Scorpion Sky Strider 280 Assembly Manual

Thank you for purchasing Scorpion Sky Strider 280 FPV racing frame.
Please, prepare the following tools and materials before assembly.

3mm phillips

1.5mm hex

2mm hex

Thread locker

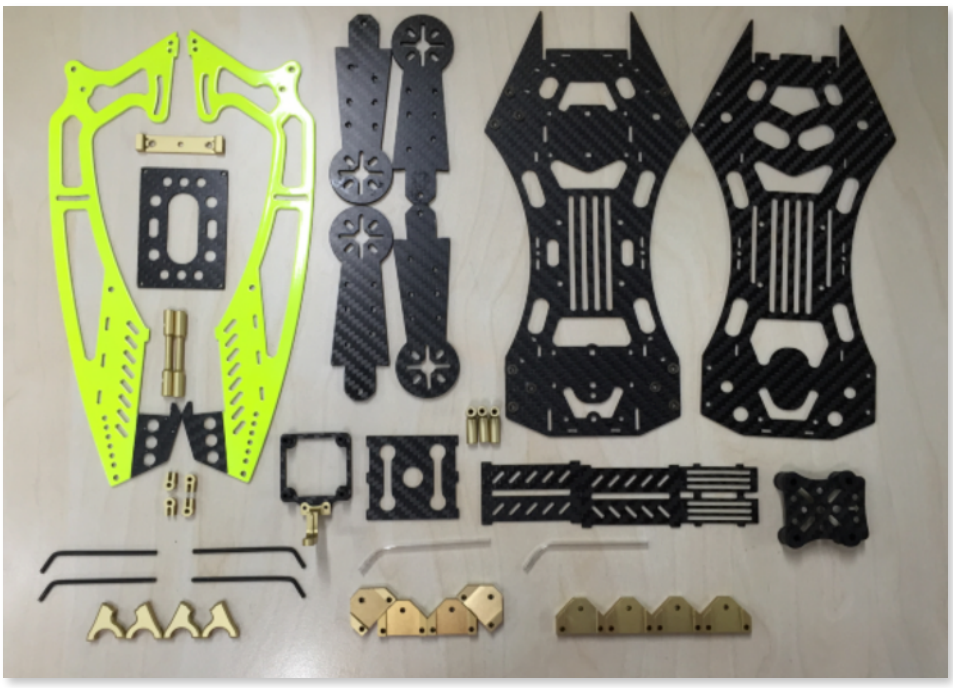
Parts

UPPER FRAME * 2 ALUMINIUM CROSS MEMBER * 2
LOWER DECK * 1 UPPER DECK * 1
FRONT FRAME MOUNT * 1 TRANSMITTER BOARD * 1
FIXING PLATE BRACKET * 4 LENS FIXING BOARD * 1
LENS UPPER BOARD * 1 LENS LOWER BOARD * 1
DECK CROSS MEMBER * 6 SIDE STRAIGHTENER * 4
FRONT/REAR STRAIGHTENER * 2 UNDERCARRIAGE * 4
MOTOR ARM * 4 LANDING GEAR *4 SUSPENSION BALL * 4
UPPER ANGLED ARM CLAMP * 4 MOTOR GUARD * 4
LOWER ANGLED ARM CLAMP * 4 ANTENNA TUBE * 2

Screws

M3 *4 set screw x4
M2 * 4 round Phillips' x 8
M2.5 *6 hexagonal round head x26
M2.5 *6 hexagon head x2
M2.5 *12 hexagon head x4
M2.5 *14 hexagon head x8
M3 *6 flat head x2

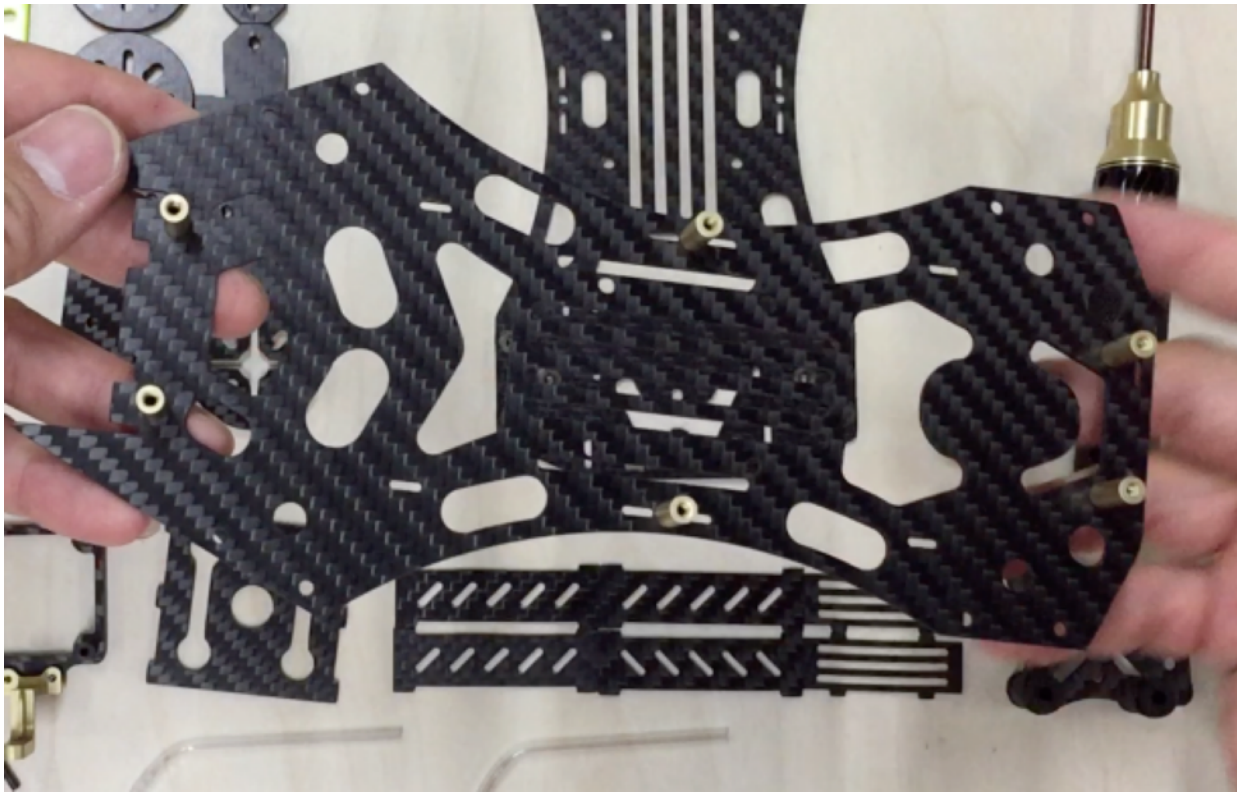
x4



There are two carbon fibre decks (upper and lower deck) inside the box. The upper deck is the one pre-assembled with nuts.

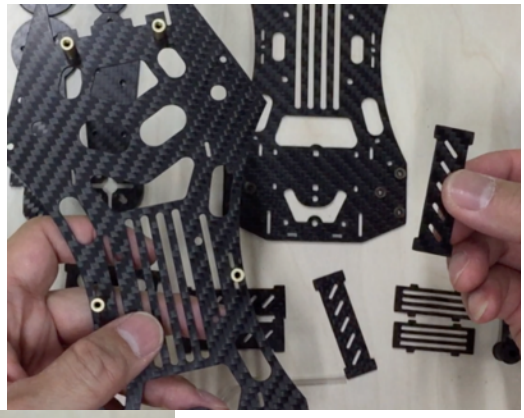
Assemble the deck crossing member on the lower deck board with M2.5 *6 round screw at the appropriate position.

As shown below:



Insert the side straightener on both sideways and insert the front straightener at the front and rear straightener at the rear.

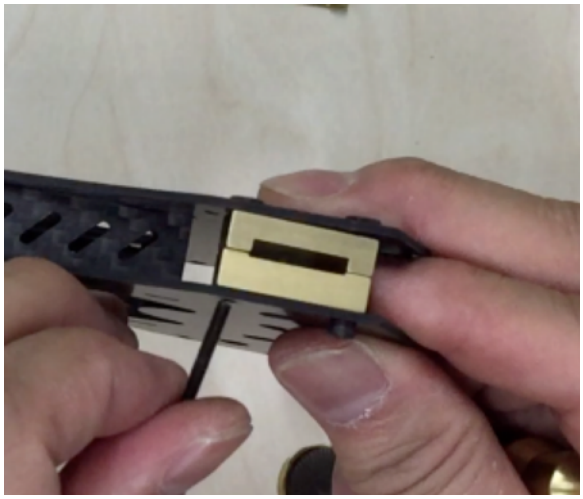
Position the upper deck properly and tighten with M2.5 hexagon round screw. After placing the upper plate, tighten screws across other parts.



Leave the two front screw slots empty after which you mount the aluminium alloy parts.

This section shows how to assemble the angled arm clamp. The picture below shows the two modules of the angled arm clamp, which are upper and lower.

Position the upper and lower modules in between the decks using M2.5 *14 hexagon head to go through the frame and the clamp but do not tighten at this stage.



Slot in the 3mm carbon motor arm into the clamp (front motor arm).

Use M2.5 *12 hexagon screw fix through the motor arm and tighten the screws along with the additional two M2.5 *14 screws.

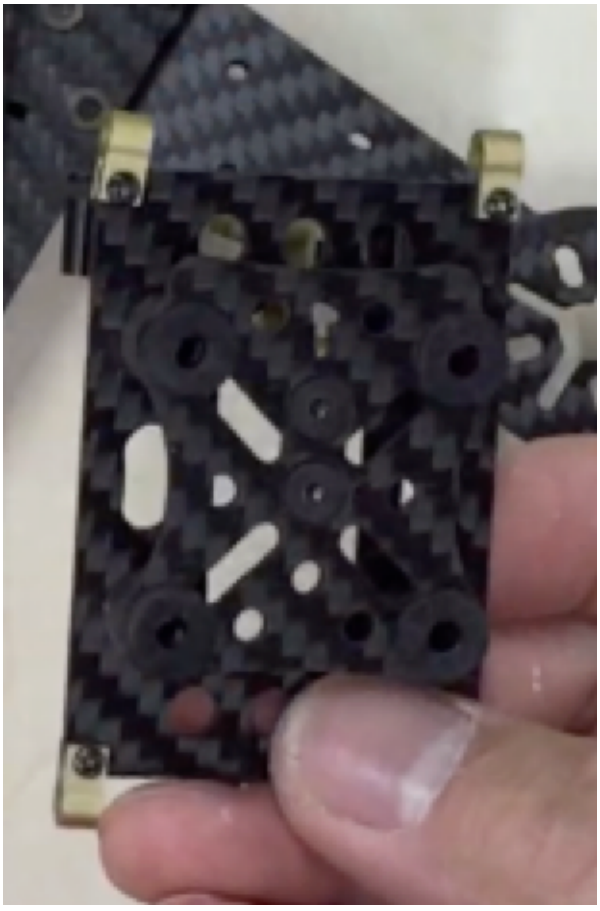
When installing the rear arm, please note that the direction of the holes near the frame is for undercarriage.
The two holes should be parallel with the frame.

The direction of the holes should be as shown in the picture.

This section shows how to assemble the camera damping system. Insert the damper in between the lens upper and lower board.
Use M2 *4 Phillips' head to fix the camera mounted on the L type arm.

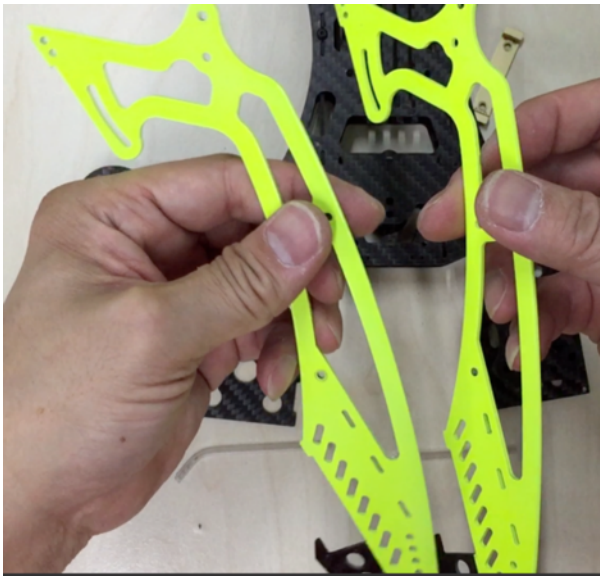
Then attach the other side to the damping plate(lens upper board) with the aid of M3 *6 flat head screws.

Put on the fixing plate bracket. Please, take note of the direction of the thread side.



With above instruction in place, you are done with the dampener.

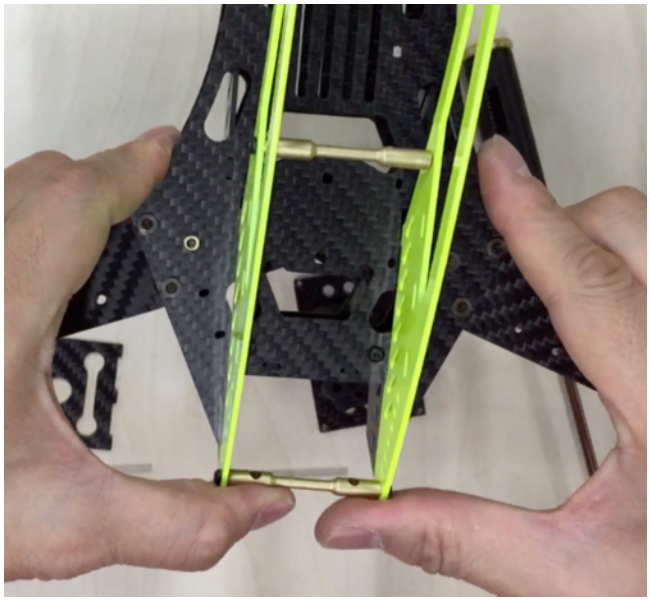
To assemble the upper frame, use M2.5 *6 hexagon round heads to cross between member frames. The member frame with holes is for the antenna tube and should be placed at the rear.



Use M2 * 4 round Phillips' screw, fixed to the frame, to mount between two frames.

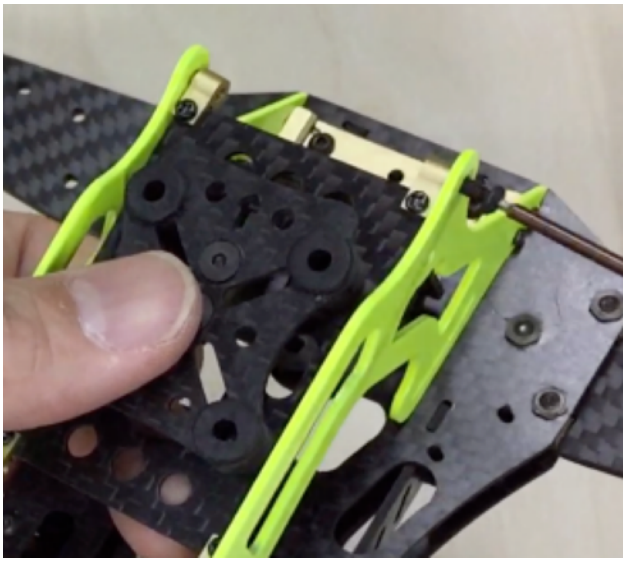
Slot the upper frame into the rear channel on the upper deck.

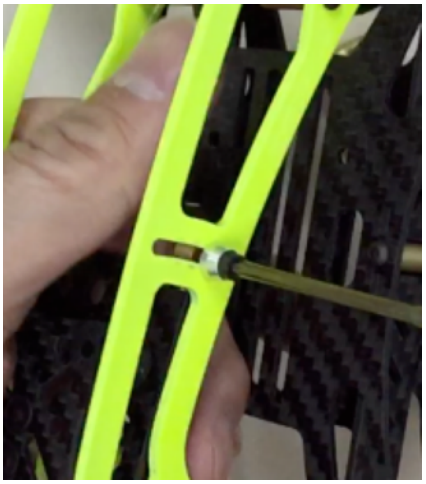
Use M2.5 *6 hexagon round screw to tighten the frame mounted on the deck.



To assemble the camera damping system on the upper frame.

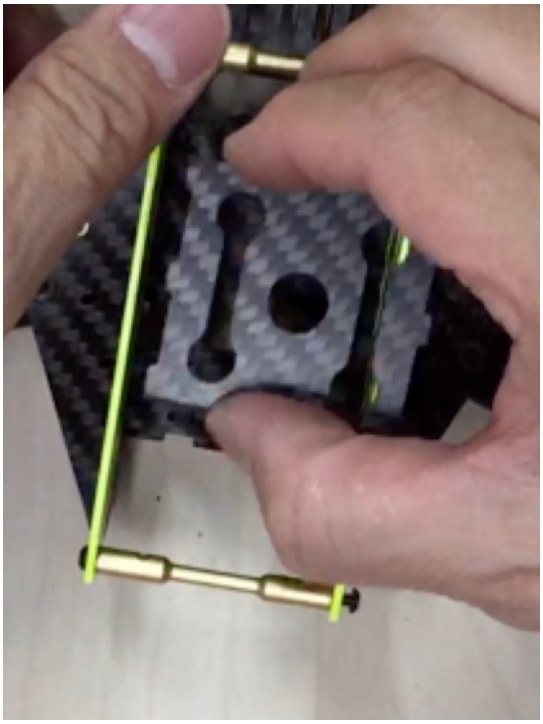
Use M2.5 *6 round hexagon screw in the front but do not tighten. Then, use the M2.5 *6 hexagon screw with cup washer screw in the adjustable track, now you can tighten the front screw when it is in the position as required.

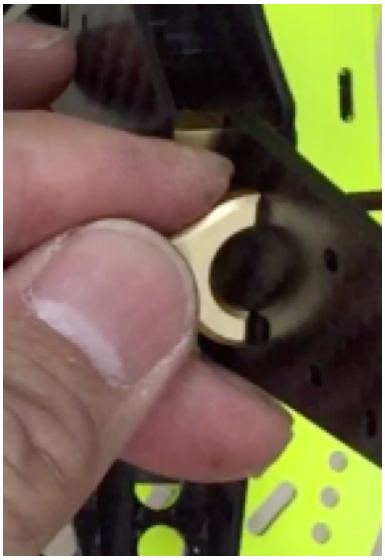




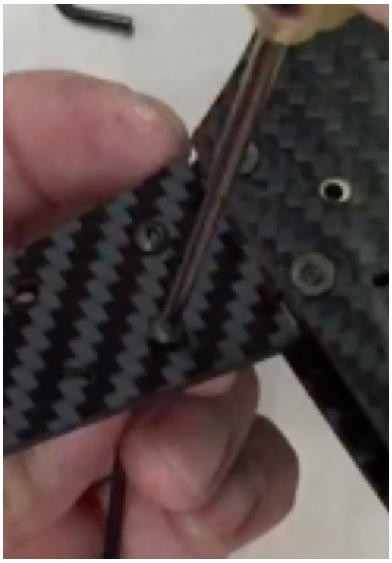
Mount the transmitter board between both sides of the upper frame.

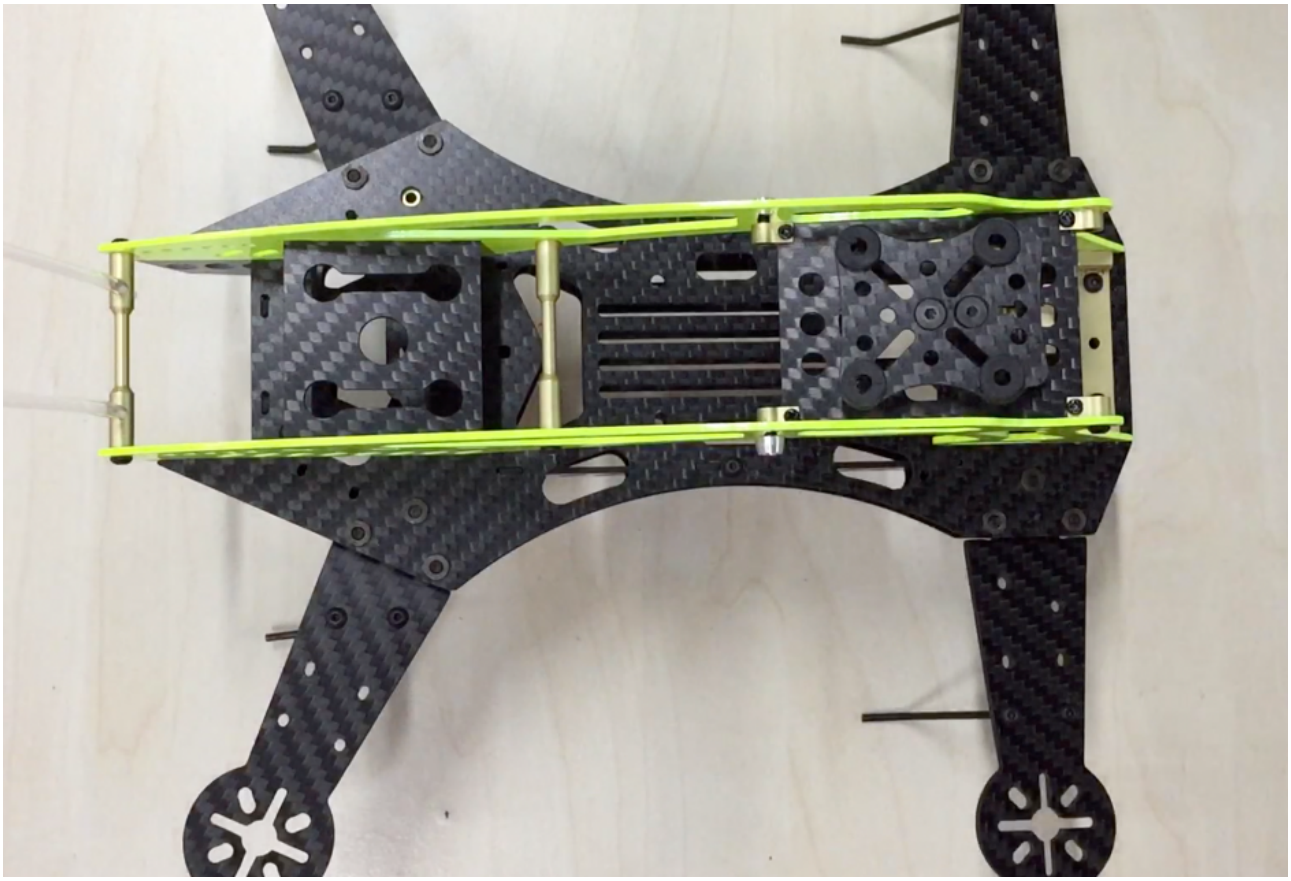
Use M3 *6 set screw to lock the landing gear on the undercarriage.

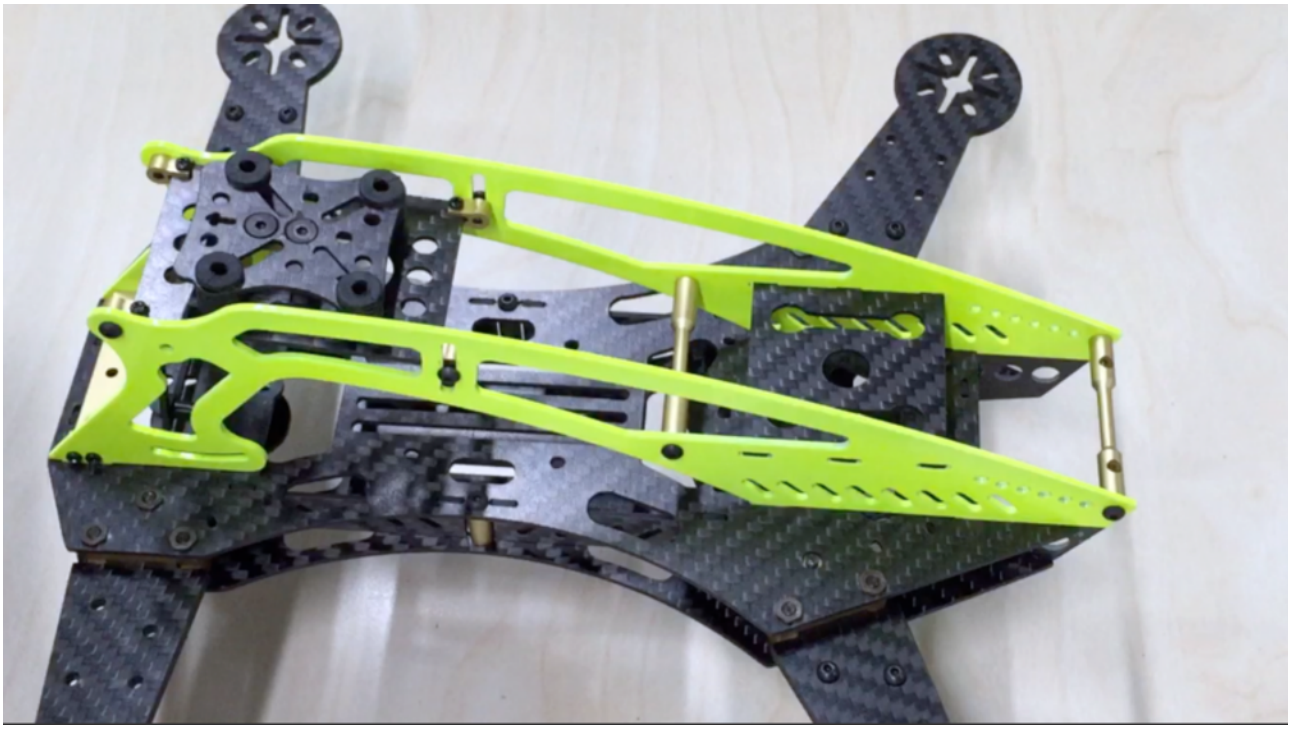




Use M2.5 *6 to assemble the undercarriage under the motor arm. Then, heat up the antenna tube a little bit and bend it, after which you insert it into the rear cross member.







COMPLETE PICTURES

Thank you