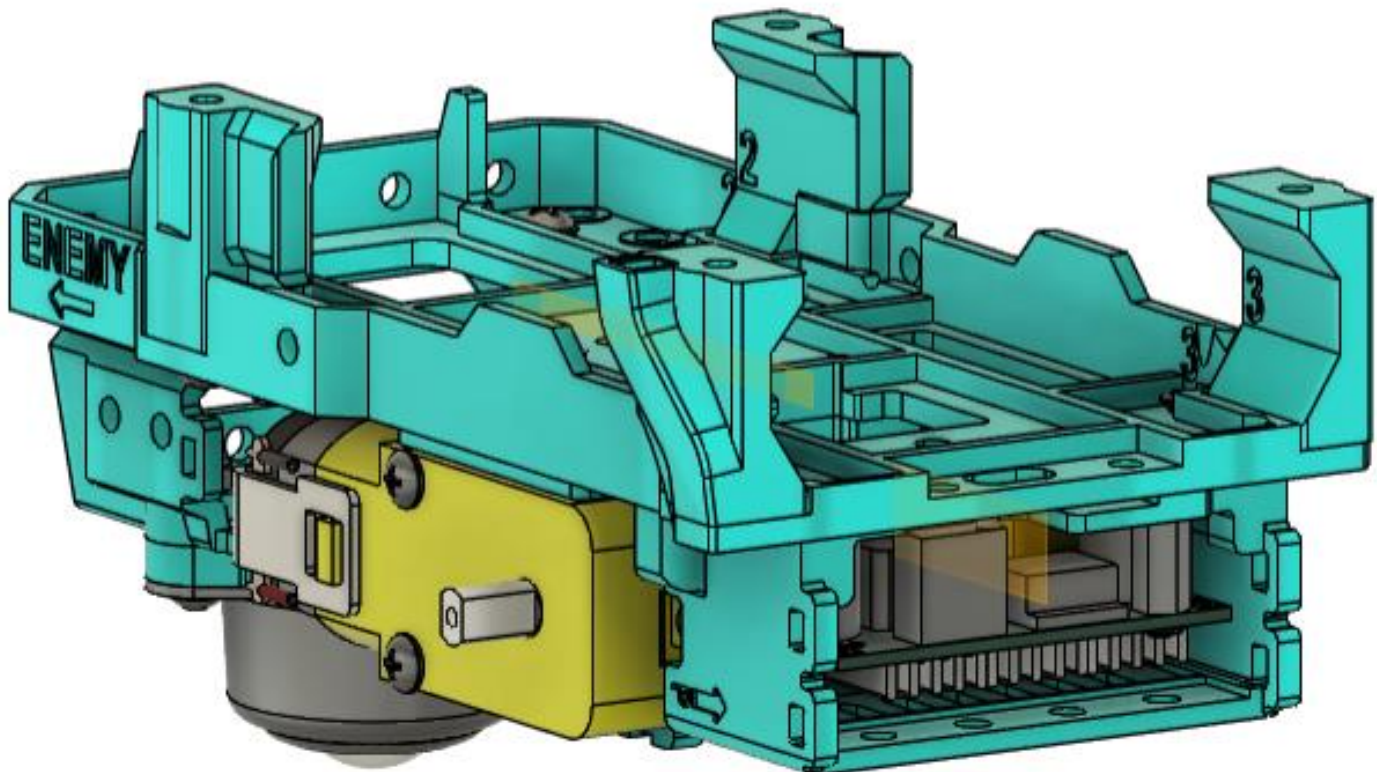
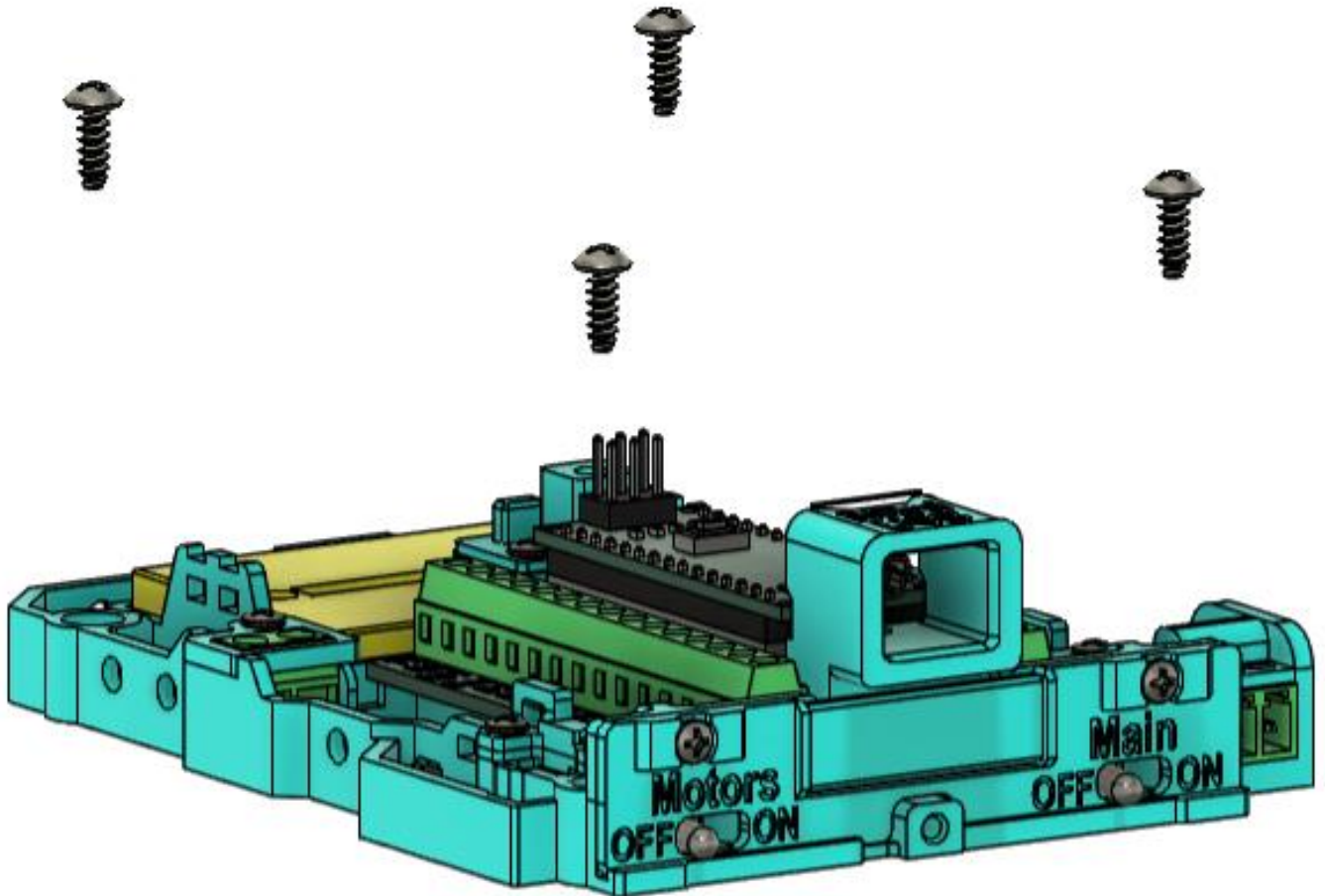
Montering av den lödfria kopplingsdäckets övre bas

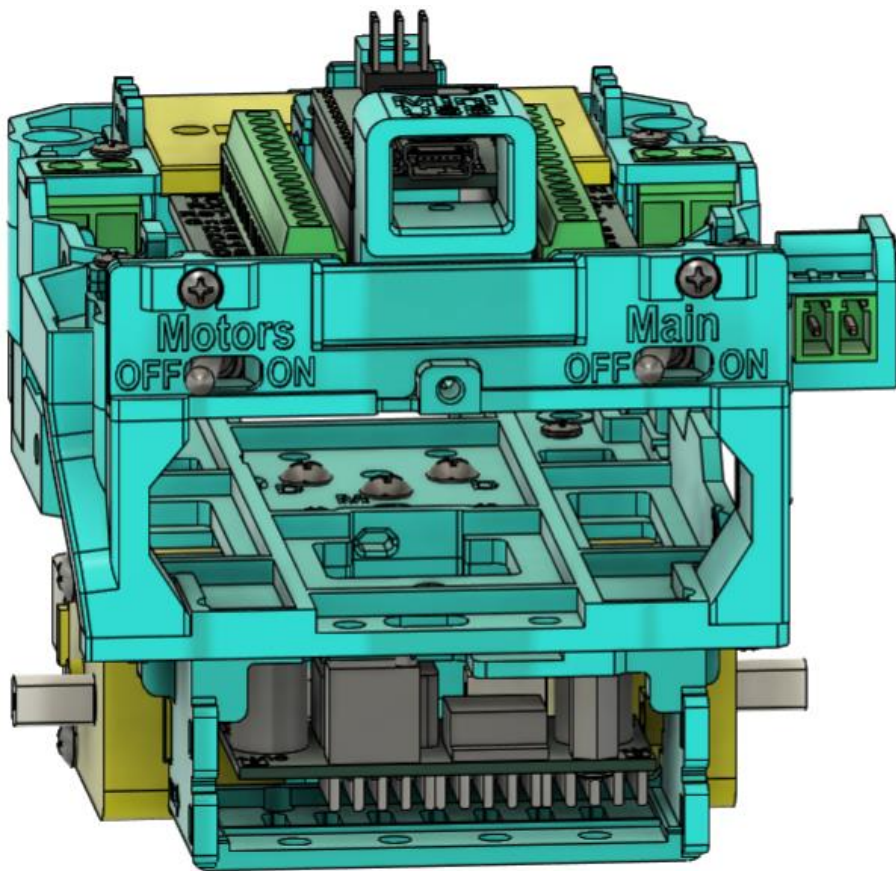


Installation av styrenhet

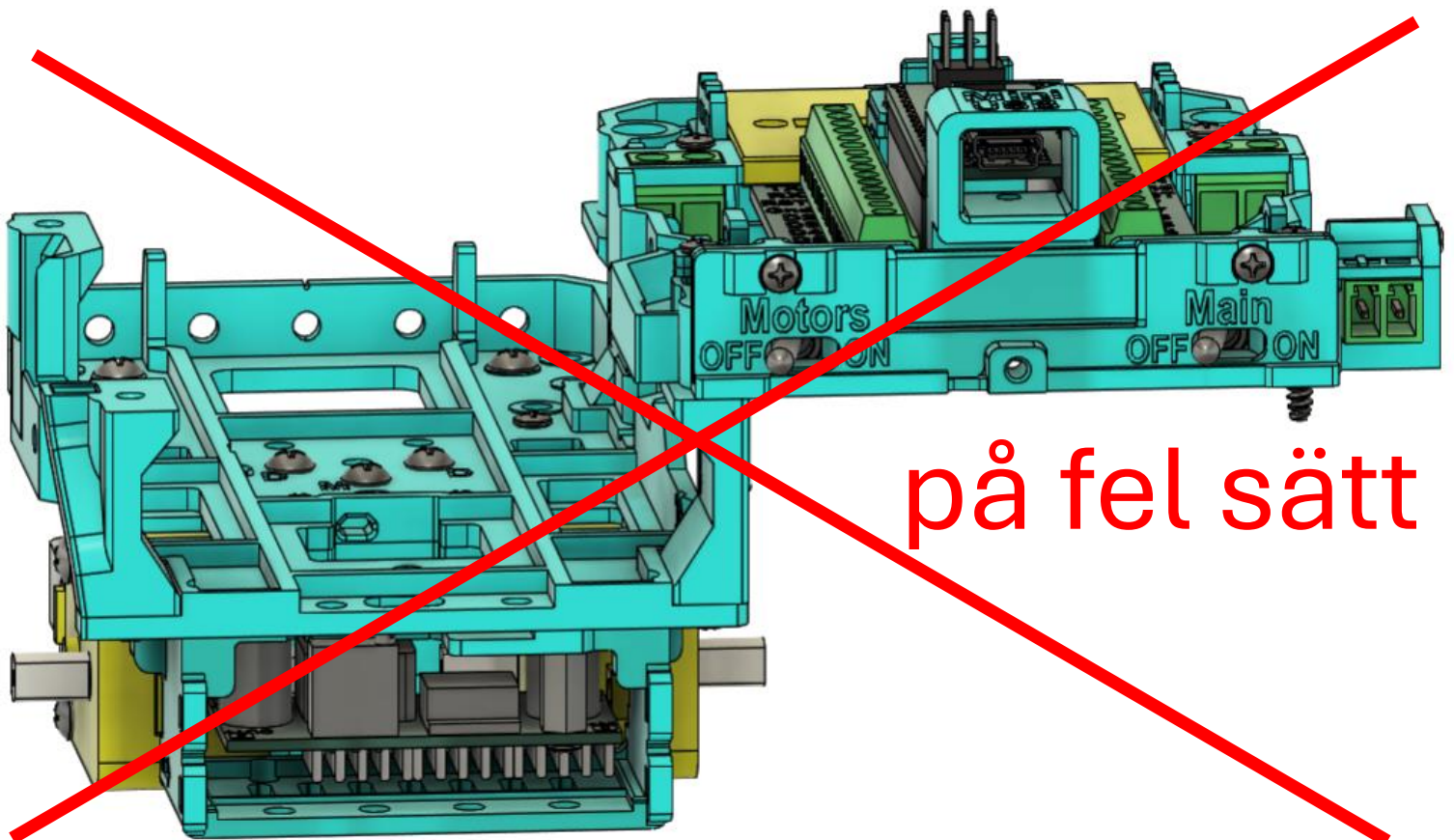
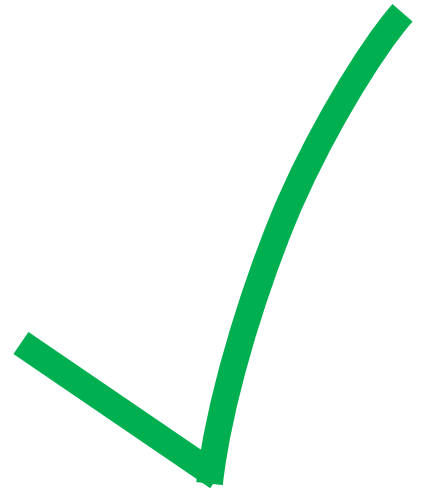


Montering av övre och undre basdelar



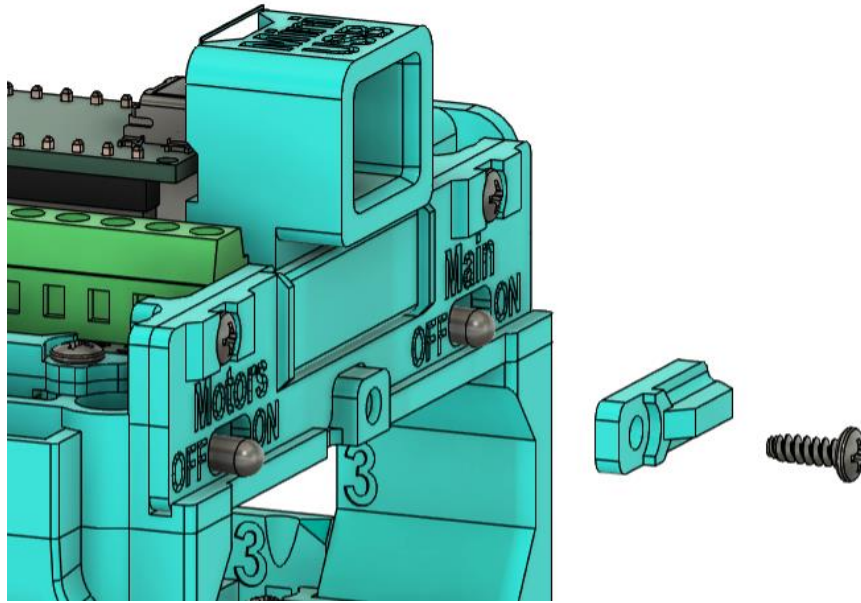


rätt sätt

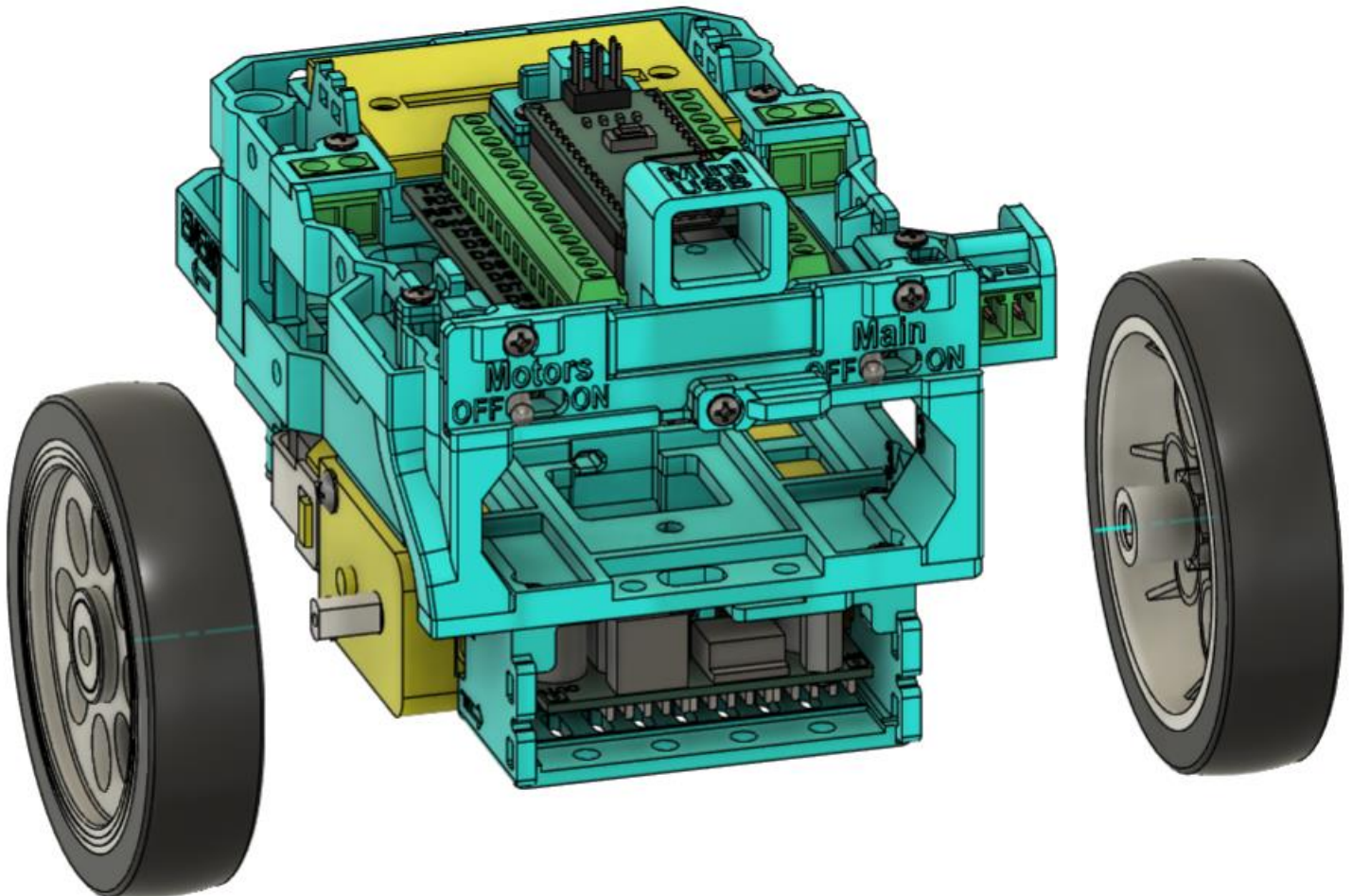


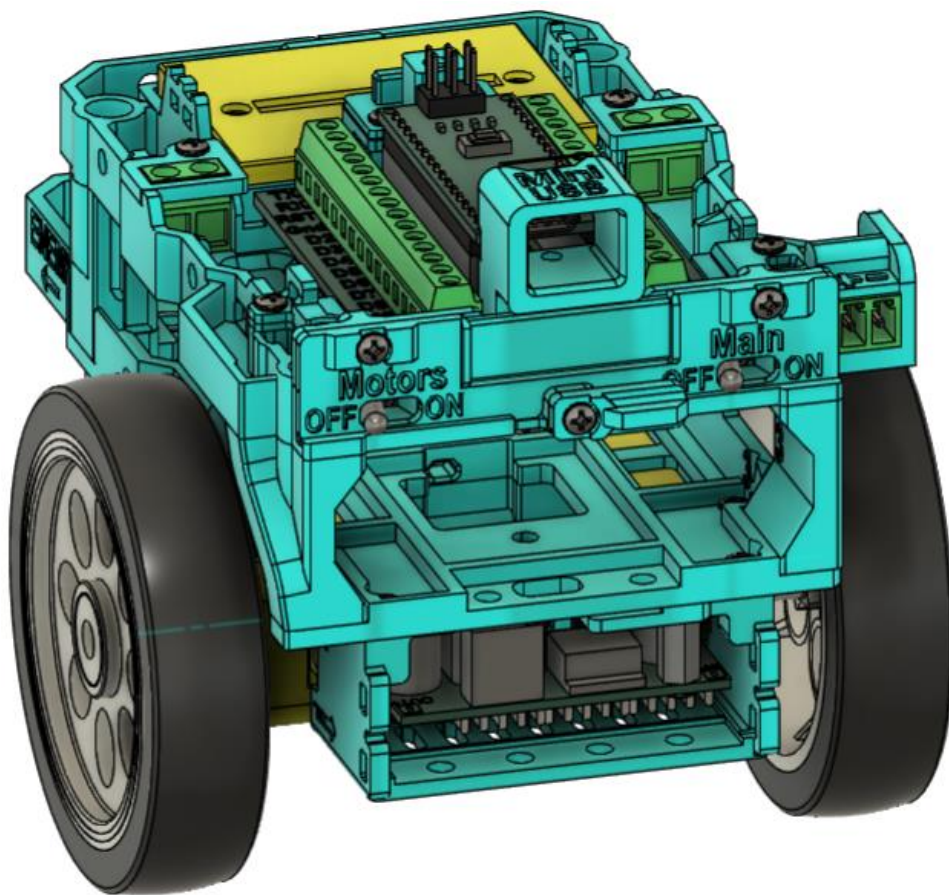
på fel sätt

Montering av batterispärren på den övre basdelen

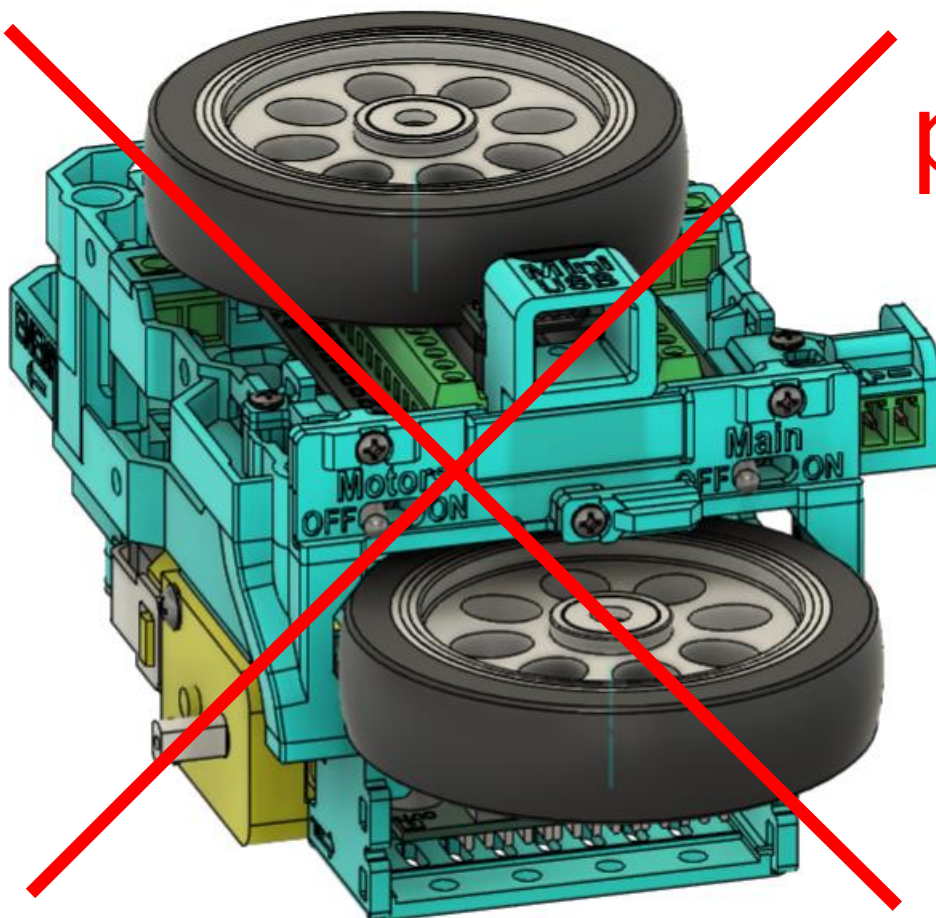
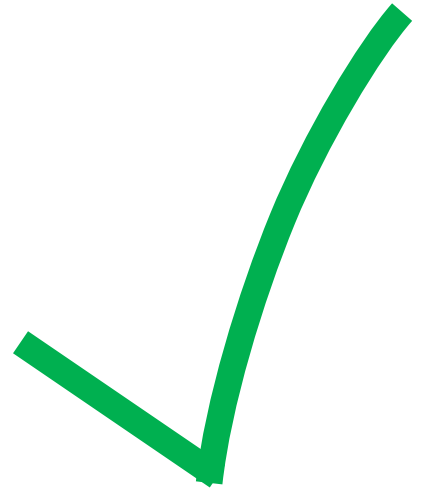


Montera hjul på växelmotorer



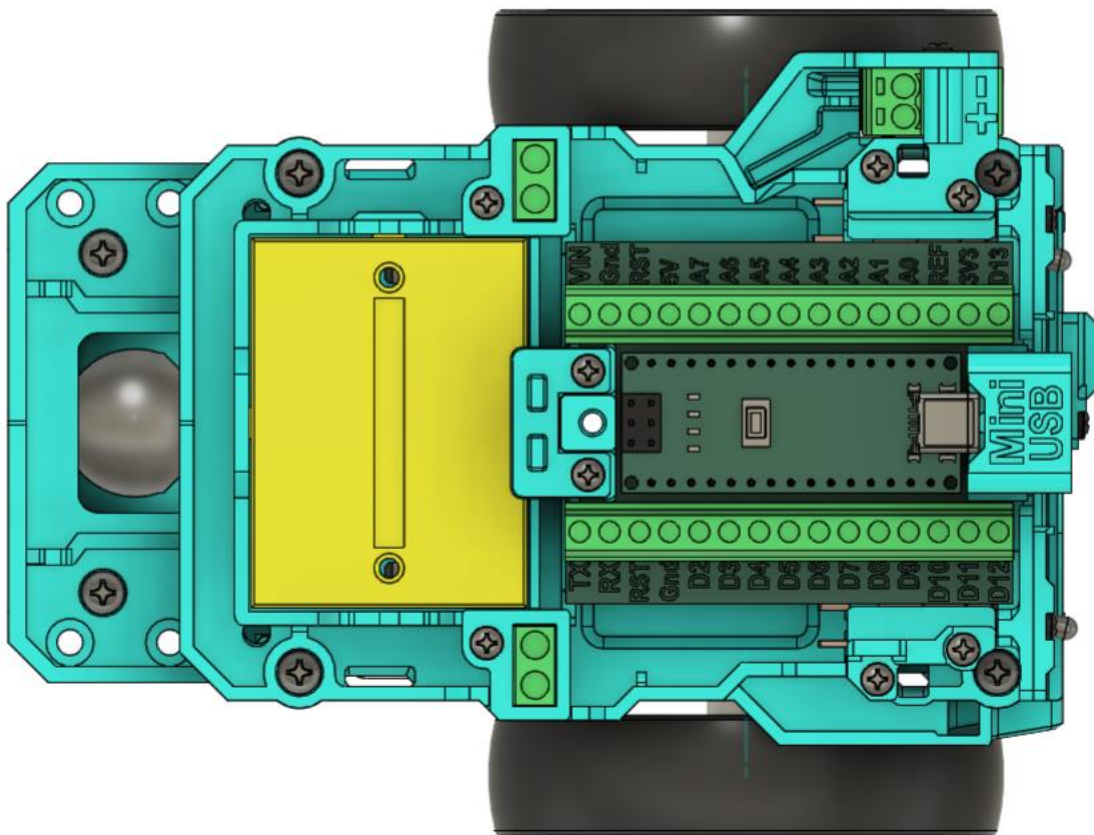


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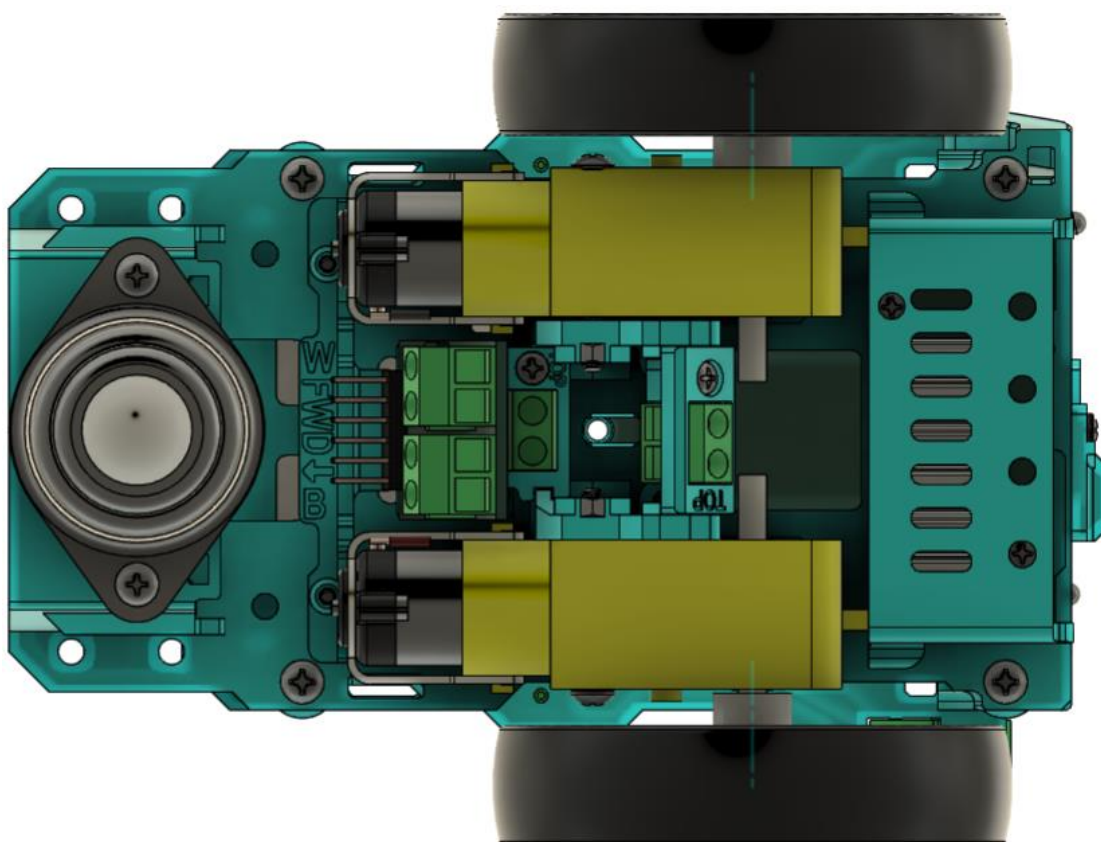


på fel sätt

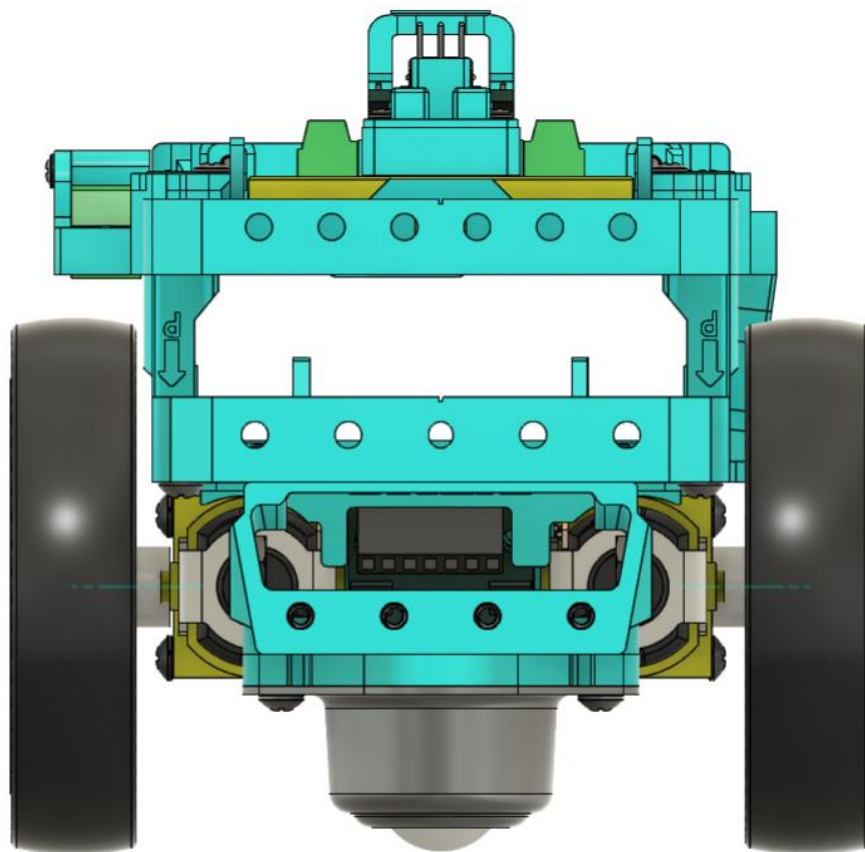
Färdigställd vy uppifrån



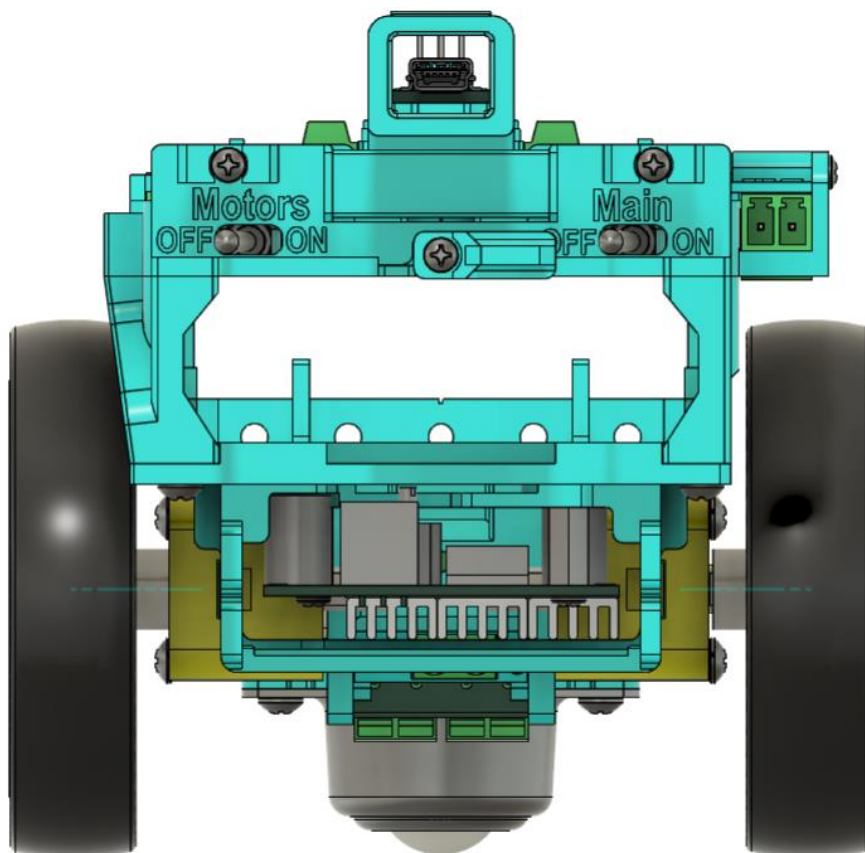
Färdigställd vy underifrån



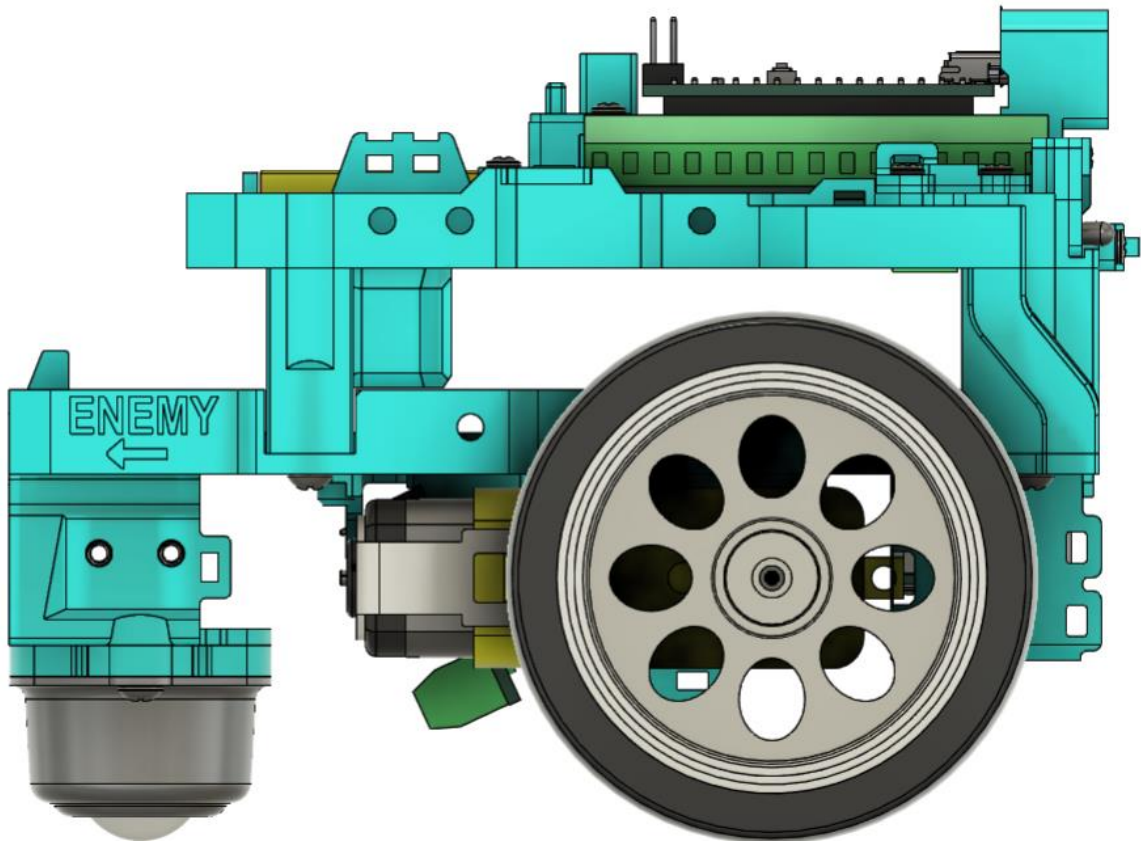
Färdigställd frontvy



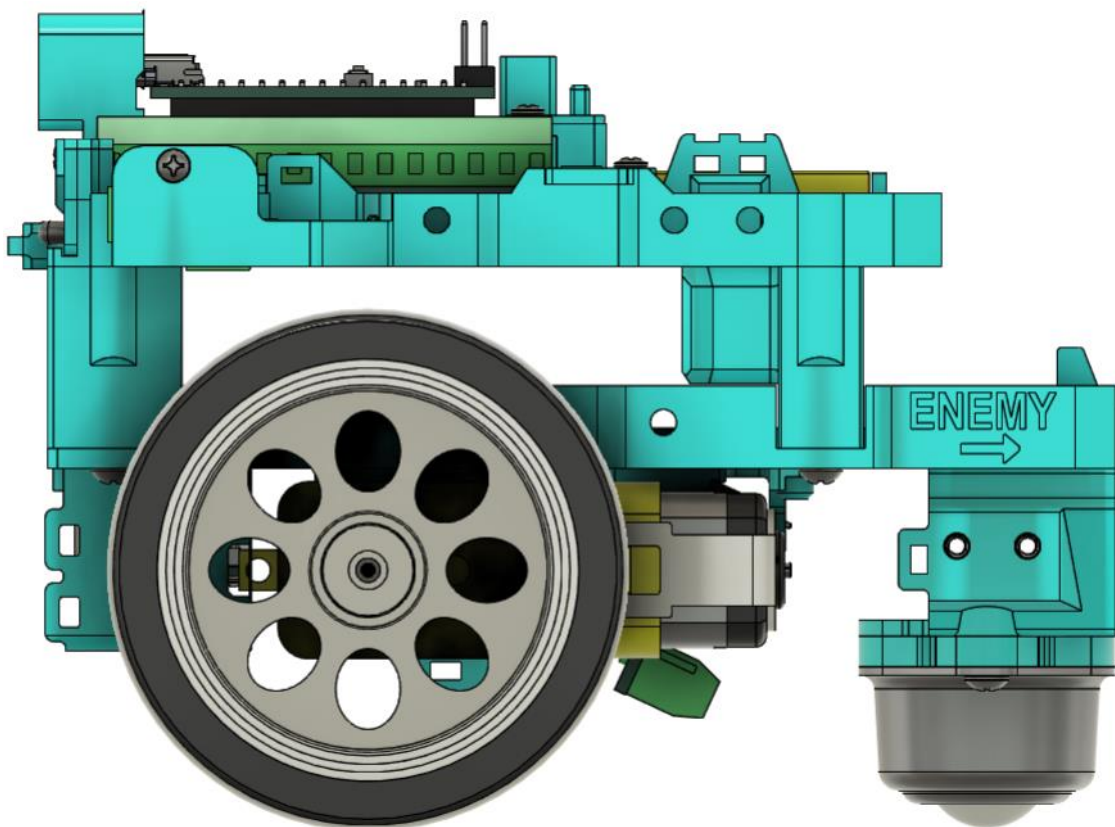
Färdigställd vy bakifrån



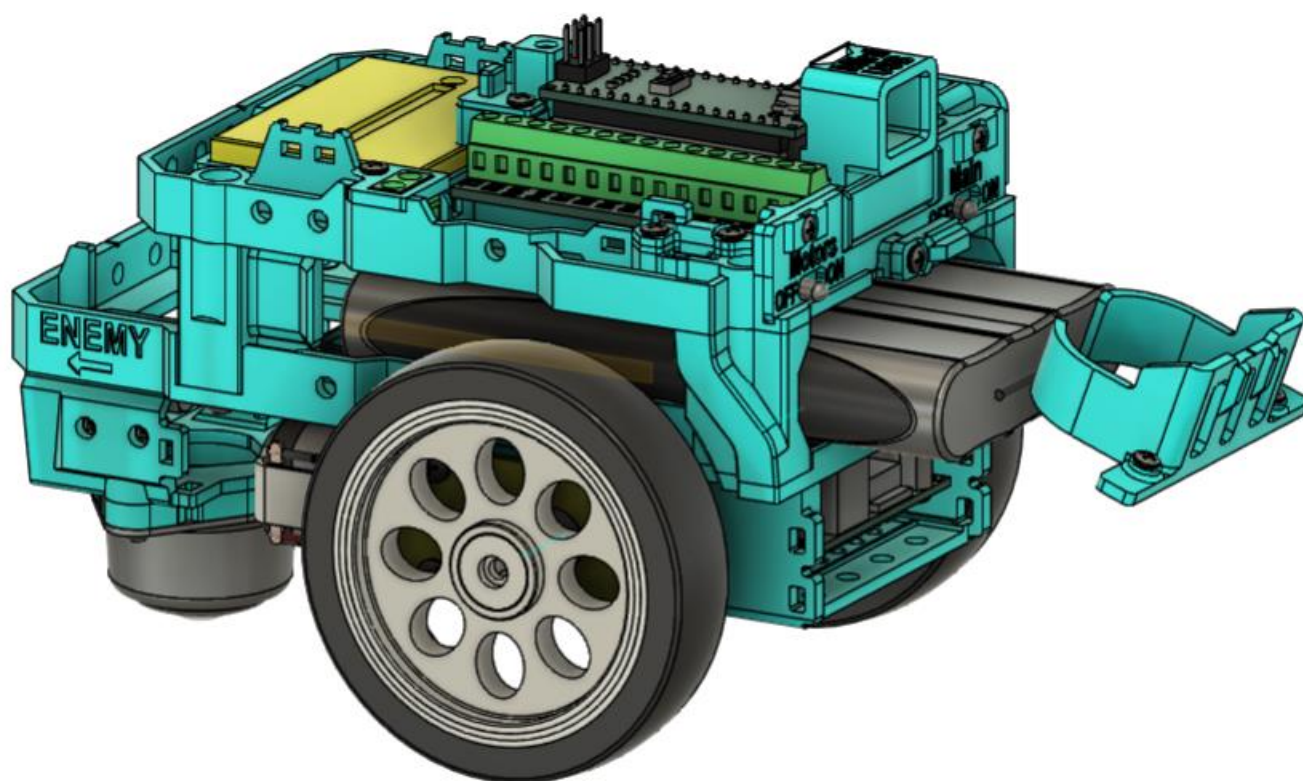
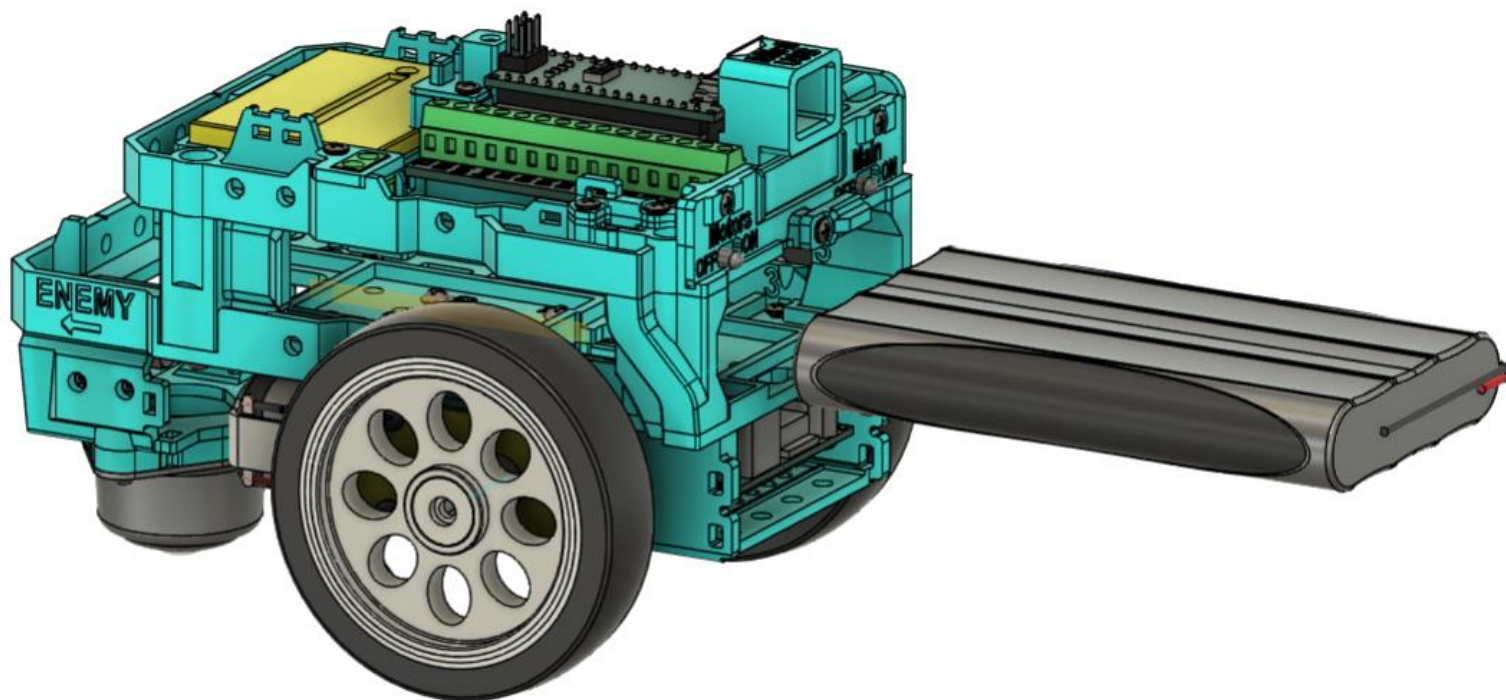
Färdigställd vy från vänster sida

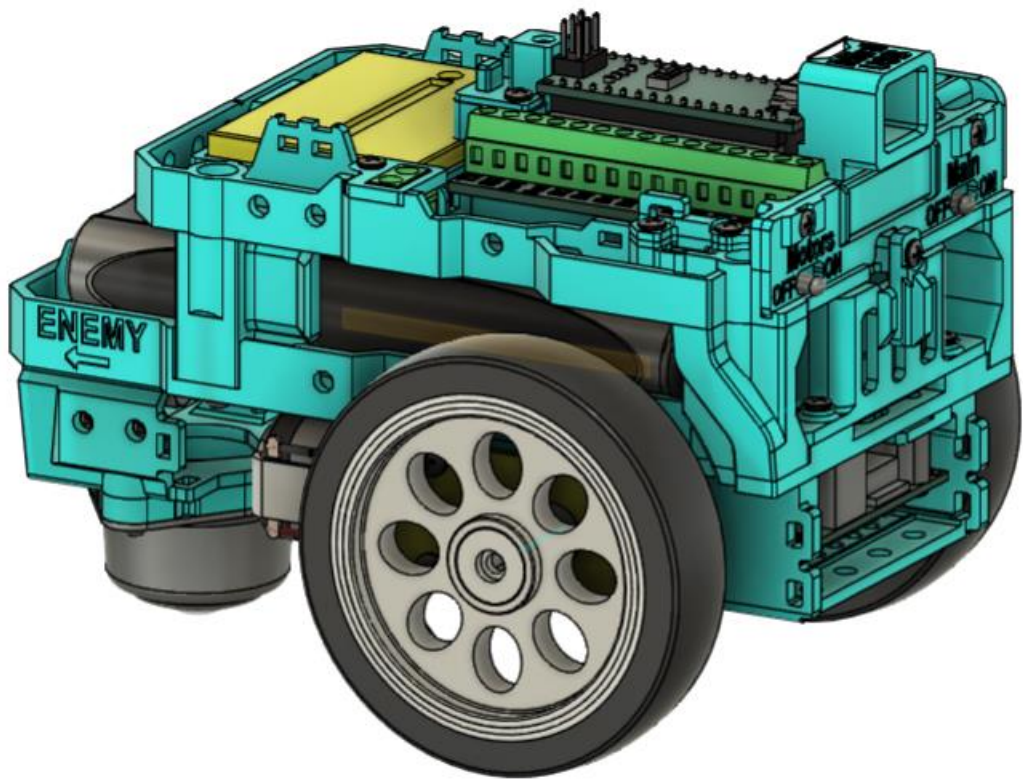
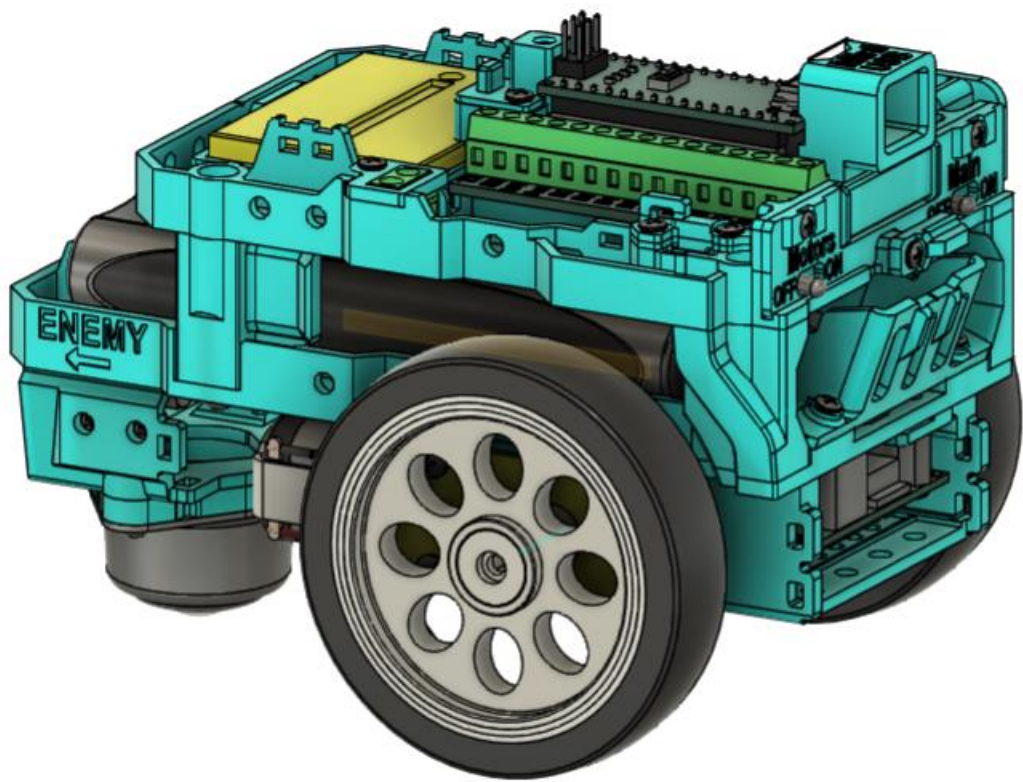


Färdigställd vy från höger

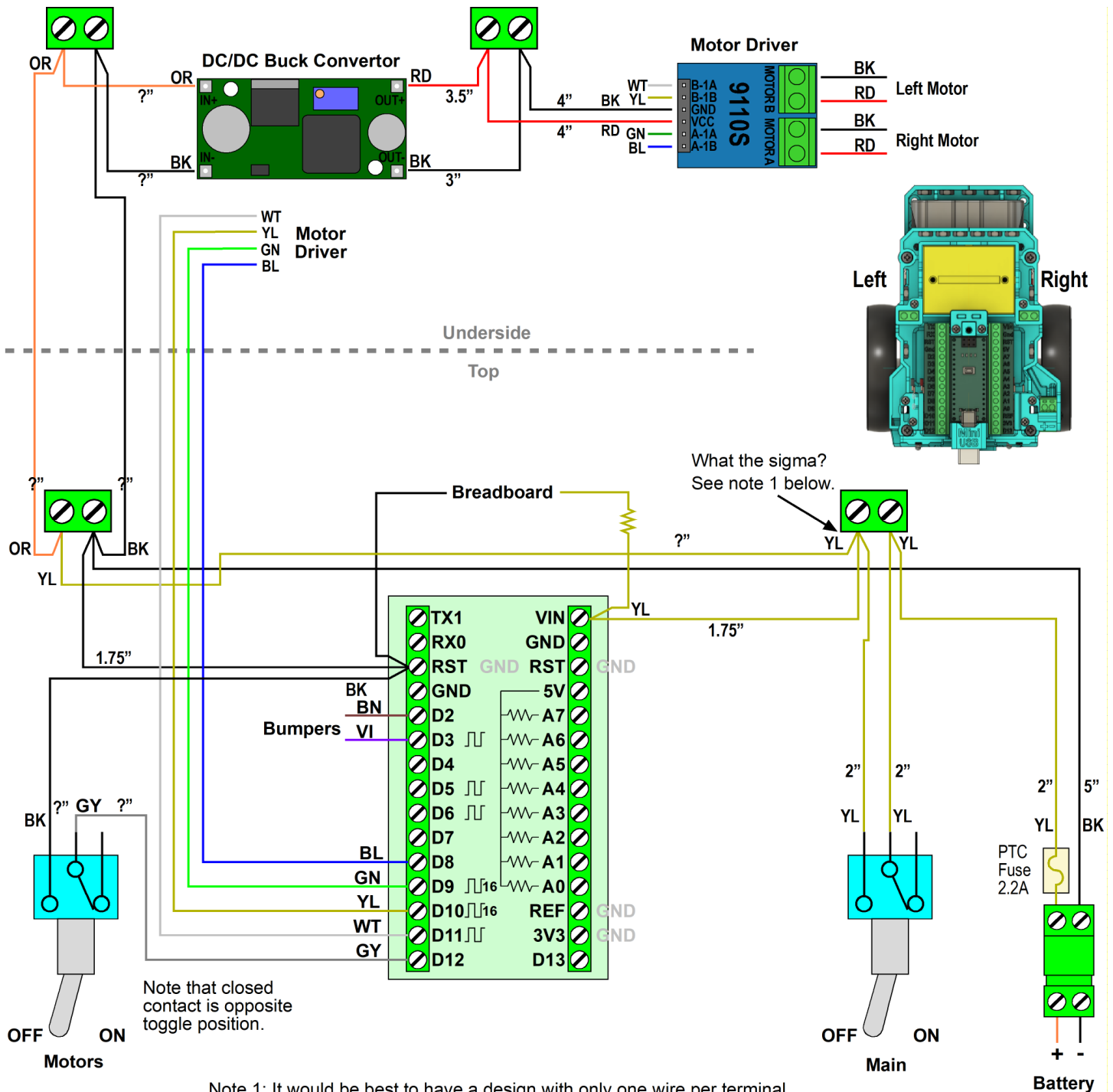


Isättning av batteri





Kopplungsschema



Notes:

- D2 and D3 are reserved for bumpers because they can be set to generate interrupts.
- D8, D9, D10, and D11 are used for motor control to allow use of the two 16bit PWM outputs. Each motor needs one PWM signal and thus D8, D9 will control one motor and D10, D11 will control the other motor.
- D4 and D5 are left available to support optional I2C devices.
- The motor switch could switch the power going to the motors. However, if the motor driver is not getting power, 5V signals from the microcontroller will unintentionally provide power to the driver through its internal protection diodes. This will cause excessive current draw from the microcontroller. A series resistor could be added to each of the four control lines to mitigate this. To avoid this it was decided to have code can read the switch position to inhibit the motor function. The switch can be used for other functions as well.
- Yellow wire is used for battery voltage, e.g. 9.6V to allow reserving red wire for 5V. Yellow has been the traditional color used for 12V power from computer power supplies.

Komponentlista

Line	Qty	Type	Description	Part Num	Price
1	1	printPLA	CasterMount		
2	1	printPLA	CasterSpacer		
3	1	printPLA	WireGuideBot		
4	1	printPLA	MotDrvL9110SMount		
5	1	printPLA	MotorMount		
6	1	printPLA	MotDrvConnMount		
7	1	printPLA	BuckConnMount		
8	1	printPLA	BuckConvertorMount		
9	1	printPLA	LowerPlate		
10	1	printPLA	SupportLeftForward		
11	1	printPLA	SupportRightForward		
12	1	printPLA	SupportRightRear		
13	1	printPLA	SupportLeftRear		
14	1	printPLA	UpperPlate		
15	1	printPLA	SwitchClampLeft		
16	1	printPLA	SwitchClampRight		
17	1	printPLA	ConnClampLeft		
18	1	printPLA	ConnClampRight		
19	1	printPLA	MotWiresClamp		
20	1	printPLA	BattJackMount		
21	1	printPLA	BreakoutClamp		
22	1	printPLA	BreadboardClamp		
23	1	printPLA	LegoManMount		
24	1	printPLA	USBPlugShield		
25	1	printPLA	TopPlateLabel		
26	1	printPLA	BatteryLatch		
27	1	printPLA	BatterySpacer-NiMH9.6V		
28	1	screw	4-40 3/8"L PanHead Phillips Steel ZincPlated	90272A108	\$2.02(100)
29	4	screw	4-40 1"L PanHead Phillips Steel ZincPlated	90272A115	\$3.32(100)
30	15	screw	#4 5/16"L RoundHead Phillips BluntHead Steel ZincPlated	90056A107	\$4.04(100)
31	2	screw	#4 1/2"L RoundHead Philips BluntSheetMetal Steel ZincPlated	90056A110	\$4.27(100)
32	26	screw	#2 1/4"L RoundHead Phillips SheetMetalBlunt 18-8SS	92525A110	\$5.39(100)
33	6+	nut	4-40 1/4"W Steel ZincPlated	90480A005	\$1.10(100)
34	1	undef	Ball Caster 5/8"		
35	2	motor	GearMotor TT 3-6V		
36	2	wheel	TT Skinny		
37	1	pcb	L9110S Dual Motor Driver		
38	4	connector	ScrewTerm 5.08mm 2P RisingCage 14-30 AWG green Phoenix	5442206	\$4.10(10)
39	1	pcb	LM2596 DC/DC Buck Convertor Module 2A		
40	3	undef	Heatsink11x11x5mm		
41	1	undef	HeatsinkTape		
42	2	spacer	#2 3/16"OD 3/8"L Nylon Unthreaded	94639A709	\$8.71(100)
43	1	undef	Breadboard		
44	1	pcb	Nano Breakout 2.24x1.81		
45	1	resistor	ResistorNetwork 10k ±2% 9R 10P Bourns	4610M-101-103LF	\$11.50(25)
46	1	pcb	Arduino Nano		
47	2	switch	Switch Toggle		

48	1	fuse	PTC Resettable 30V 1.10AHold 2.2ATrip 0.29"Wx0.56"H	RUEF110	\$0.43(10)
49	1	connector	Conn3.81mm2P		
50	1	undef	Battery 9.6V 1500mAH		



Nano V3.0, Nano Board ATmega328P 5V 16M Micro-Controller Board Compatible with Arduino IDE (Nano x 3 with USB Cable)

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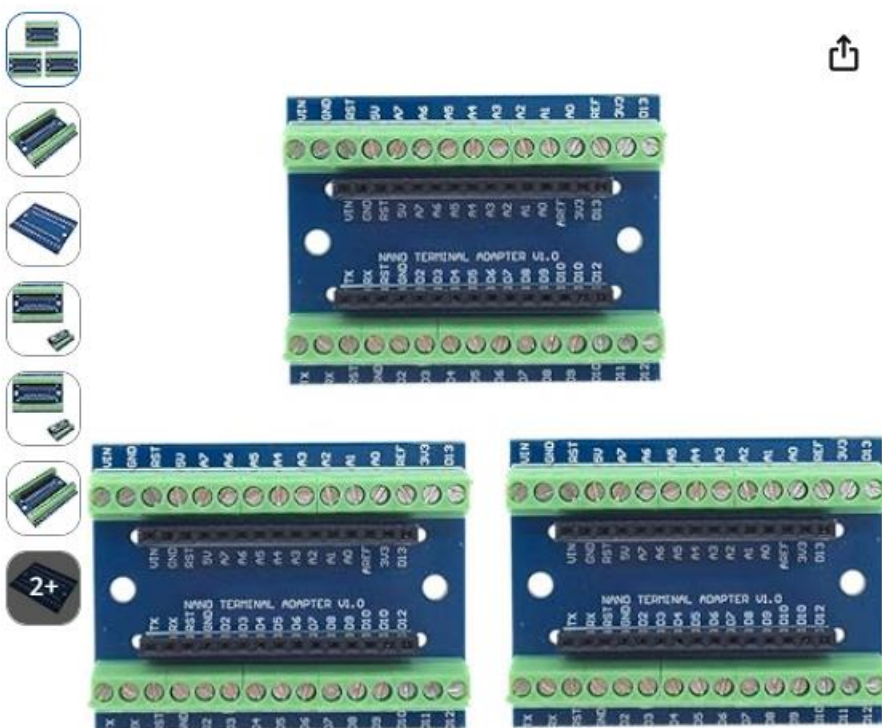
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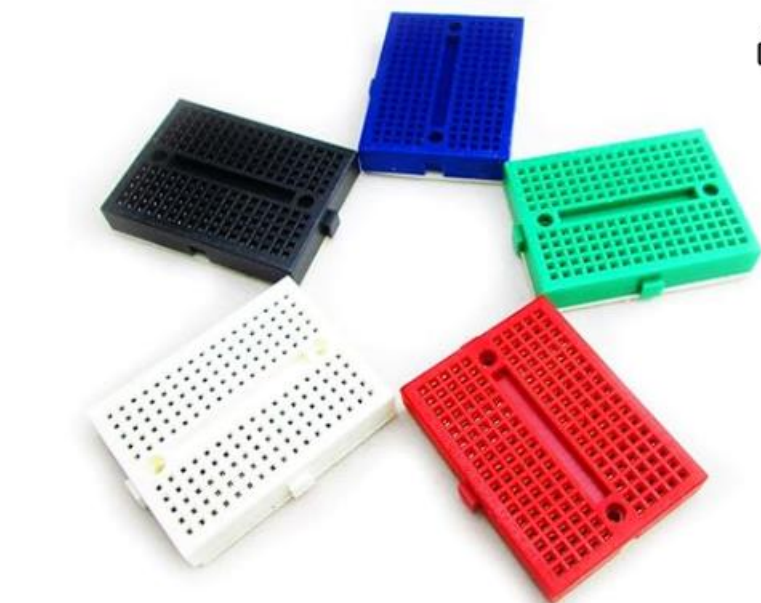
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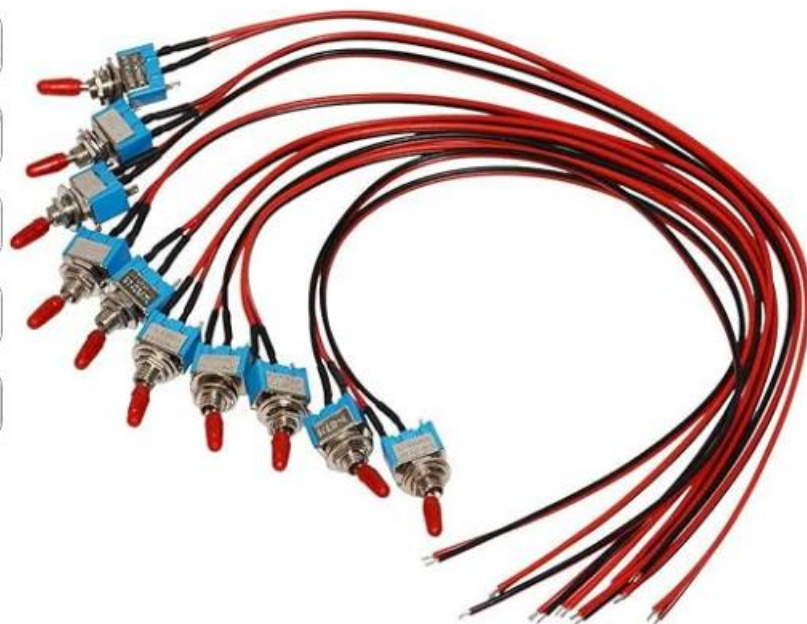
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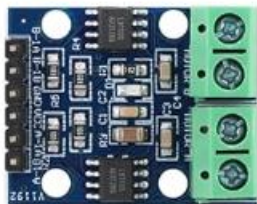
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Brand	BLLREMIPSUR
Material	Nylon
Unit Count	6.0 Count
Item Weight	0.16 Kilograms

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2 VIDEOS



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