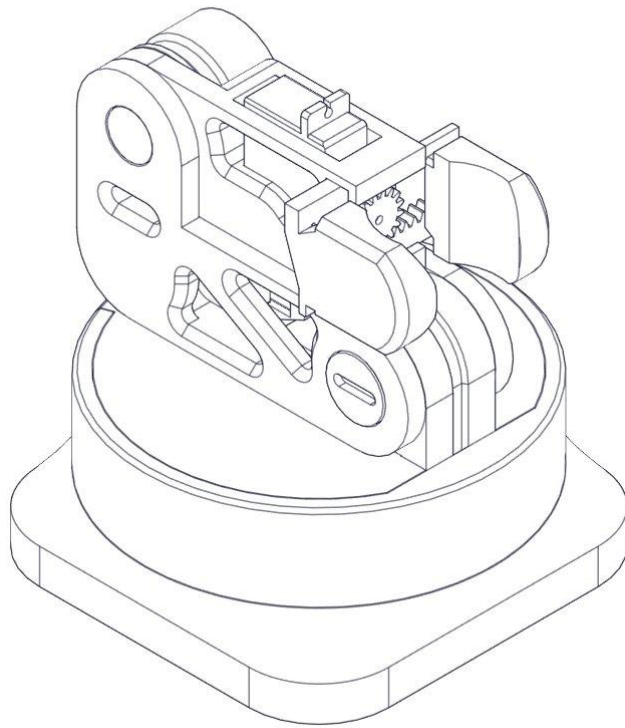


L-ONE Robotic Arm Assembly Guide

Leng 入瑤



Installation takes approximately 30 to 60 minutes

Before installing this model, you must first install the official [148 Gearmotor]. Please refer to steps 1-9 of the [0905 CyberBrick_Forklift_Assembly_Guid.pdf] available on the product page linked below.

CyberBrick Official Forklift: <https://makerworld.com/en/models/1395994-cyberbrick-official-forklift?from=search#profileId-1447783>

组装指南 (4)



CyberBrick_Lift-n-Load_Props_Assembly_Guide.pdf



货架组装指南.pdf



0905 CyberBrick_Forklift_Assembly_Guid.pdf



0905叉车组装指南.pdf

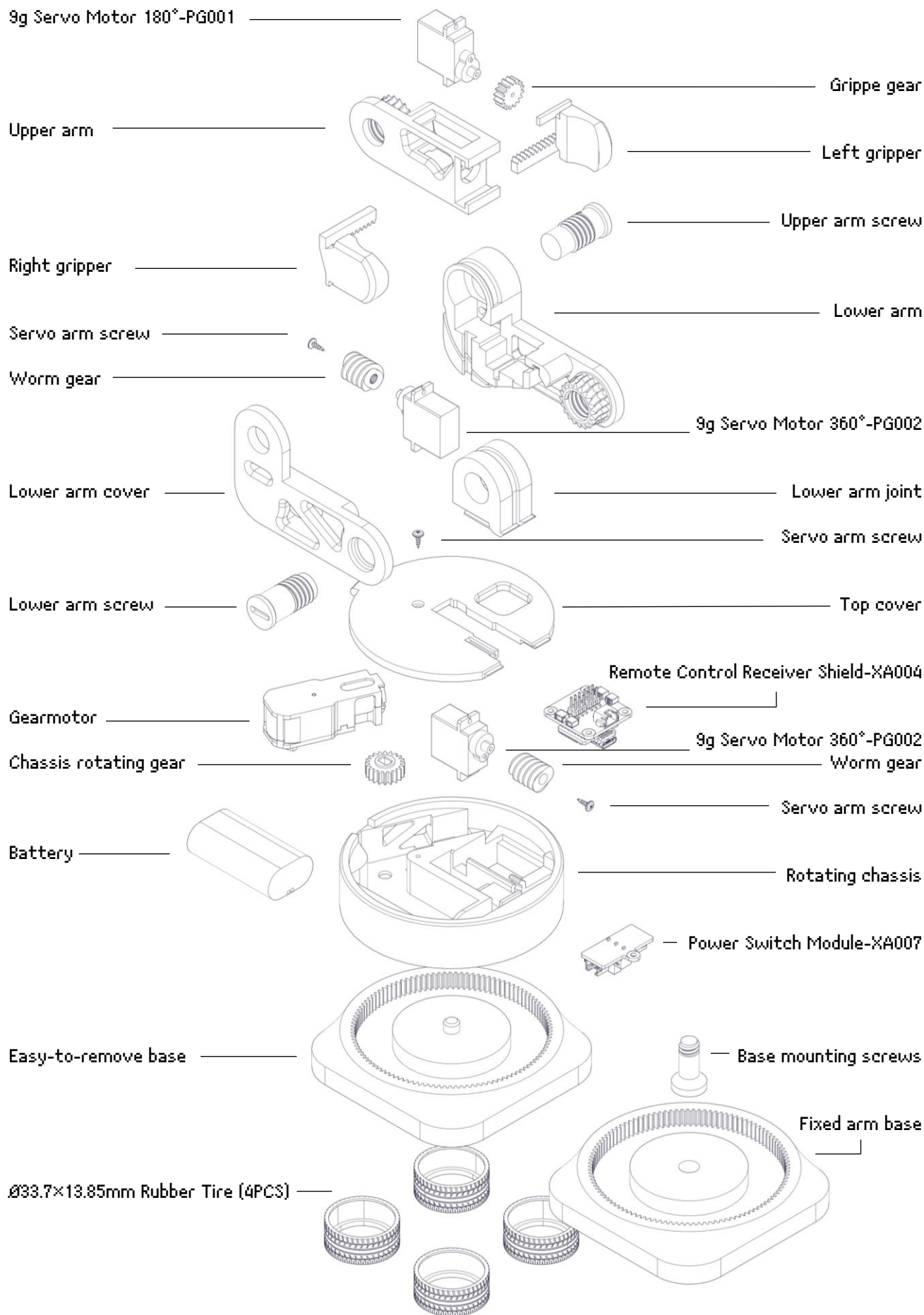


Before installing this model, print and assemble your preferred remote controller. You may choose one of the two remote controller options listed below. (Remember to fully charge your remote controller before use.)

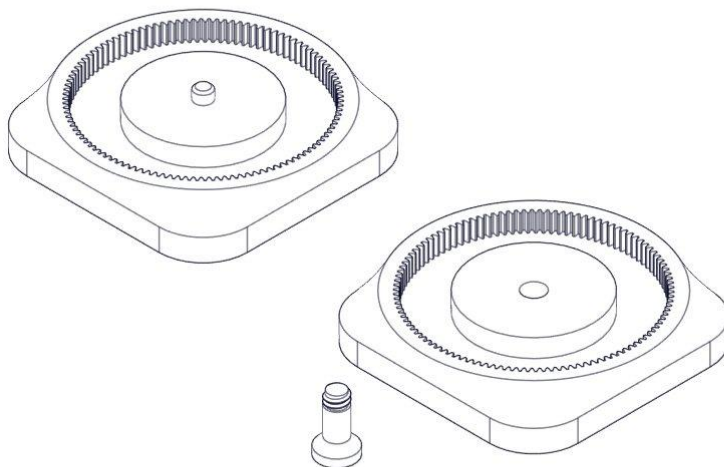


CyberBrick Official Standard Remote: <https://makerworld.com/en/models/1395991-cyberbrick-official-standard-remote#profileId-1446992>

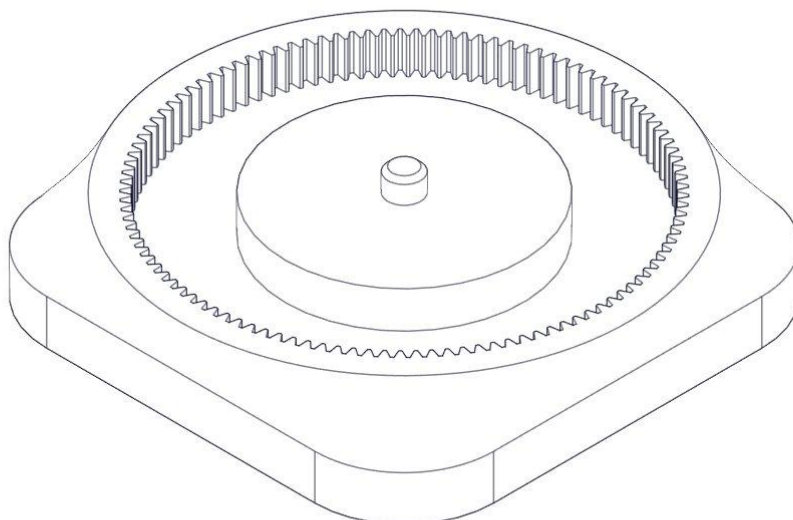
L-ONE Handle Remote Control: <https://makerworld.com/en/models/2029381-l-one-handle-remote-control-no-screws-or-glue-need#profileId-2188408>



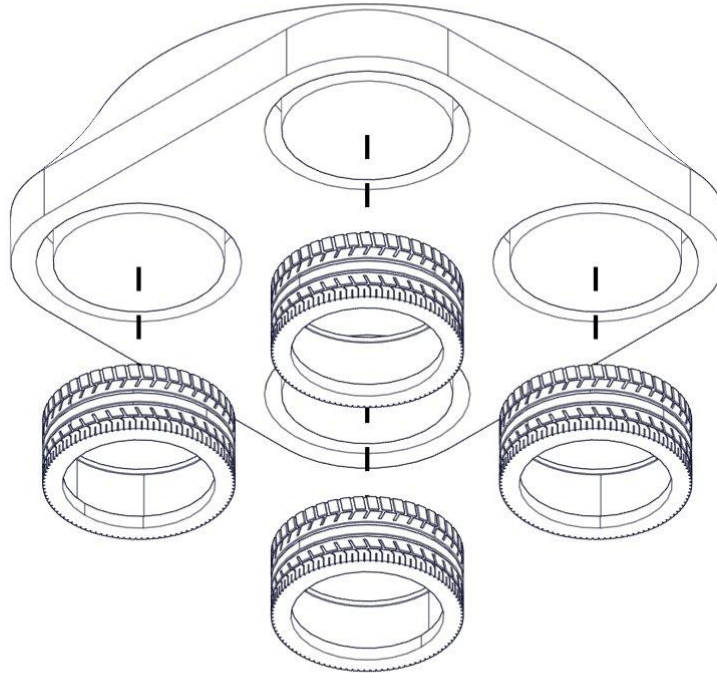
1, Choose your robotic arm base. The version without screws allows for easy installation and removal, while the version with screws can lock the turntable in place.



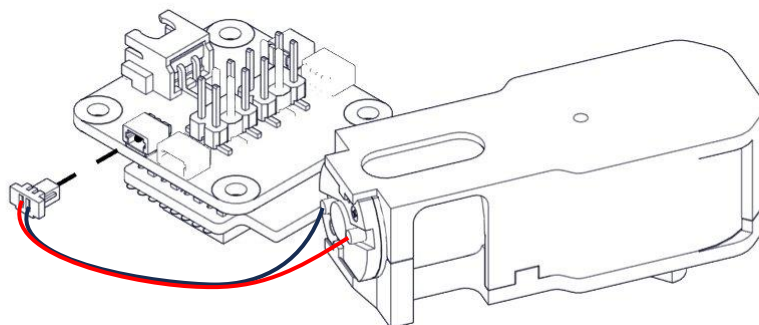
2, This assembly guide demonstrates using the [Easy-to-remove base] without [Base mounting screws].



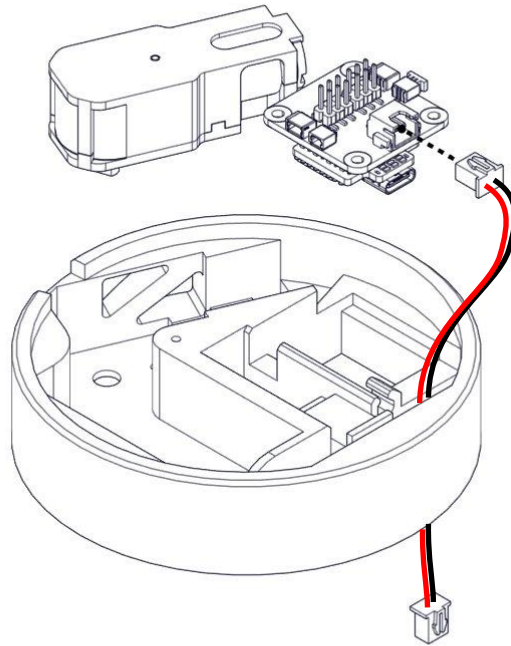
3, Install the 4 [Rubber Tire] included in the kit into the circular slots on the underside of the base.



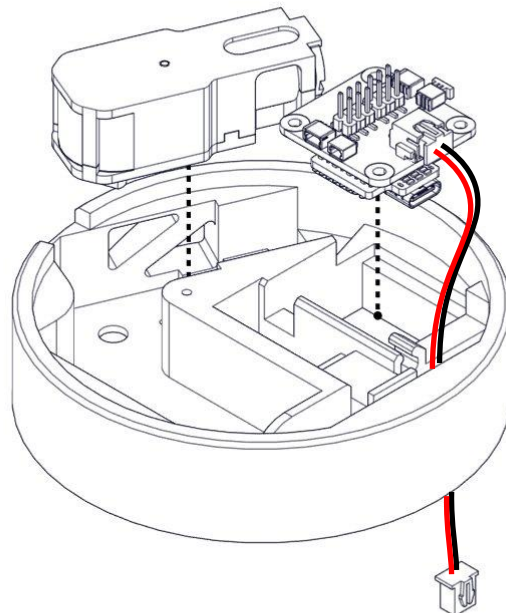
4, Plug the [Gearmotor] cable into the corresponding port on the [Remote Control Receiver Shield-XA004]. (Cables already connected will be omitted from subsequent illustrations.).



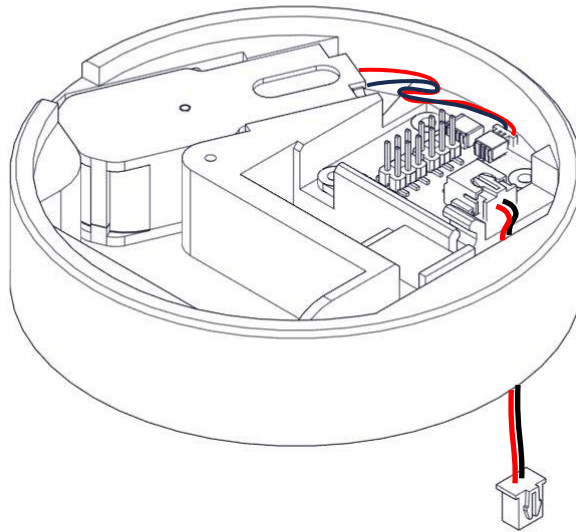
5, Insert one end of the [Power extension cable] into the corresponding port on the [Remote Control Receiver Shield-XA004], then thread the cable through the hole in the [Rotating chassis].



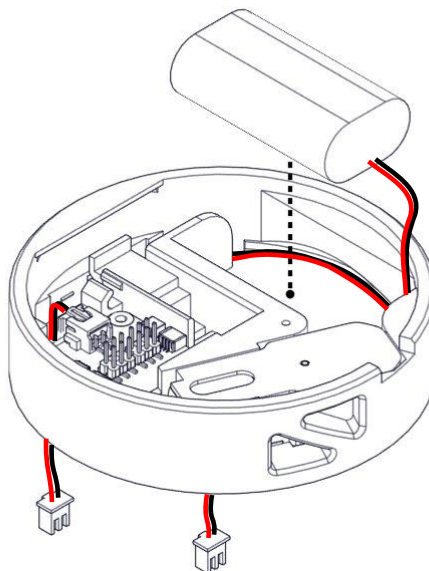
6, Install the [Gearmotor] and [Remote Control Receiver Shield-XA004] into their corresponding slots in the [Rotating chassis].



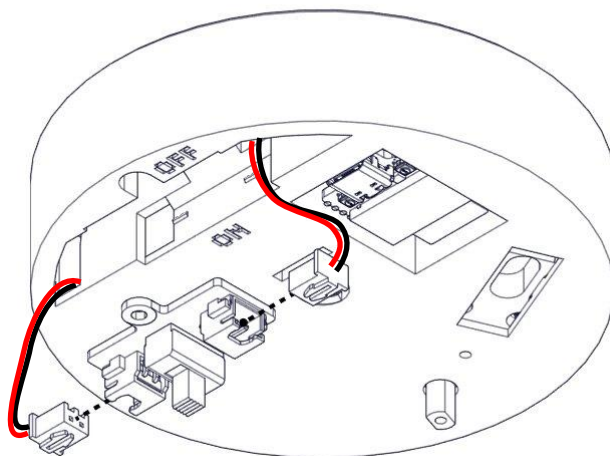
7, Fold the [Gearmotor] cable and tuck it into the position shown in the illustration.



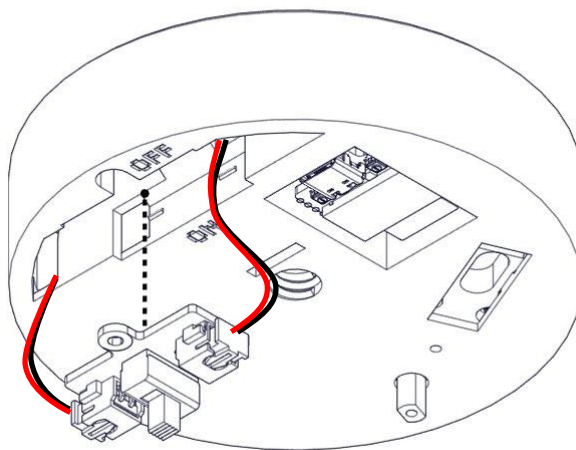
8, Thread the [Battery] cable through the hole in the [Rotating chassis] and tuck it into the arc-shaped groove on the side as shown. Then install the [Battery] into the corresponding slot in the [Rotating chassis].



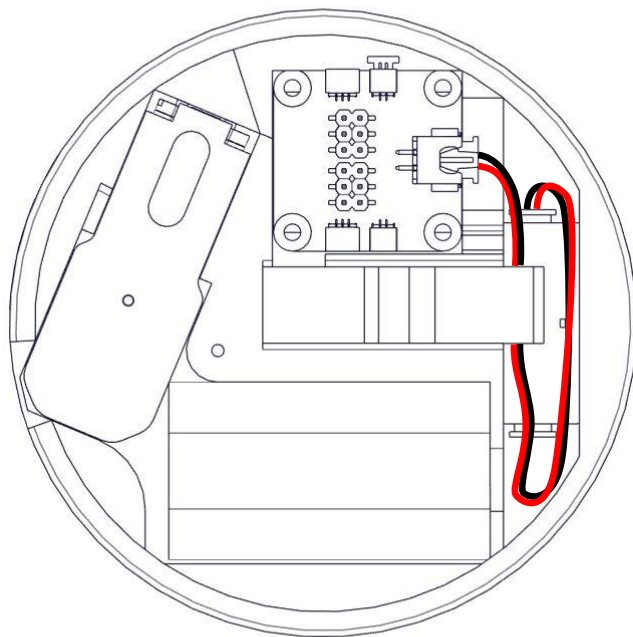
9, Flip the [Rotating chassis] over to its bottom side. Insert the two plugs into the left and right ports of the [Power Switch Module-XA007].



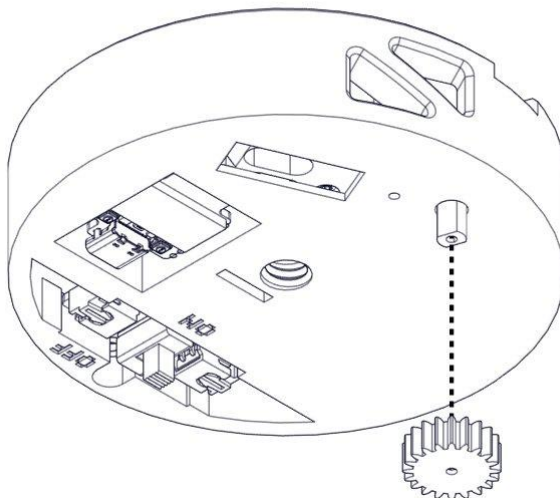
10, Install the [Power Switch Module-XA007] into the slot on the bottom of the [Rotating chassis]. Press firmly until you hear a click, indicating it is seated. Ensure the switch is in the OFF position.



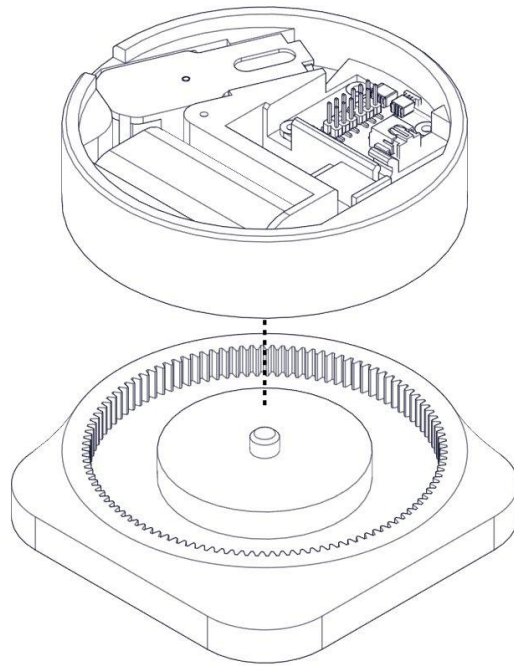
11, Fold the excess [Power extension cable] and tuck it into the cable management channel as shown.



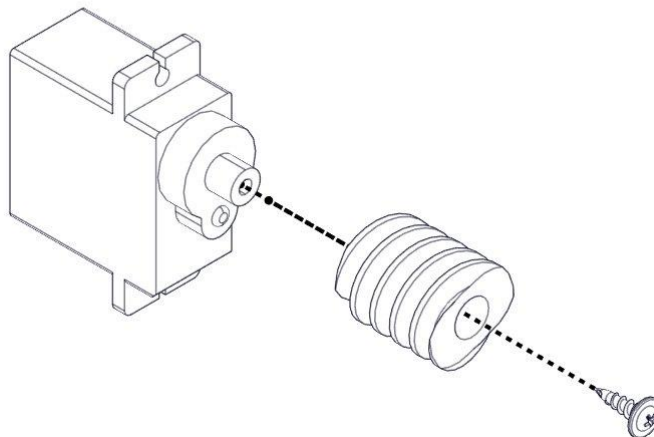
12, Install the [Chassis rotating gear] onto the [Gearmotor] shaft protruding from the bottom of the [Rotating chassis]. Press firmly to seat it.



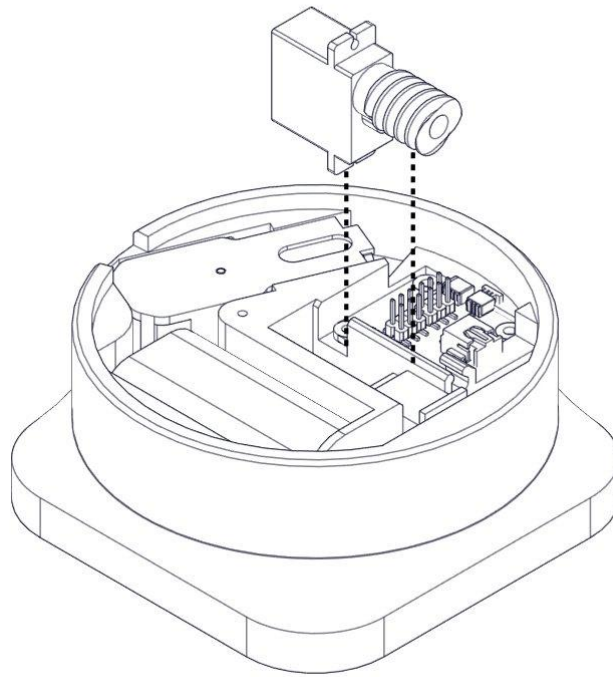
13, Place the assembled [Rotating chassis] onto the [your chosen base] (and tighten the [Base mounting screws] if applicable) to prepare for subsequent assembly steps.



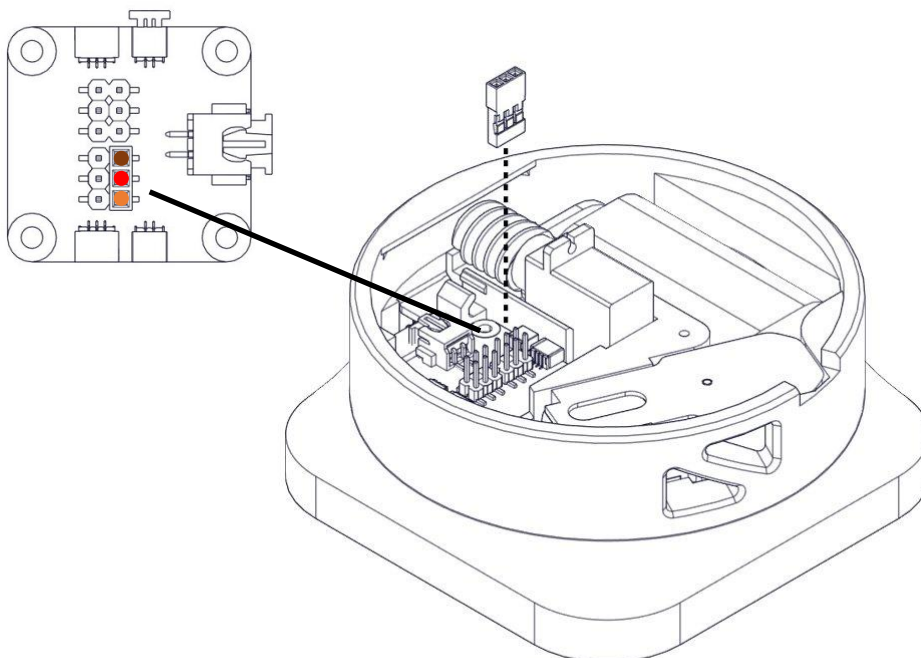
14, Firmly press the [Worm gear] onto the shaft of the [9g Servo Motor 360°-PG002]. Then use the longer [Servo arm screw] included in the servo horn kit to thread the screw into the worm gear.



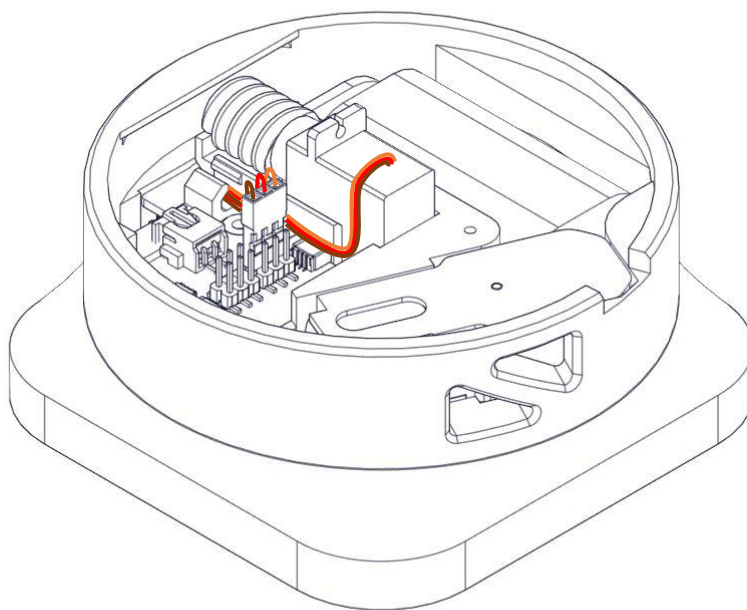
15, Install the [9g Servo Motor 360°-PG002] together with the [Worm gear] into their corresponding slots in the [Rotating chassis]



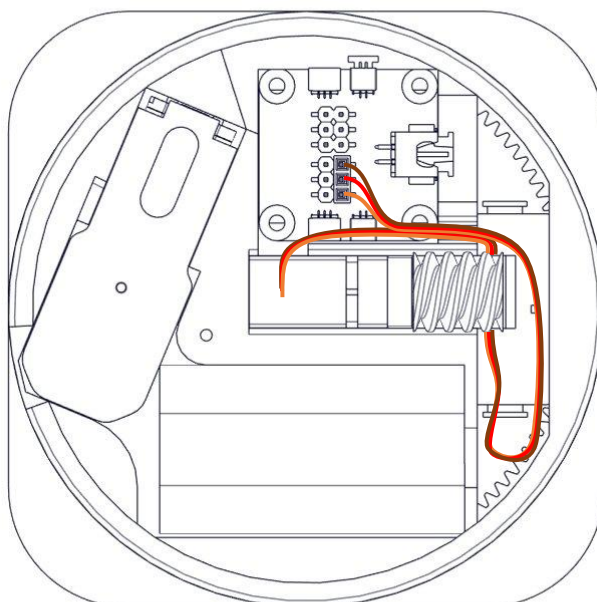
16, Insert the [9g Servo Motor 360°-PG002] cable connector into the 3-pin port on the [Remote Control Receiver Shield-XA004] as shown. Verify that the **brown**, **red**, and **yellow** wires are aligned with their correct pin positions.



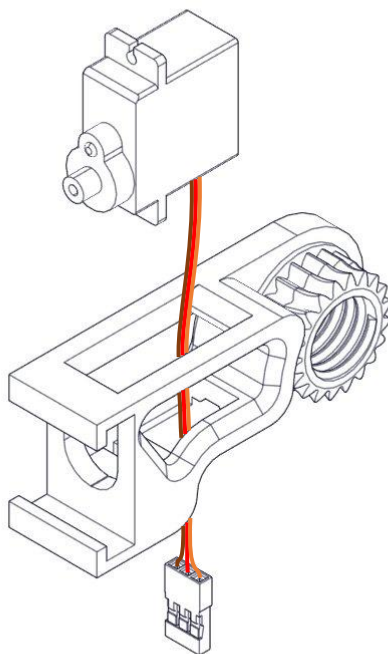
17, Fold the [9g Servo Motor 360°-PG002] cable as shown and clip it into the cable channel.



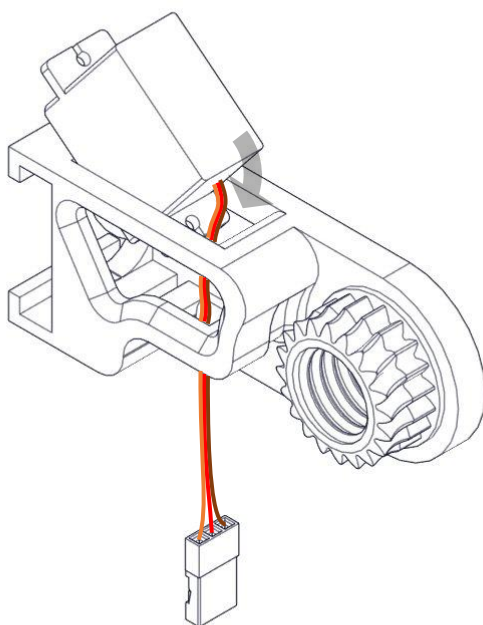
18, Fold the [9g Servo Motor 360°-PG002] cable as shown and tuck it into the cable management channel.



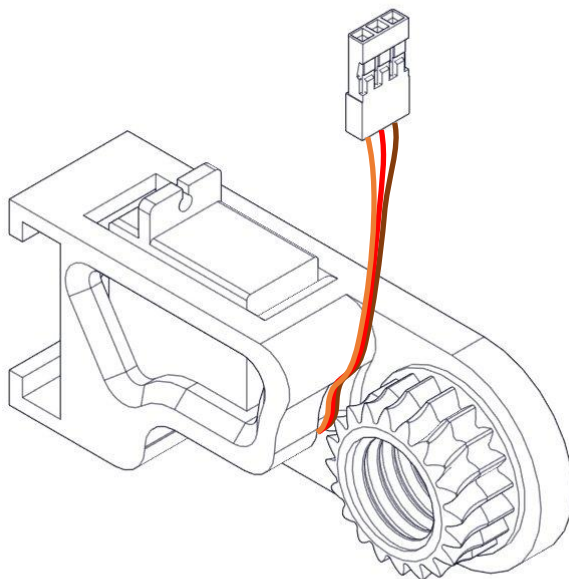
19, Thread the [9g Servo Motor 180°-PG001] cable through the hollow passage inside the [Upper arm].



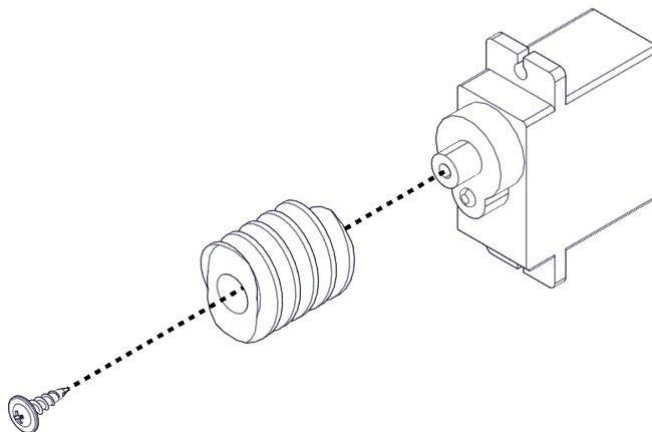
20, the head of the [9g Servo Motor 180°-PG001] at an angle into the slot inside the [Upper arm], then rotate it to seat the servo fully into the slot.



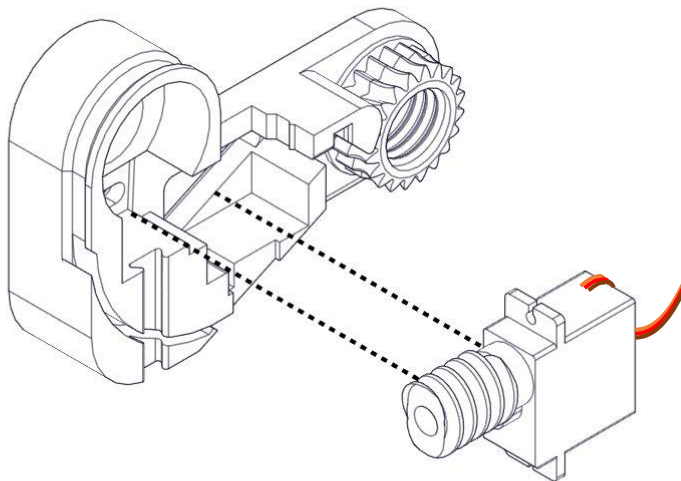
21, Route the [9g Servo Motor 180°-PG001] cable along the cable management channel and wrap it as shown.



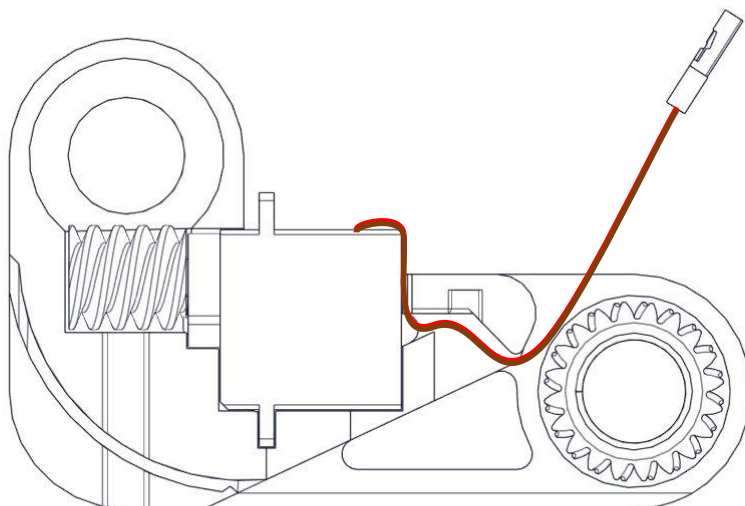
22, Firmly press the [Worm gear] onto the shaft of the [9g Servo Motor 360°-PG002]. Then use the longer [Servo arm screw] included in the servo horn kit to thread the screw into the worm gear.



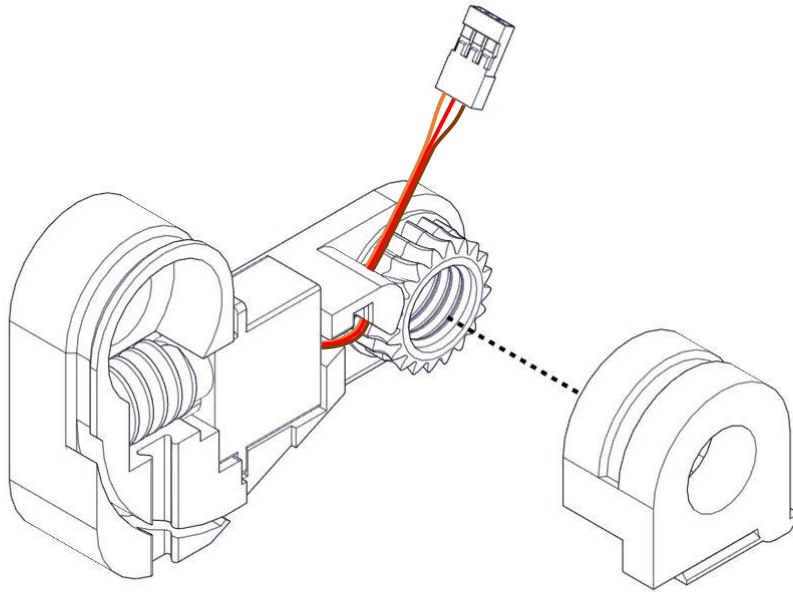
23, Arrange the [9g Servo Motor 360°-PG002] cable as shown, and simultaneously install the servo into the slot of the [Lower arm].



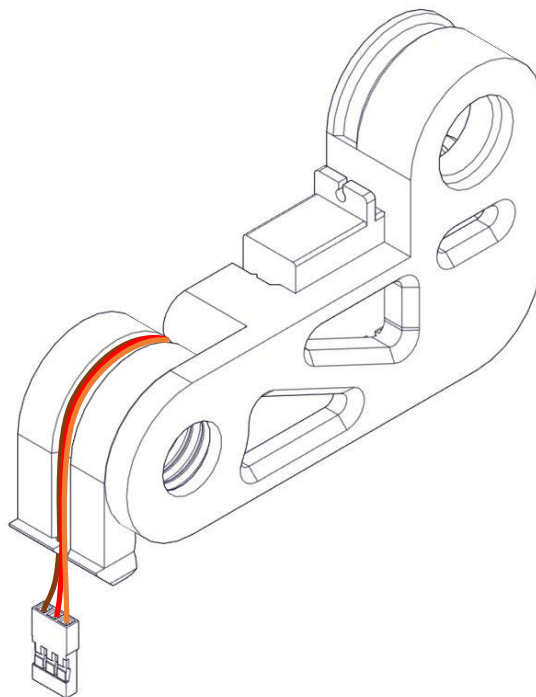
24, Clip the [9g Servo Motor 360°-PG002] cable into the cable management channel and wrap it as shown.



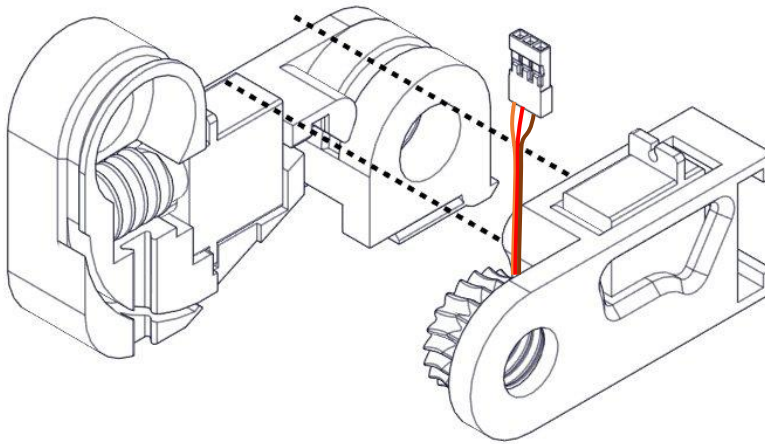
25, Install the [Lower arm joint] into the worm wheel of the [Lower arm], and route the [9g Servo Motor 360°-PG002] cable into the cable management channel of the [Lower arm joint].



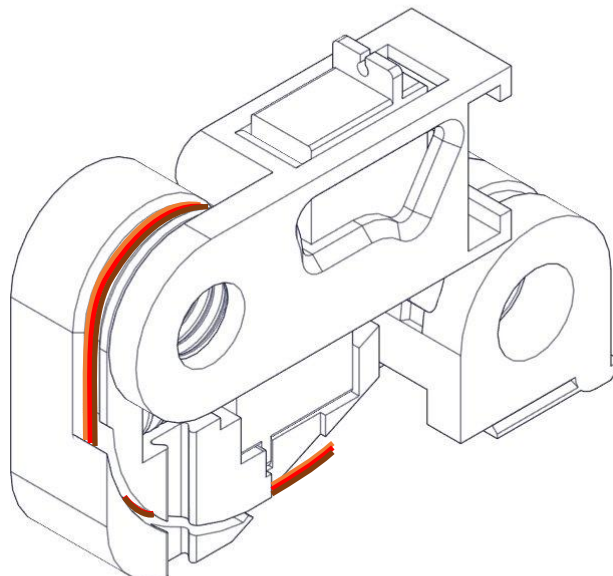
26, Wrap the [9g Servo Motor 360°-PG002] cable into the cable management channel of the [Lower arm joint] and clip it into the cable clamp as shown.



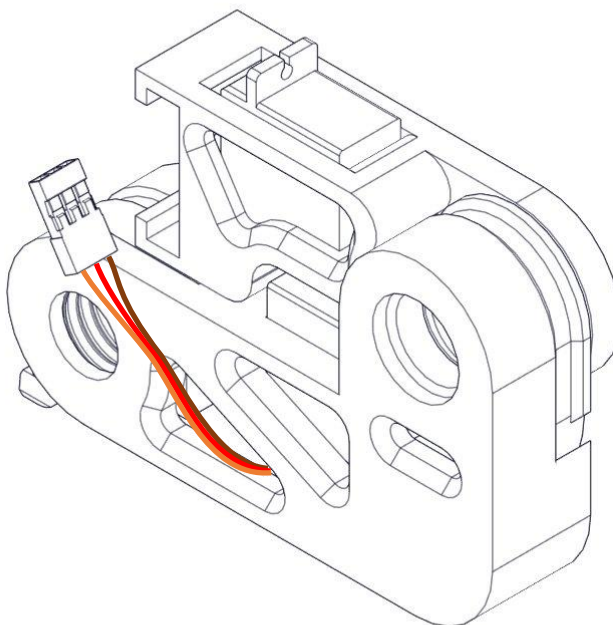
27, Install the previously assembled [Upper arm] into the slot of the [Lower arm].



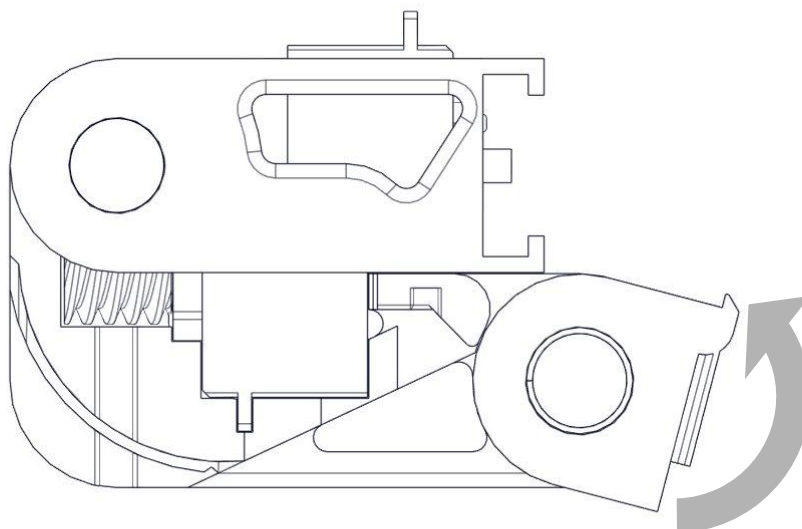
28, Wrap the [9g Servo Motor 180°-PG001] cable as shown and press it fully into the cable management channel. The cable must not protrude above the surface of the channel.



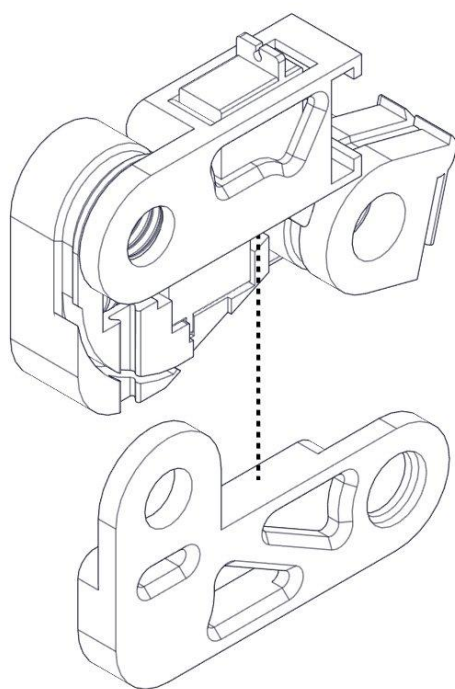
29, Feed the [9g Servo Motor 180°-PG001] cable connector through the hole in the [Lower arm] as shown.



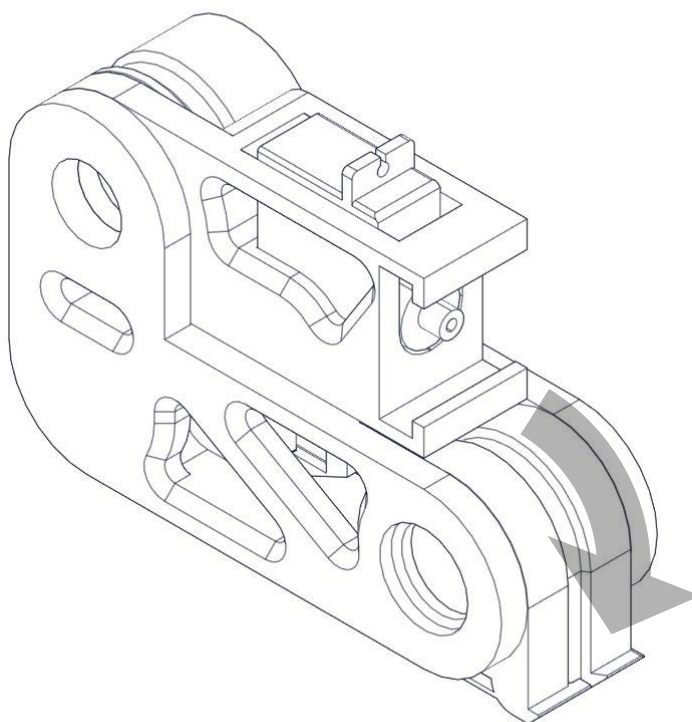
30, Rotate the [Lower arm joint] to the angle shown in the illustration.



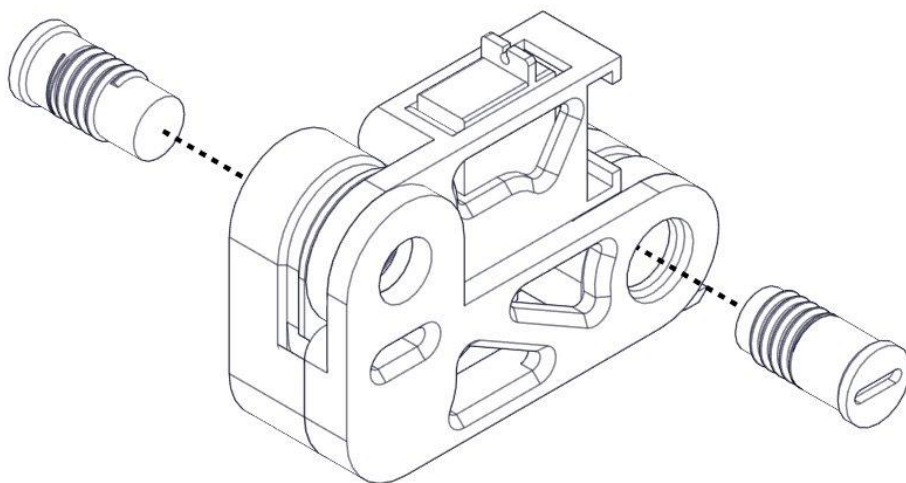
31, Slide the [Lower arm cover] into the [Lower arm] through the slide channel.



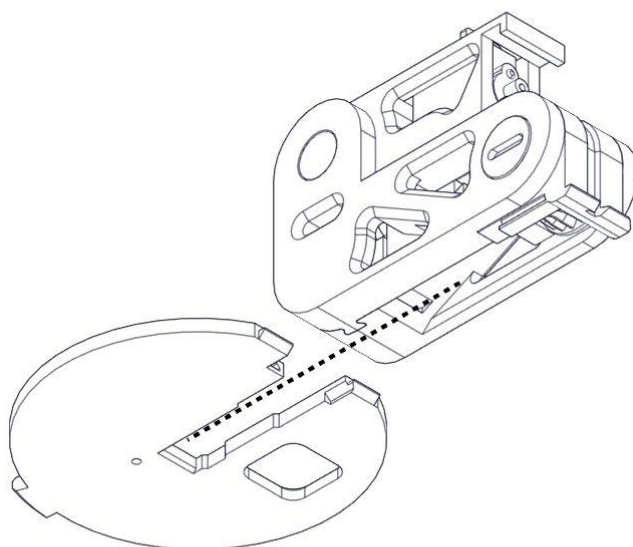
32, Rotate the [Lower arm joint] and observe whether it moves smoothly.



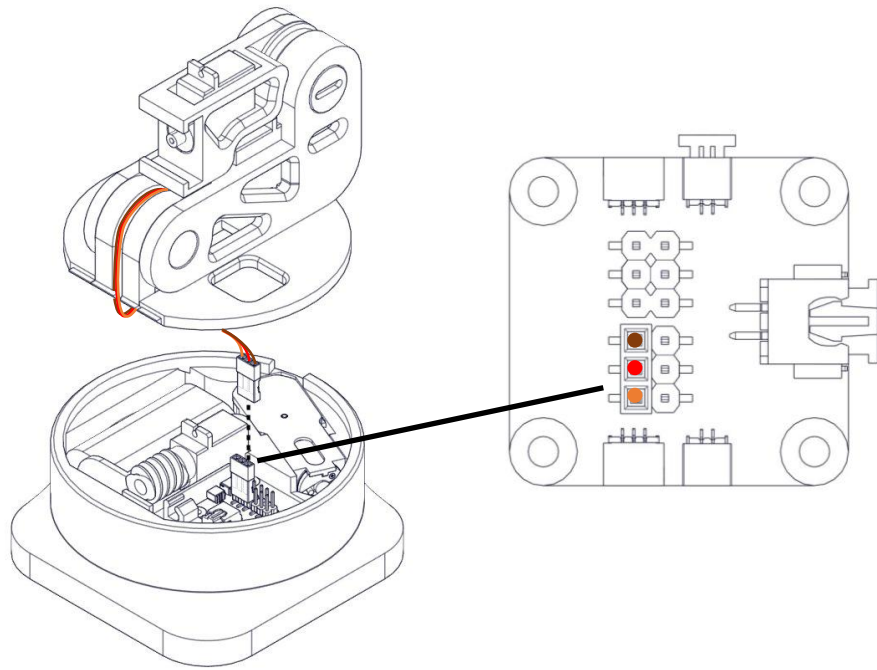
33, Thread the [Upper arm screw] (which has a longer unthreaded section at the tip) and the [Lower arm screw] into the [Upper arm] and [Lower arm cover] respectively.



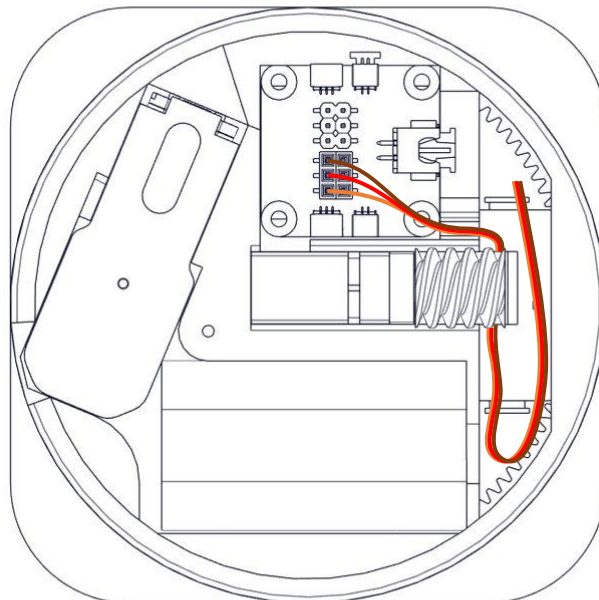
34, Slide the [Top cover] into the slide channel of the [Lower arm joint].



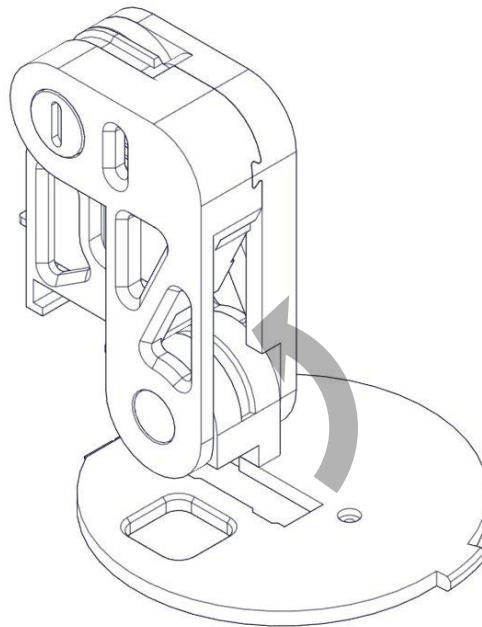
35, Insert the [9g Servo Motor 360°-PG002] cable connector into the 3-pin port on the [Remote Control Receiver Shield-XA004] as shown. Verify that the **brown**, **red**, and **yellow** wires are aligned with their correct pin positions.



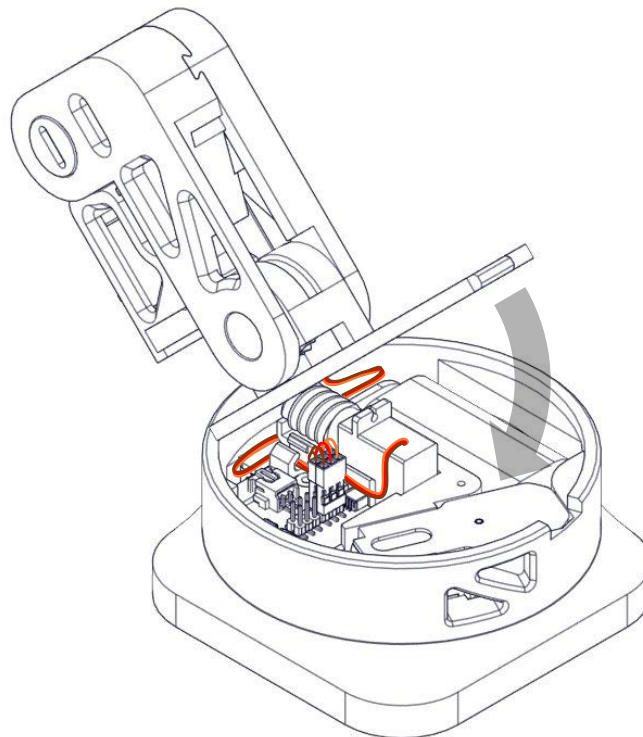
36, Clip the excess length of the [9g Servo Motor 360°-PG002] cable into the cable management channel as shown.



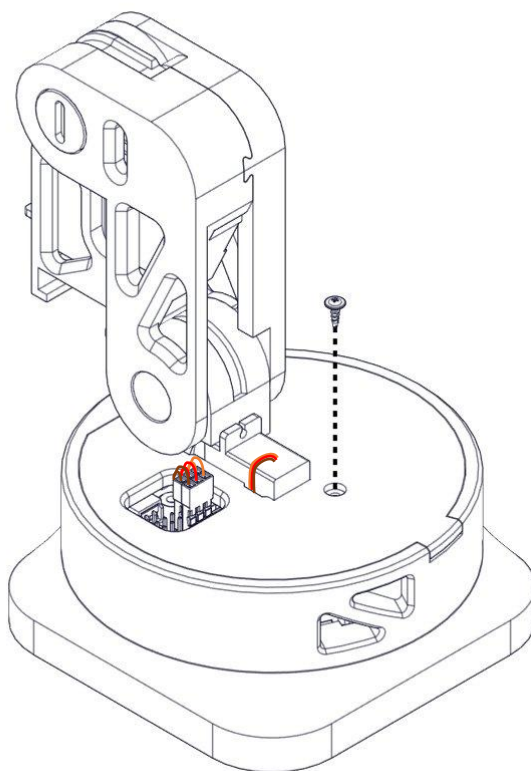
37, Rotate the robotic arm to a position perpendicular to the [Top cover] as shown.



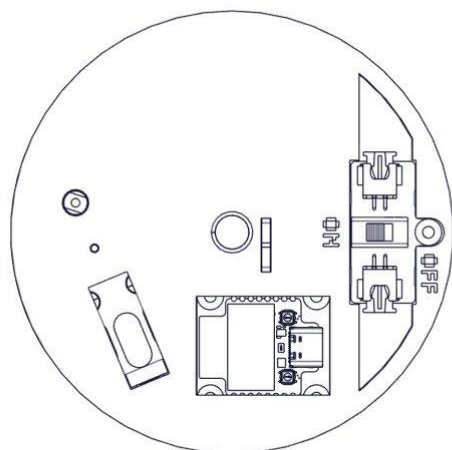
38, First insert the front end of the [Top cover] into the inner groove of the [Rotating chassis], then press the [Top cover] downward to close the [Rotating chassis]. During this process, tuck any cables that obstruct the assembly into the cable management channels.



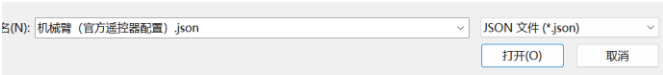
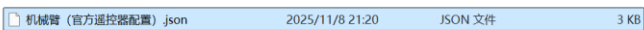
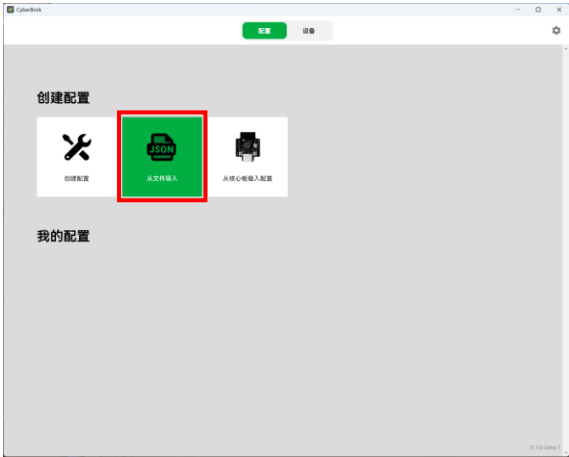
39, Thread the [Servo arm screw] into the screw hole on the [Top cover] as shown.



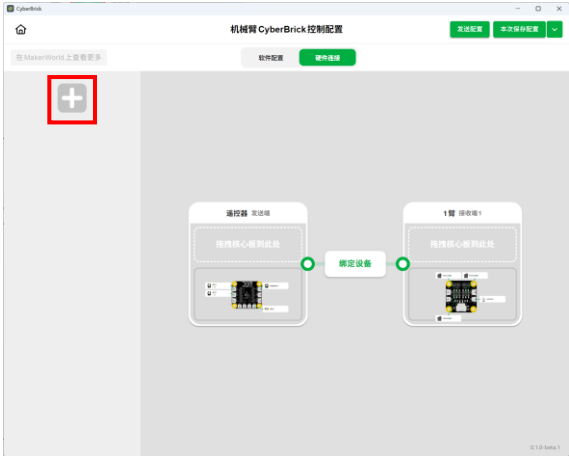
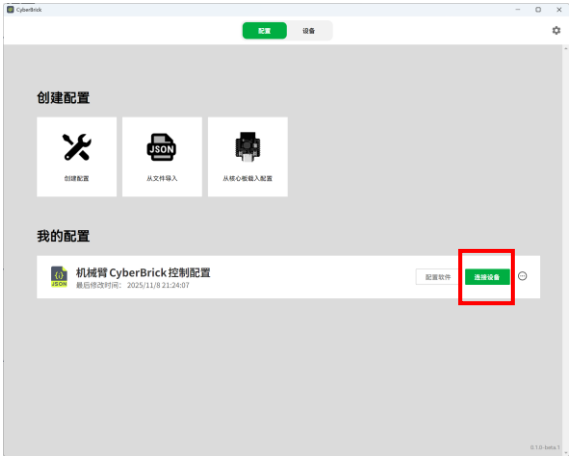
40, Flip the switch on the bottom of the [Rotating chassis] to the ON position, then turn on your remote controller.



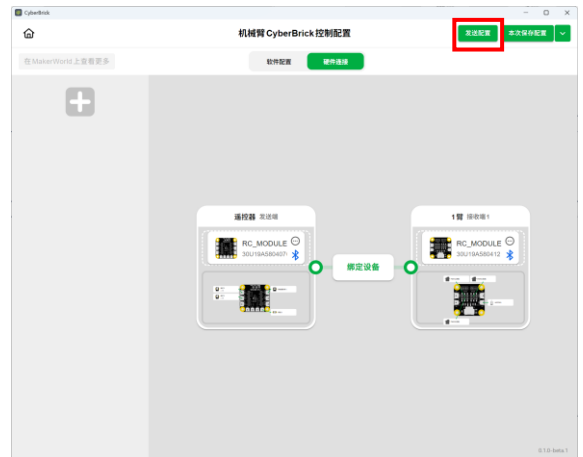
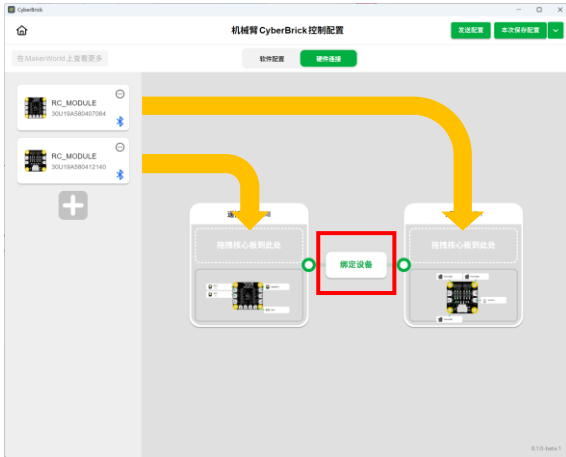
41、Open the CyberBrick app. Under [Create Configuration], select [Import from File], then open the [Robotic Arm (Official Remote Controller Configuration)].



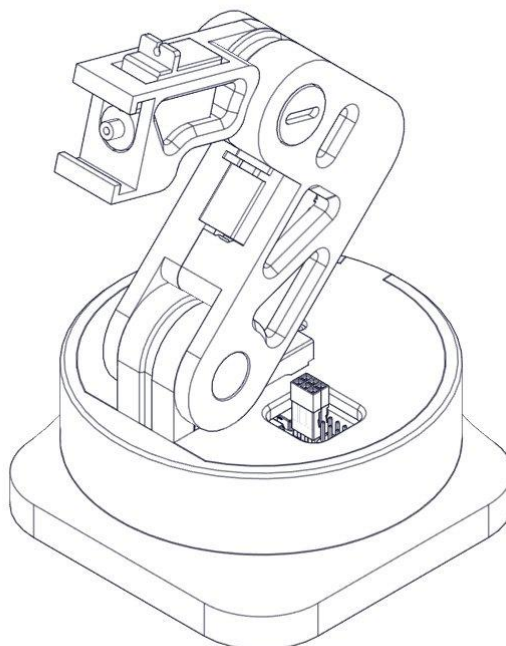
42、In [My Configurations], select [Connect Device]. Tap the plus button on the left to connect both the CyberBrick transmitter board and the receiver board.



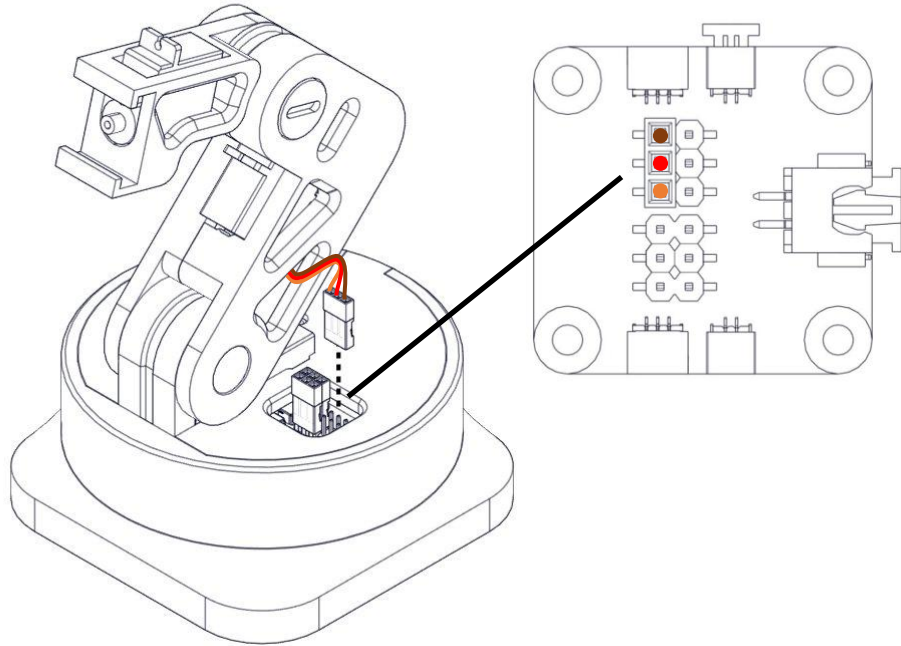
43, Drag each core board into its corresponding dashed box, then click [Bind Device] and wait for both core boards to bind successfully. Then click [Send Configuration] in the upper right corner and wait for the configuration to be sent successfully.



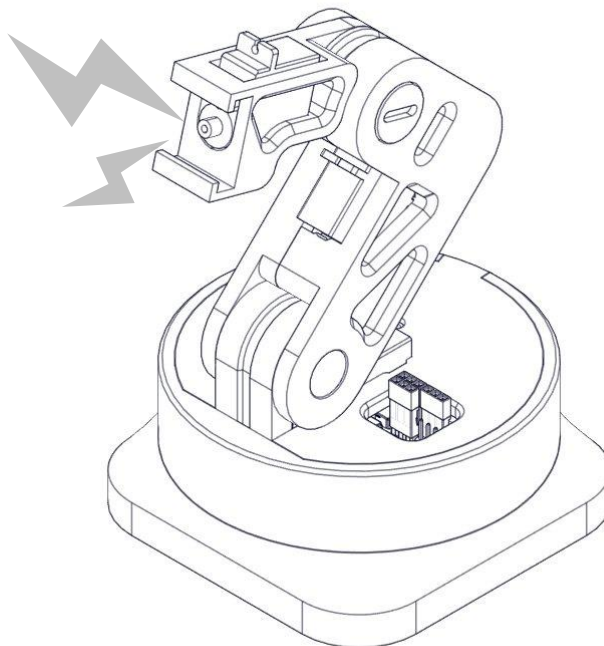
44, Use the joysticks on the remote controller to maneuver the robotic arm into the pose shown in the illustration.



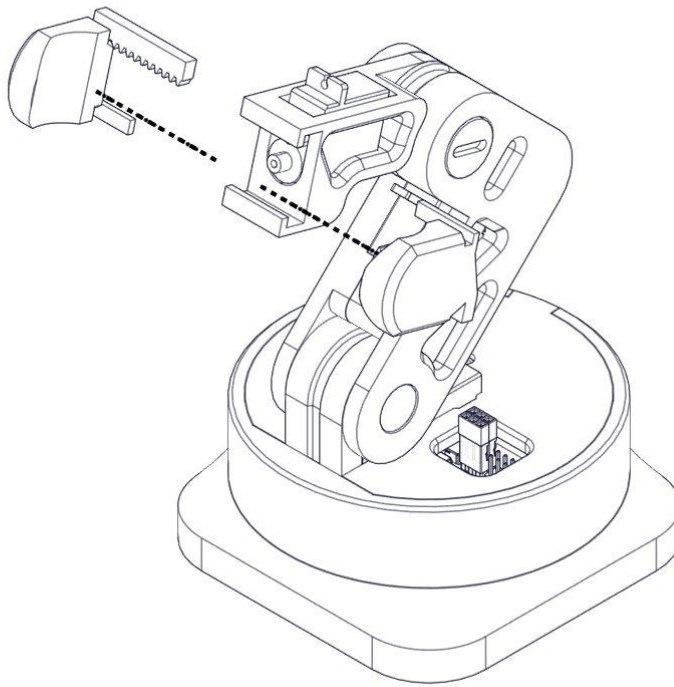
45, 16, Insert the [9g Servo Motor 180°-PG001] cable connector into the 3-pin port on the [Remote Control Receiver Shield-XA004] as shown. Verify that the **brown**, **red**, and **yellow** wires are aligned with their correct pin positions.



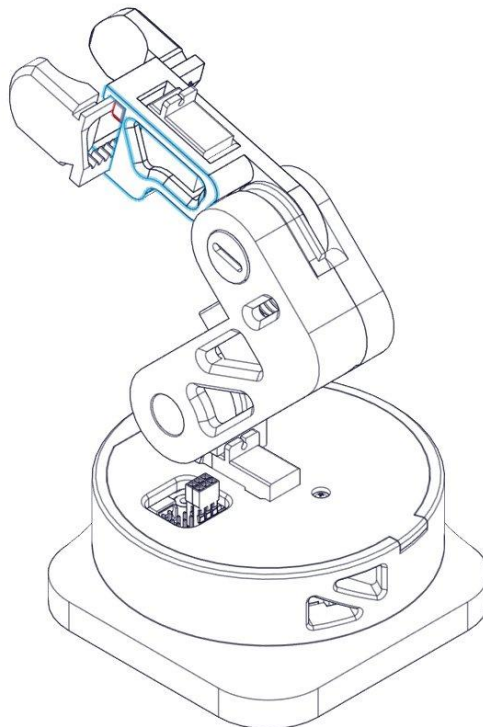
46, Press and hold the button on the remote controller until you hear a clicking sound from the [9g Servo Motor 180°-PG001] at the end of the robotic arm.



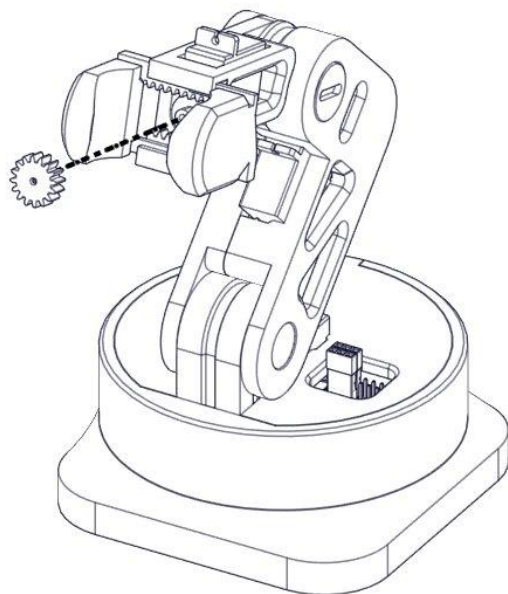
47, Slide the [Left gripper] and [Right gripper] into the slide channels at the end of the [Upper arm], inserting them from the left and right sides respectively.



48, After sliding them in, ensure that the rack end faces of the [Left gripper] and [Right gripper] (**red** box) are flush with the left and right faces of the [Upper arm] (**blue** box). Once installed, the grippers should be in the open position.



49, With the [Left gripper] and [Right gripper] held open, firmly press the [Gripper gear] onto the shaft of the [9g Servo Motor 180°-PG001] from the front.



50, Assembly is complete. Press the button on the remote controller briefly to close the grippers. Press and hold the button to open the grippers from any closed position.

