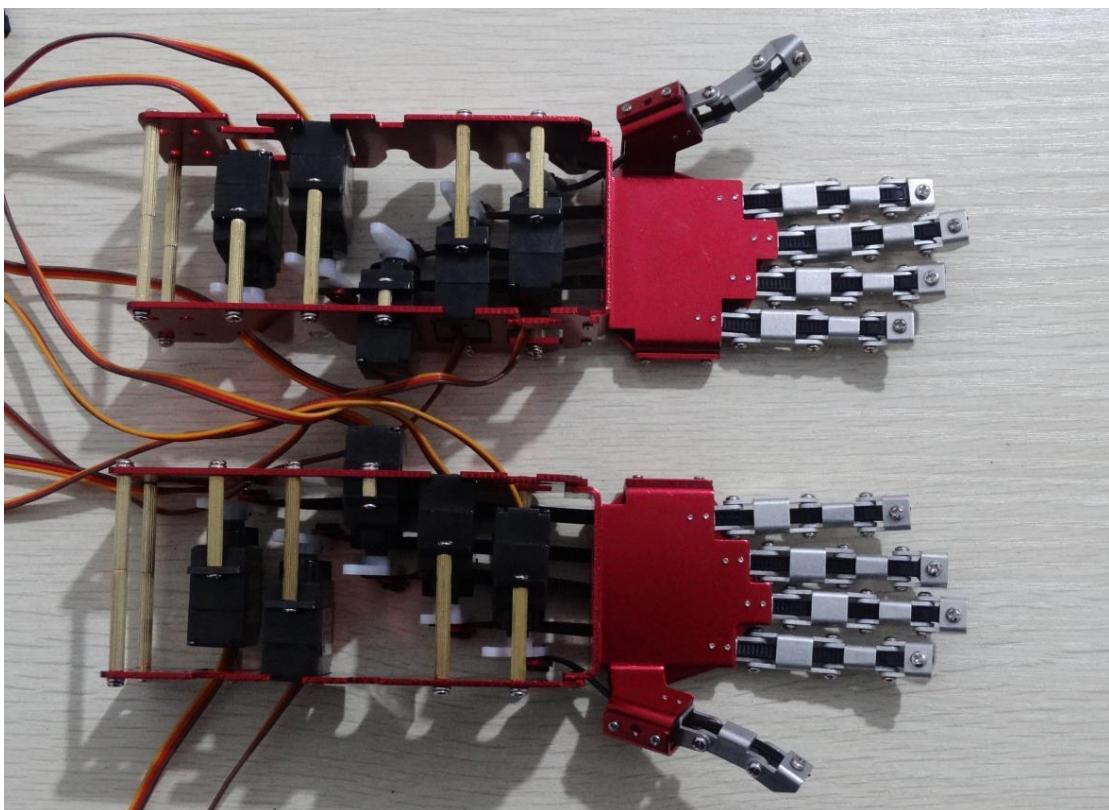
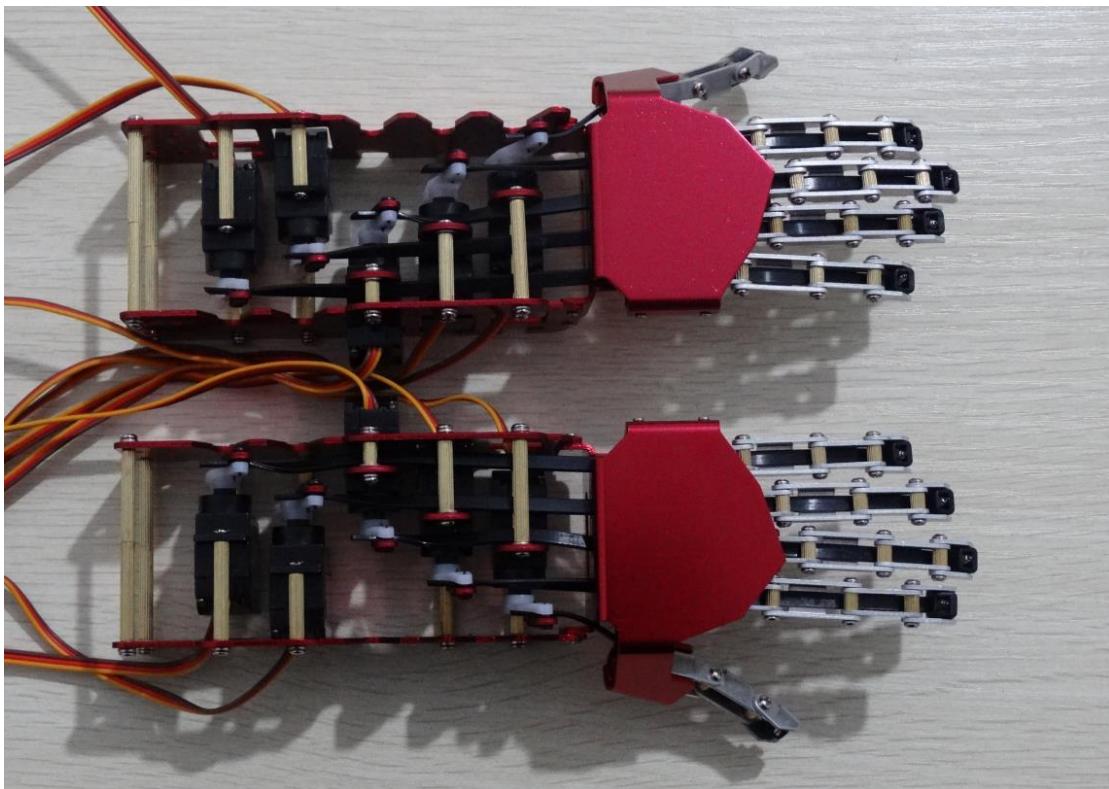


5 Finger Installation (GH-9g)



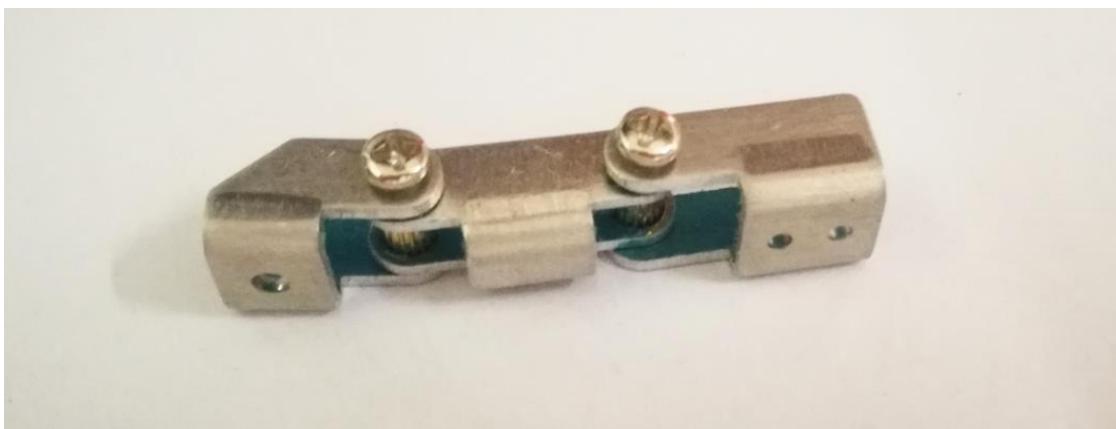
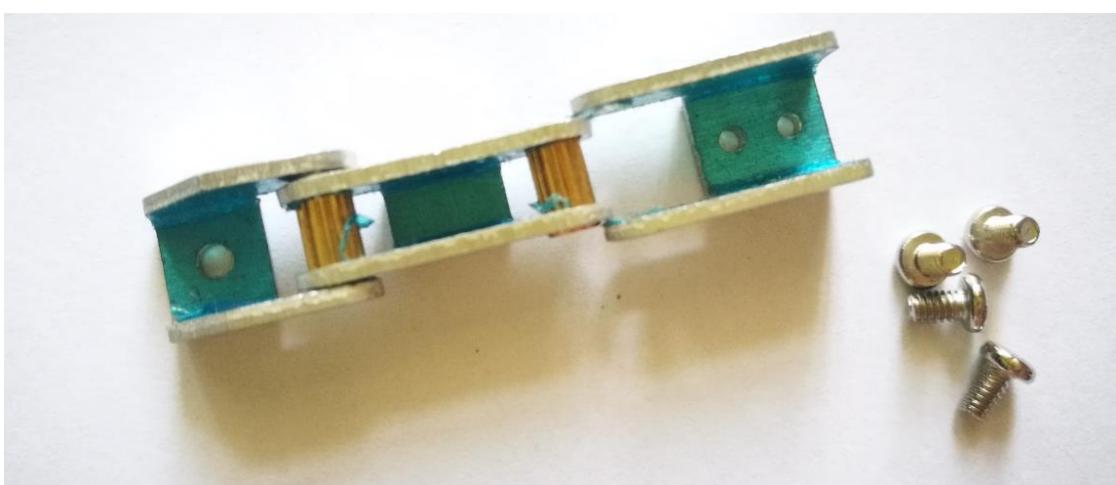
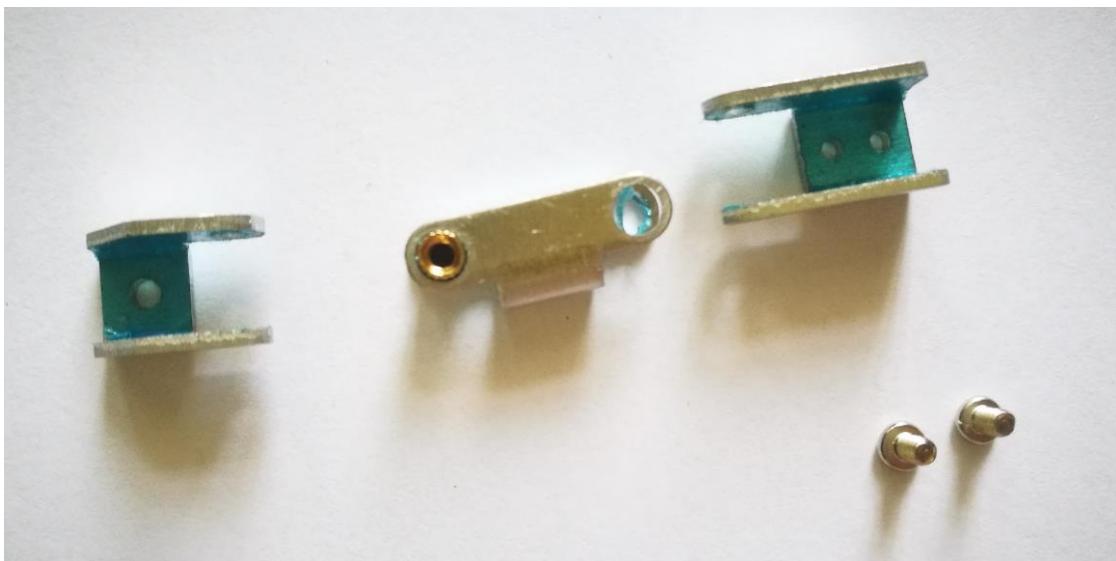
Installation as follows



Get the fingers, the number is 1, 4, 4, 5,5,

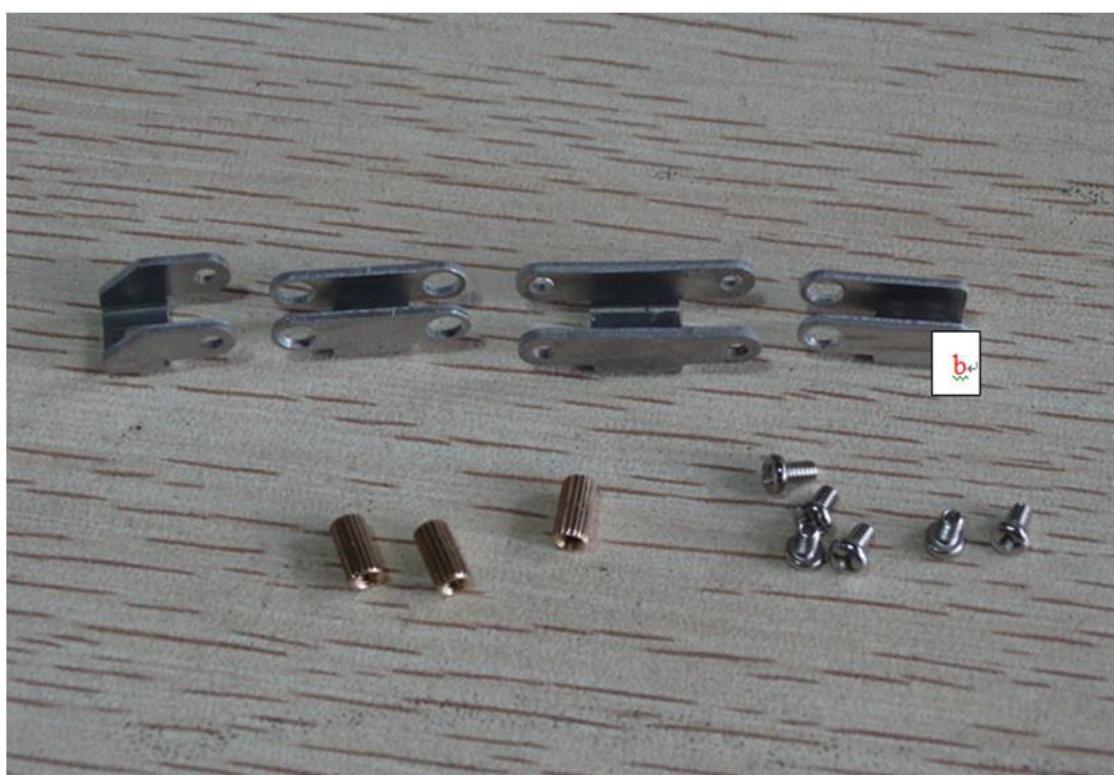


Install the thumb, use M2*3 screww, and M2* 6 pillar, use the much more width part.

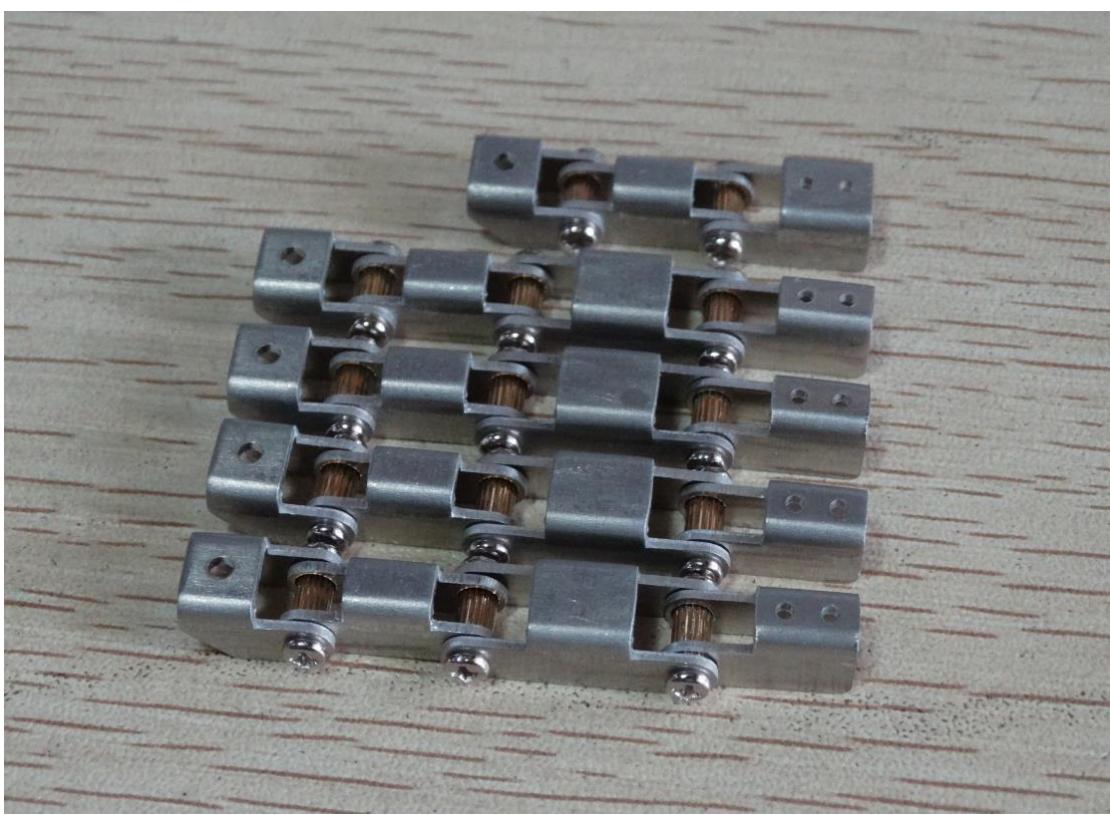




组装成型。

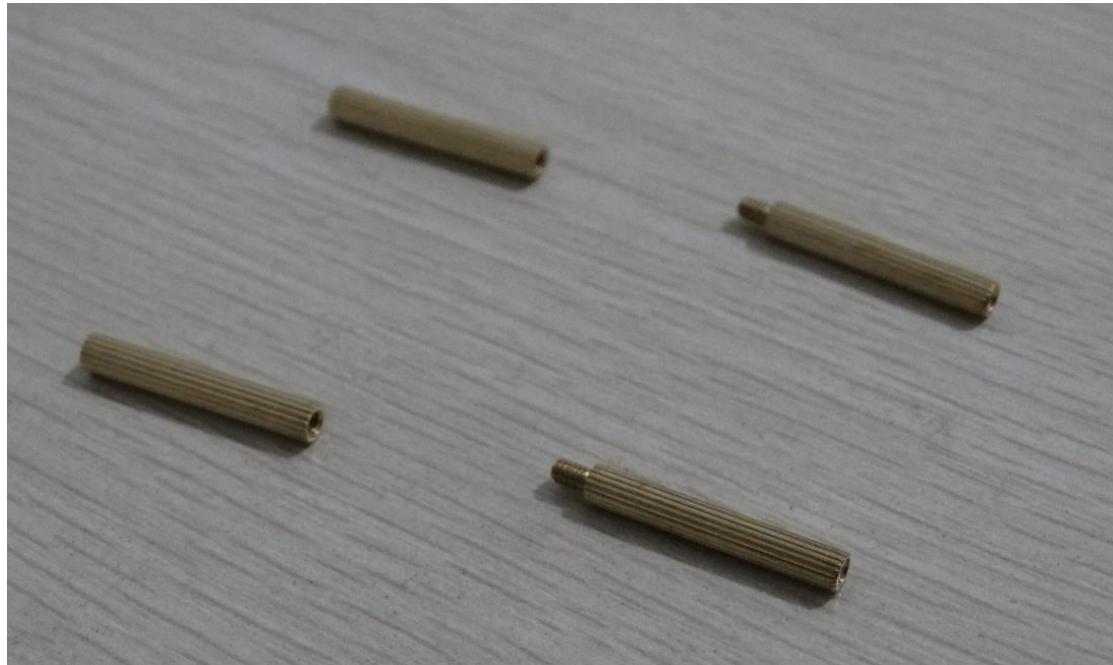


Other fingers still use M2X3 screw, M2X6 pillars.



Other finger installations are the same, excluding the thumb.

Intall the whole hand

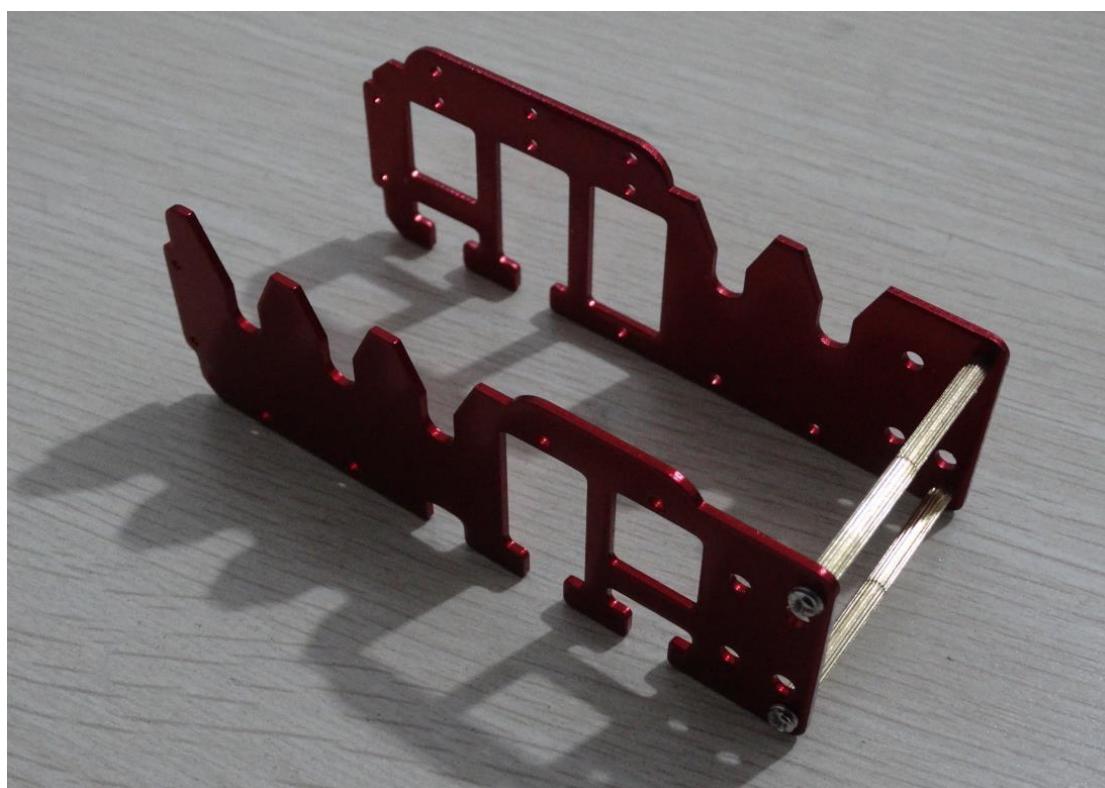
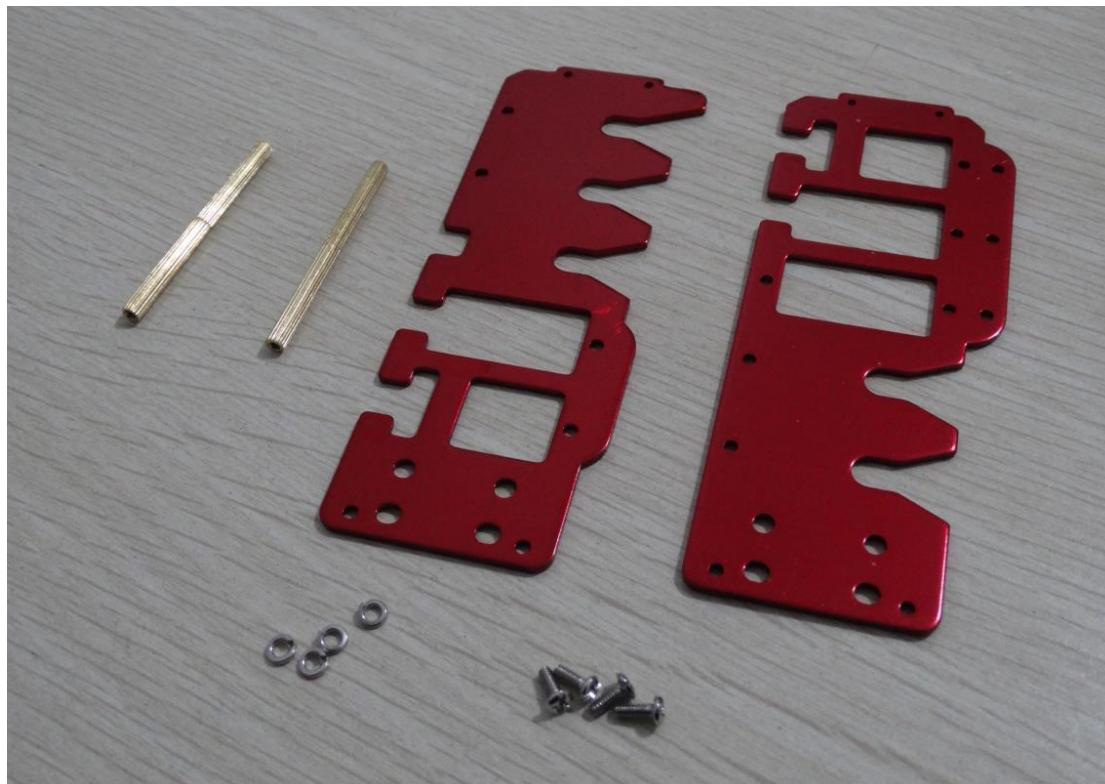


Left is M2*21 pillar, right is M2*20+3 pillar

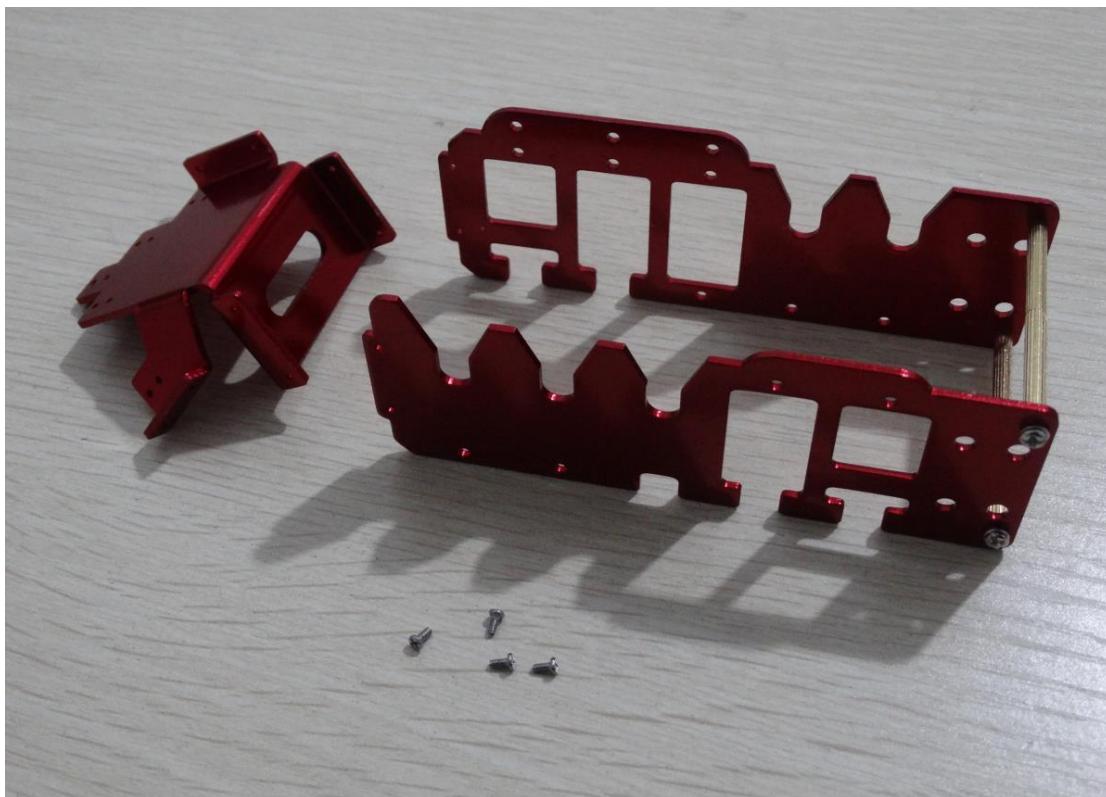


use M2*21 and M2*20+3 pillar

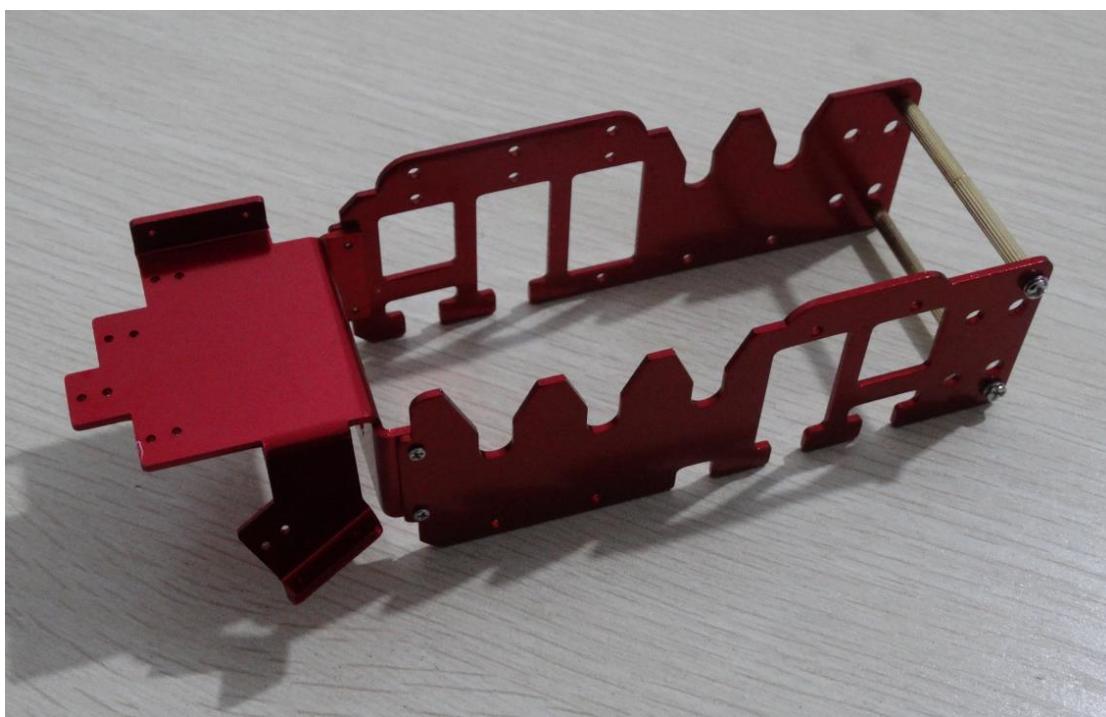
Right hand is as follows (ignore it if left hand):



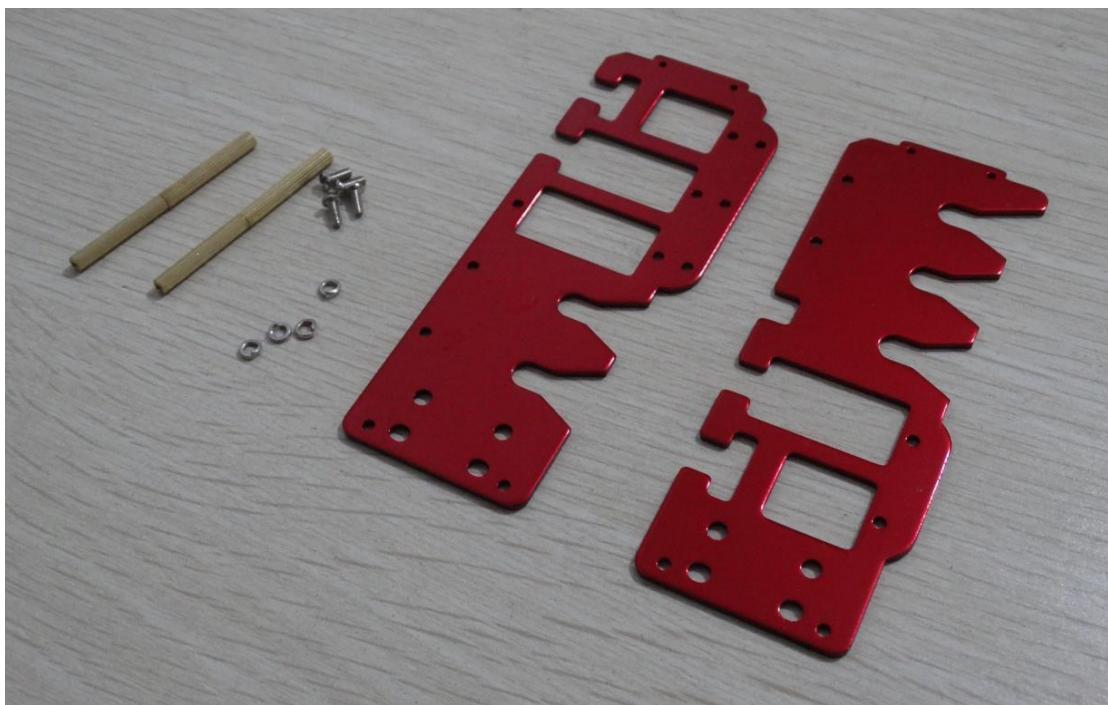
Connect the hand by using M2X5 screw and M2 spring mat.



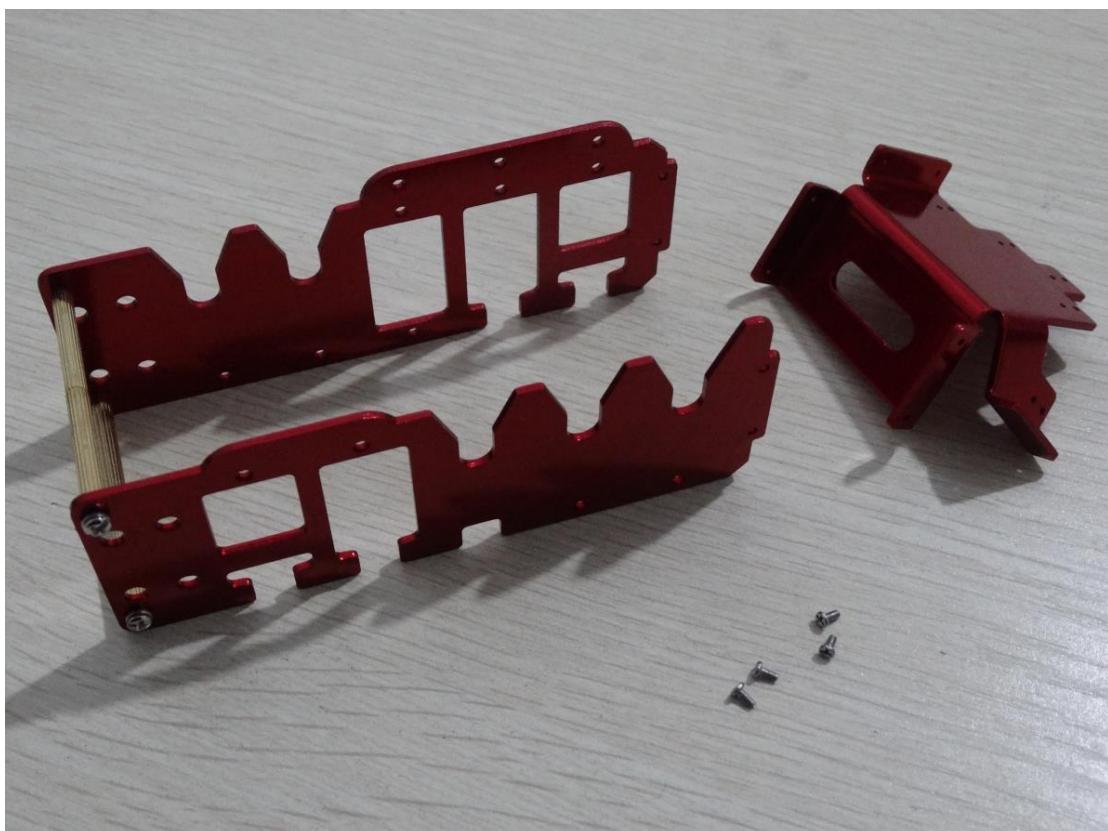
Then remove the palm of your right hand.



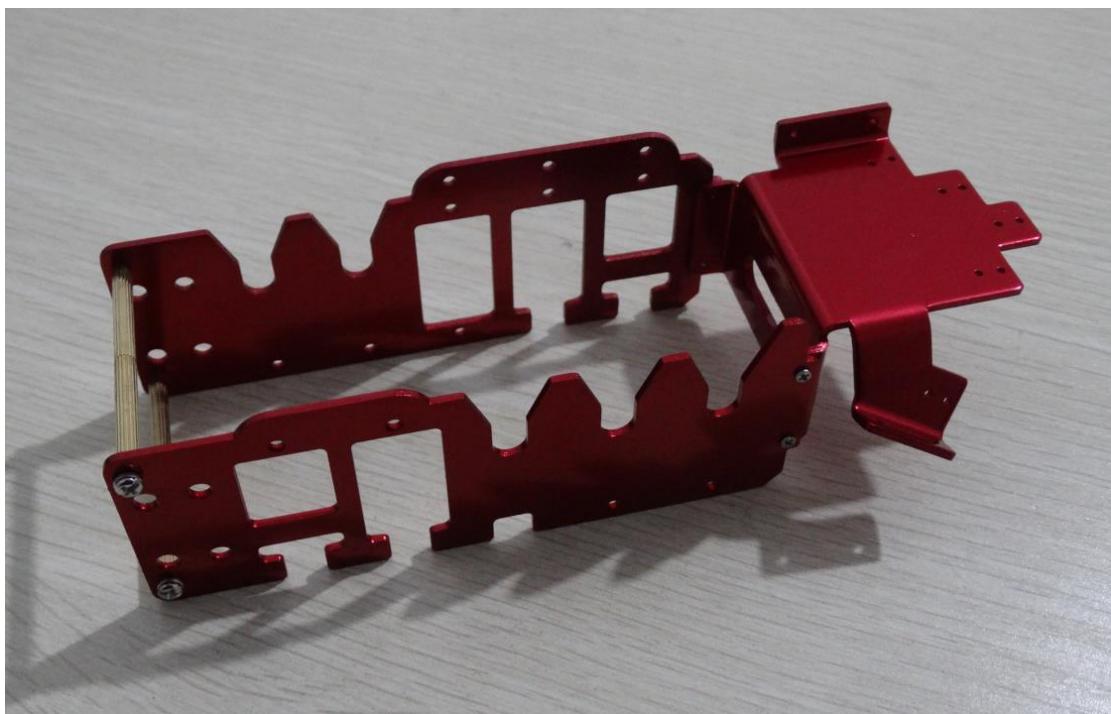
Assemble the arm to connect the piece with the palm, use the m1.4*3 screws, the 1.4 screws as the tapping screws, forcibly into the aluminum plate fixed. When you twist, one on the left, one on the right, don't tighten it, then the rest Two, 4 screws are screwed into, and then lock the screws. If the left hand is installed as shown in the figure:



Use the same arm parts, pay attention to distinguish with the right hand installation way, still use m2x5 screws,M2 Spring Mat.

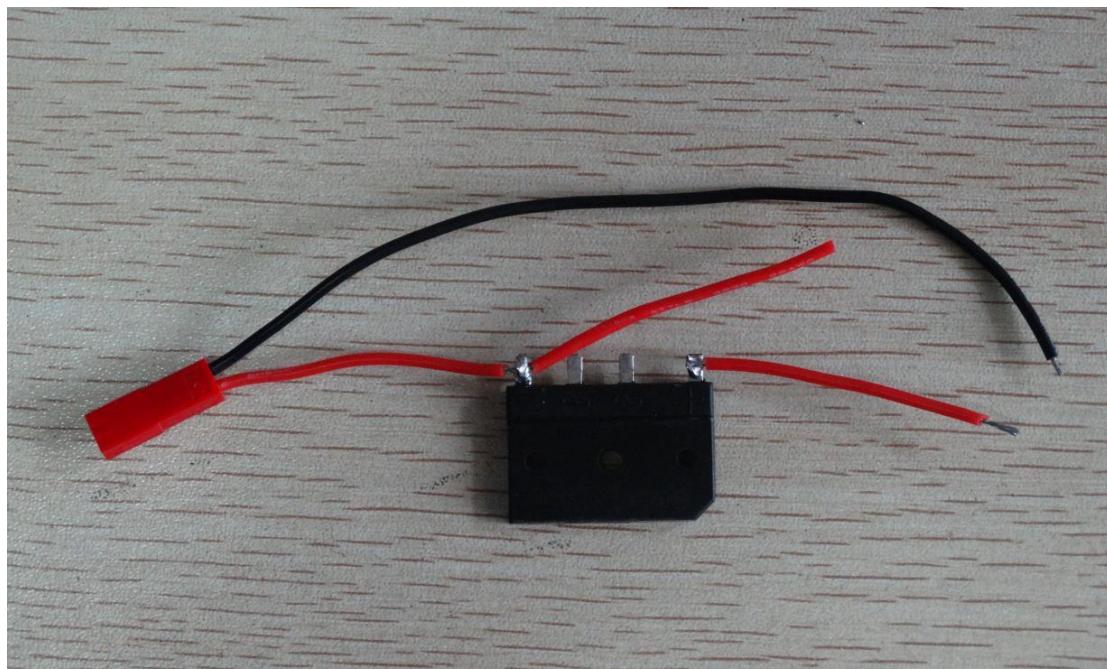


Combine then remove the left hand palm and m1.4*3 screws.

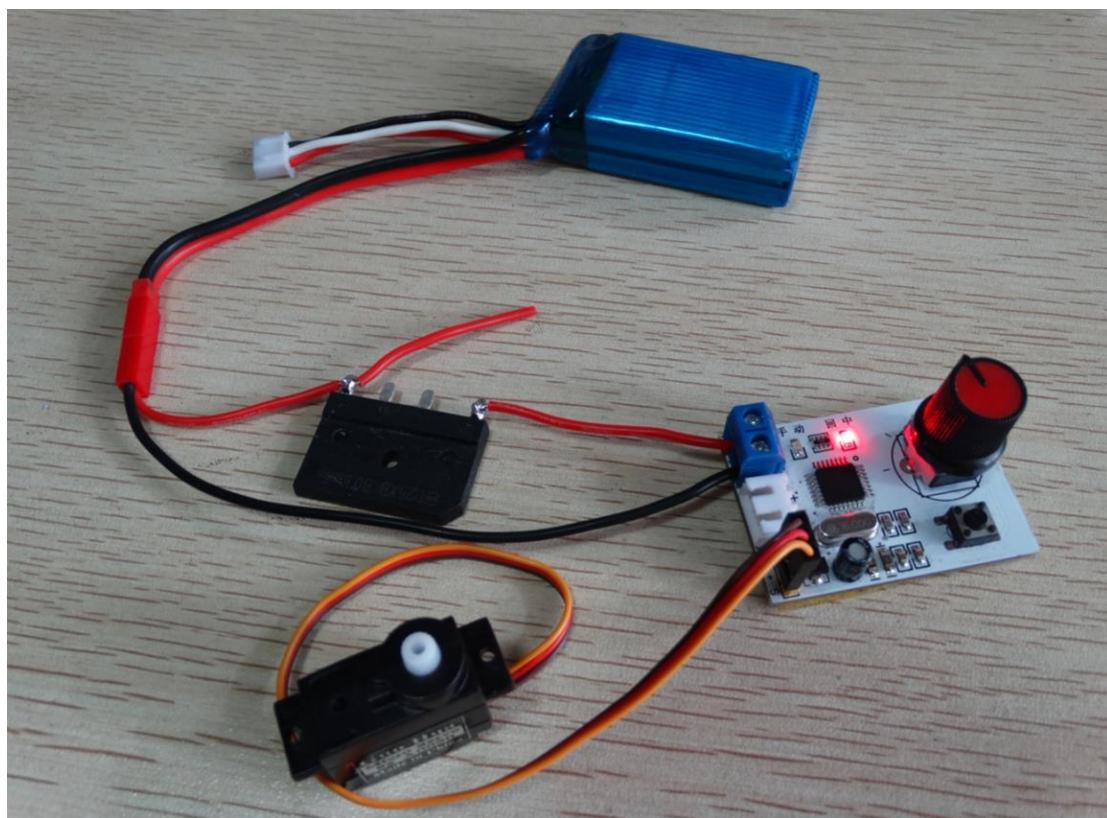


Assemble the arm to connect the piece with the palm, use the m1.4*3 screws, the 1.4 screws as the tapping screws, forcibly into the aluminum plate fixed. One on the left and one on the right without tightening, and then there are two left., 4 screws are screwed, and then lock the screws.

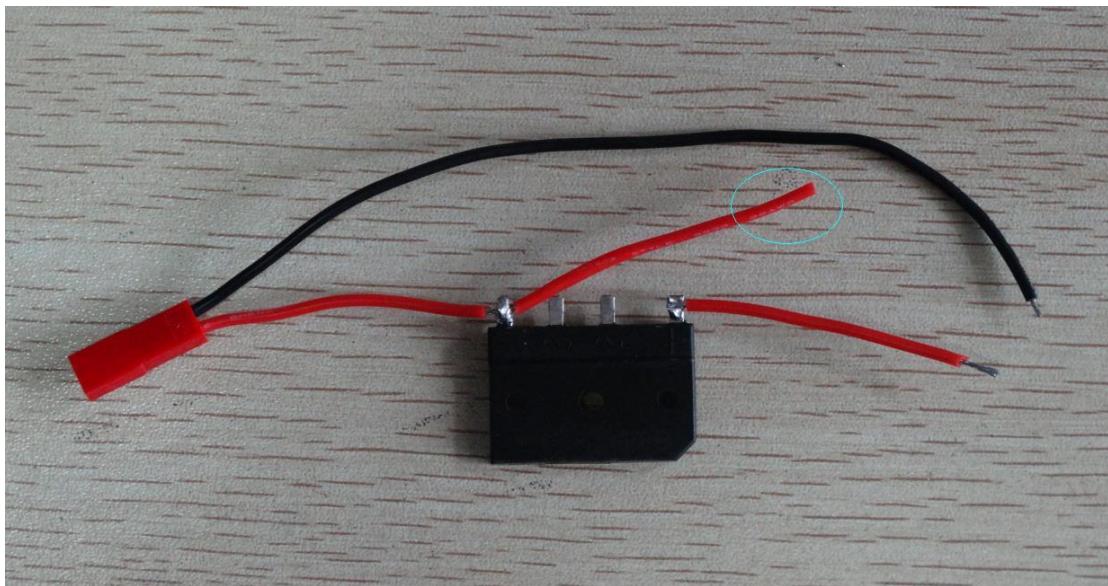
Next to the need to install all the steering gear back: (the latest version to the Metal Gear small steering machine, its output shaft is black)



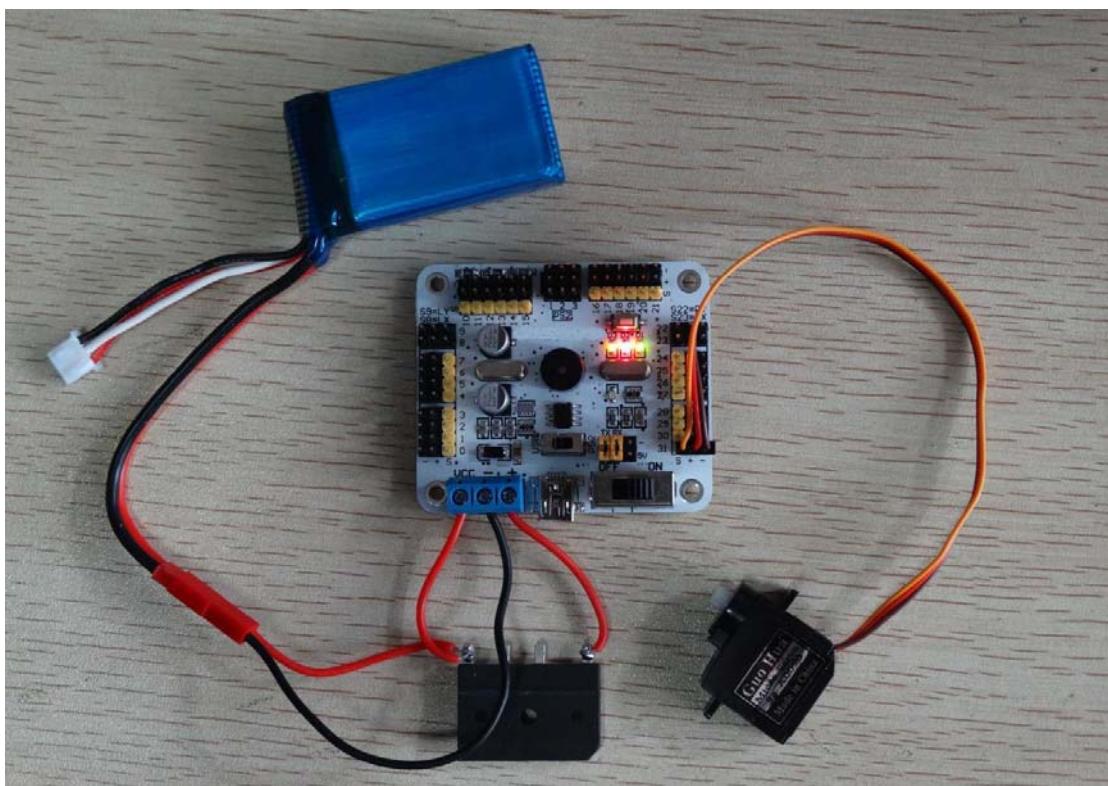
Small steering gear needs to be used in low voltage 5-6v, if the use of 2S lithium batteries need to connect rectifier bridge.



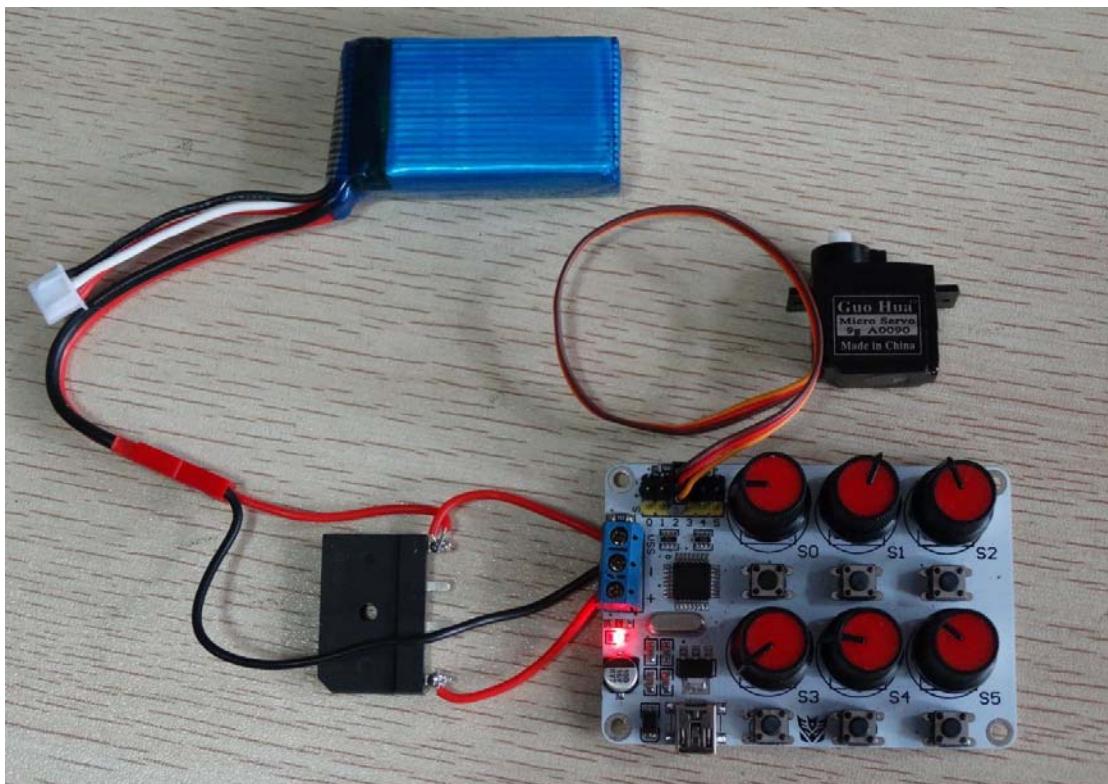
The wiring diagram in the back of the rudder machine is used in the shop.



If you use a controller such as a rudder control board, please peel the wiring in the diagram.

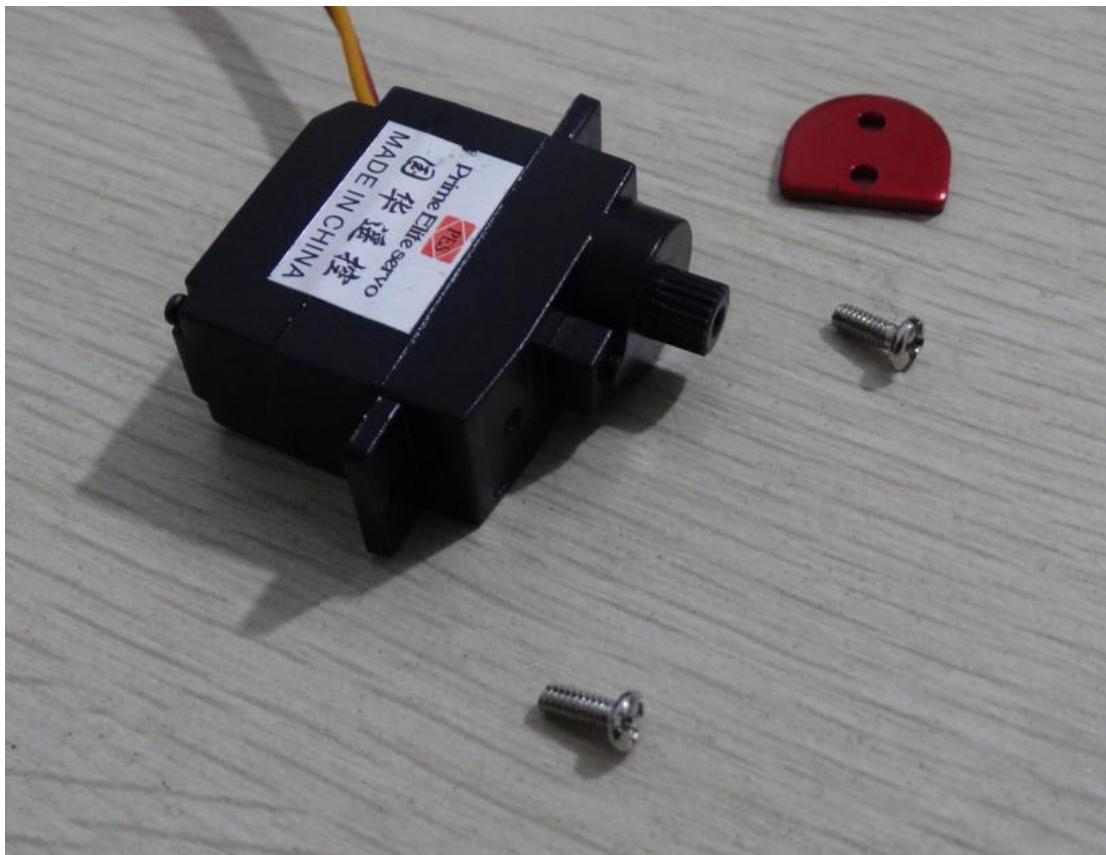


Wiring diagrams using steering control panels, such as the use of other steering control panels, are similar.



Use the wiring diagram of the 6-way knob Controller.Consistent with the wiring diagram of the steering Control Board.Use the above method to make the steering gear one by one back.

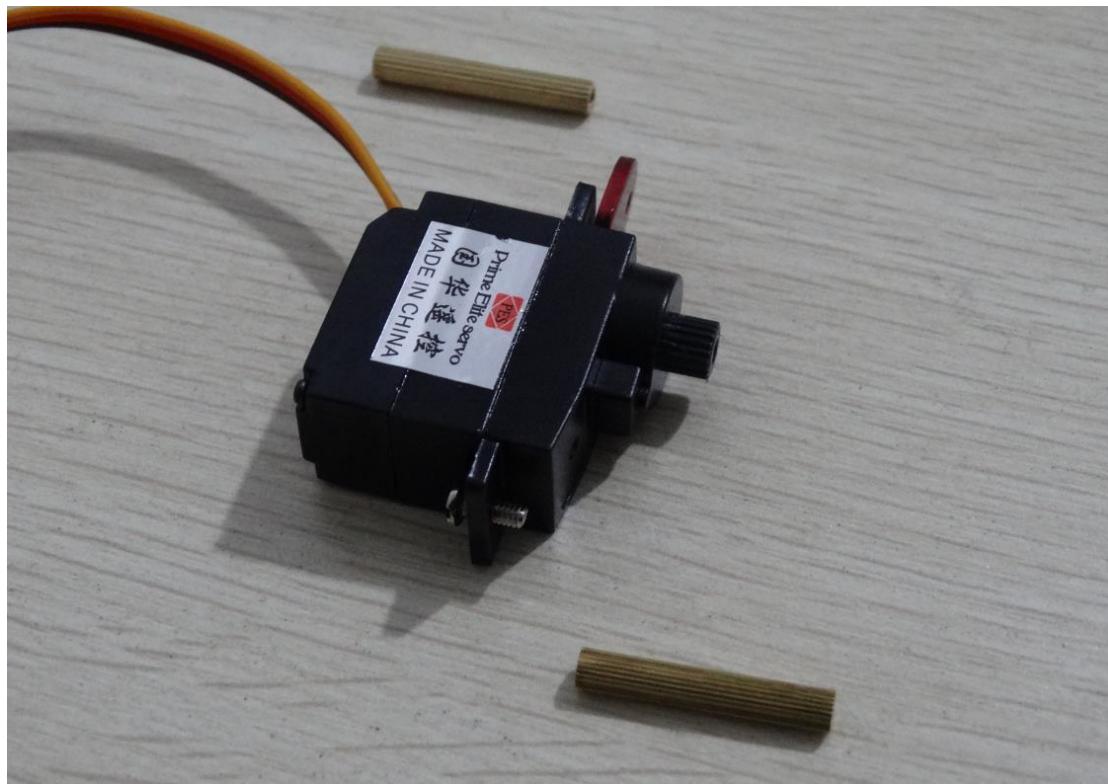
The finger steering gear is installed as follows (the right-hand and the same):



Install the 1th finger steering gear, screw for m2*5.



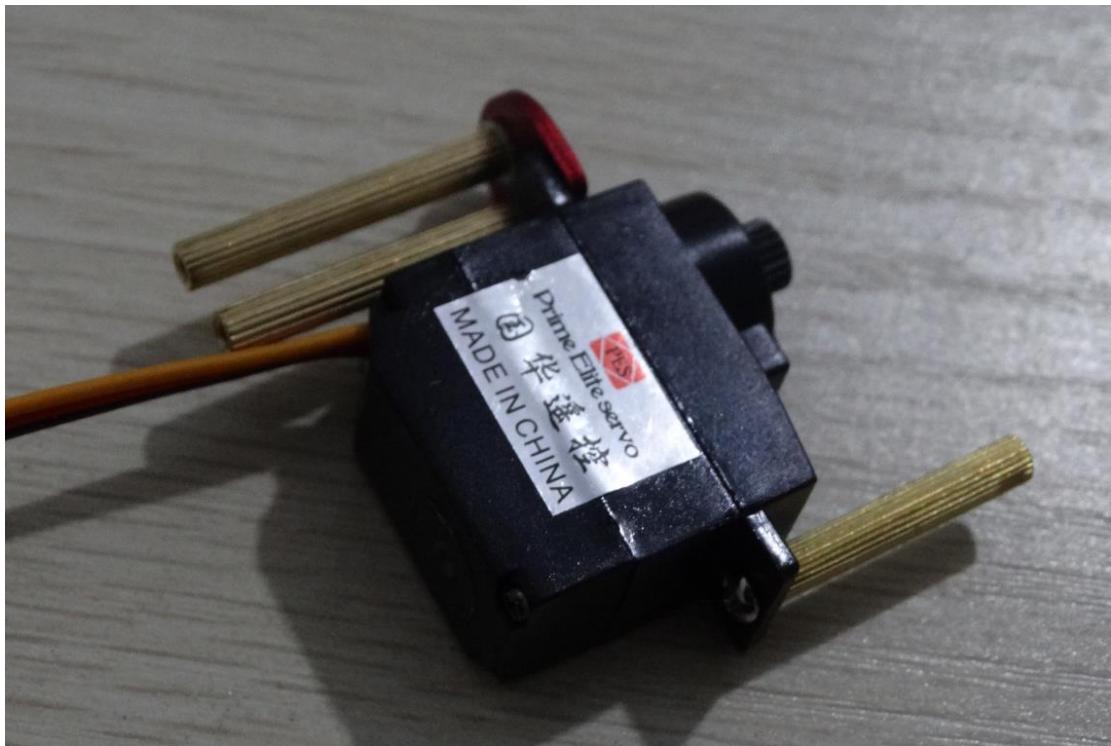
First screw with the block into the steering gear mounting hole, do not tighten to leave the amount of surplus.



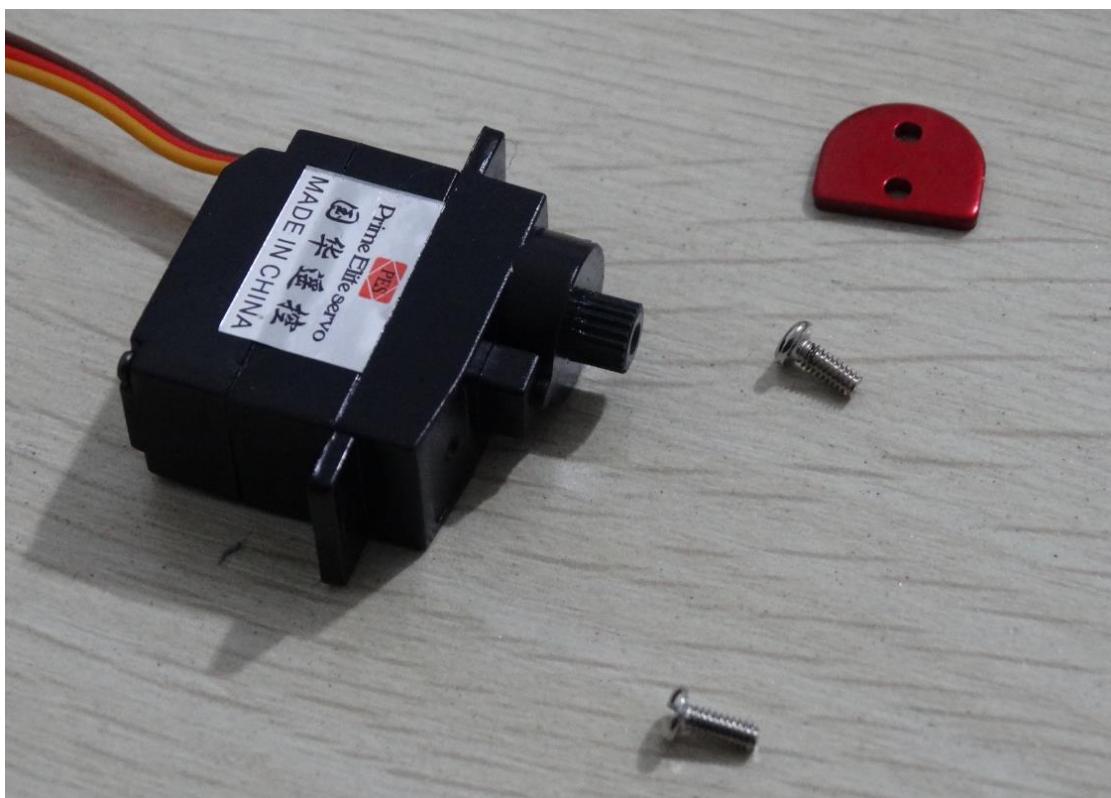
Then the copper column is screwed together with screws, at this time also tighten the screws, on the m2*21 for the m2*19 copper pillar.



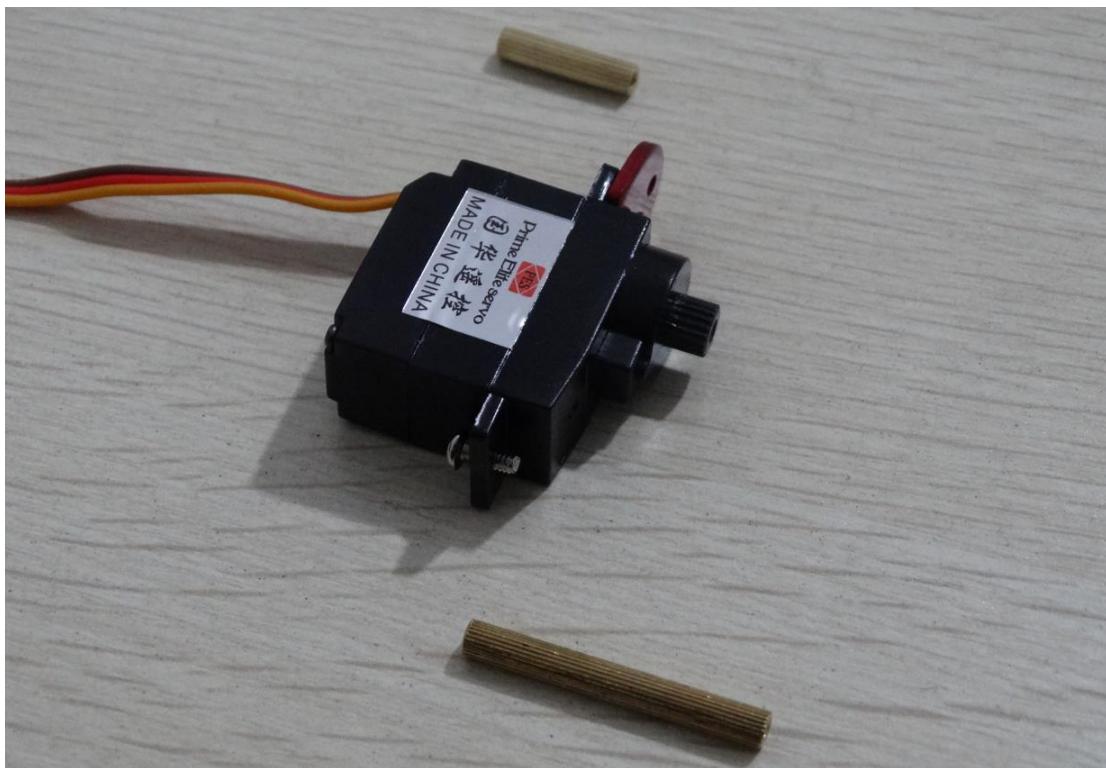
After assembling the copper column of the m2*21 root m2*19, remove the m2*22 copper pillar and M2 gasket and m2*5 screws.



Complete the first Finger rudder unit. Note that the M2 gasket is on the inside.



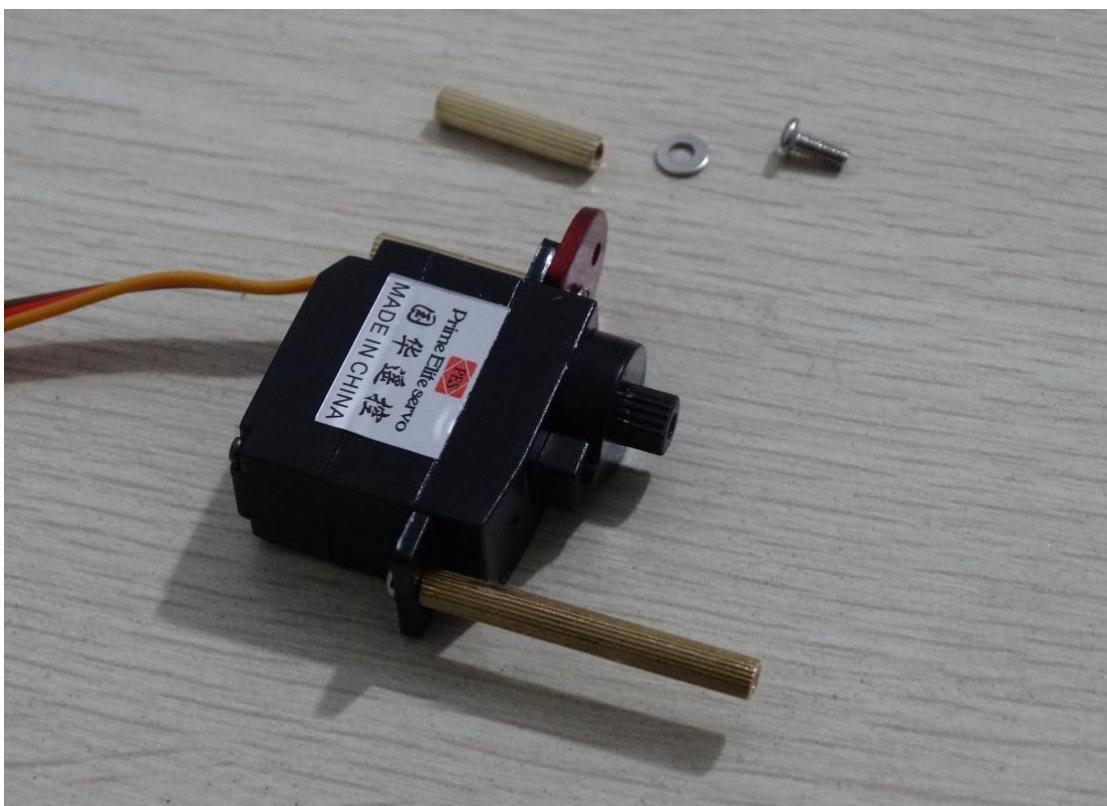
Remove the 2nd finger steering gear parts, screw for m2*5.



Also first screw the m2*5 screws into the steering gear installation hole, do not tighten to leave the amount of surplus. And take out the copper column for m2*14Under the m2*26.



Then screw the screws into the copper column and tighten it. M2*14 under the m2*26.



Remove the m2*15 copper pillar M2 gasket with M2*5 screws.



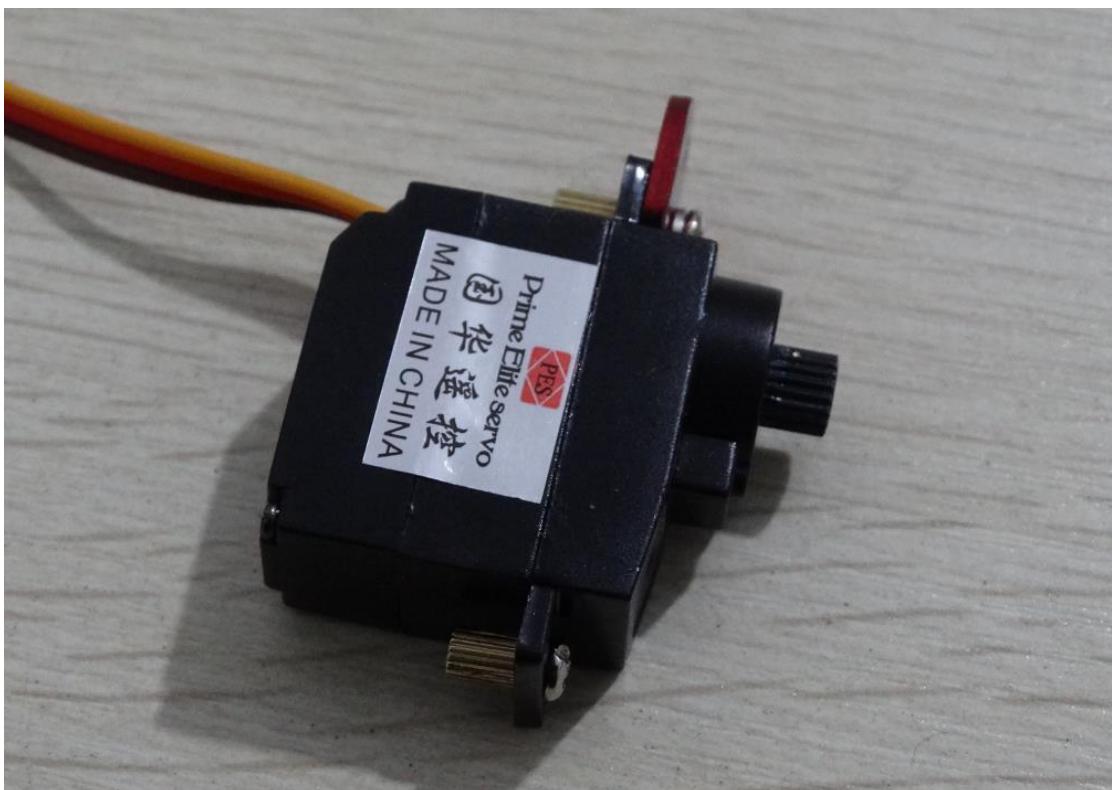
Assemble and complete the second finger steering gear. Note that the M2 gasket is inside the steering wheel.



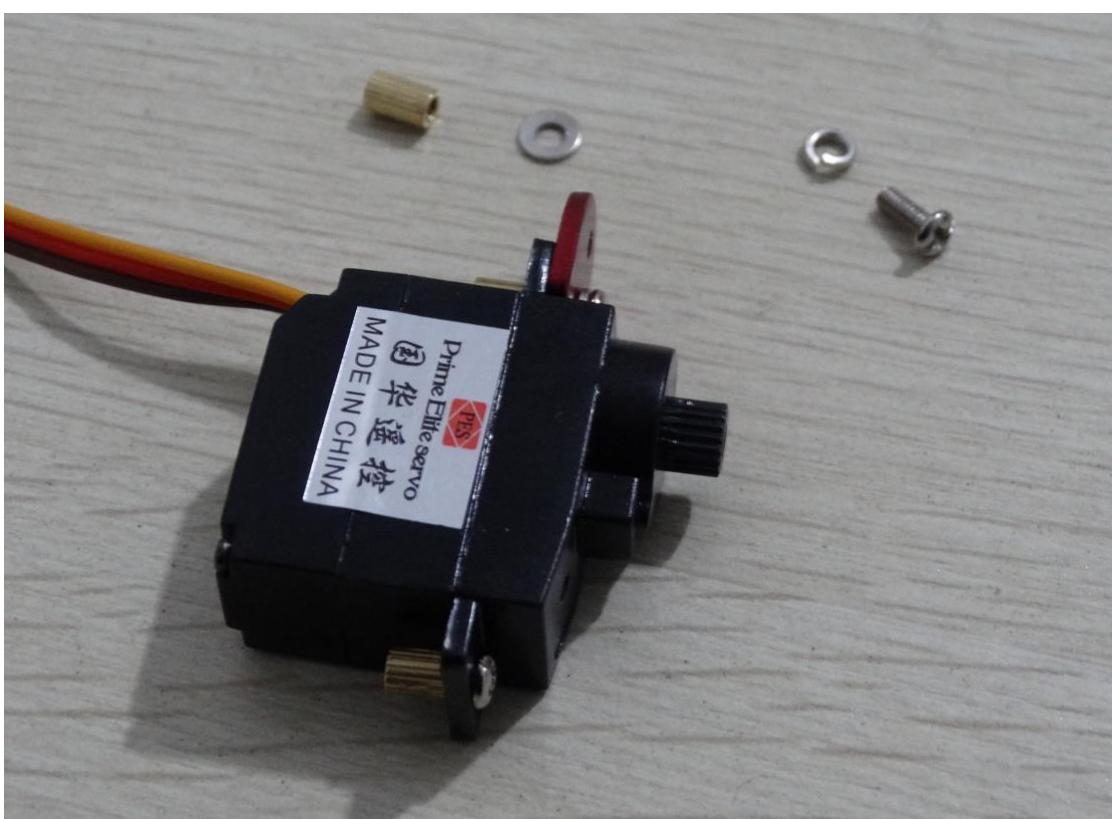
Remove the 3rd finger rudder parts, where the screws are m2*5 and the m2*3



First screw into the rudder mounting hole



Then tighten it with a copper column.Copper column for M2*4



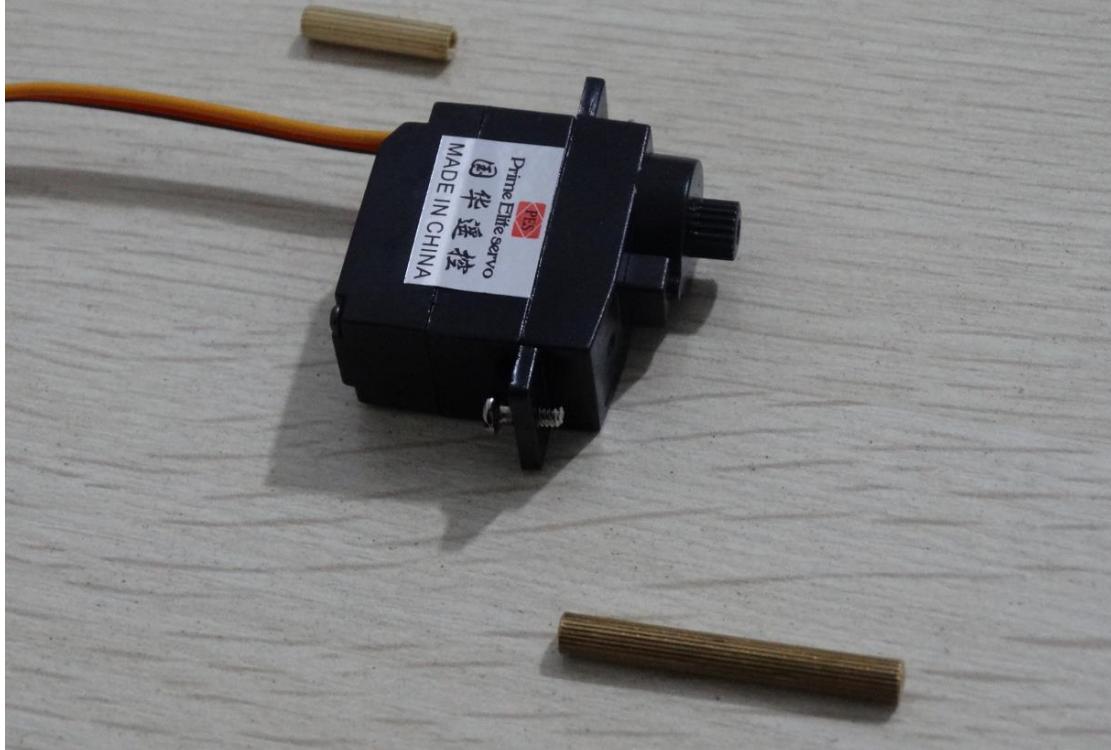
Remove m2*5 screws, M2 spring pads, M2 gaskets and m2x5 copper pillars



Note the M2 gasket.



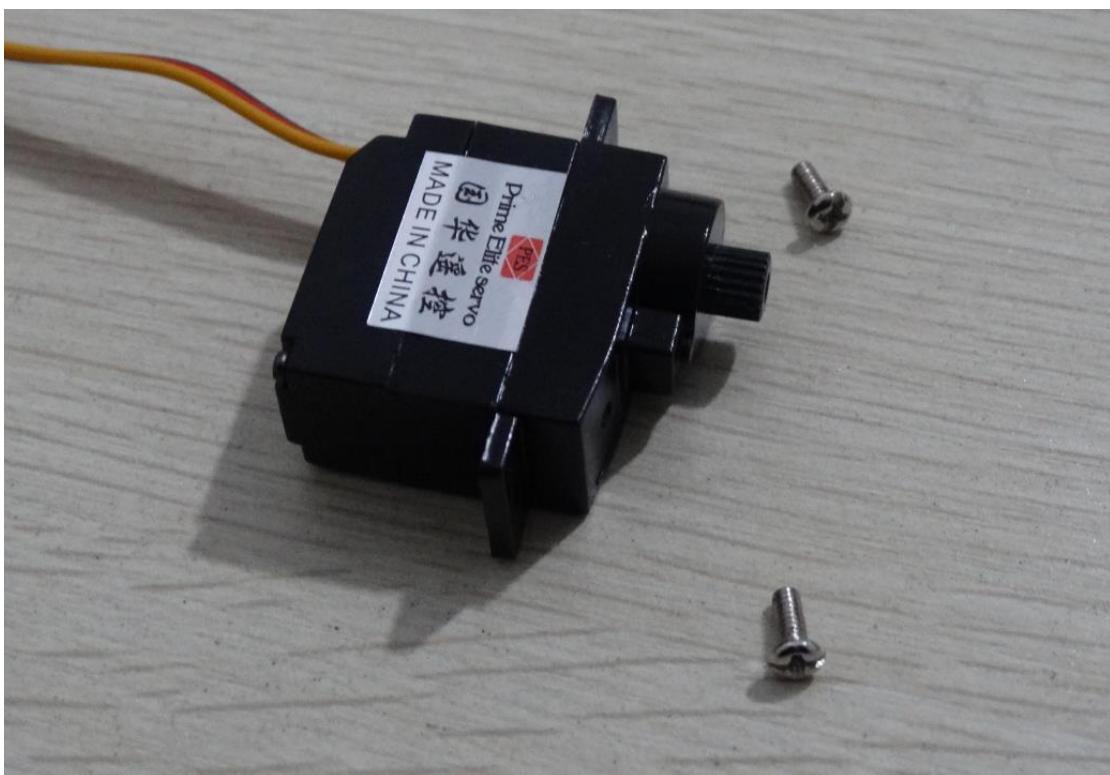
取出第 4 个手指舵机零件，铜柱为 M2*14, M2*26。螺丝为 M2*5。



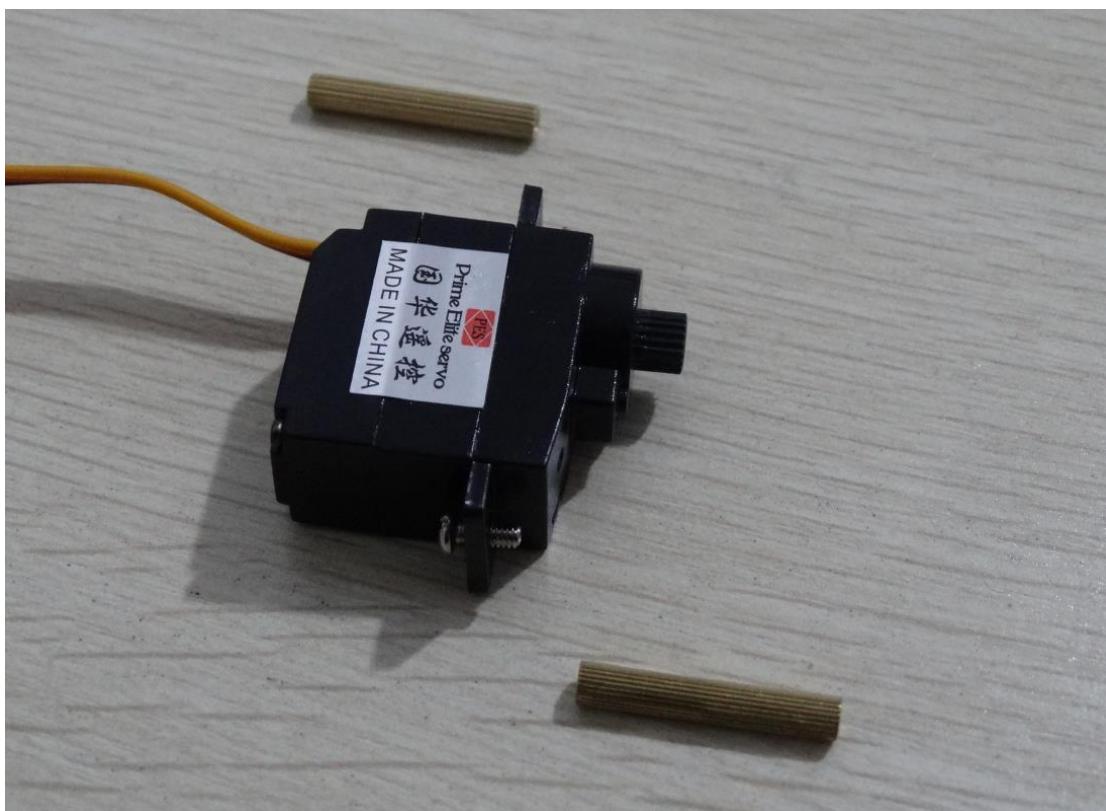
Screw in the same way.



Then screw the screws into the copper column and tighten it.M2*14 under the m2*26.



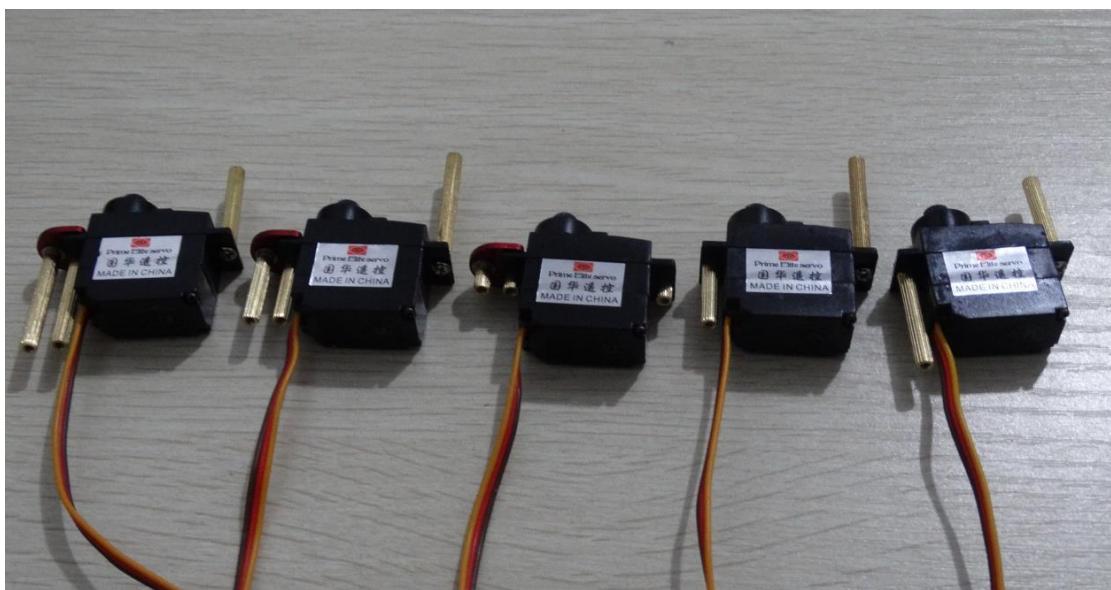
Remove the 5th finger part and screw the m2*5.Part of screw m2*5 screws, do not tighten.



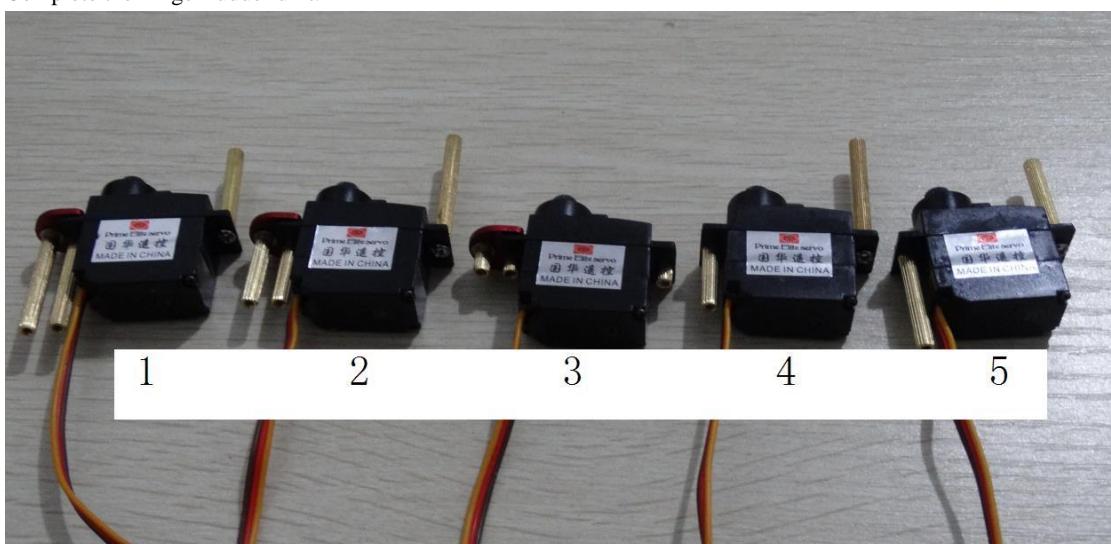
Then remove the copper column for m2*19,m2*21.



Tighten the screws with the copper pillar, the m2*21, and the m2*19 copper pillar.

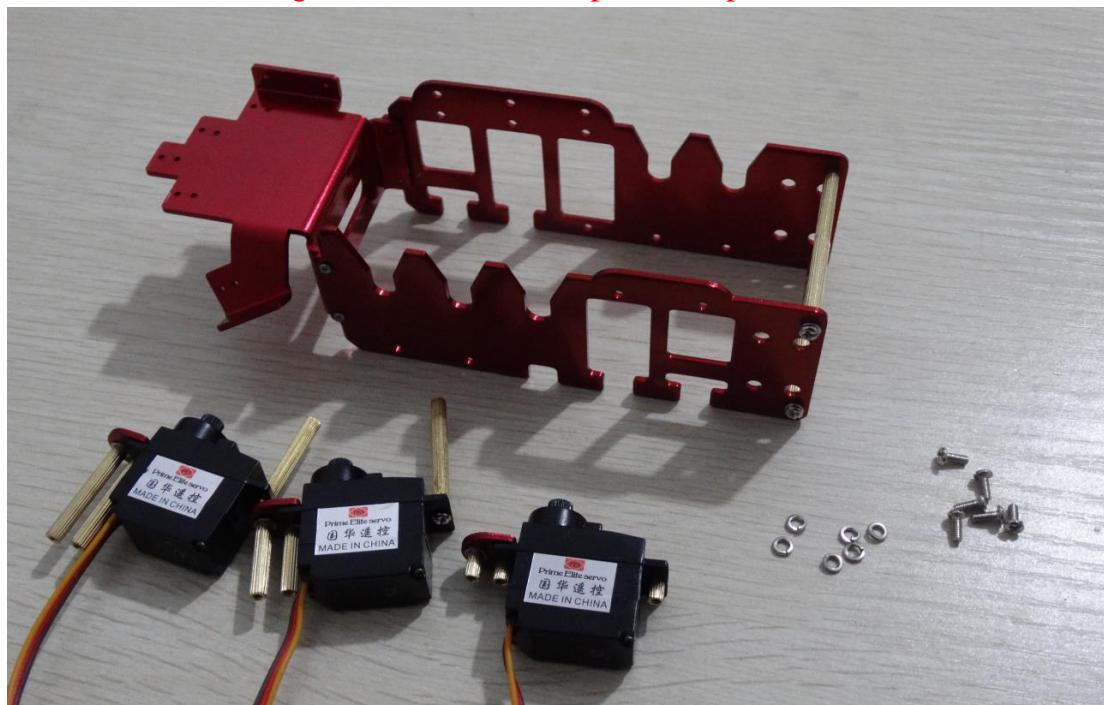


Complete the Finger rudder unit.

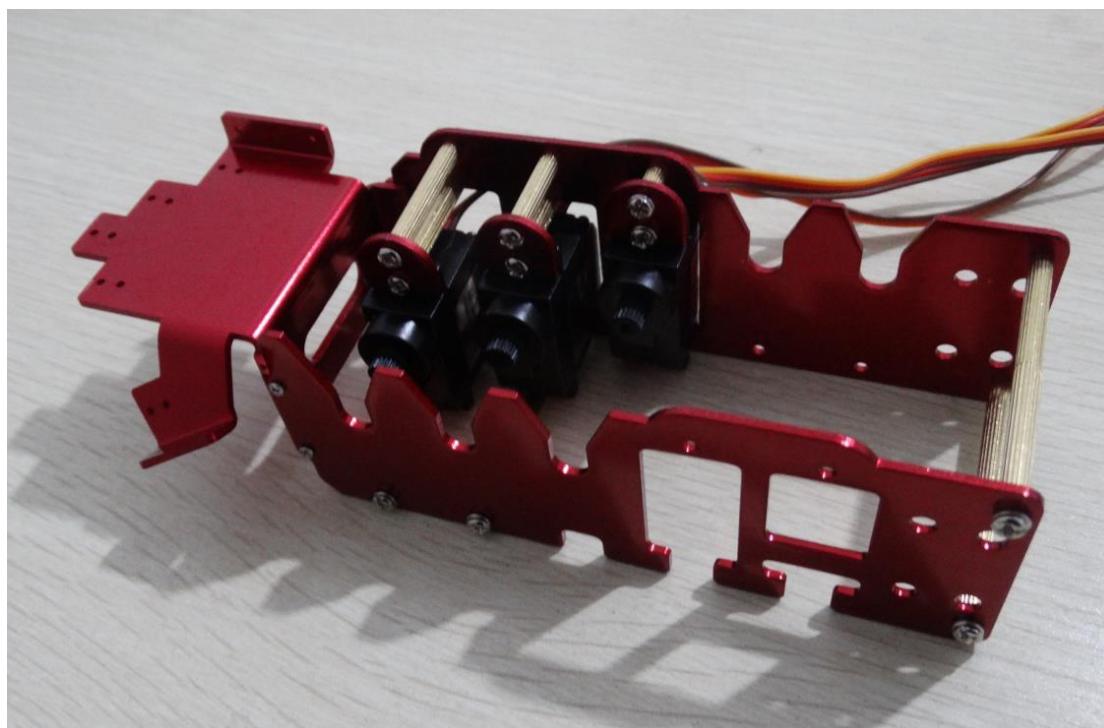


Note the installation serial number of
the steering gear with different
fingers.

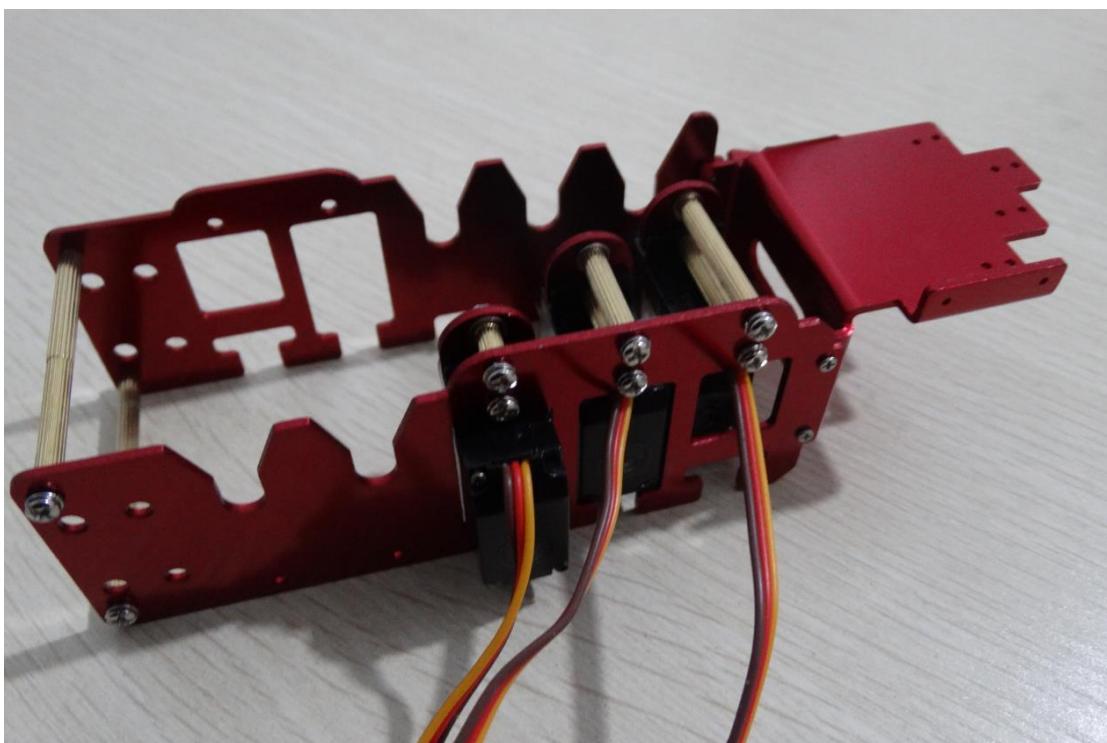
Whole installation right hand, if left hand please skip:



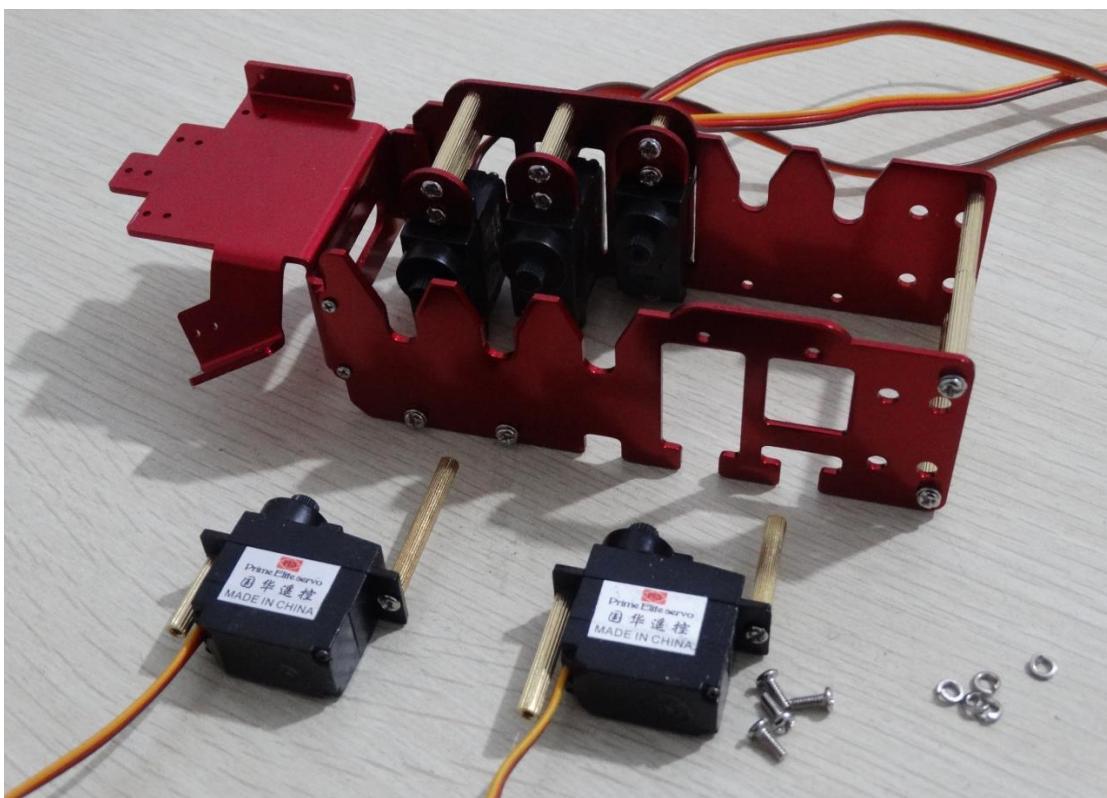
First take out the right arm parts, there are 1, 2, 3rd steering gear. Screws using m2*5 screws and M2 SpringsPad.



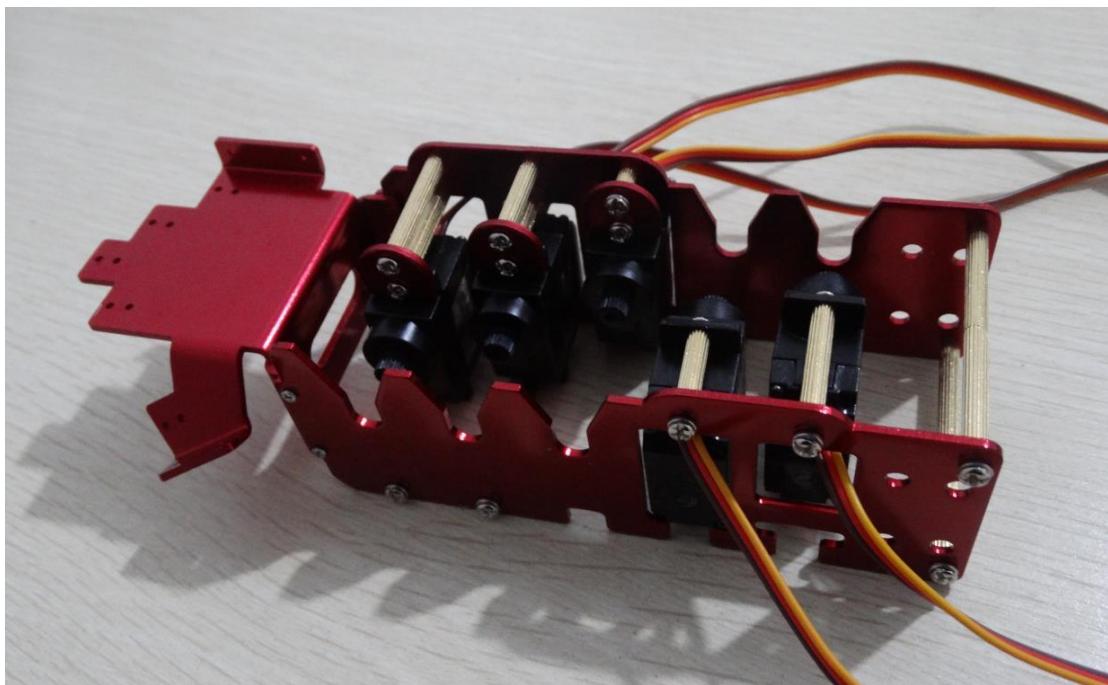
The right hand finger rudder machine 1.2.3 in order to install to the right arm up.



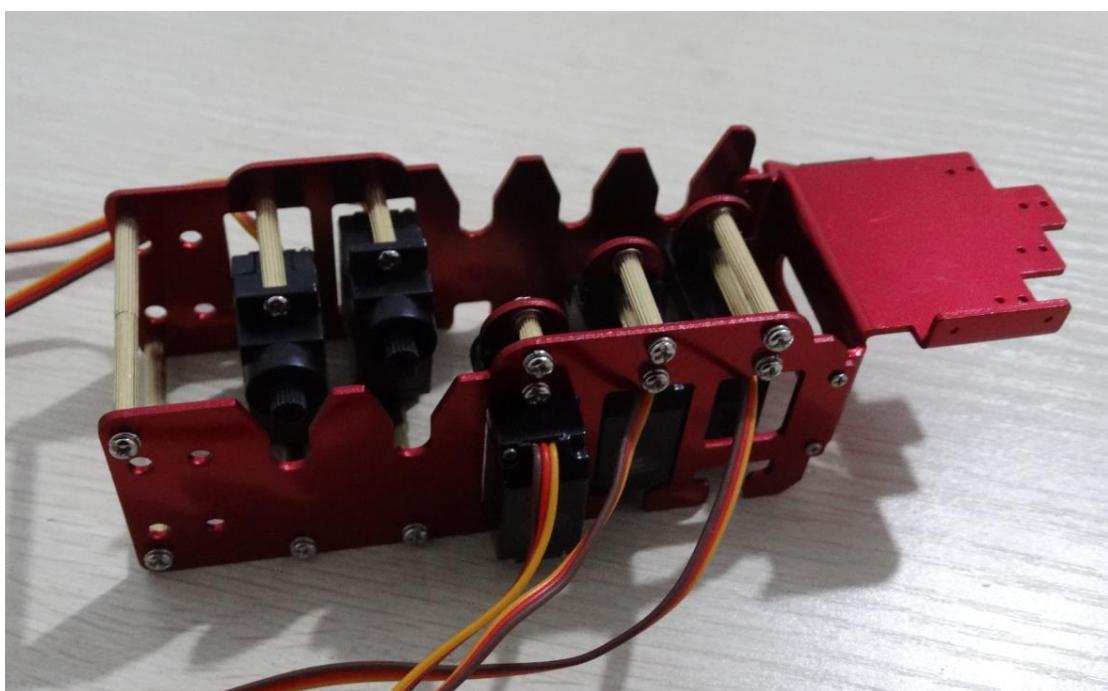
Complete the installation of the 1.2.3rd Steering GEAR



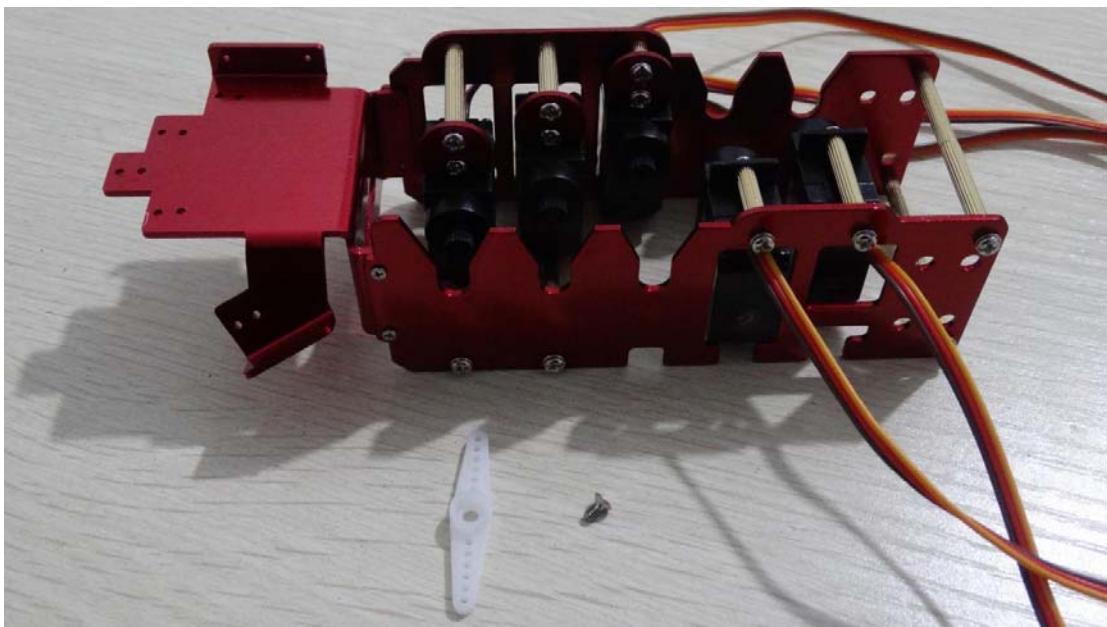
There are 4, 5th steering gear removed. As well as installing the used screws, m2*5 screws with M2 spring pads.



Install the right hand of the No. 4.5 finger steering gear. Use m2*5 screws.



Complete the installation of the arm steering gear.



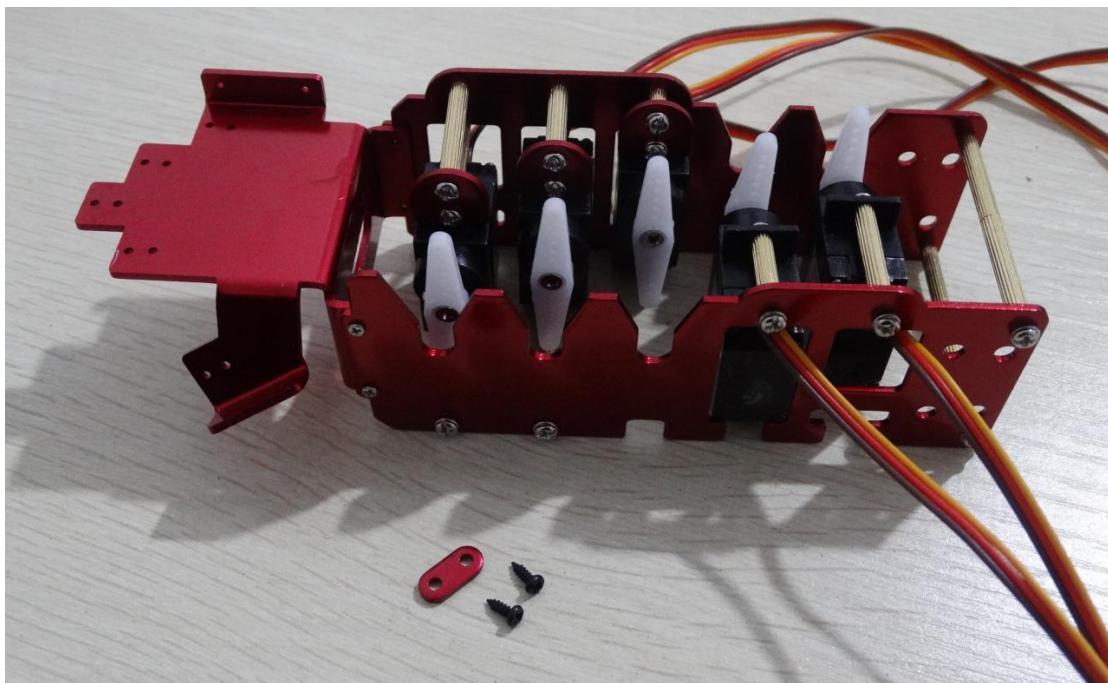
Remove the length of the rocker and the screws used to install the rocker arm.



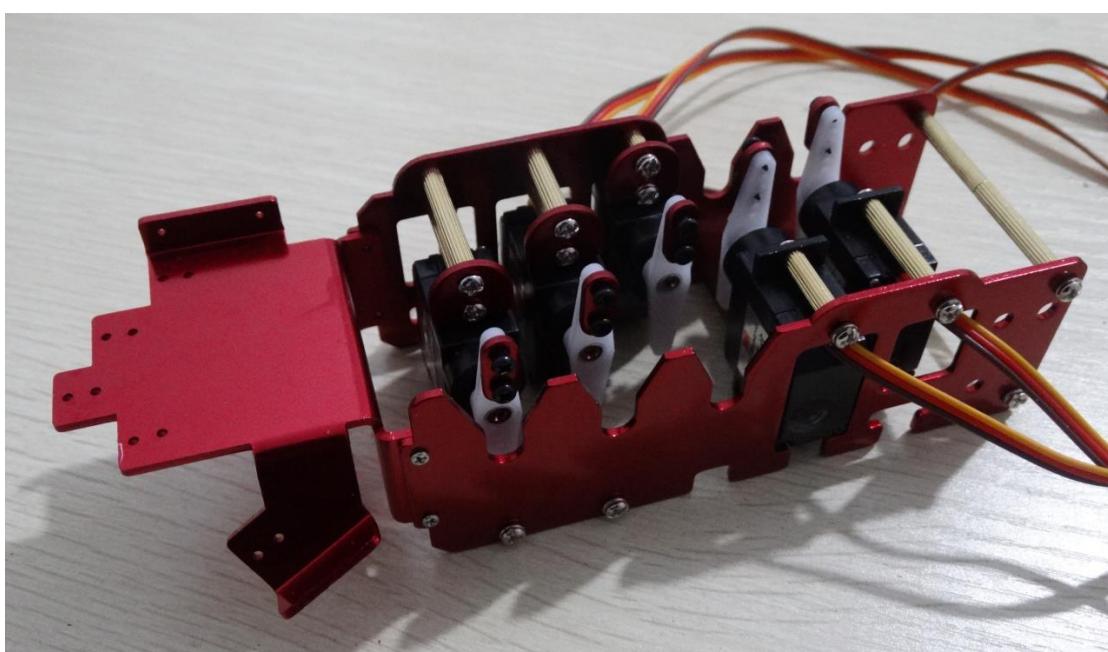
The rocker arm will be screwed into the steering gear, where the rocker arm is first pressed in, the screw head can be used first, and then the screw is screwed. NoteItalian rocker arm to ensure that the red line in the picture as far as possible on the same horizontal screw.



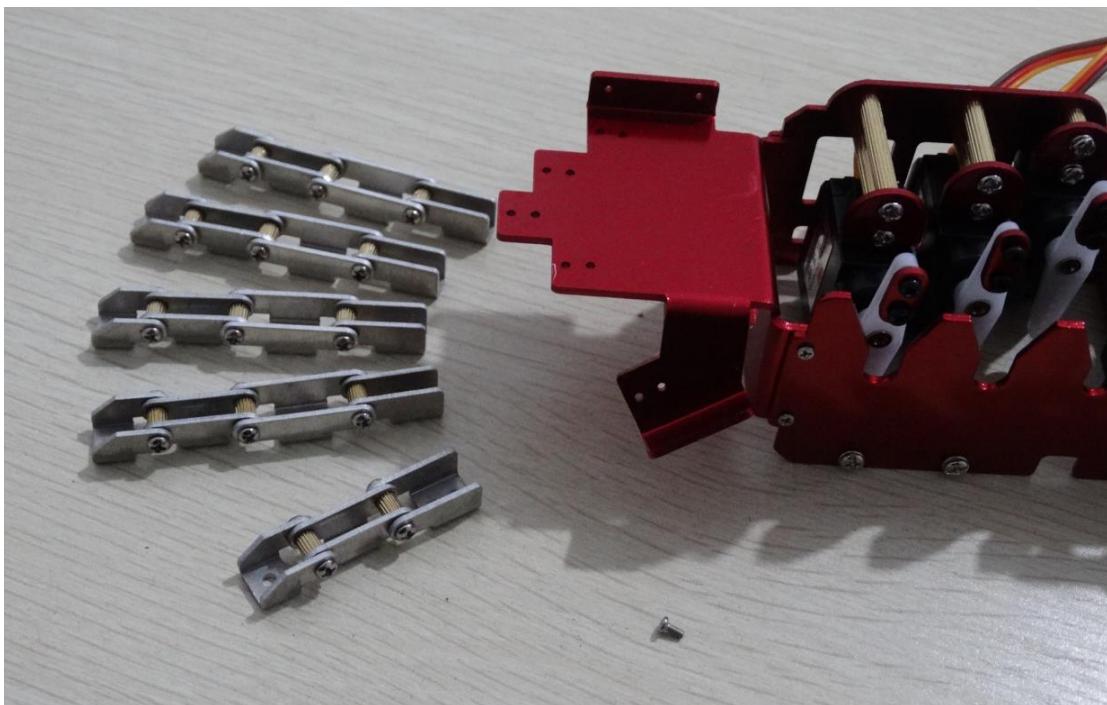
The rocker arm of the 5 steering gear is equally screwed. If you screw the rocker and rotate the steering gear in a non parallel state, you can remove the shakingARM, then back in and reinstall the rocker arm.



Remove the tapping screws with a small plate and black m1.7*6.



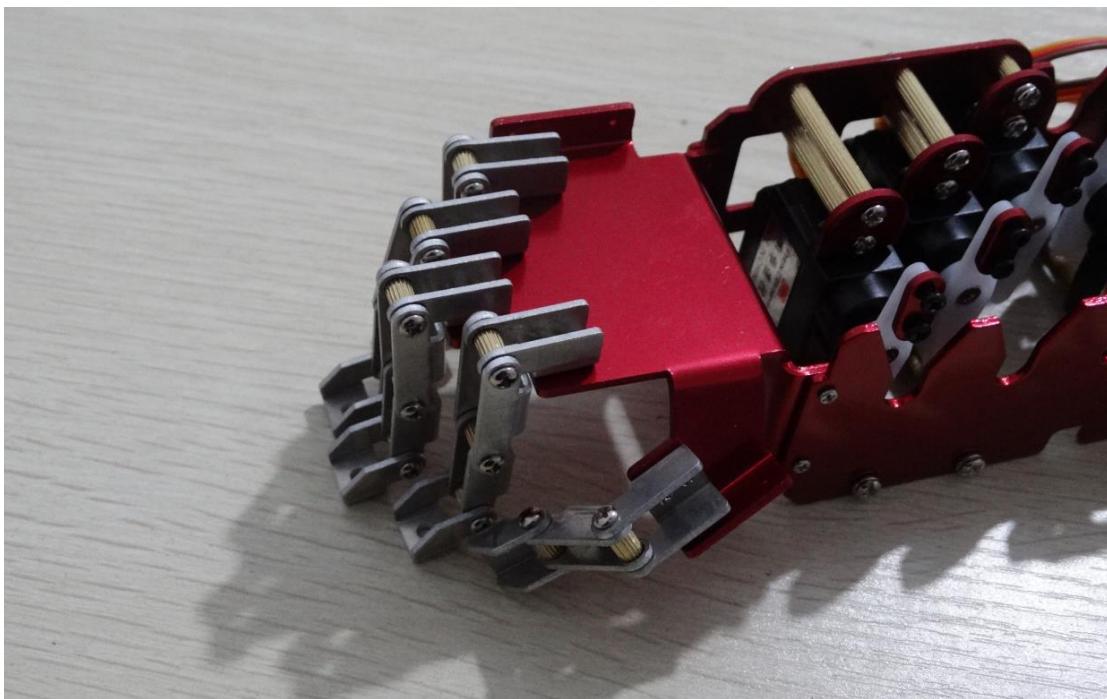
Note the use of the hole position of the rocker arm in the 1th and 4 holes.



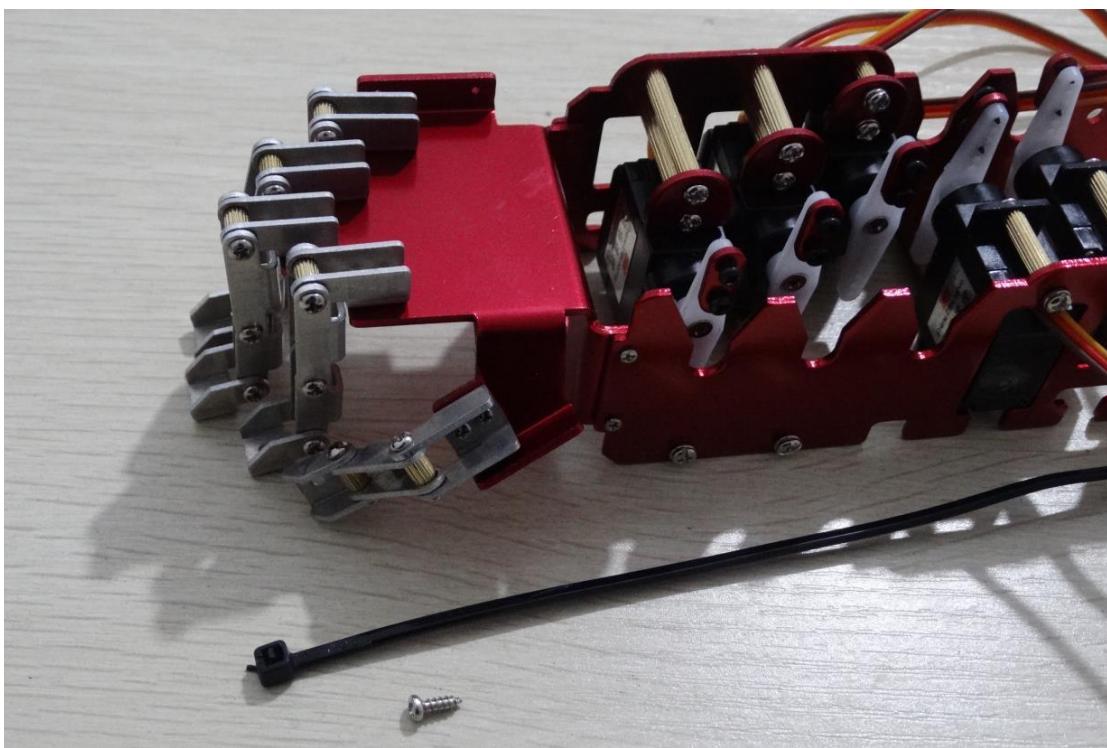
Install finger parts, here use m1.4*3 stainless steel screws, stainless steel screws are not easy to use screwdriver suctionLive, but very strong, can be used as a self tapping screws using force to twist the fingers to start the heart and fixed. After being screwed up, Hand-pull each finger to prevent interference when the finger is moving.



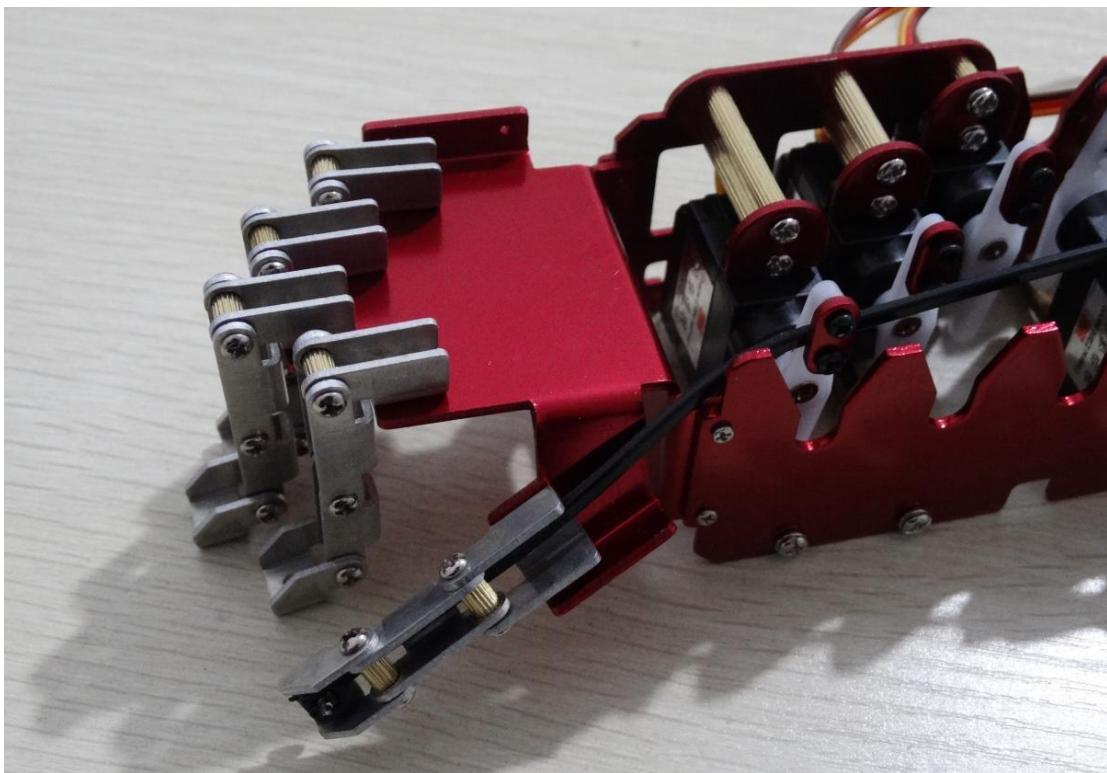
M1.4*3 stainless steel screws are not easy to suck with a screwdriver, So directly put the screws on the screwdriver head and then take the screws, and then install



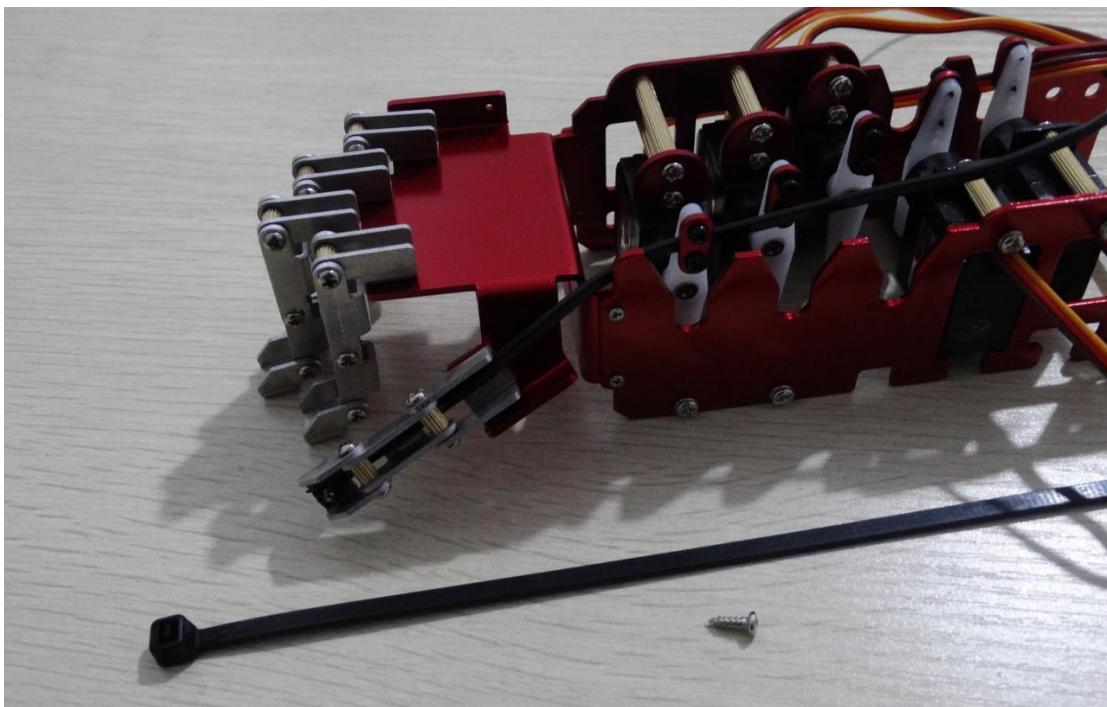
Use screws to install 5 fingers.



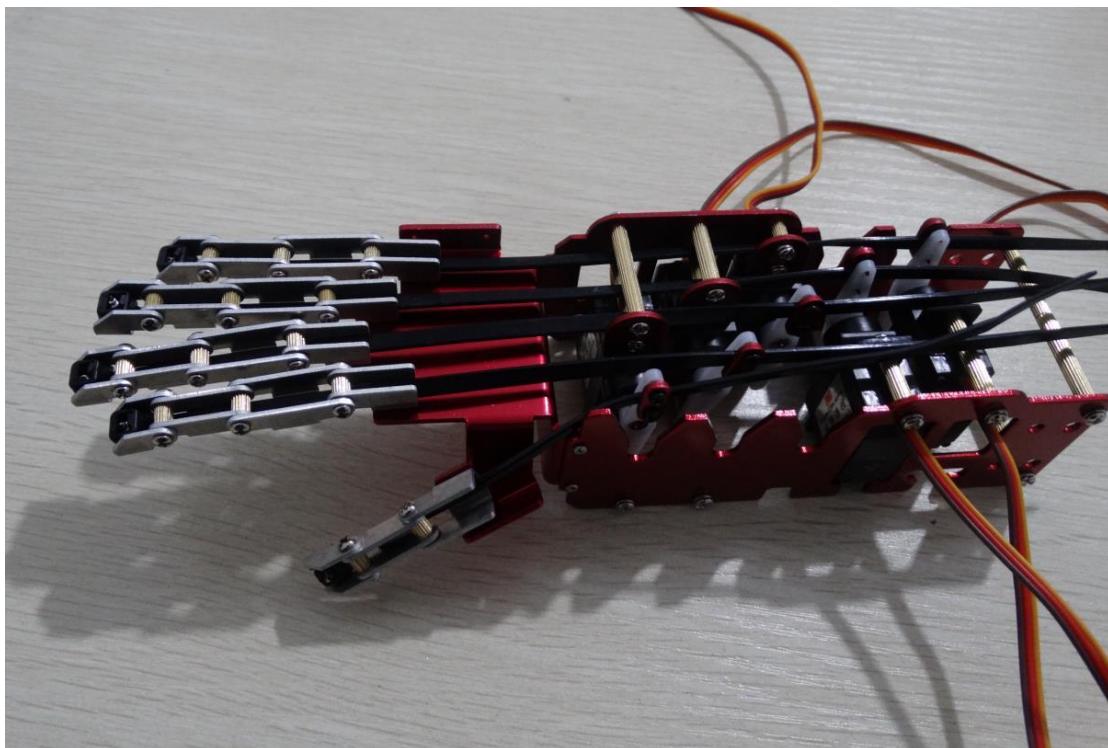
Take out the finger tie with m2*6 self tapping screws put the tie into the fingers, pay attention to tie with large and small, big finger to makeWith a small tie band.



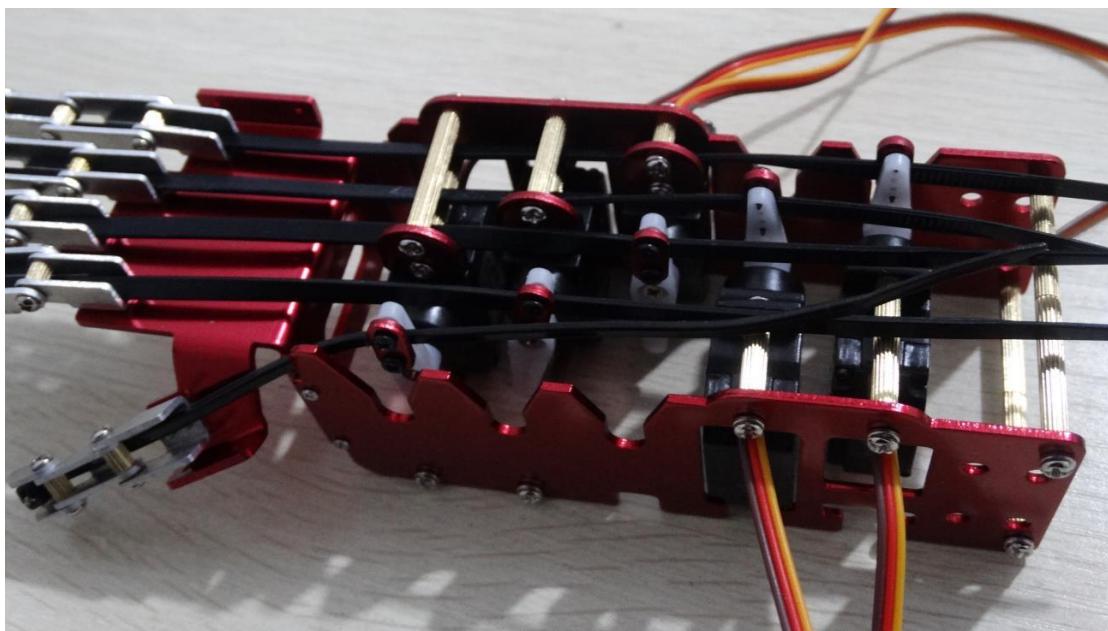
Note that the finger out of the silk mouth facing down, rocker arm out of the silk mouth toward the rocker arm.Screw the tapping screws into the lead section and fasten the strap.



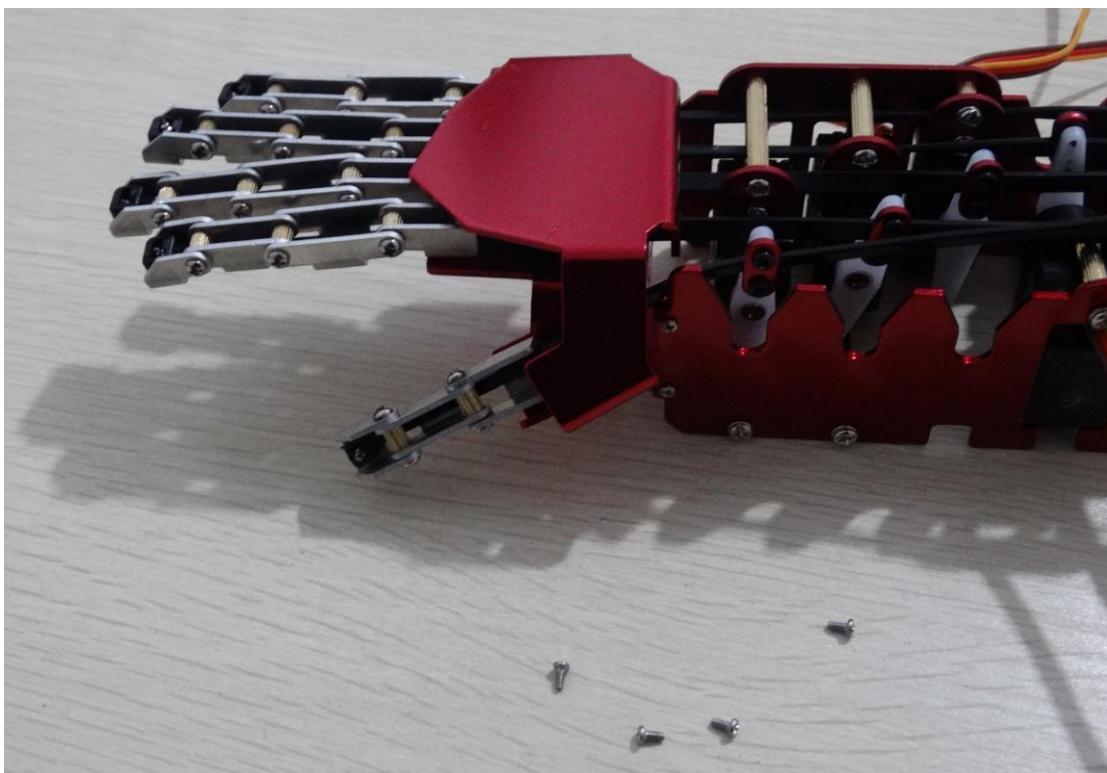
Take out the big tie belt, the other 4 fingers all use the big tie belt.Self-tapping screws using m2*6



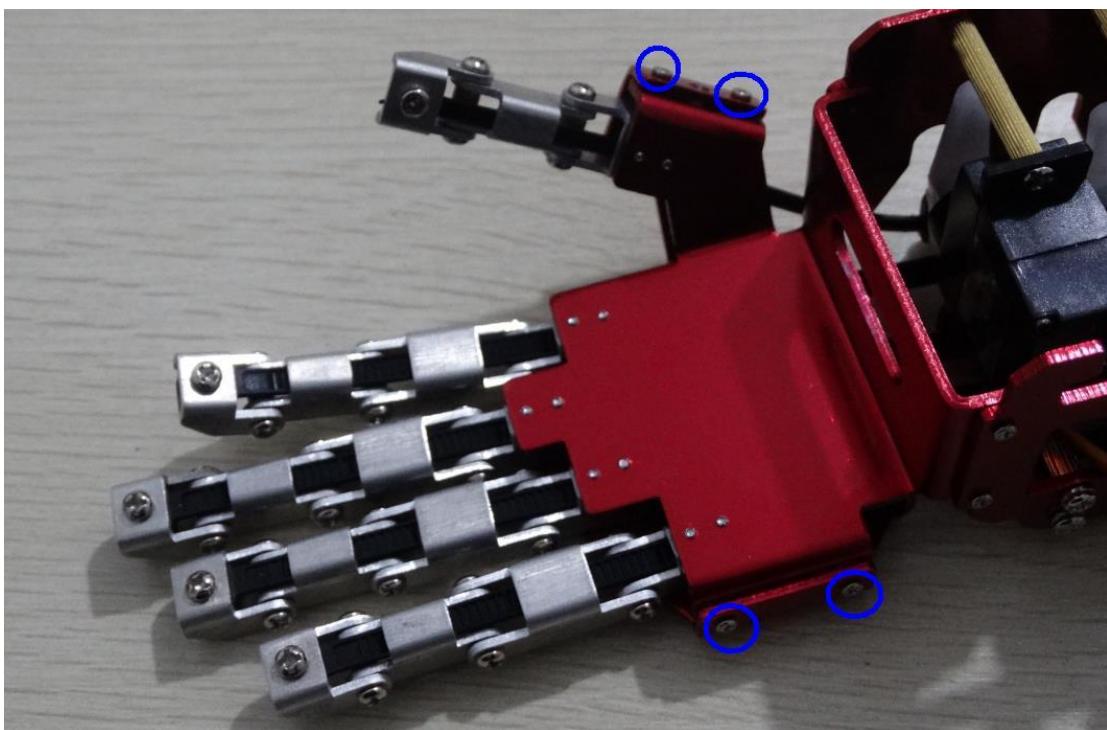
Twist all the straps into your fingers.



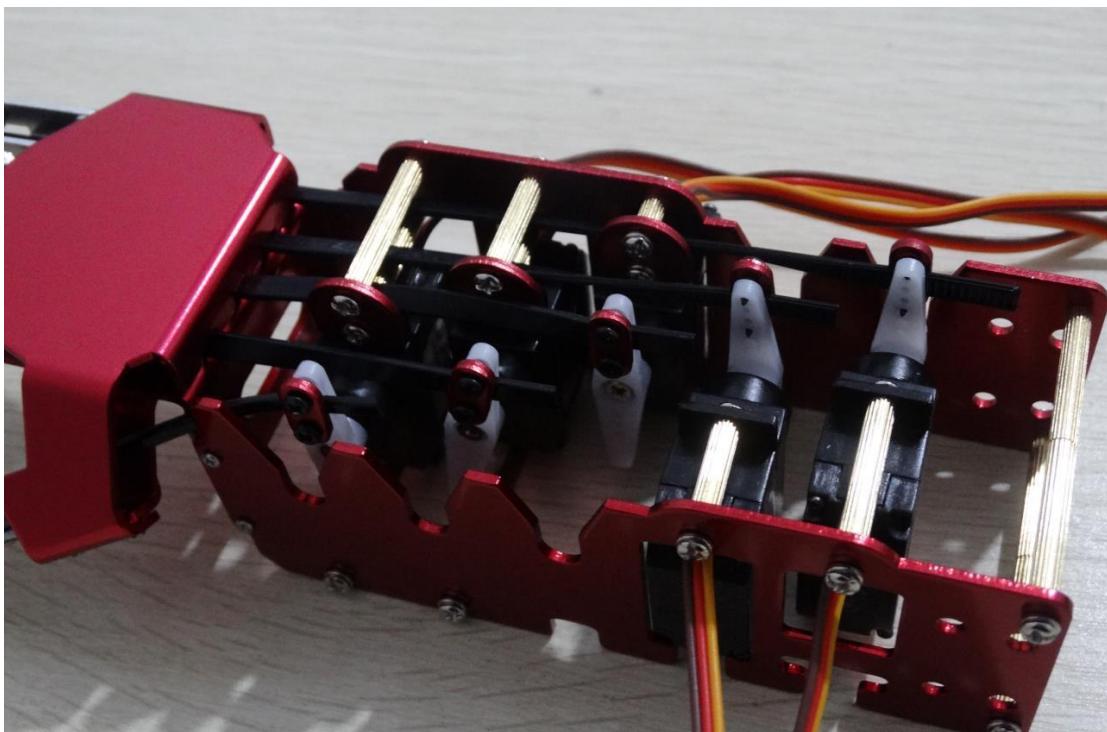
The tie-belt tail is sheathed between the tie-belt plate and the rocker arm, and the silk mouth faces the rocker arm.



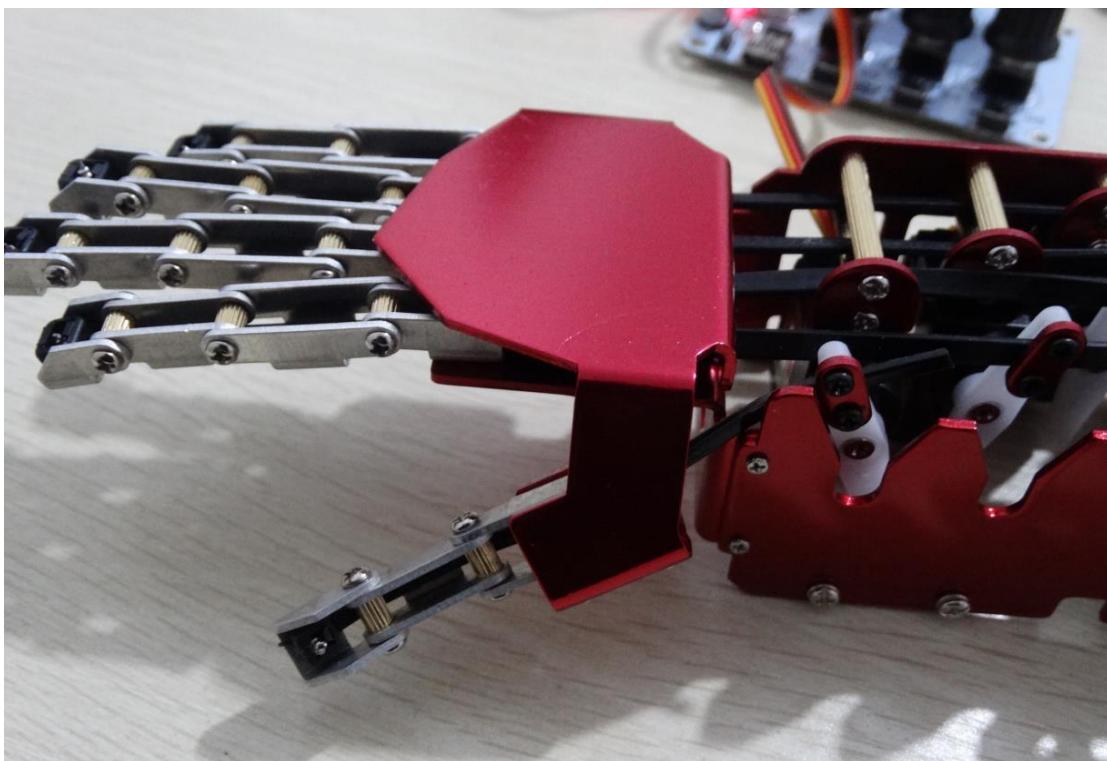
Install the back of the hand and remove the m1.4*3 screws



Installation, the first side of the screw into one, not to twist the dead, and then twist the remaining 2 screws, such as screws all screwed into, and then screw dead



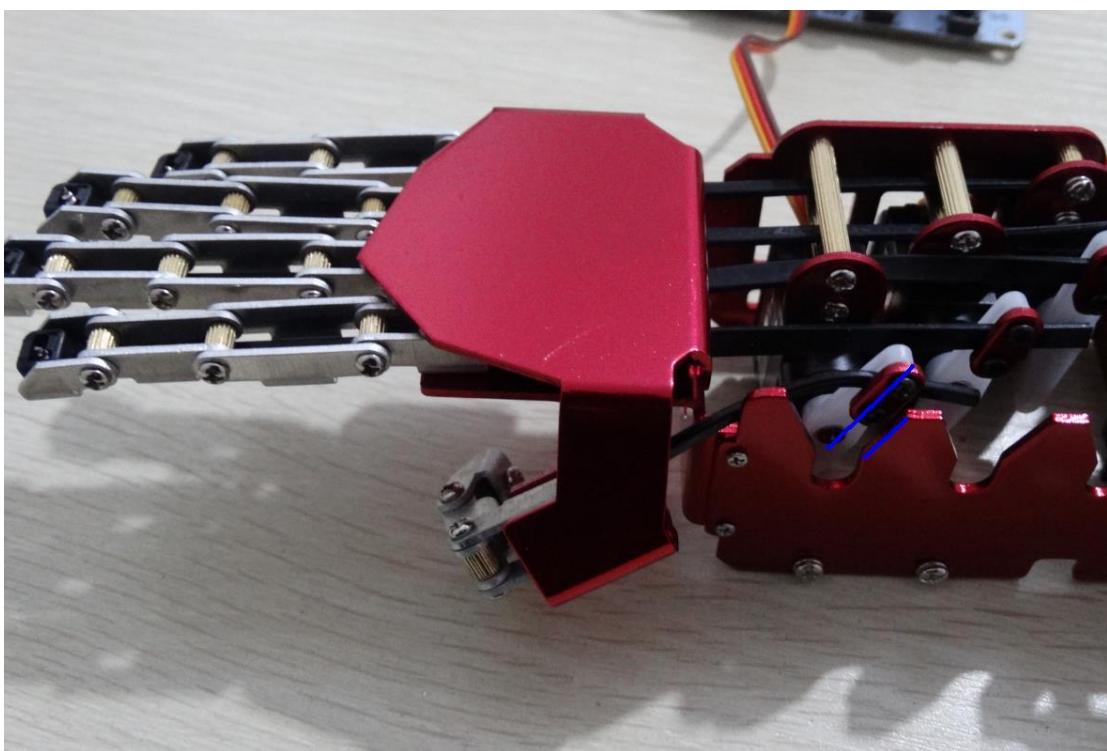
Cut off the extra ties and leave a length of around 1CM for the time being.



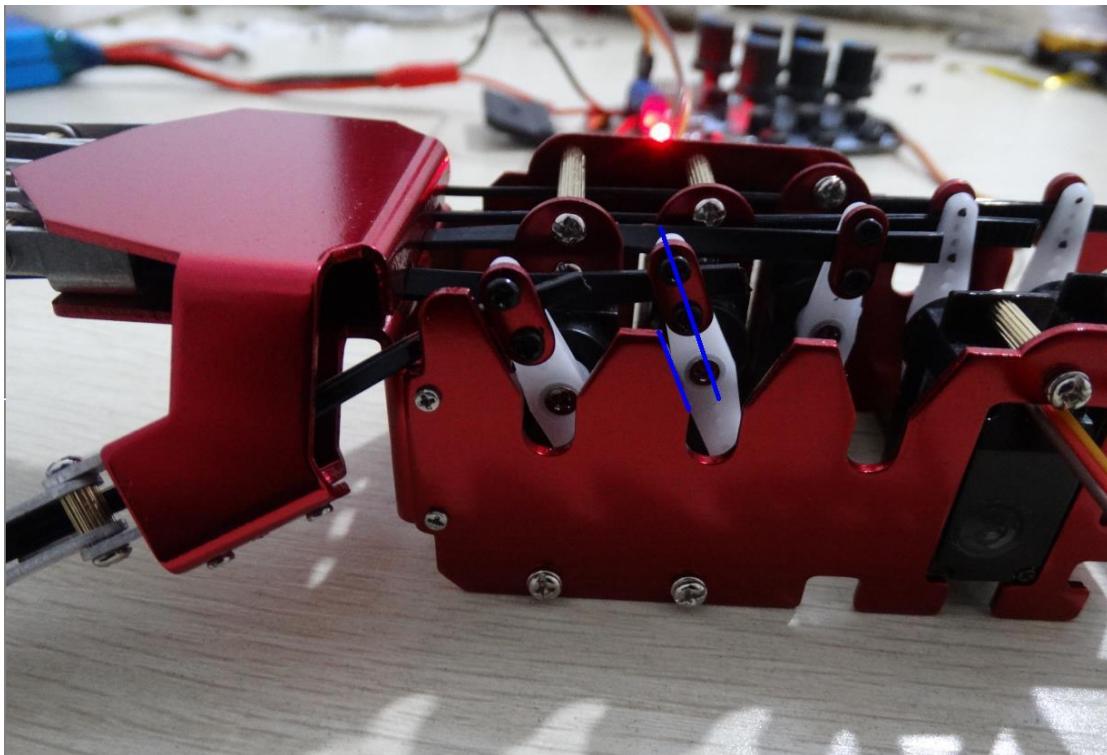
Adjust the strap, here as far as possible using the Knob board, or steering gear Control Board to debug the steering gear. Do not use the hand to shake the arm directly, easily damage the steering gear.



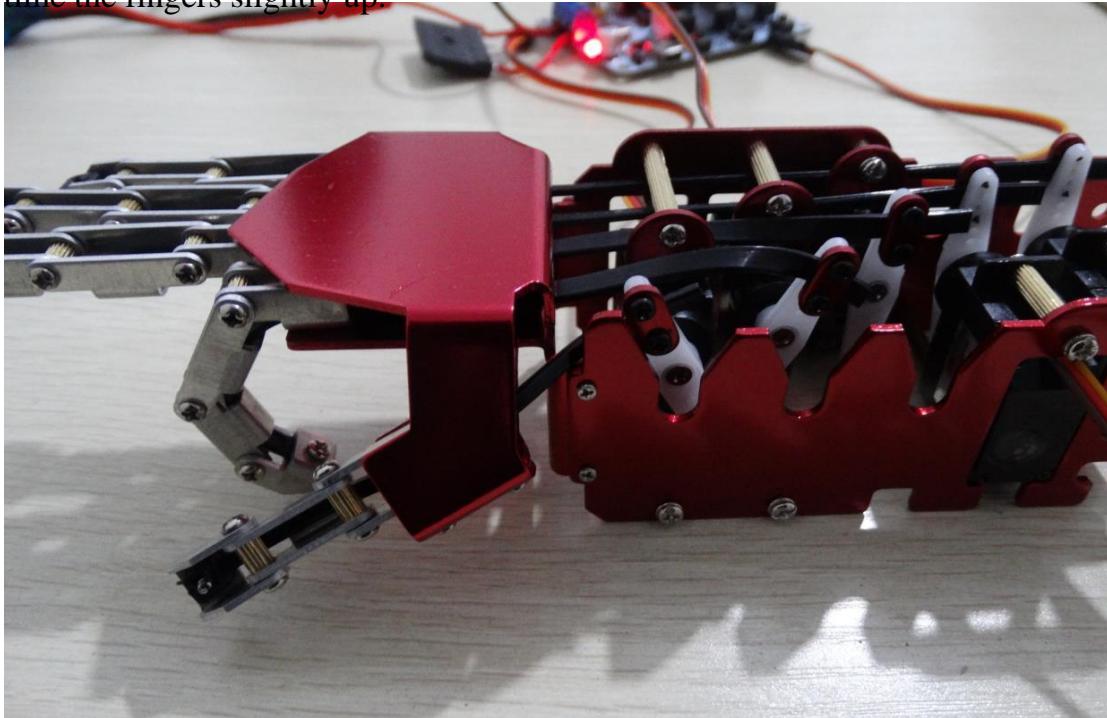
As the rocker arm pushes forward, the Da Cong head is slightly tilted as the 2 blue lines remain parallel.



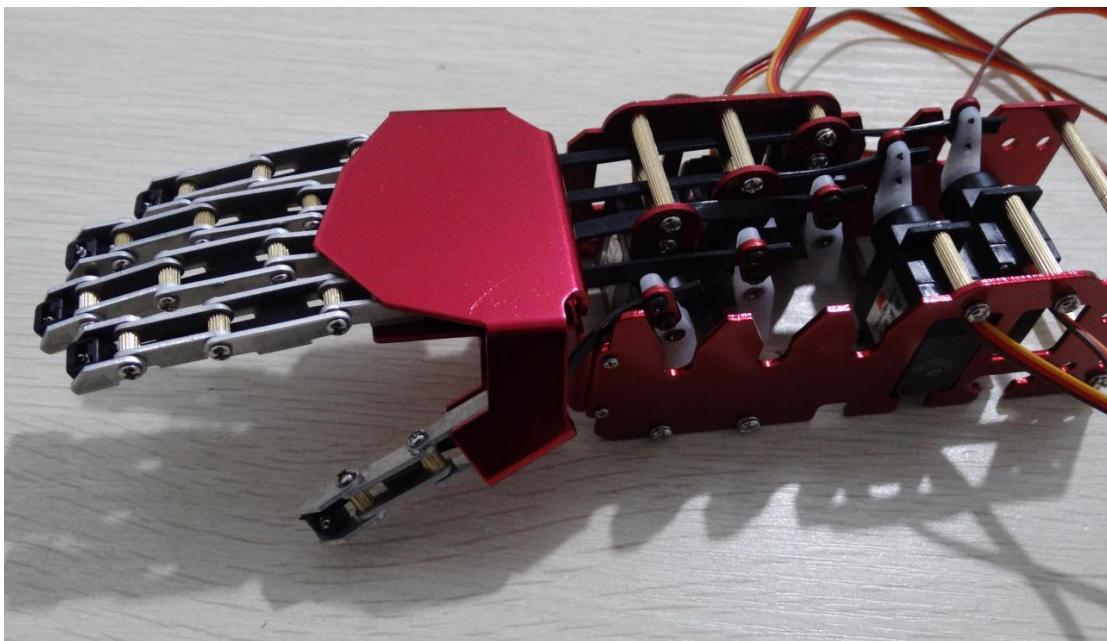
The same is true when the steering gear pulls back. And then cut off the extra straps.



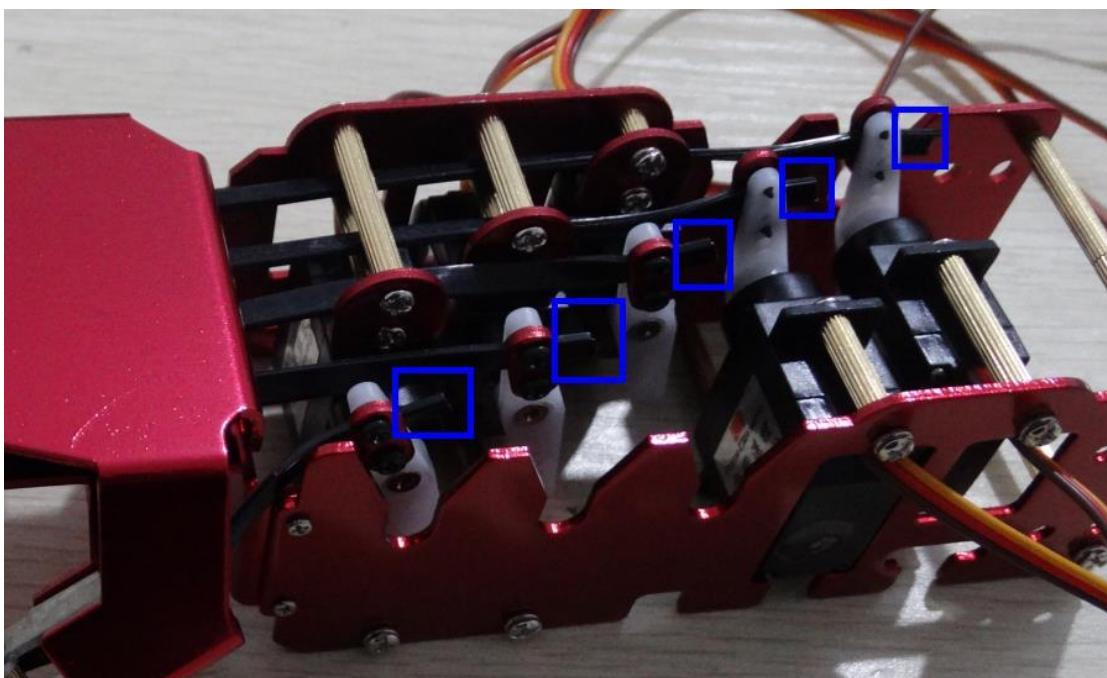
Similarly, as shown in the picture, adjust the length of the strap, and screw the black fixed screws, so that the rocker arm parallel to the hypotenuse, here for the largest steering gear, this time the fingers slightly up.



and pull it back. After the adjustment, cut off the extra ties, keep the length about 0.5CM

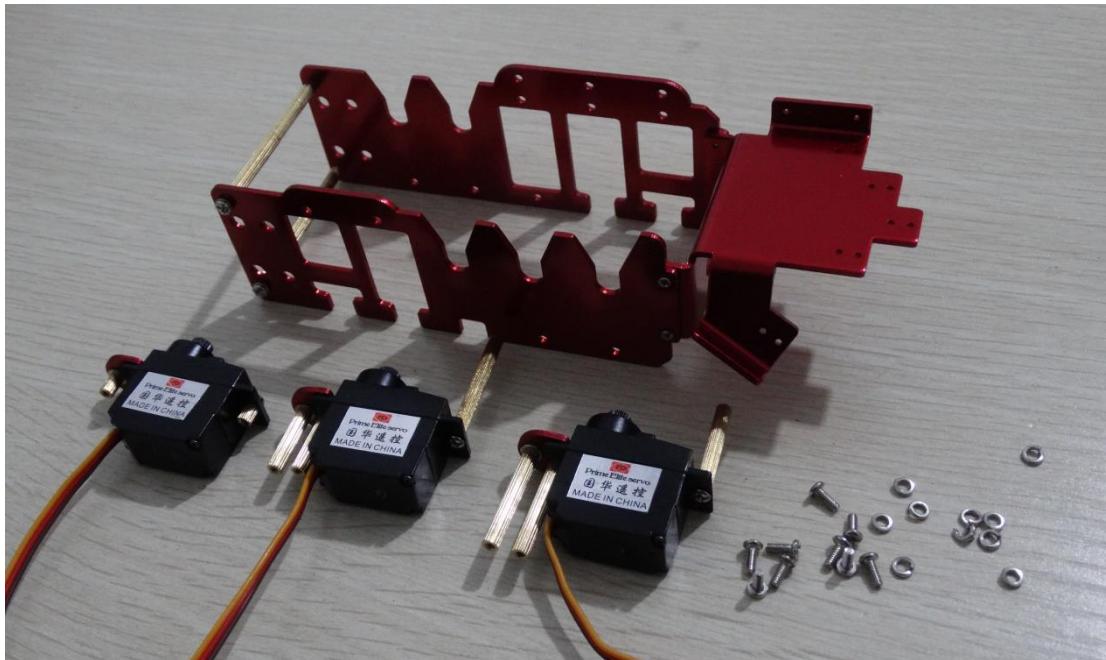


Adjust all the finger steering gear in turn.

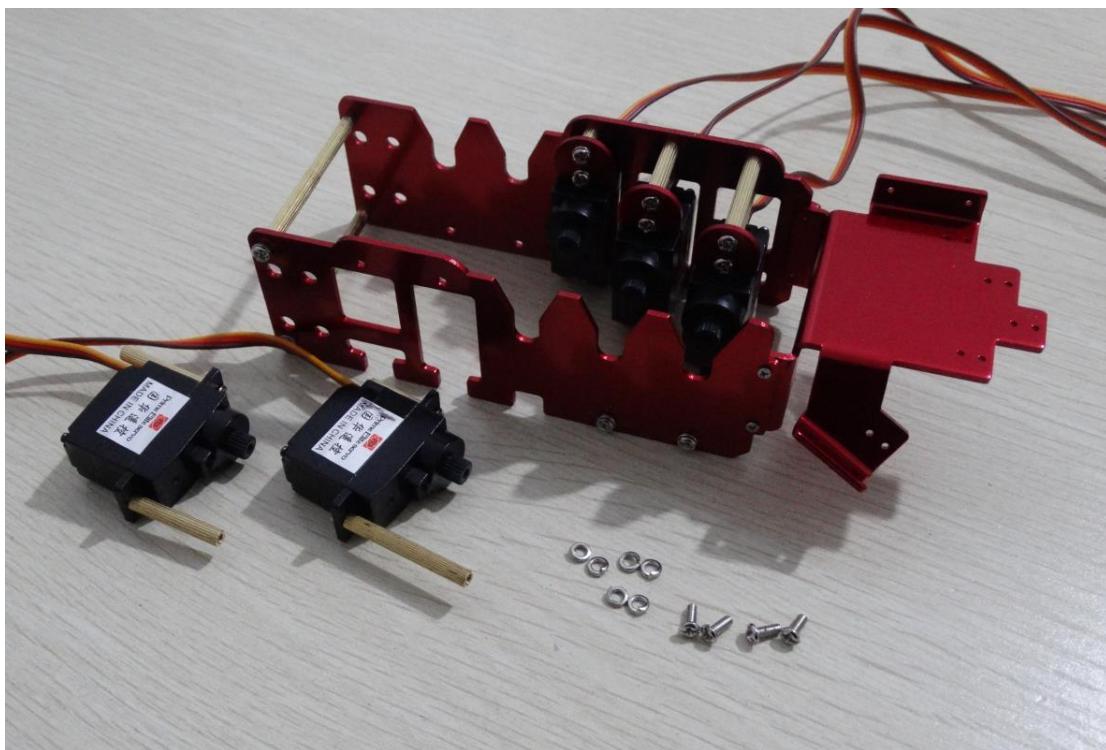


Then again cut the extra ties short, keep 0.5MM.Complete the assembly at this time.When finished, it can be tested by steering gear knob or steering Control Panel.Method in front of the steering gear back to the power supply scheme.Note: If the adjustment of the steering gear hand-shaking arm easily jammed, the rudder tester or steering control Board to control the steering gear rotation, otherwise it is easy to sweep teeth.

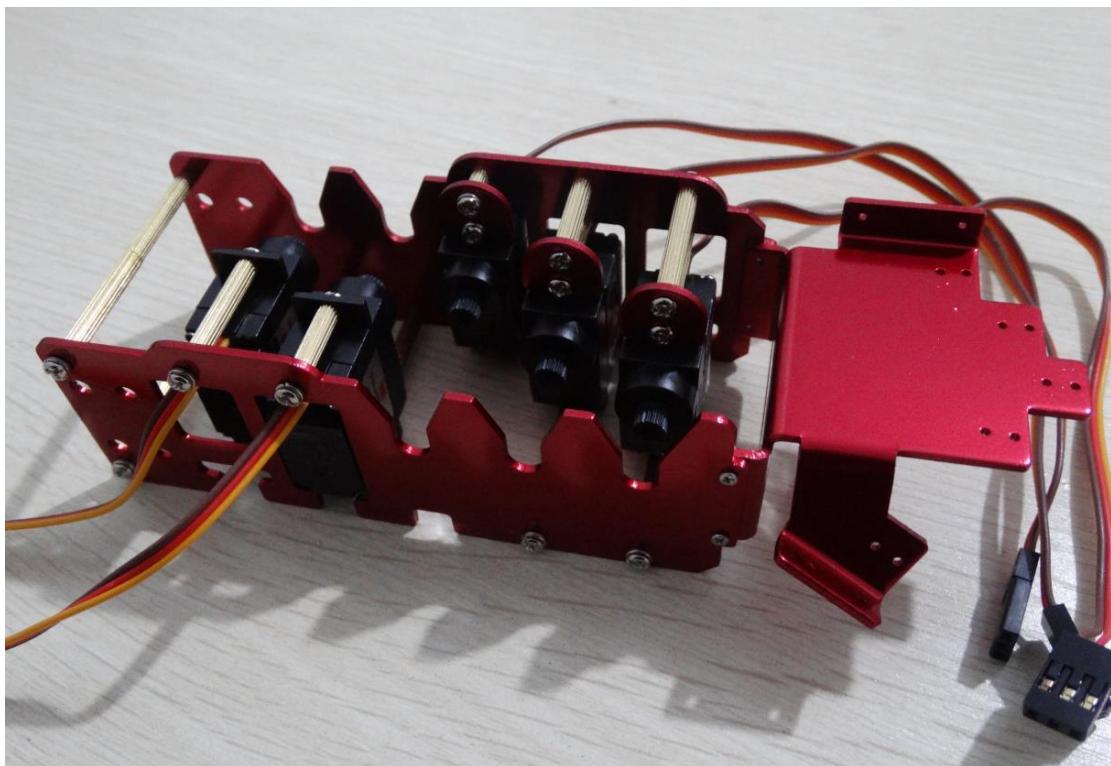
Next, install the left hand as a whole. If you are right hand, please skip:



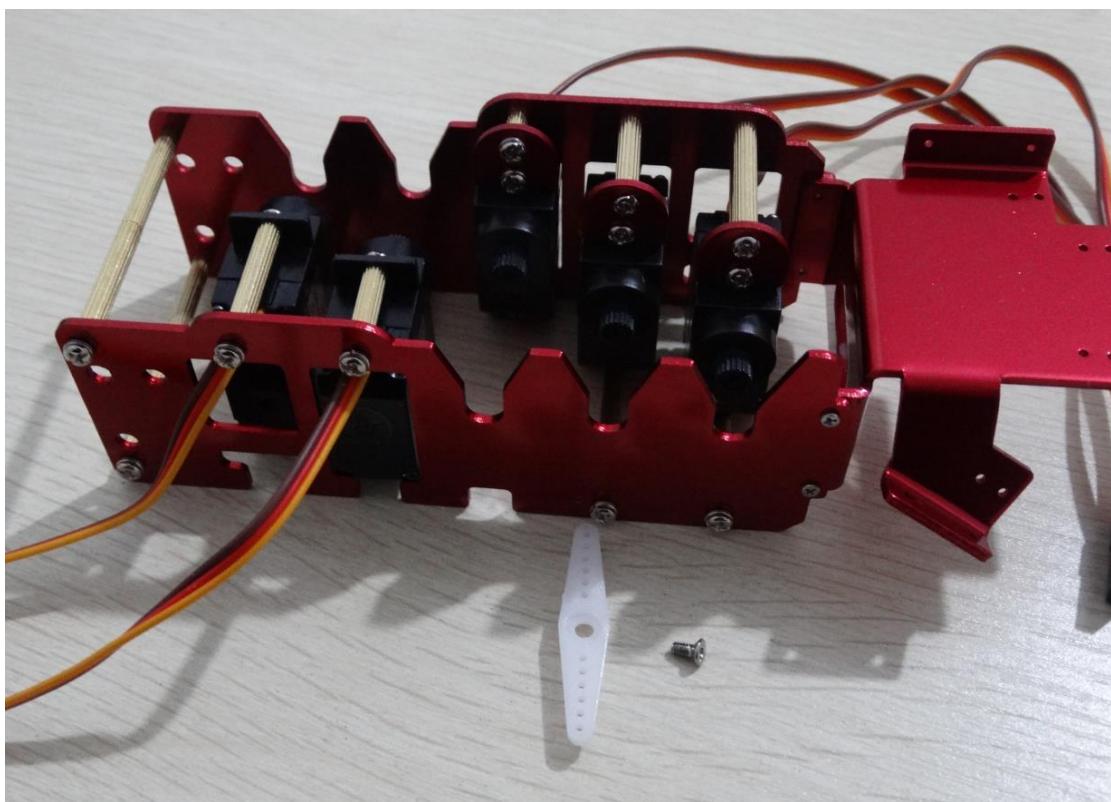
With the right hand, the left hand steering gear 1.2.3 is installed to the left arm in sequence, using M2*5. The screws and the M2 spring mats.



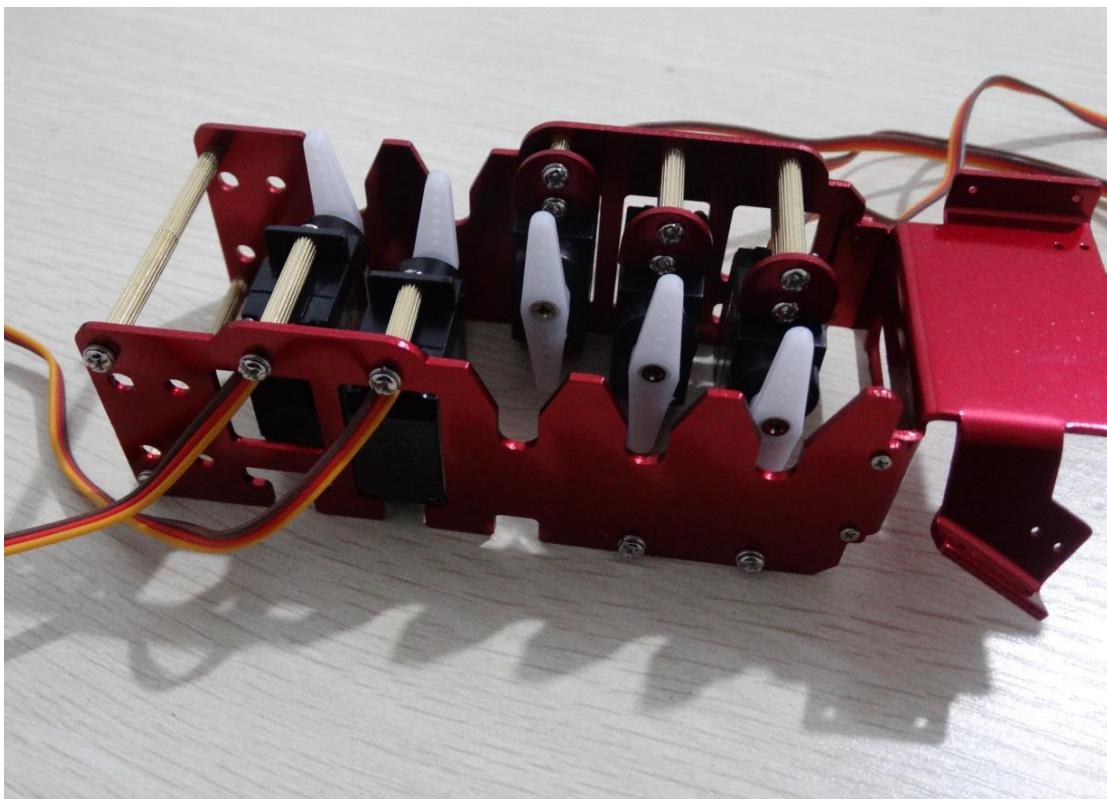
Next, install No. 45 steering gear, and use M2*5 screw M2 spring pad as well.



Complete the arm steering gear installation.



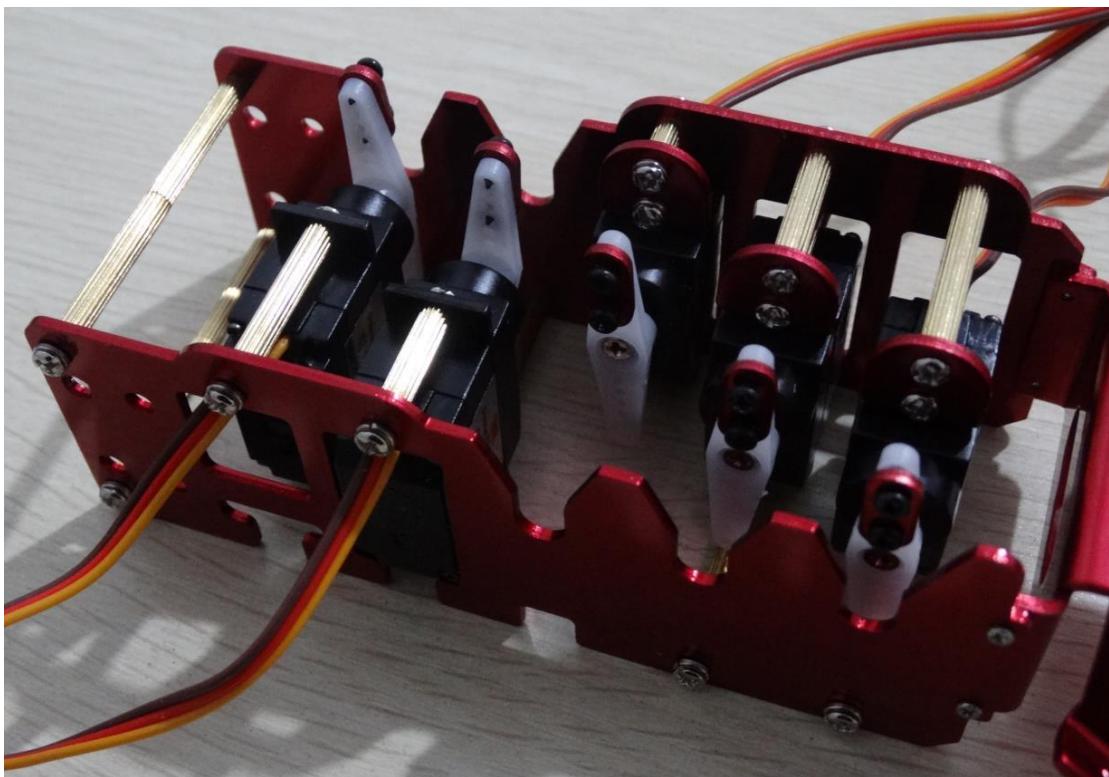
Remove the long arm rocker and the mounting screws of the rocker arm.



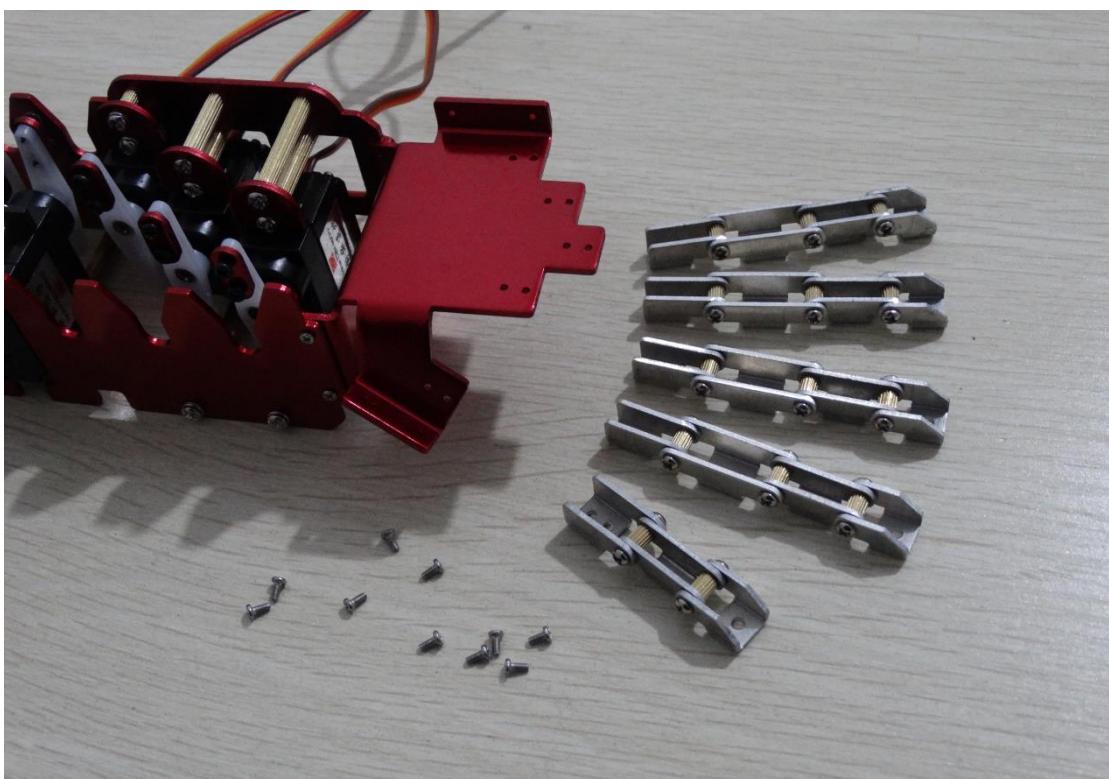
Push the rocker into the steering gear first, then screw in the mounting screw, and ensure that the rocker arm is parallel to the steering gear, and the fashion goes into the swing. Arm. Only relative parallelism can not guarantee absolute parallelism.



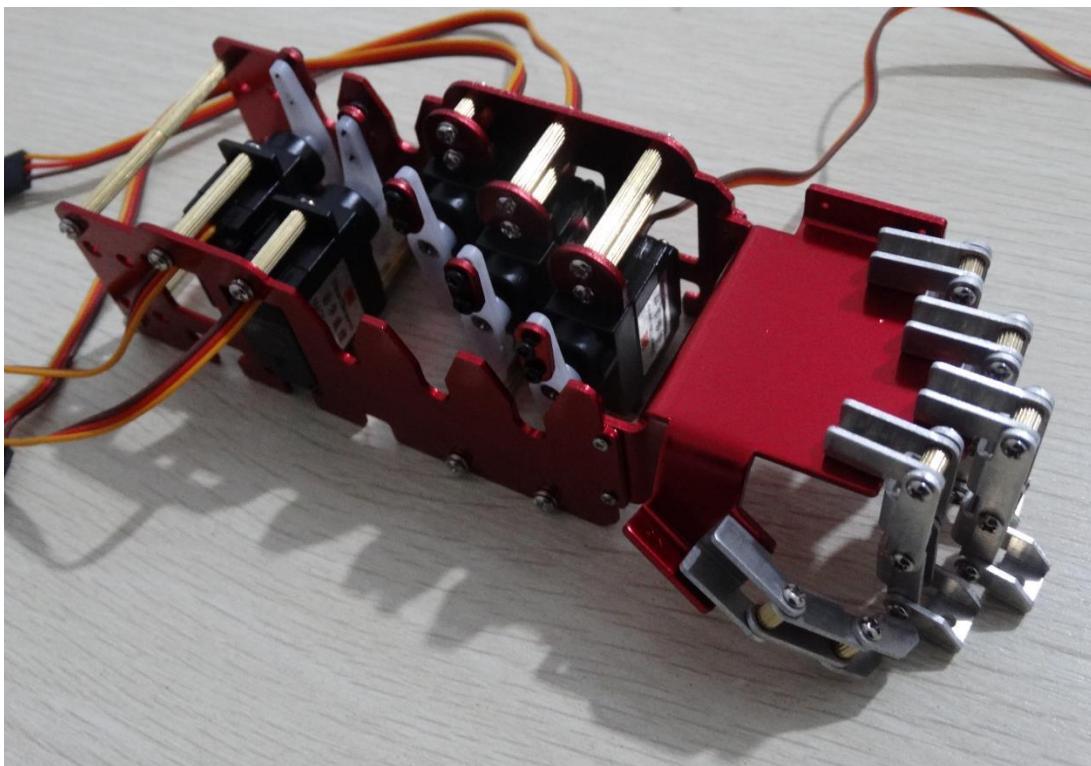
Next, take out the pressing parts and M1.7*6 self tapping screws.



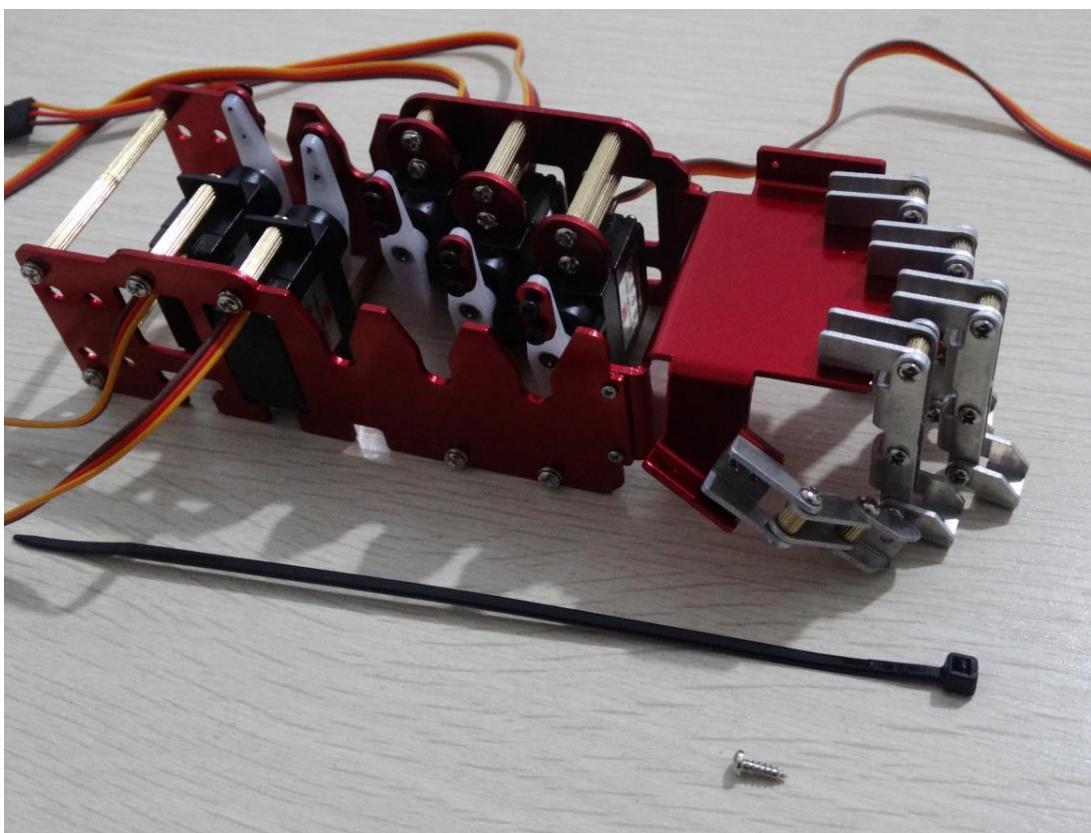
Similarly, twist into the one arm rocker and use the 1,4 hole from top to bottom.



Then remove the left finger parts and M1.4*3 screws. Use 1.4 screws in turn to force the fingers into the palm and fix them.

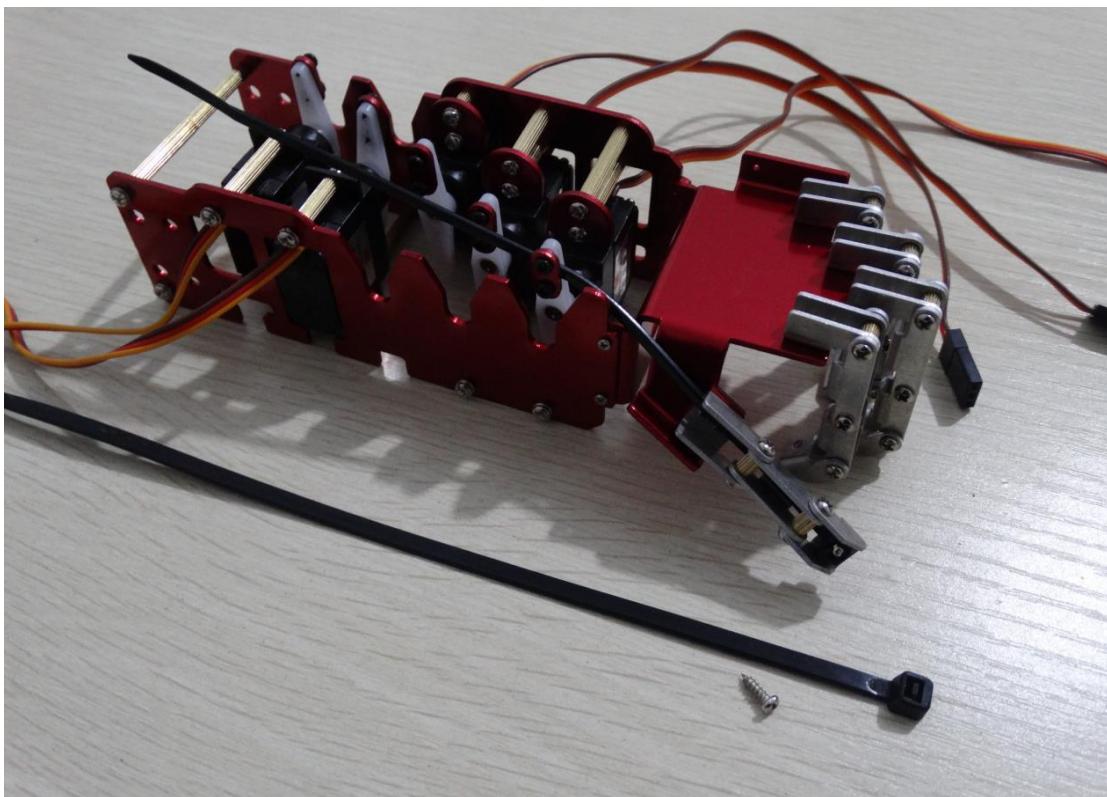


All the fingers are installed.

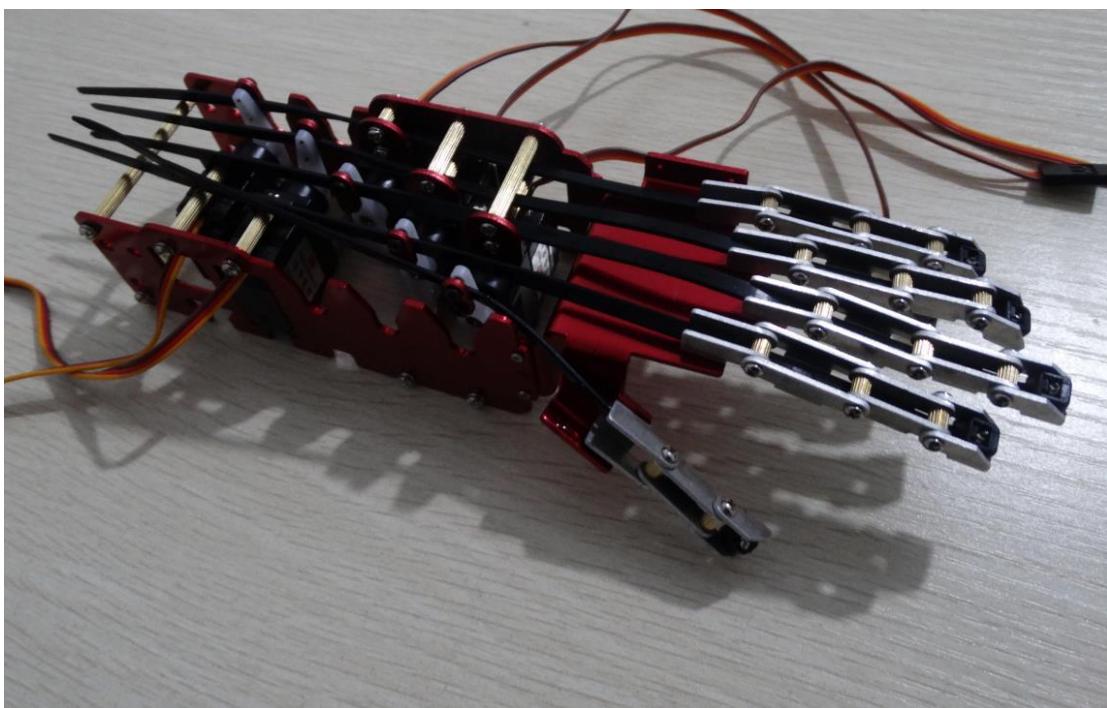


Take out the small zapping belt and M2*6's self tapping screws, and use the small tie with the right hand and the big fingers. Attention to the finger out of the mouth

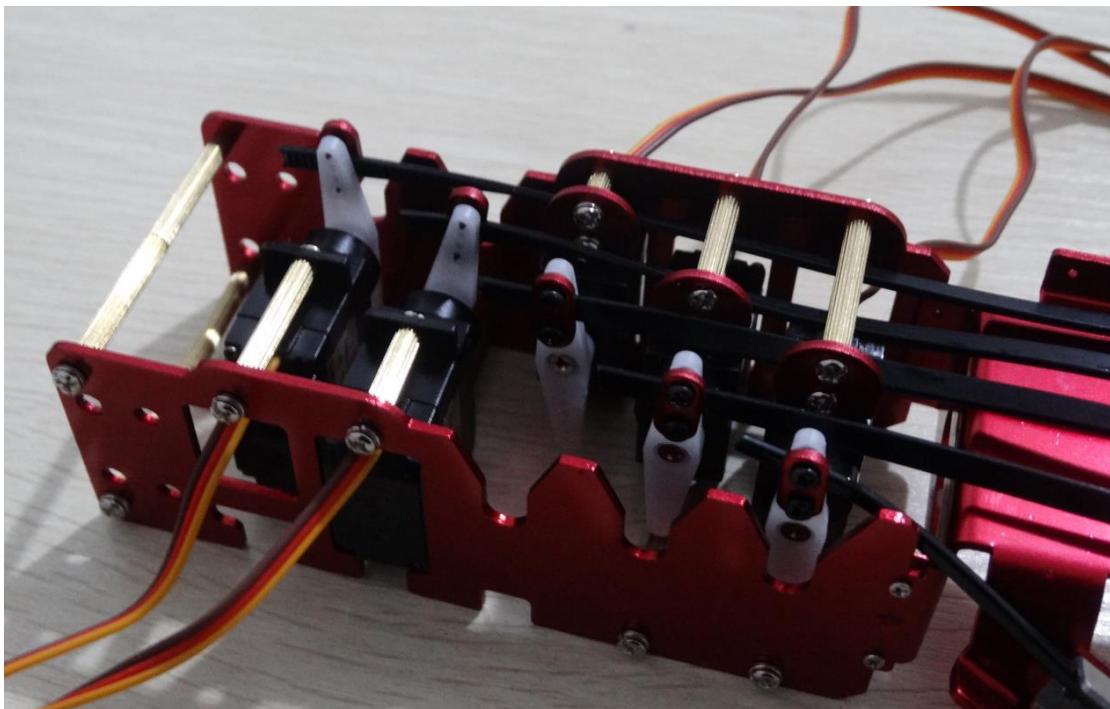
Down, the rocking arm of the rocker reaches the rocker arm.



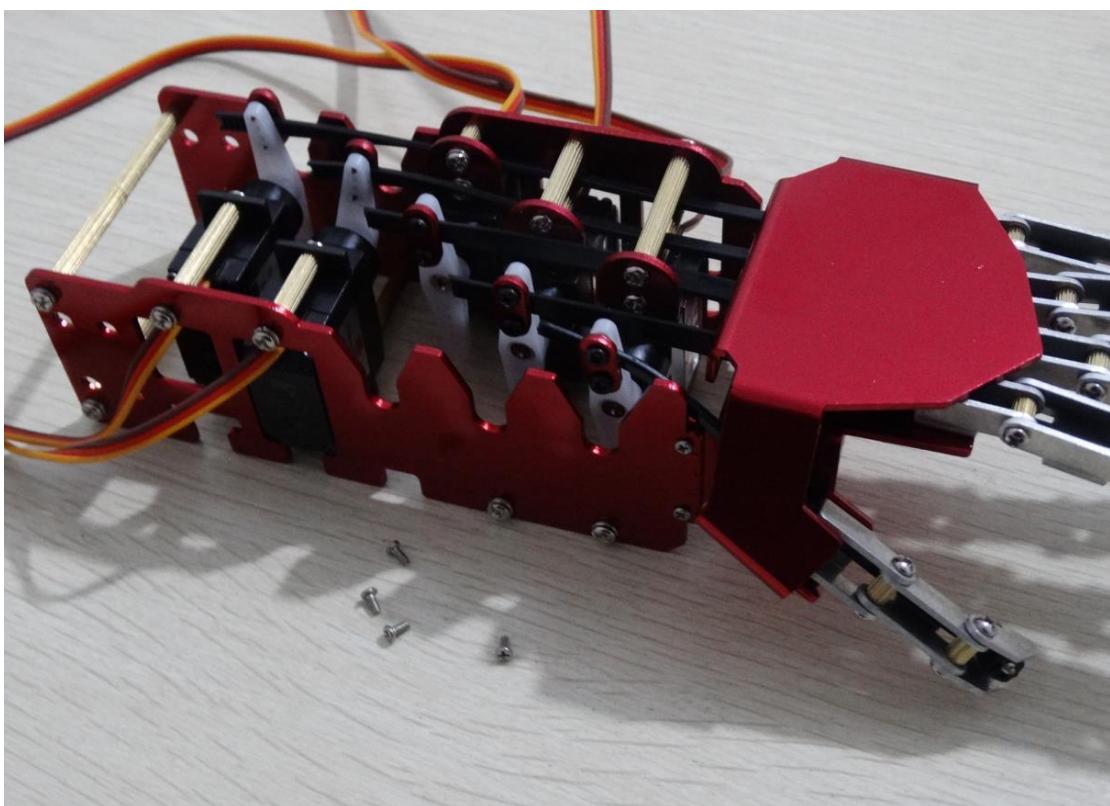
Install the big finger tie, remove the jar with the rest of the finger tapping for installation, still use M2*6 Screw.



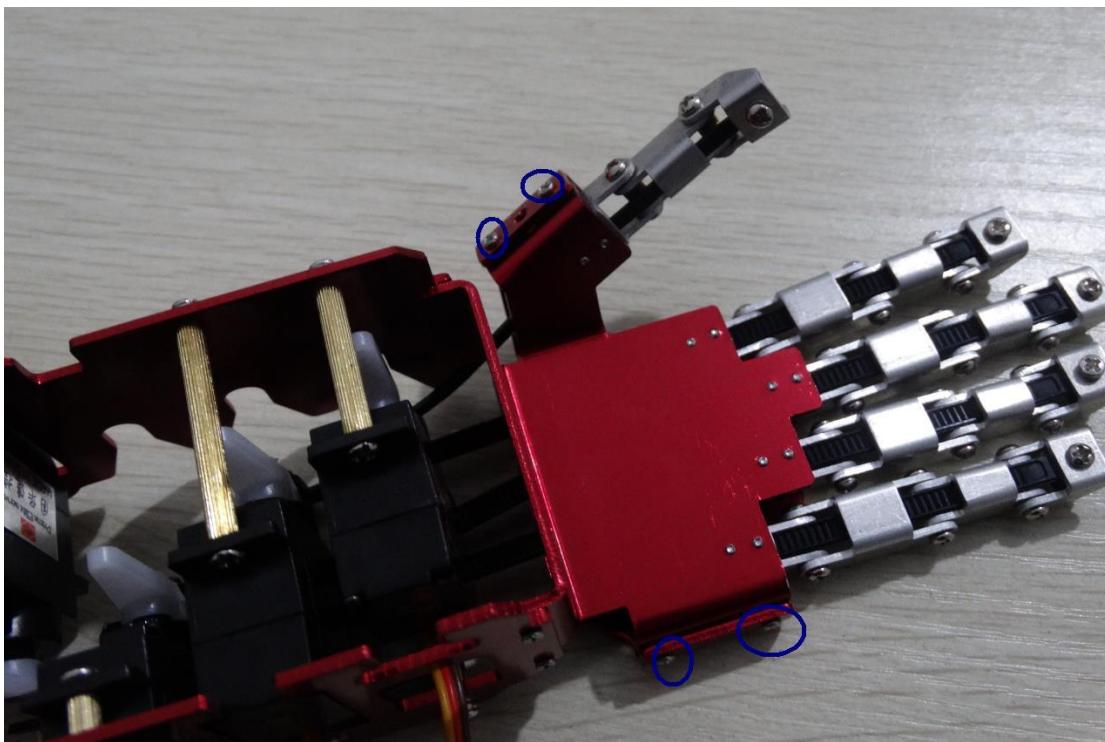
The end of the tie band is set between the tie plate and the rocker arm.



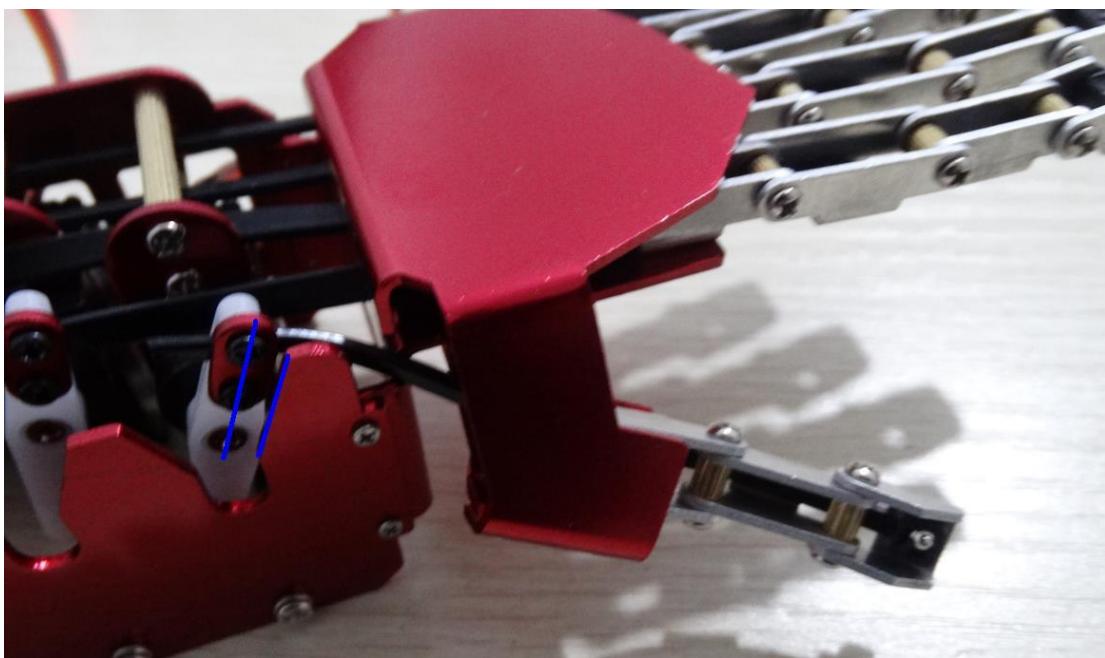
Cut the tail and keep the length of 1CM.



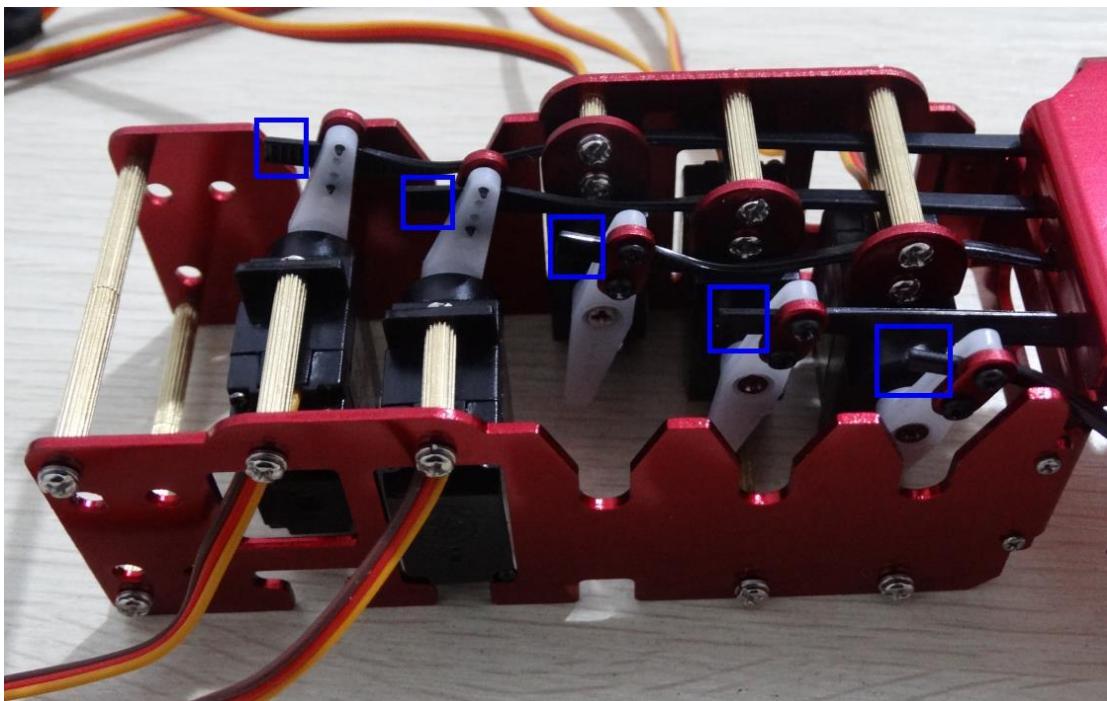
Remove the screw of the M1.4*3.



Use 4 M1.4*3 stainless steel screws. The screws are screwed in as self tapping screws. Note here the first left and a right screw, a screw, do not tighten. After adding the other 2 screws, 4 screws are screwed into the palm of the hand, and then tighten the screws to fix the back of the hand.

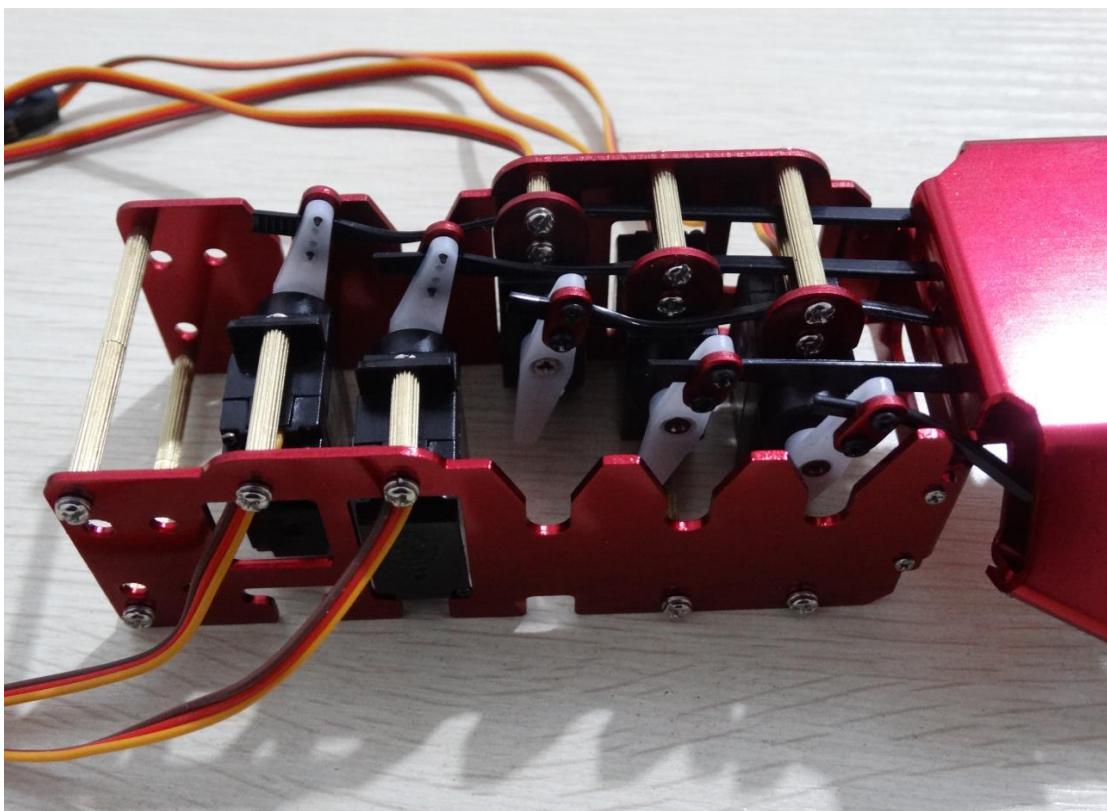


A knob or steering control board is still used to adjust the belt (as far as not to move the rocker directly, easily damaging the steering gear), first from the big finger, the front push belt to make the finger upwards, and then push the first steering gear to ensure that the first rudder arm is flat with the arm, and the finger is slightly upwards. When you pull it back The fingers are bent with the right hand, then 2 screws are killed. Complete installation and fixing of No. 1 rudder belt.

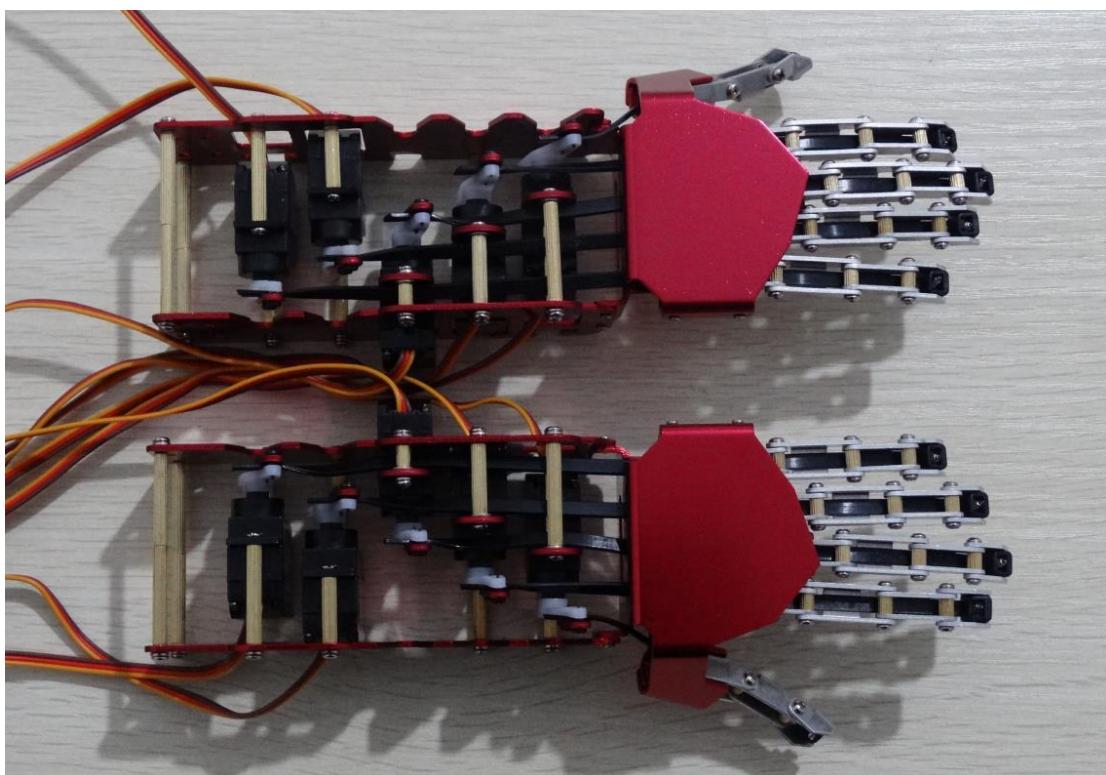


Adjust the remaining tie length in the same way. After adjusting, screw the black screw with the platen, and shorten the length of the tie to 0.5CM. Method is the same as the right hand (when the forward arm of the rocker is parallel to the oblique side of the arm).

When fingers are slightly upturned, the fingers are bent when the rocker arm stays parallel to the oblique side.

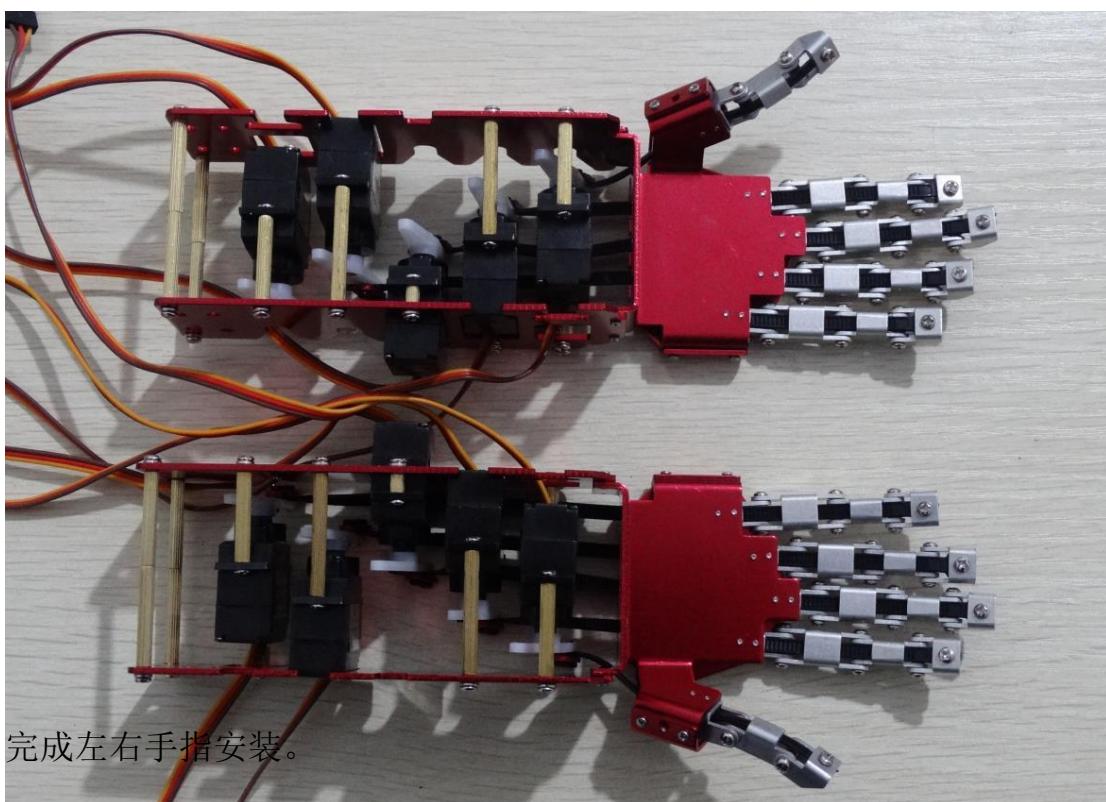


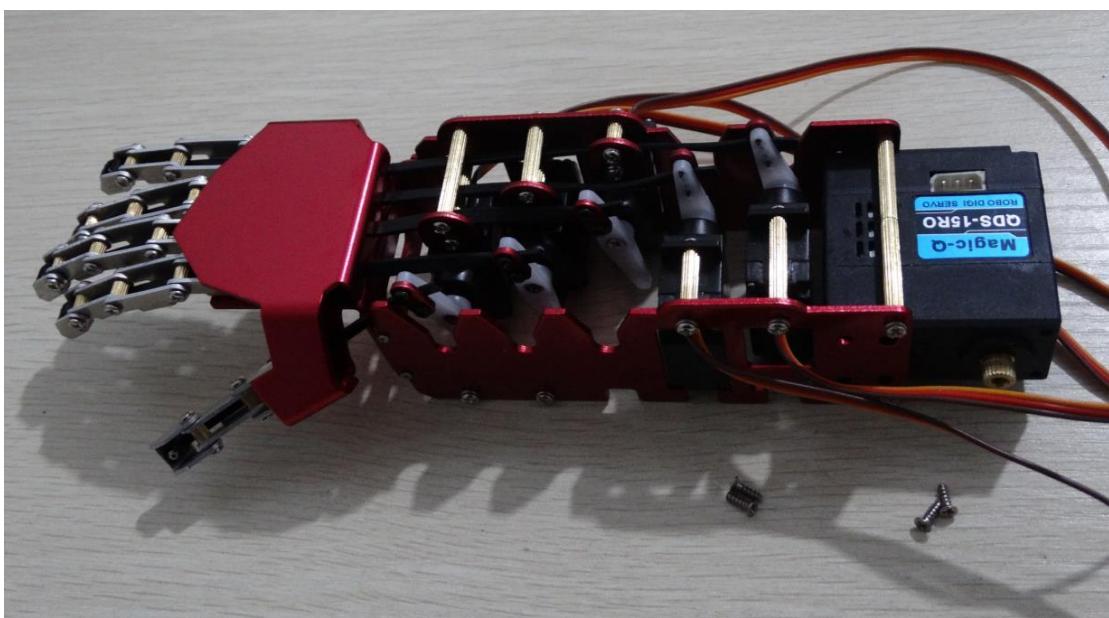
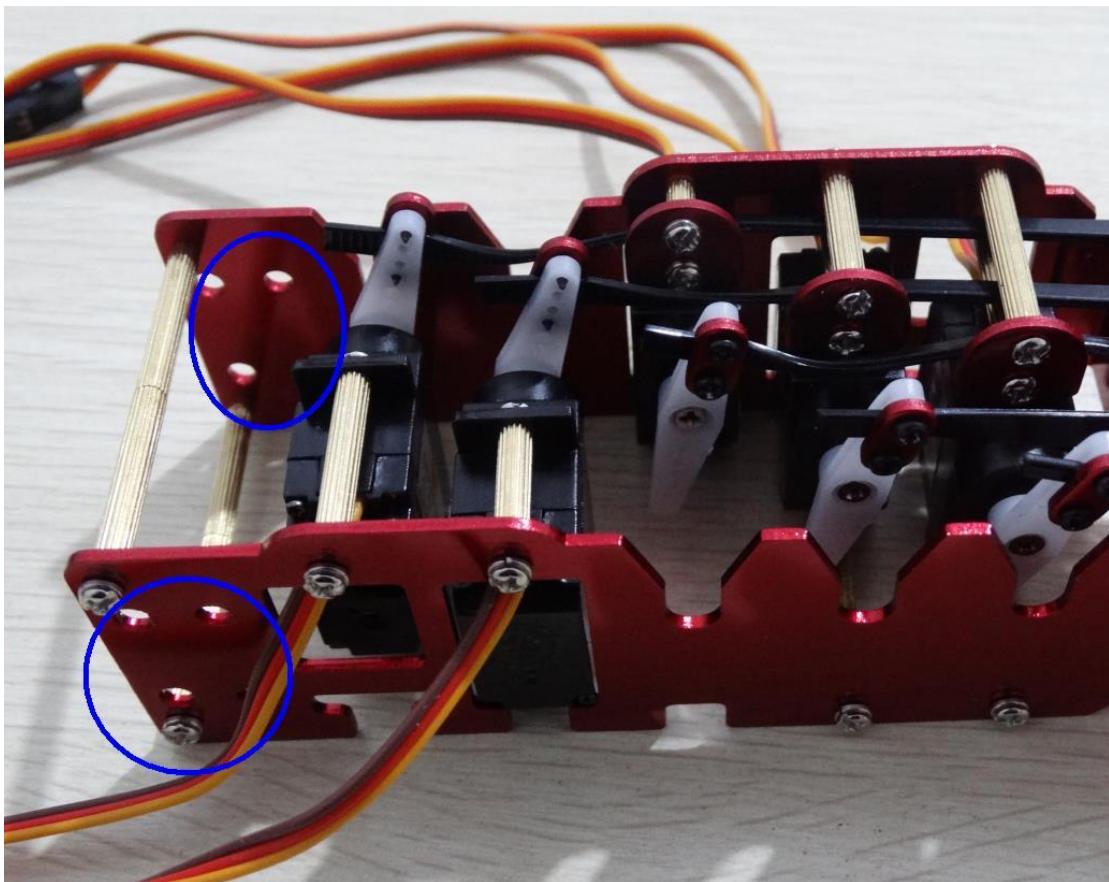
Complete the left hand installation.



Note: when we finally use robot fingers, try not to make the small rudder long or the longest.

The small position is the two states of fingers holding and straightening, and always pay attention to the heating of the small steering gear. If the fever is too large, let the small steering gear go back to the middle state of the steering gear, or stop working. Let the steering gear cool. Both The length of the newly adjusted band.





Pay attention to the 4 screw holes of the left and right sides of the M2.5, which are used to expand the connection of the steering gear and generally do not use. When used, insert into the robot steering gear, use M2X6 to self attack the countersunk head screws, about two self attack sunk screws. The silk is fixed.

<http://www.smaring.com/5-dof-robot-metal-hand-five-fingers-for-robotic-manipulator-arm-mini-bionic-hand-gripper-claw-clamp-talon-diy-teaching-model-toy-p1281969.html>