

DYNAMIXEL Preparations (XM430-W350-T)

A CAUTION

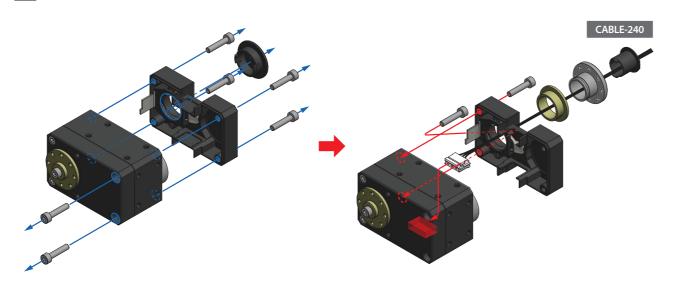
- 1. Please read the assembly manual carefully.
- 2. Please check DYNAMIXEL IDs and lengths of cables, and assemble DYNAMIXELs.
- 3. Please confirm the directions of DYNAMIXELs and the gripper are correct.

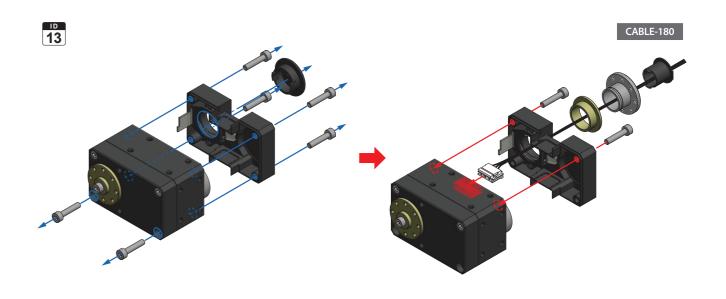
[DYNAMIXEL 11, 15] Remove described bolts.

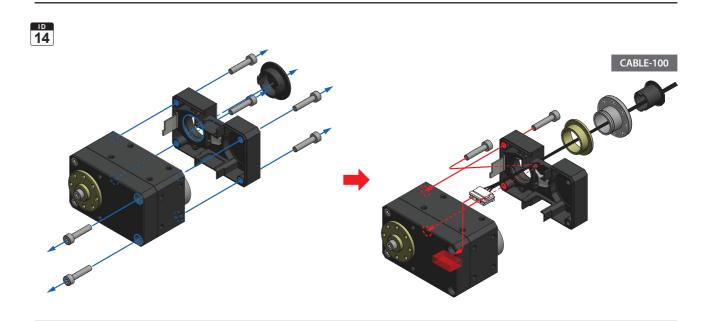
[DYNAMIXEL 12, 13, 14] Pass the cable through hollow back case, DC12-IDLER, DC12-IDLER-CAP and DC12-P-BEARING and connect it into DYNAMIXEL.

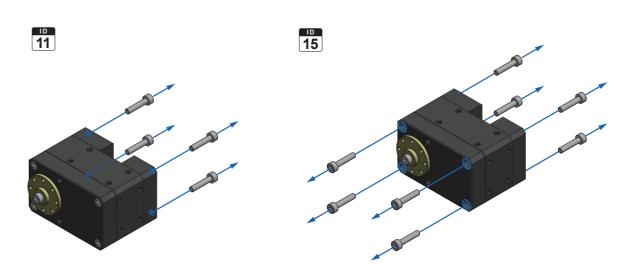






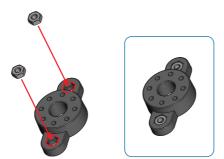






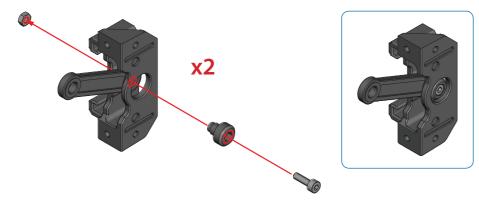


Insert **NUT-M3** from underneath the **CRANK ARM**



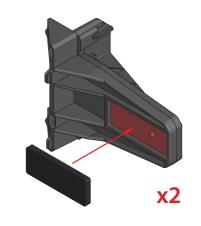
RAIL BLOCK ×2 LINK ROD ×2 0 FLANGE BUSH ×2 NUT-M3 ×2 WB-M3×10 ×2

Assemble LINK ROD in the middle of the RAIL BLOCK using **FLANGE BUSH** and **WB-M3x10**



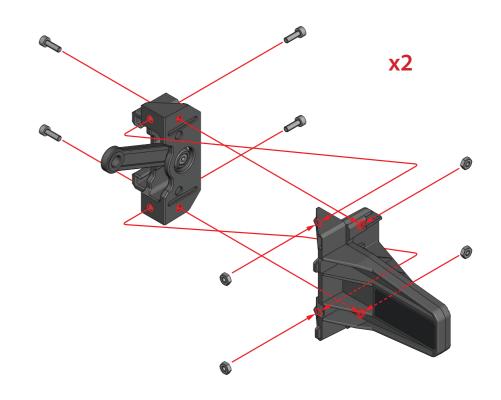


Attach **RUBBER PAD** to the inner side of the PALM GRIPPER

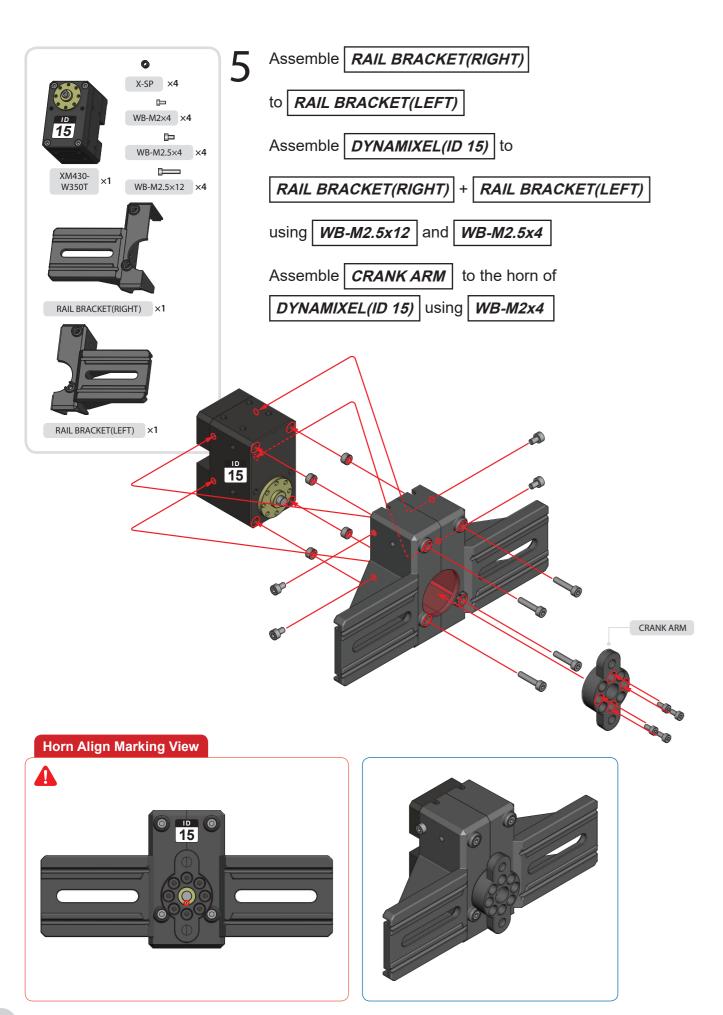


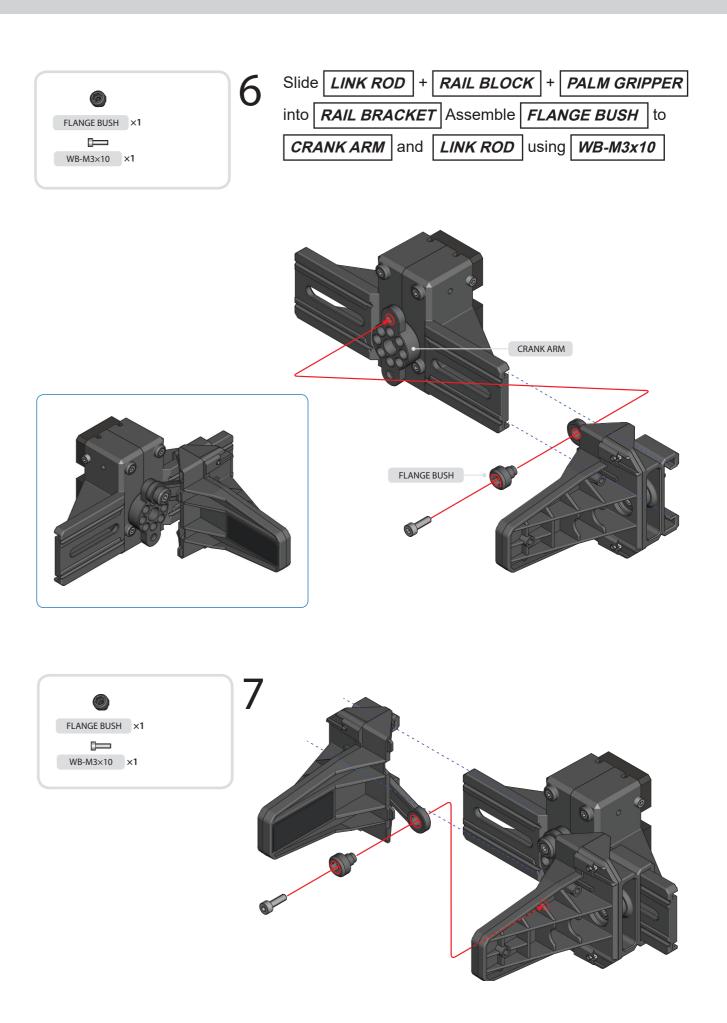


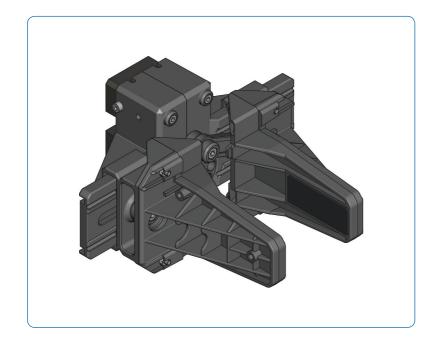






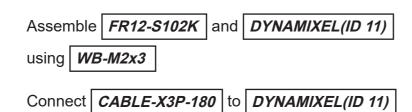




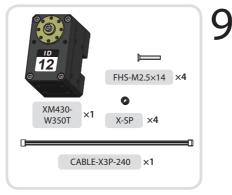


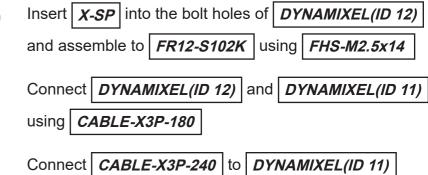


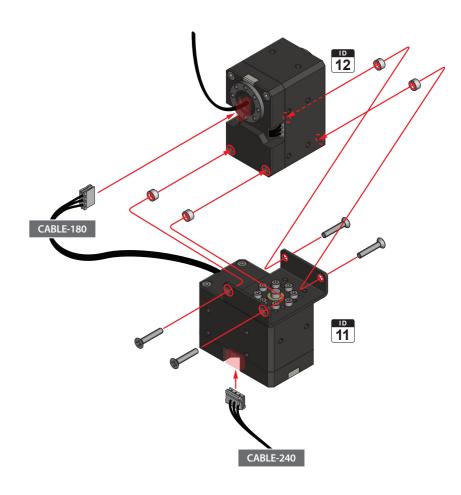


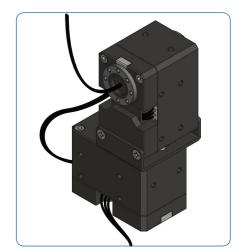






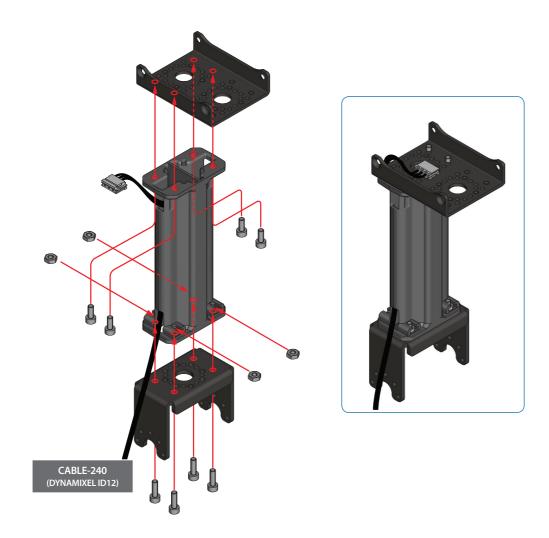


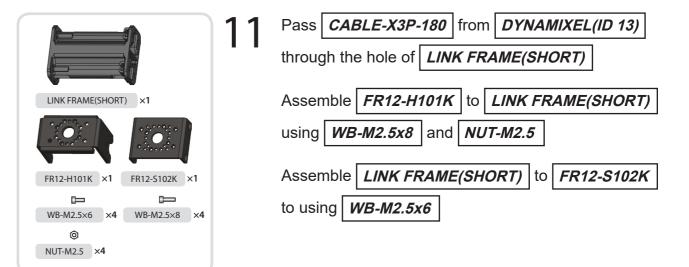


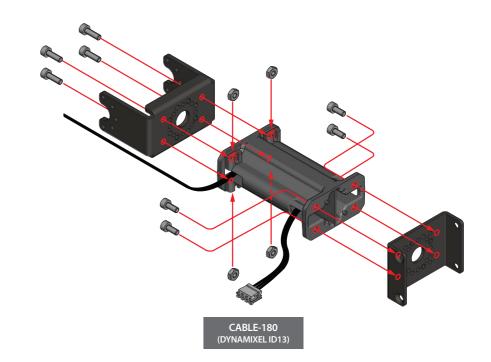


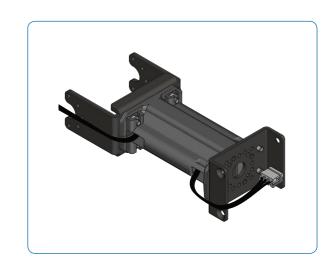


Pass CABLE-X3P-240 from DYNAMIXEL(ID 12) through the hole of LINK FRAME(LONG) Assemble FR12-H101K to LINK FRAME(LONG) using WB-M2.5x8 and NUT-M2.5 Assemble *LINK FRAME(LONG)* to *FR12-S101K* using *WB-M2.5x6*











Assemble **DYNAMIXEL(ID 13)** to **FR12-H101K** using WB-M2x3

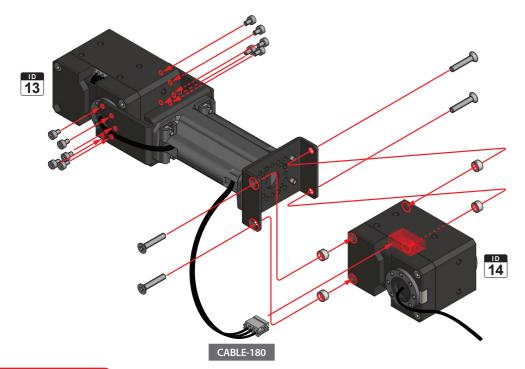
Insert **X-SP** into the bolt holes of

DYNAMIXEL(ID 14) and assemble to

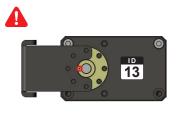
FR12-S102K using **FHS-M2.5x14**

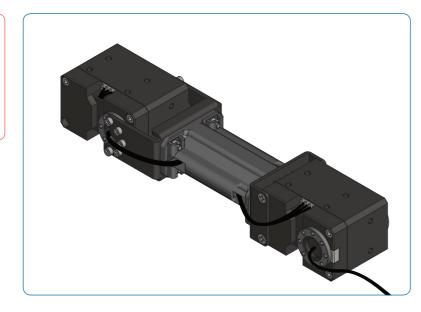
Connect DYNAMIXEL(ID 13) and

DYNAMIXEL(ID 14) using CABLE-X3P-180



Horn Align Marking View

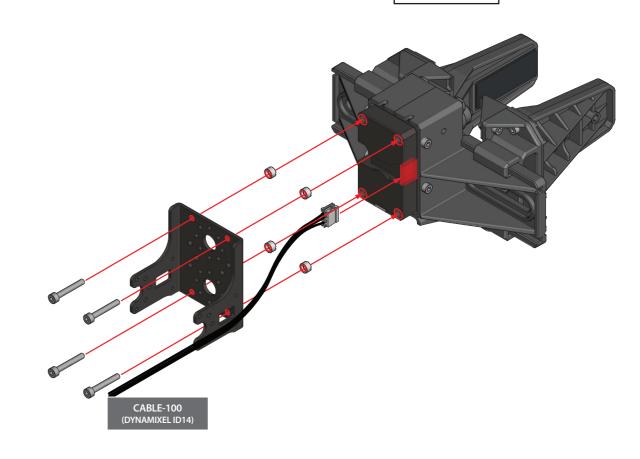


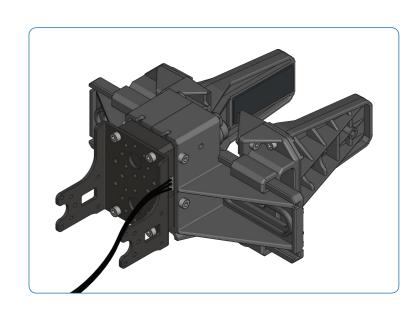


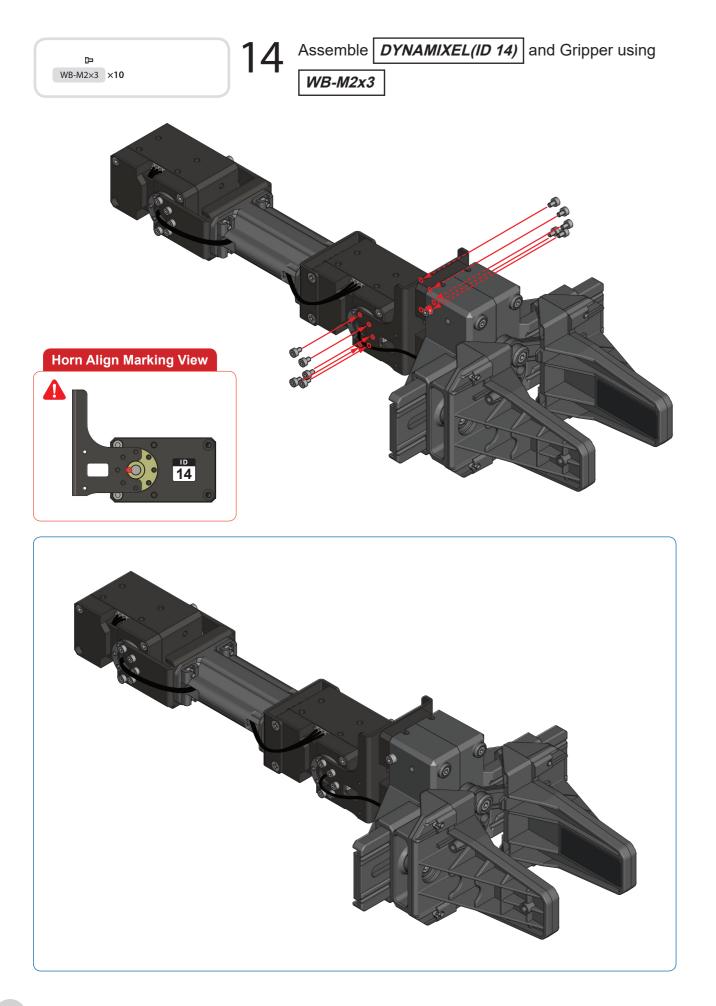


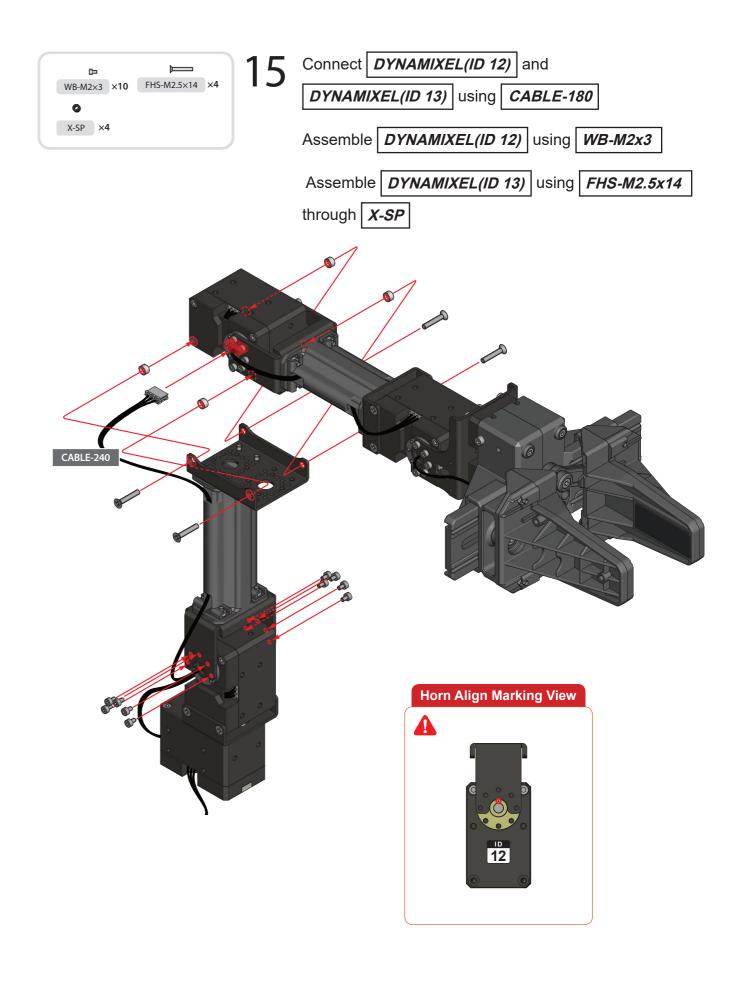
Connect DYNAMIXEL(ID 14) and DYNAMIXEL(ID 15) using CABLE-X3P-100 Insert **X-SP** into the bolt holes of DYNAMIXEL(ID 15) and assemble FR12-H104K

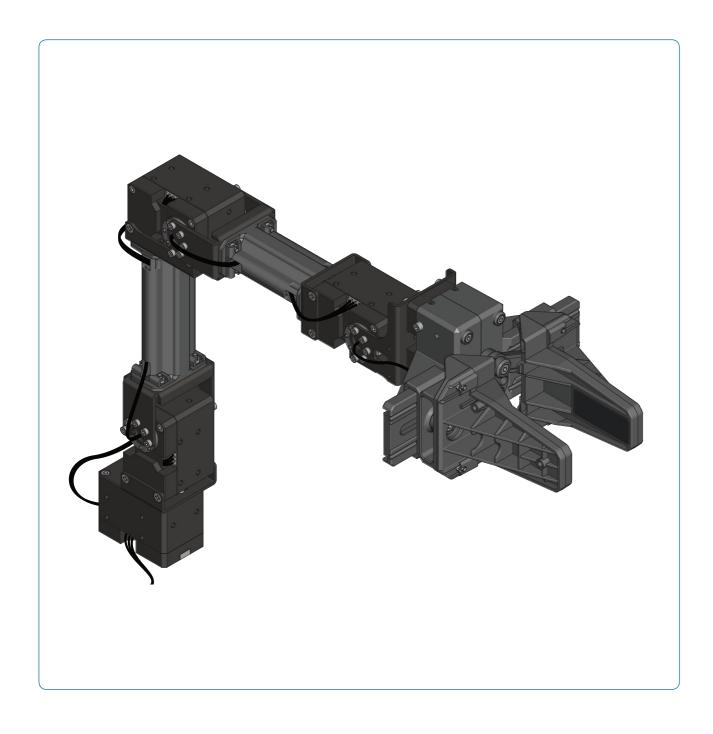
to Gripper using WB-M2.5x17







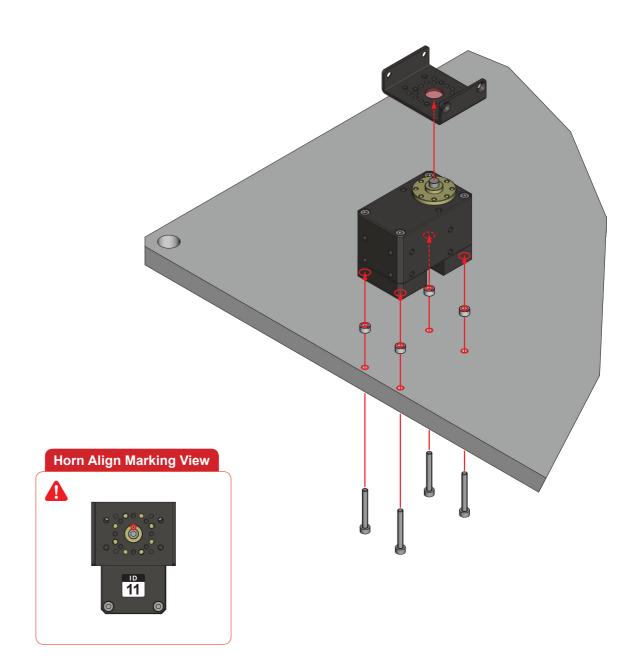




Appendix 1

Assemble DYNAMIXEL(ID 11) and Base Plate-02 using WB-M2.5x20

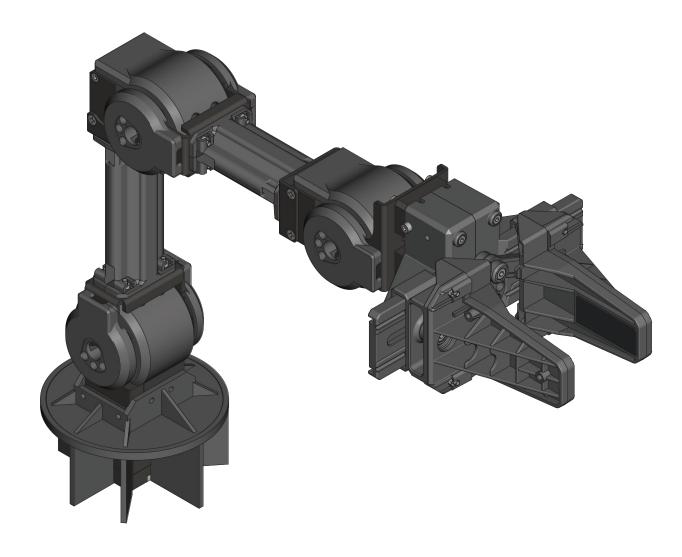




Appendix 2

To prevent substance from getting caught between the DYNAMIXEL and frame,

3D printed optional parts can be attached to OpenManipulator-X. These parts can be downloaded from Thingiverse or Onshape. Please check the QR codes below.



Thingiverse



Onshape



Parts List 1D ~ 1D 15 WB-M2×3 ×38 FHS-M2.5×14 ×12 NUT-M2.5 ×16 WB-M2×4 ×4 NUT-M3 ×4 XM430-W350-T ×5 RAIL BRACKET(RIGHT) ×1 RAIL BRACKET(LEFT) ×1 RAIL BLOCK ×2 WB-M2.5×4 ×4 WB-M2.5×6 ×8 WB-M2.5×8 ×16 WB-M2.5×12 ×4 PALM GRIPPER ×2 LINK FRAME(SHORT) ×1 CRANK ARM ×1 FLANGE BUSH ×4 LINK FRAME(LONG) ×1 WB-M2.5×17 ×4 WB-M2.5×20 ×4 WB-M3×10 ×4 LINK ROD ×2 RUBBER PAD ×2 X-SP ×24 DC12-IDLER ×3 DC12-IDLER-CAP ×3 DC12-P-BEARING ×3 FR12-H101K ×2 FR12-H104K ×1 FR12-S101K ×1 CABLE-X3P-100 ×1 CABLE-X3P-180 ×2 CABLE-X3P-240 ×2 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



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