

HeLiBEST MC6500PRO User Manual

Portable, Multifunctional 2 Axis FPV Camera Gimbal

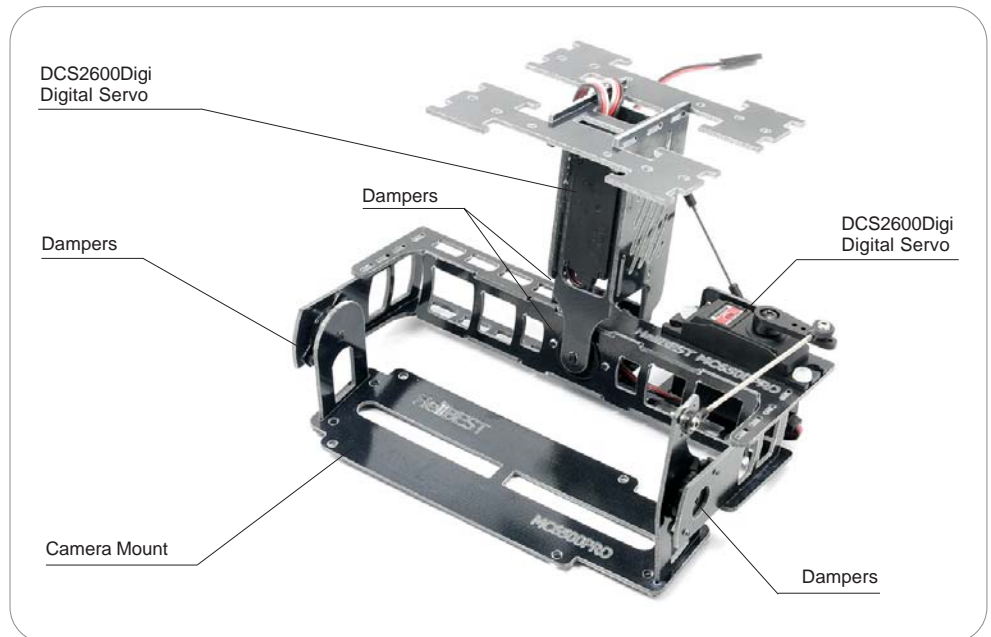
To obtain the best performance of this product, please read through the manual carefully and assemble the parts according to the detailed instructions.

Additional tools you need to use are as follows: 2.0mm allen driver, small slotted screwdriver or small phillips screwdriver, small clamp; high quality instant adhesive.

Note: Most parts of this camera mount need to be adhered by instant adhesive, so please pay attention to the following points when you using it:

1. Proper instant adhesive (Neither too much nor too little);
2. Protect yourself (Do not drill the adhesive in your mouth or eyes);
3. Absorb the extra undried adhesive by absorbent paper to keep the clean and appearance of camera mount
4. Apply the adhesive on the back of the parts, which could keep the appearance of the mount

The parts can be adhered quickly when using the high quality instant adhesive. And the structural strength could meet the requirements in use. Please rest assured that use.



HeLiBEST MC6500PRO 2 Axis Camera Gimbal Create the best aerial images show only

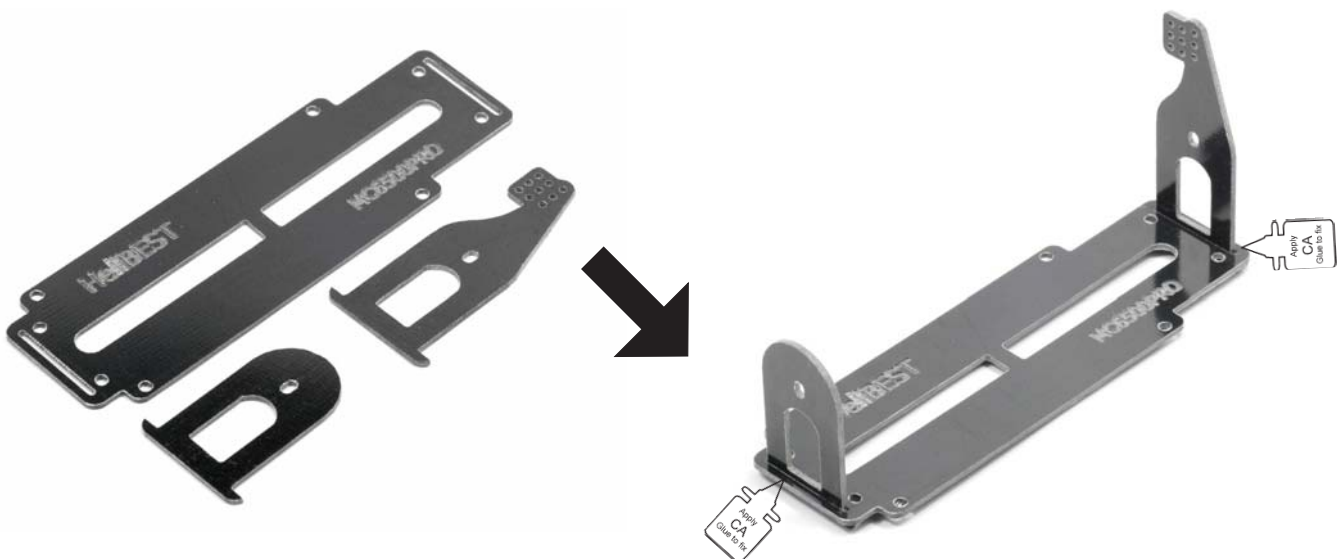
- Compatible with DJI WKM, FC1212-S/P, FY20A/30A, MK 2.0, etc.
- For X650V4/V8, X450/X450PRO, SIGMA Y6 and other models
- Lifting and Flip
- Mention two connections (hard-wired and soft connection)
- The use of special ultra-precision servo + 4 special rolling damper, the operation of unparalleled smoothness and sophistication.

STEP 1

Install the fixed platform for camera

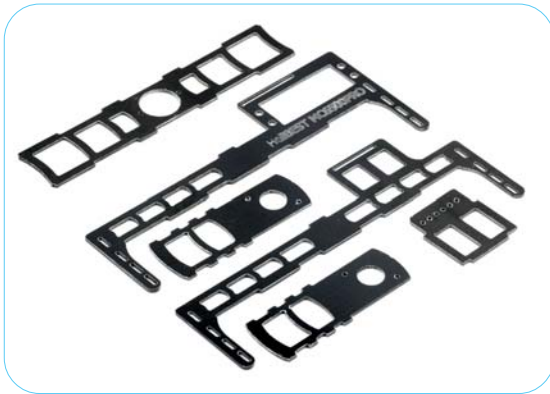


Pay attention to the installation direction of the parts



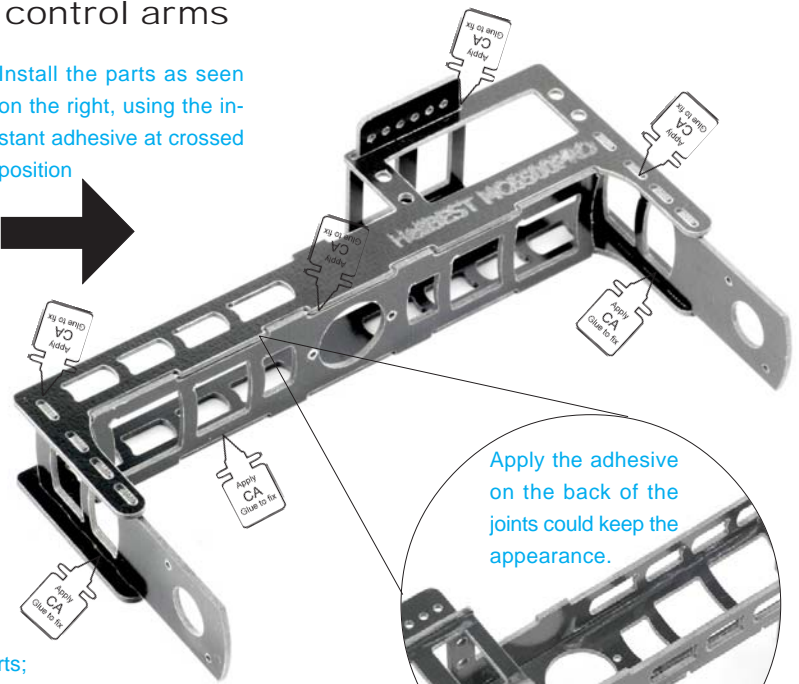
STEP 2

Install the rolling control arms



Prepare the parts

Install the parts as seen on the right, using the instant adhesive at crossed position



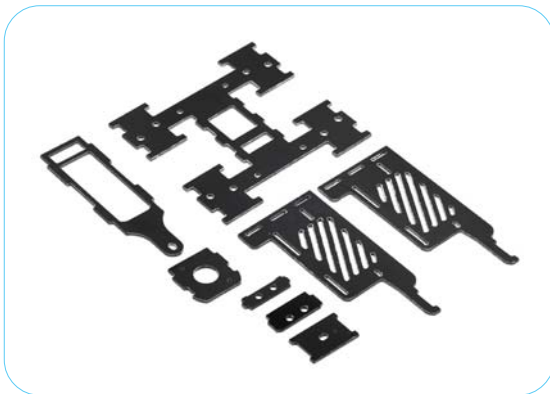
Apply the adhesive on the back of the joints could keep the appearance.



1. Pay attention to the installation direction of the parts;
2. Apply the adhesive on the back of the joints could keep the appearance;
3. Do not apply the adhesive on the fingers, to avoid leaving the finger prints on the parts
4. Do not loose your hand until the adhesive dry, to make sure that all the parts are adhered perfectly

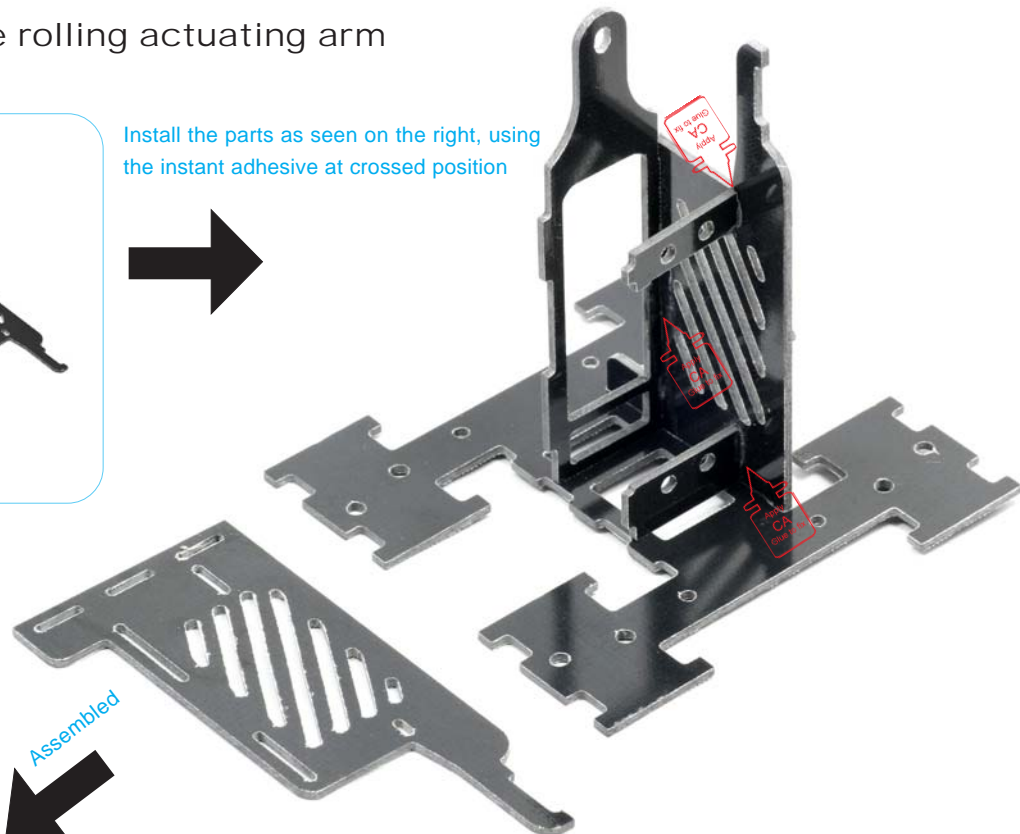
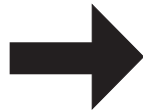
STEP 3

Install the rolling actuating arm



Prepare the parts

Install the parts as seen on the right, using the instant adhesive at crossed position



Assembled



1. Pay attention to the installation direction of the parts;
2. Apply the adhesive on the back of the joints could keep the appearance;
3. Do not apply the adhesive on the fingers, to avoid leaving the finger prints on the parts
4. Do not loose your hand until the adhesive dry, to make sure that all the parts are adhered perfectly

STEP 4

Install steering damper on rolling control arm (3 dampers needed)



Prepare the parts



Install the damper as seen



Using M2X4 screws to screw the damper
(Too tight may break the parts)



Using M2X4 screws to screw the damper
(Too tight may break the parts)



1. Using moderate force, too tight may break the parts;
2. Pay attention to the installation direction of the damper as seen above;
3. Do not apply too much force when rotate or press the damper output shaft rough, it may break the parts
4. Do not drip the adhesive into the damper output shaft, it may break the parts

STEP 5

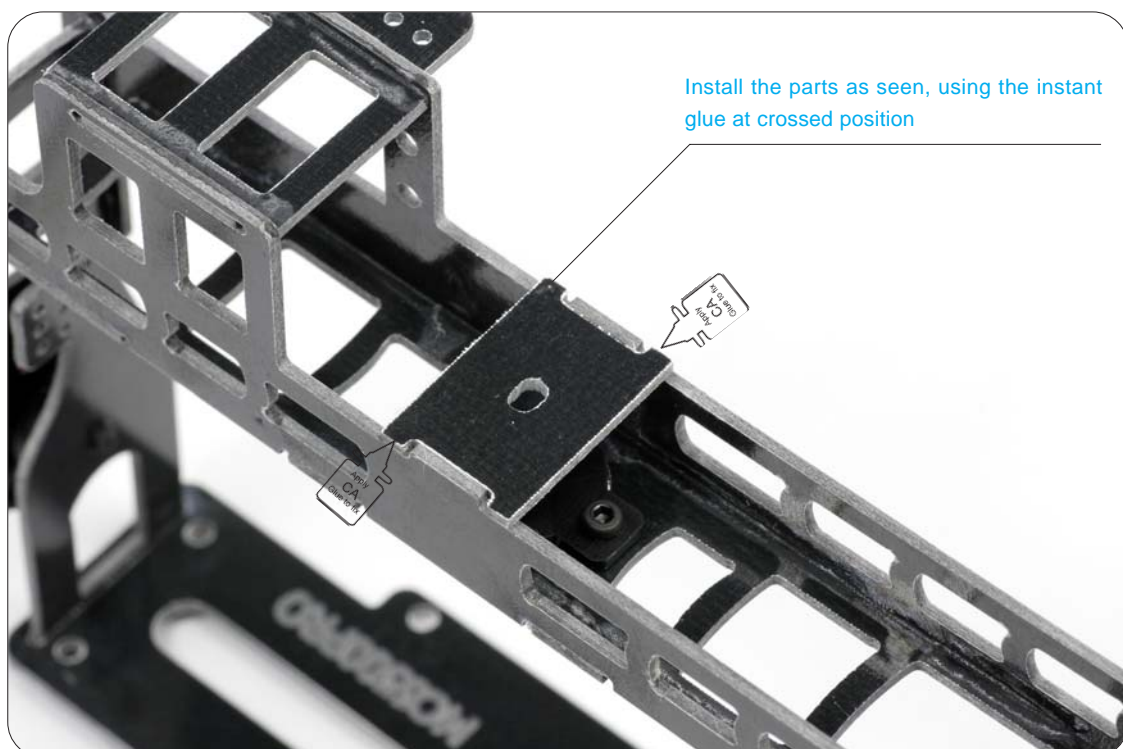
Install the camera fixed platform to the rolling control arms

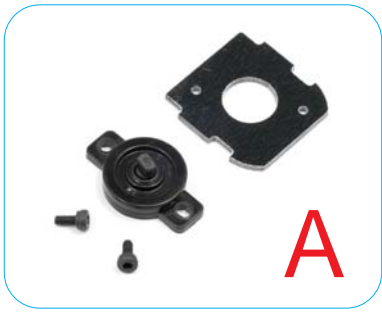


1. Do not apply too much force when rotate or press the damper output shaft rough, it may break the parts
2. Do not drip the adhesive into the damper output shaft, it may break the parts
3. Using proper adhesive if there is any loose at damper joints, but the adhesive could not dip into damper output shaft
4. If you find it is difficult to install the parts due to the hole on, you can enlarge it suitably

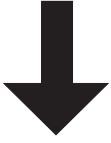
STEP 6

Connect the rolling actuating arm with the rolling control arm

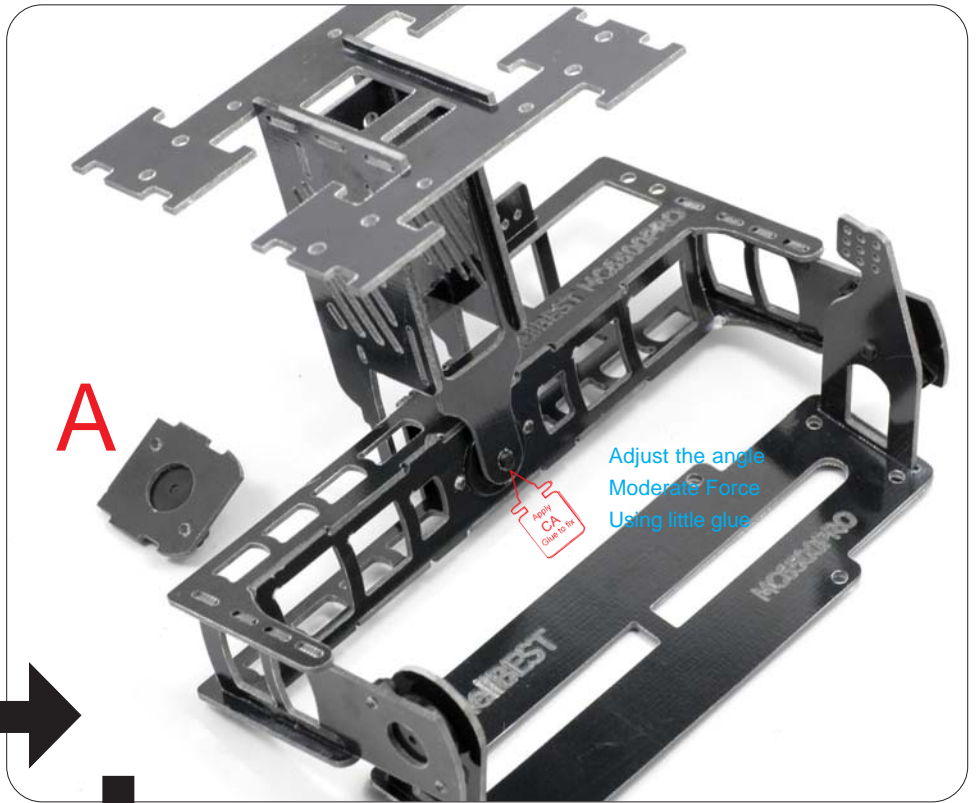




Prepare the parts



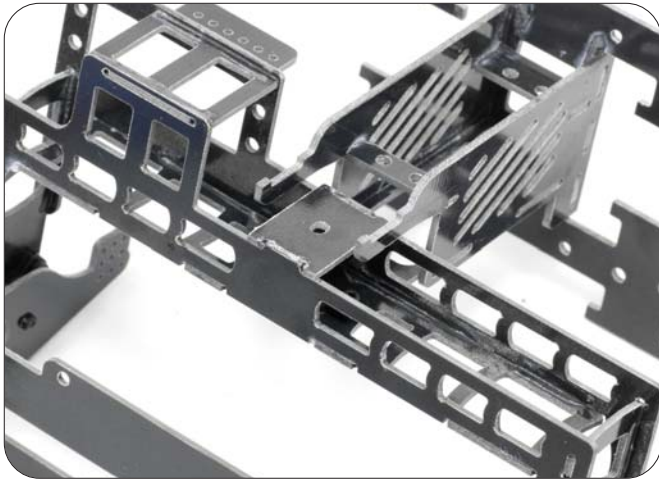
Prepare the parts



A

Adjust the angle
Moderate Force
Using little glue

Apply CA
Glue to fit



The component "A" installed position as shown above, and fixed with instant glue



1. Do not apply too much force when rotate or press the damper output shaft rough, it may break the parts
2. Do not drip the adhesive into the damper output shaft, it may break the parts
3. Check the parts to see whether they could run smoothly after the assembly



A



STEP 7

Install the DSC2600Digi digital servo for camera gimbal



MC6500PRO comes with 2 ultra-precision digital servos DCS2600Digi, which is for camera mount use only. The control program applied in this servo is optimized for the use of the camera mount, so the servo runs smoothly when working and reflects accurately. The moment of force of DSC2600Digi is 3.0kg/cm; the speed could reach 0.06s/60. In the meantime, it uses quick reaction coreless motor. This performance of this specialized camera mount digital servo is superior to other common tail servo in the market. The special design meets the requirements for the performance of the camera mount.



1. Before installation, please take the servo horns off (as seen on the left)
2. Fix the servo by 2 nylon screw
3. Power on and confirm the angle, then install the servo horn of the servos



Using 2 nylon screws to fix the servo
Install the servo as the picture above
this is the installation method of pitch control servo



Screw with nylon screws in the back



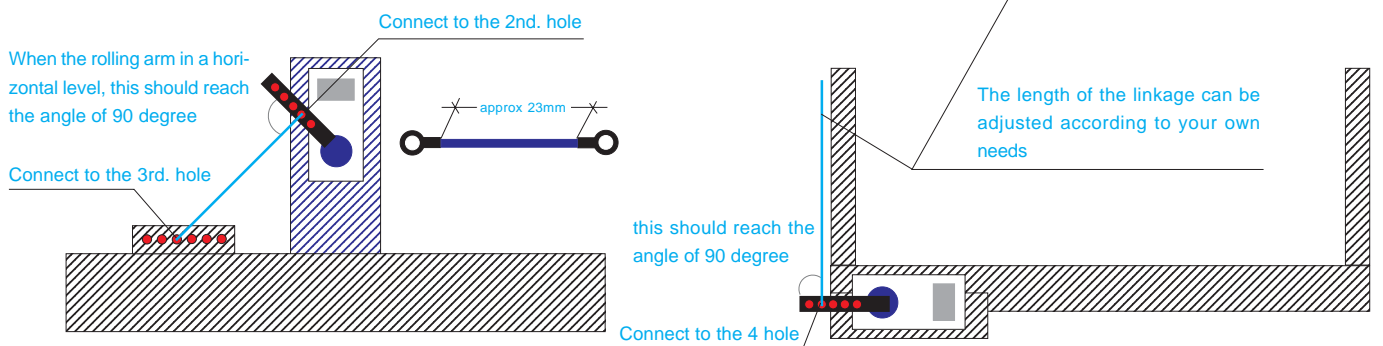
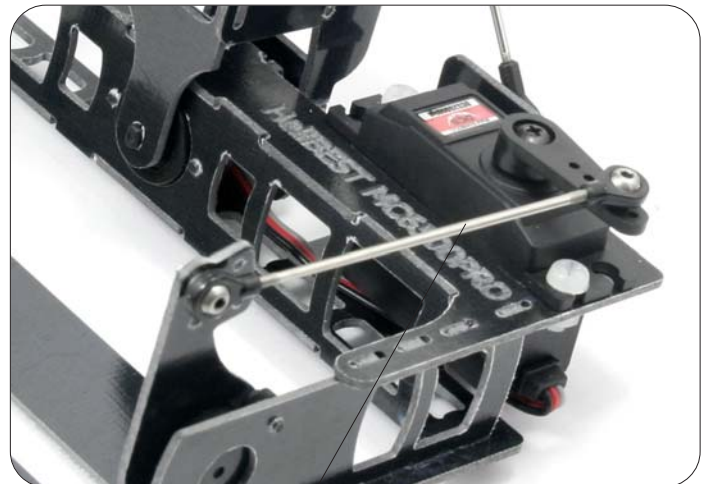
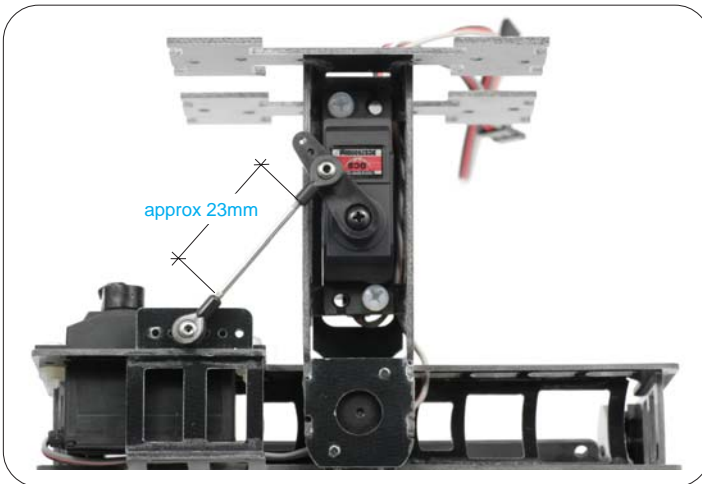
Pay attention to the trend of the servo wire (the trend of the servo wire in above picture is recommended)



This is the installation of roll servo
(Pay attention to the direction of the servo output shaft)

STEP 8

Install the control linkages



Install the MC6500PRO on XAircraft X650 Value

