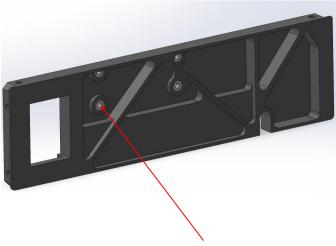


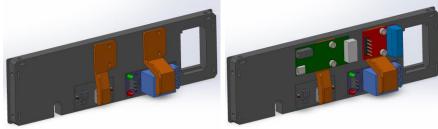
1.1



Parts needed 1x Electronics box front panel 4x M2.5 nut

Push the M2.5 nuts into the holes

1.2

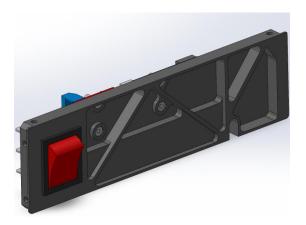


Bolt the components as shown in the picture. Check that the orientation of all electronics are correct.

Parts r	eeded
1x Lidar driver	
1x Voltage & current sensor	
1x Buck module	75
1x Relays	
1x clip A	
1x clip B	1
4x M2.5x6 bolt	•

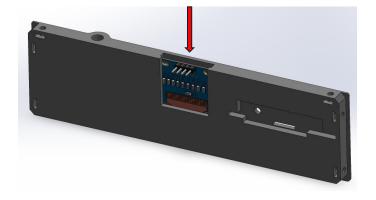
3

1.3



Push the switch into the panel

Parts needed	
1x Switch	



Parts needed

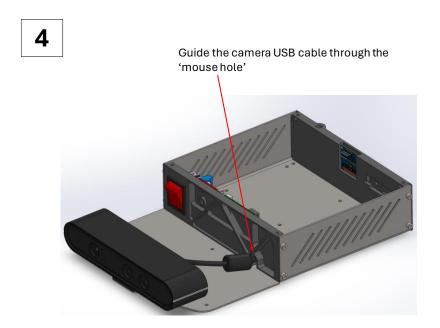
1x Electronics
box rear panel

1x OLED screen

Slide the OLED screen into the panel



Parts needed		
1x Top plate		
1x camera		
1x camera spacer		
2x M2x8 bolt	7	
2x M2 washer	0	

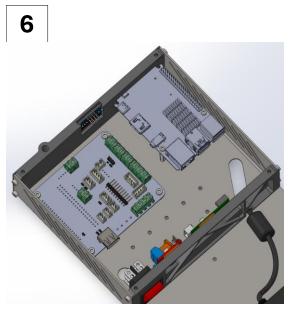


Parts needed	
1x Electronics box front panel	
1x Electronics box rear panel	
8x M3x6 bolt	•

Mount the panels to the top plate by using M3x6 bolts.

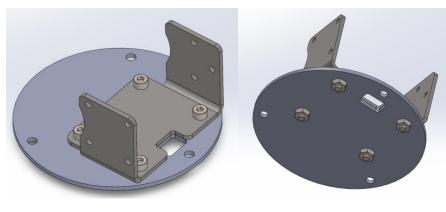
7





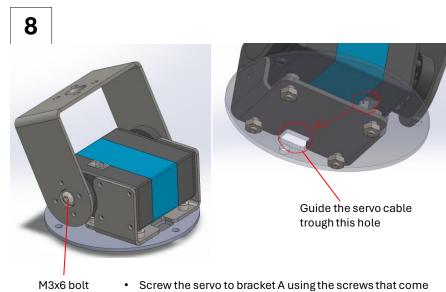
Parts needed	
1x Orange Pi	
1x MIRTE Master PCB	
4x M3x6 bolt	7
2x M2.5x6 bolt	•

Slide the Orange Pi into the 3D print and bolt it onto the two taller standoffs (with two M2.5 bolts). Bolt the MIRTE Master PCB onto the shorter standoffs using M3 bolts.



Parts needed	
1x small top plate	
1x Bracket A	4
4x M2.5x6 bolt	7
4x M2.5 nut	•

Bolt Bracket A to the small top plate



Screw bracket B onto the servo by using the servo horns. Use the screws that come with the servo between bracket

with the servo.

B and the servo horns.

Parts r	eeded
1x bracket B	
1x Orange Servo (I know, it's not orange in the picture)	
2x M3x6 bolt	-
1x Driving servo horn	
1x guiding servo horn	
1x servo cable	-
	=

11

9



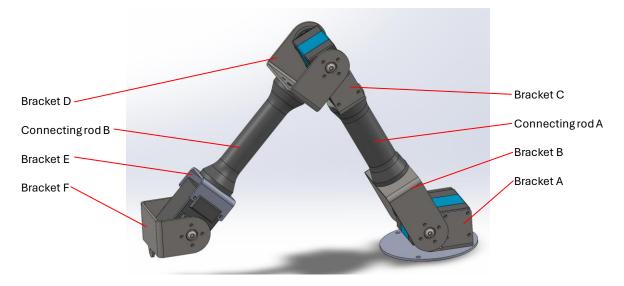
Parts needed	
1x connecting rod A	
4x M3x6 bolt	•

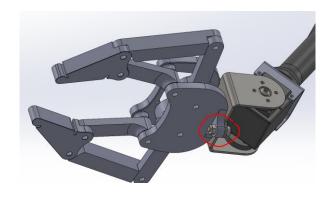
Bolt the connecting rod the bracket B. You will have to push the bolts while fastening them as the holes in de connecting rod are not threaded.

(the larger hole in the middle will be used later for guiding the servo cable)



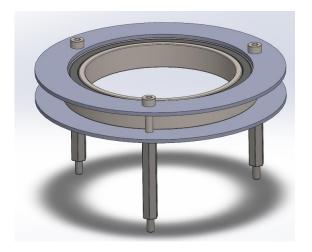
Similarly, add the remaining brackets to the arm. Guide the servo cables through the connecting rods.





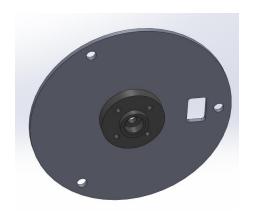
Mount the gripper to the arm

Parts needed	
1x Gripper	
1x M3x16 bolt	-
1x M3 nut	0



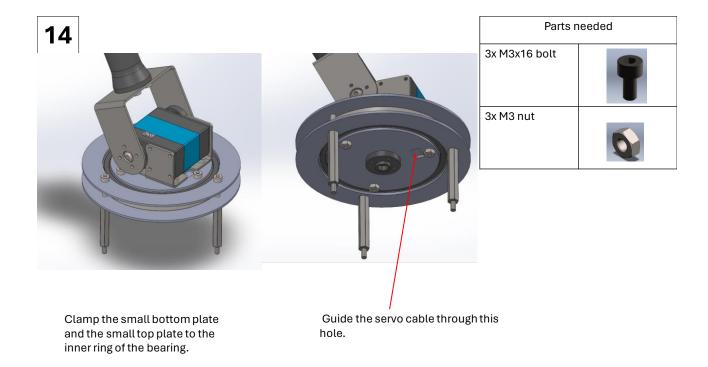
Clamp the large plates to the outer ring of the bearing using the standoffs and nuts.

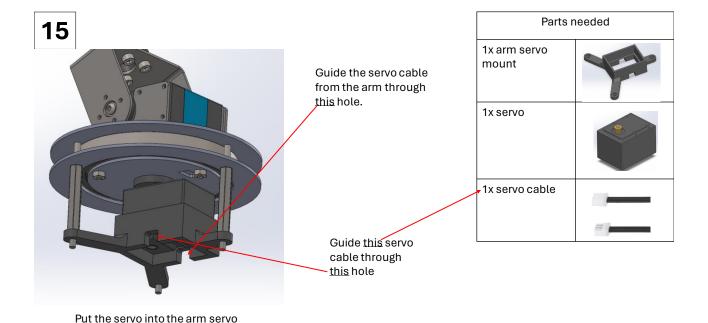
Parts needed	
2x Large plate	
3x standoff M3x35	I
3x M3 nut	•
1x bearing	
3x M3x20 bolt	•



Parts needed	
1x small bottom plate	
1x Driving servo horn	

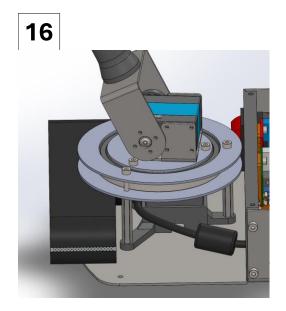
Screw the servo horn to the small bottom plate using the screws that come with the servo.





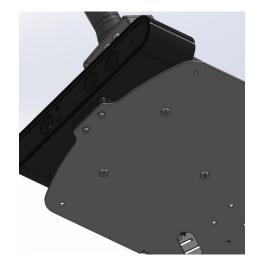
18

mount. Push the arm servo mount onto the standoffs.

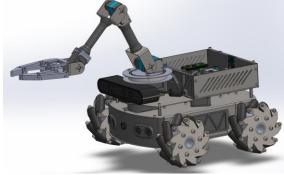








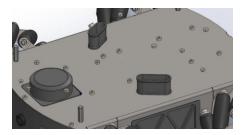
17



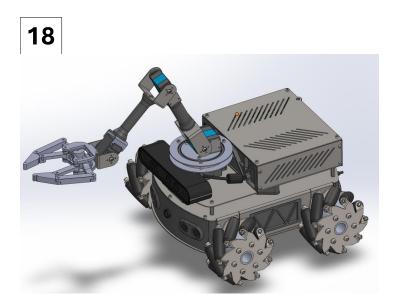
Top plate side

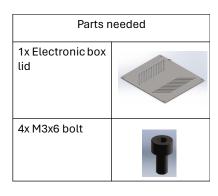
Base side

Parts needed	
1x Cable pass- through A	
1x Cable pass- through B	
4x M3x6 bolt	T



Mount the top plate to the base with M3 bolts. Put the cable pass-throughs between the top plate and the base





Bolt the lid onto the robot and you are done!