

# 840H

## HEXA FLYER



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Thank you for purchasing MRT Multi-Rotor from Tai Shih Hobby Corporation (TSH). We hope you will enjoy the joy of flight.

In order to understand full assembly sequences, this instruction manual show the assembly information of this model, even though some elements might be supplied as pre-assembled. Please refer to manual whenever carrying out maintenance or replacing parts.

感謝您購買泰世科技出品的 MRT 多旋翼飛行器，我們希望您可以盡情享受飛行的樂趣。為了要讓使用者詳細瞭解組裝順序，即使有些部件已經預先組裝完成，本說明書將提供這台遙控模型的組裝資訊。同時，敬請參閱保養與主要零件更換資訊。

CAUTION: This radio controlled Multi-Rotor is not a toy.

警告：這台遙控多旋翼飛行器不是玩具。

### SAFETY PRECAUTIONS

This kit includes some pre-assembled components. Please check for any loose screws and tighten them before you proceed with assembly.

You are responsible for assembly, safe operation, maintenance, inspection and adjustment of the model.

Before beginning assembly, please read these instructions thoroughly.

Check all parts. If you find any defective or missing parts, contact your local dealer or MRT distributor.

Before you proceed to Multi-Rotor activity, please check and follow thoroughly related regulation of aero modeling in your country/region.

### 安全資訊與注意事項

這台遙控模型包含預先組合完成的部件。

在進行組裝之前，請仔細檢查這些預先組裝部件上的所有螺絲均有仔細鎖緊。

您有完全的責任對於這台遙控模型的組裝，安全操作，保養，檢查與調整。

請先檢查所有的零件，如果發現任何不良品，遺失品，請向購買的模型店或是當地的泰世代理商連絡。在您進行遙控多旋翼活動時，請先詳細瞭解與遵守當地遙控模型的相關法規。

### Disclaimer

This product is for a radio controlled (RC) Multi-Rotor.

Improper operation, maintenance or assembly can potentially cause a RC Multi-Rotor to pose a danger to persons or objects including but not limited to the possibility of causing serious physical injury and even death.

Moving components can present a hazard to operators, and anyone or anything that could be in the flying area of the RC Multi-Rotor.

Under no circumstance should a minor be allowed to operate this RC Multi-Rotor without the approval, monitor and direction of his parent or legal guardian who takes full responsibility for all of the minor's actions.

This product is intended for being operated by experienced mature RC Multi-Rotor pilots under controlled safety conditions and on locations properly authorized and setup for safe flying and away from other people.

Do not operate an RC Multi-Rotor within the vicinity of residences, trees, electrical power lines during inclement weather or near crowds of people.

The manufacturer and/or its distributors assume no responsibility or liability whatsoever for any damages including but not limited to ones generated by incidental or consequential damages.

The operator of the Multi-Rotor assumes all responsibility and liability that result from the correct or incorrect operation of the Multi-Rotor.

**免責聲明**

本產品是無線遙控的多旋翼飛行器。

不當的操作，保養或是組裝有可能導致遙控多旋翼飛行器對於人身或是物品造成危險。

包括，但是不局限於對於人體產生嚴重傷害甚至死亡的可能性。

所有的移動部件可能對於操作的使用者，旁人或是這台遙控多旋翼飛行場的任何人或物品產生傷害。

未成年的人如果要操作這台遙控多旋翼飛行器需要父母或是監護人的同意，並在監督與指導下才能進行操作並遠離周遭障礙物及人群等，其父母或是監護人需負起所有責任與法律責任。

以下場合與情況禁止操作遙控多旋翼飛行器：居家房屋附近、天候不佳時、非空曠區域、樹木、電線竿或是人群附近。

製造廠商與其經銷商都不對於所有的傷害，包含但是不局限於偶然或是連續發生的傷害負擔任何責任。

本產品的使用者要對於正確地或是不正確地操作的結果需負擔所有責任。

本產品一但離開製造廠商的控制範圍外，製造廠商無法對於下列事項保持監督與控管：組裝，保養，維修與操作這台遙控多旋翼飛行器。

The Academy of Model Aeronautics (AMA) is a national organization representing modelers in the United States.

Please refer to the National Model Aircraft safety code from AMA Member Manual for details: <http://www.modelaircraft.org/files/memmanual.pdf>

These special codes and appropriate documents may be obtained either from the AMA Web site at [www.modelaircraft.org](http://www.modelaircraft.org) or by contacting AMA.

Academy of Model Aeronautics  
5161 East Memorial Drive  
Muncie, IN 47302  
Tel.: (765) 287-1256  
Fax: (765) 289-4248

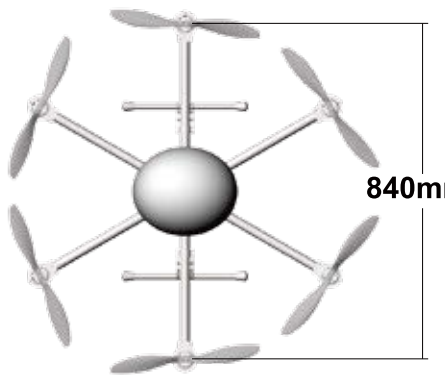
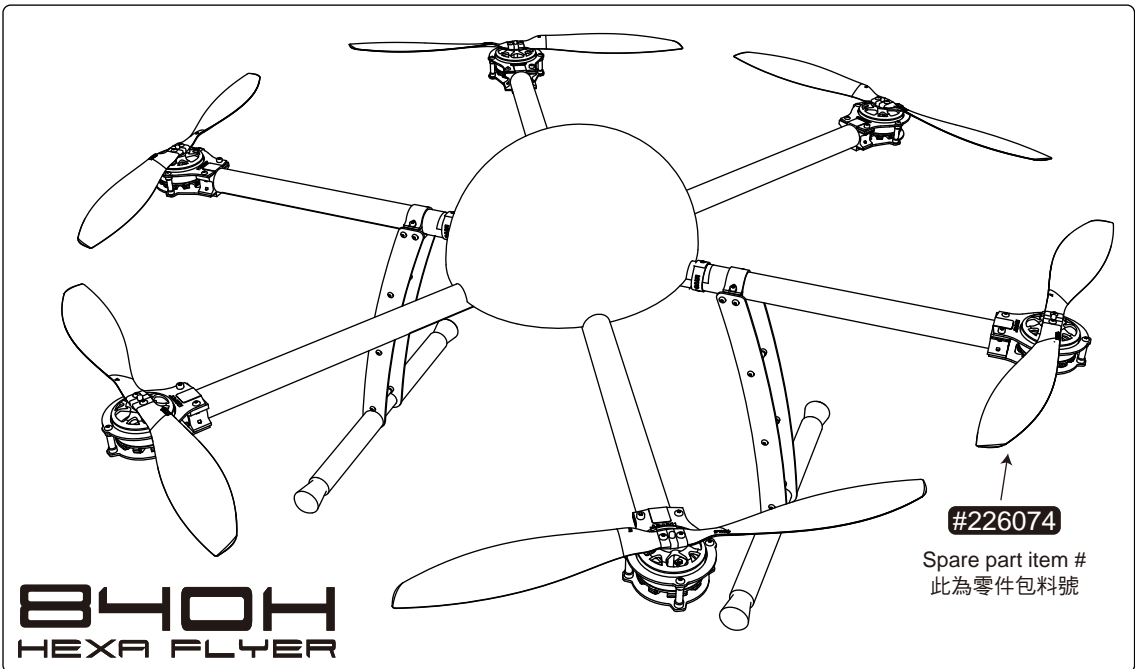
**Usage Cautions**

When flying, the fast rotating propellers of Multi-Rotor can cause serious damage and injury.

Therefore, please fly with a high safety consciousness, keep multi-rotor away from human beings, power lines, obstacles and properties etc....

1. Do not get close to or even touch the working motors and propellers, which can cause serious injury.
2. Check all propellers and motors are installed correctly and secured firmly before each flight.
3. Do not fly with old or broken parts. Check all parts of the multi-rotor are in good condition before each flight.
4. Make sure the rotation direction of each propeller is correct (CW or CCW).
5. Do not overload the multi-rotor.

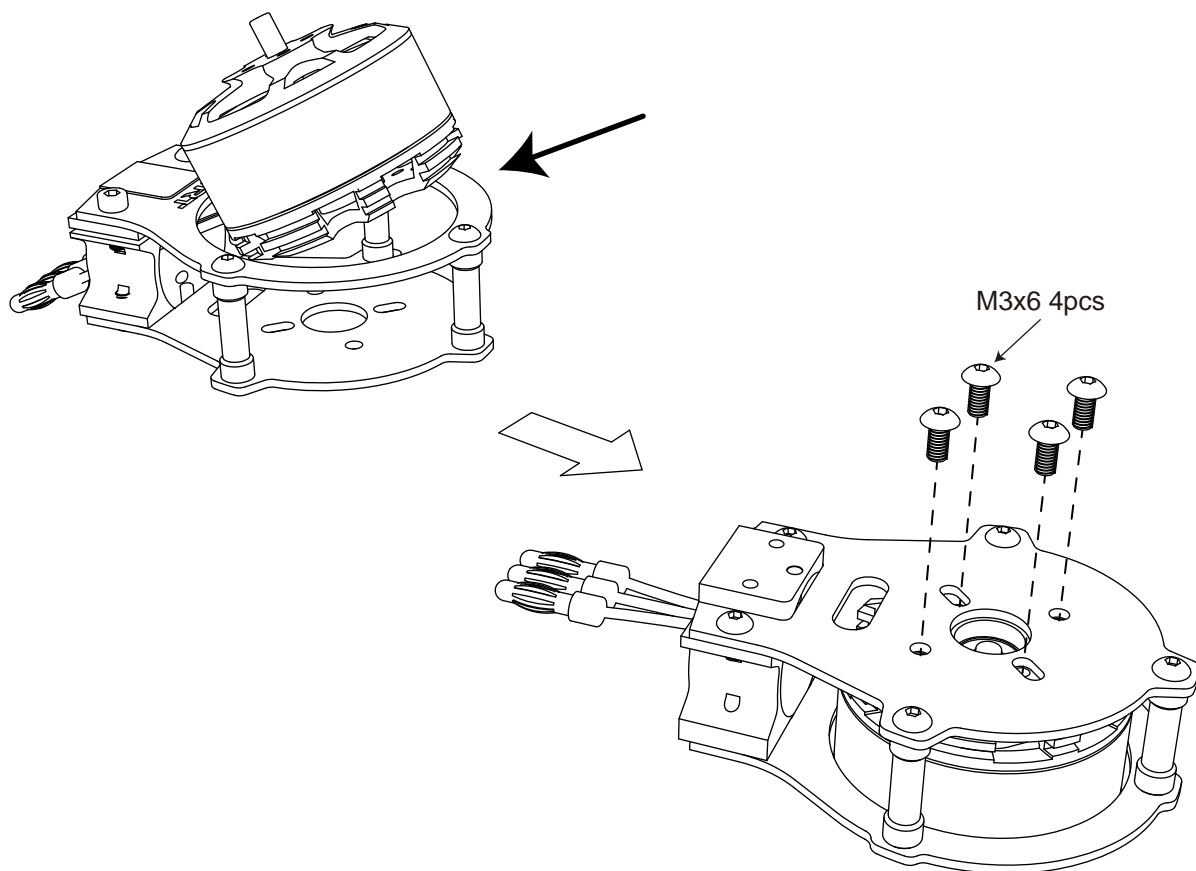
If you have any problem you cannot solve during installation, please contact your local distributor for timely customer service.



### SPECIFICATIONS

- \* **CROSSING DISTANCE: MOTOR SHAFT TO MOTOR SHAFT 840H (840mm)**
- \* **PROPELLER SIZE: 15 inch.**
- \* **MOTOR: 320kV BRUSHLESS MOTOR (OPTION).**
- \* **ESC: 30A ESC (OPTION).**
- \* **STABILIZER SYSTEM: GU-INS (OPTIONS, NOT INCLUDED IN THIS PACKAGE).**
- \* **WEIGHT: 2400g**  
(WITH RECOMMENDED STANDARD POWER PACKAGE, WITHOUT BATTERY).
- \* **MAXIMUM FLYING WEIGHT: 8000g**  
(DEPENDS ON POWER PACKAGE, INCLUDING BATTERY & PAYLOAD).
- \* **BATTERY: 22.2v (2S TO 6S LiPo).**
- \* **FLYING DURATION: 7~20 MINUTES**  
(DEPENDS ON BATTERY CAPACITY, PAYLOAD AND FLYING STYLE).

Put the motor inside the motor mount and secure with M3x6 screws.  
將馬達置入馬達艙後鎖緊M3x6螺絲。



Connect ESC cables to the motors.

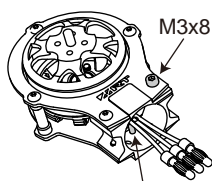
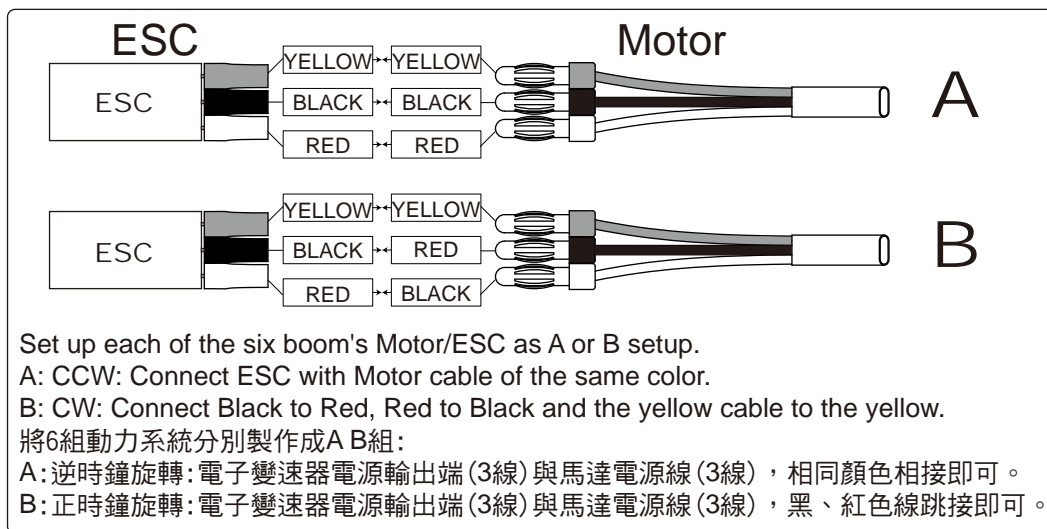
Notice the 6 sets of motors cable connections:

Motor A spins counter clock wise (CCW).

Motor B spins clockwise (CW).

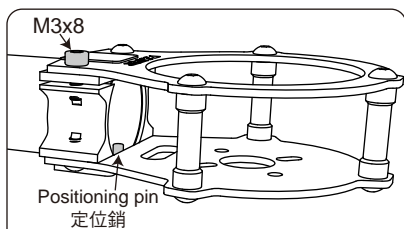
將電子變速器接至馬達。

(注意六組馬達接頭的顏色區別:A為逆時鐘旋轉，B為順時鐘旋轉)



Positioning pin  
定位銷

#226068  
331mm Boom  
(331mm)軸管



Attention: Make sure the U-shaped groove on the boom is fully inserted and locked in with the positioning pin.

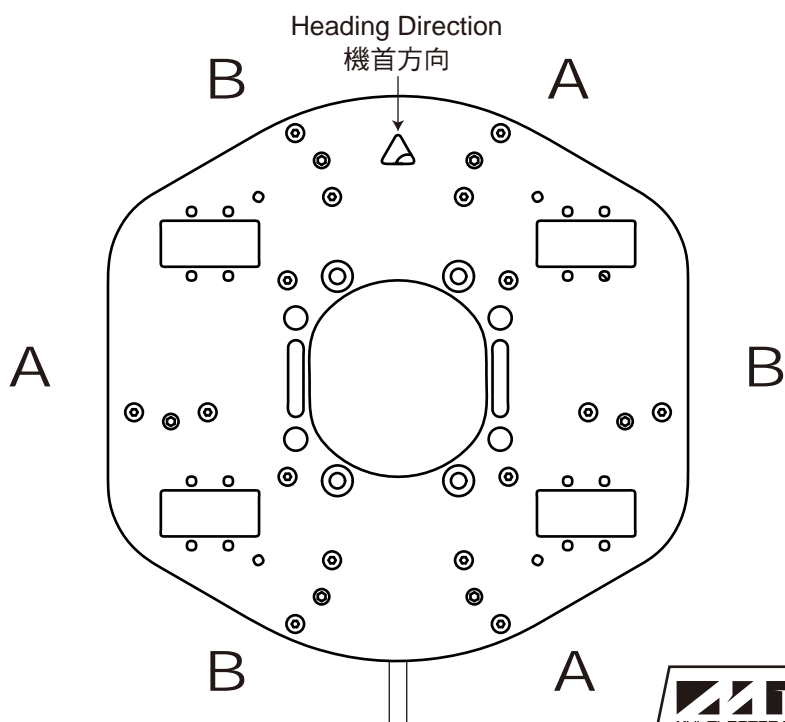
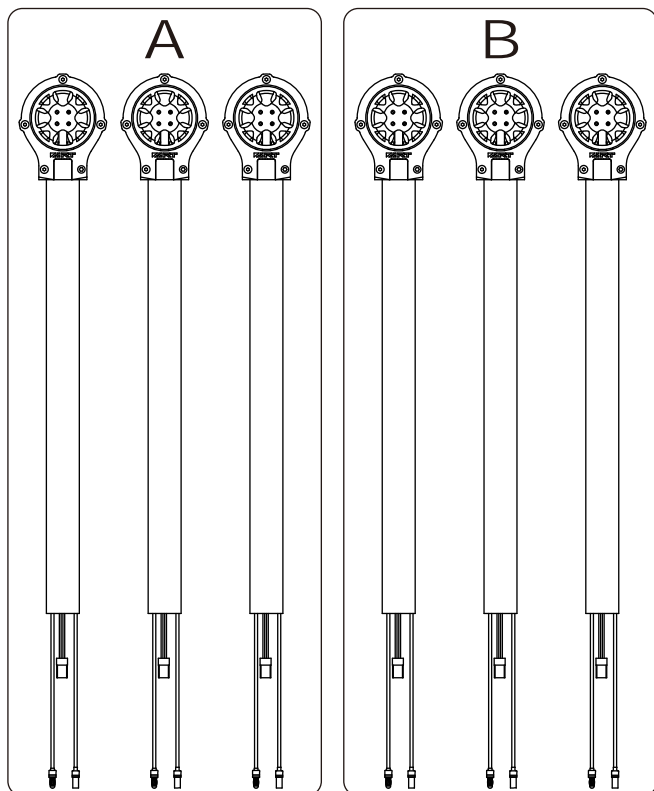
注意: 請確認軸管U形槽完全插入定位銷，再鎖緊M3x8螺絲。

Make sure to separate the A and B set motors/boom assembly.

Secure the the A set and B set motors onto the frame in position as indicated.

\*Incorrect installation will cause the Hexa flyer inability to fly.

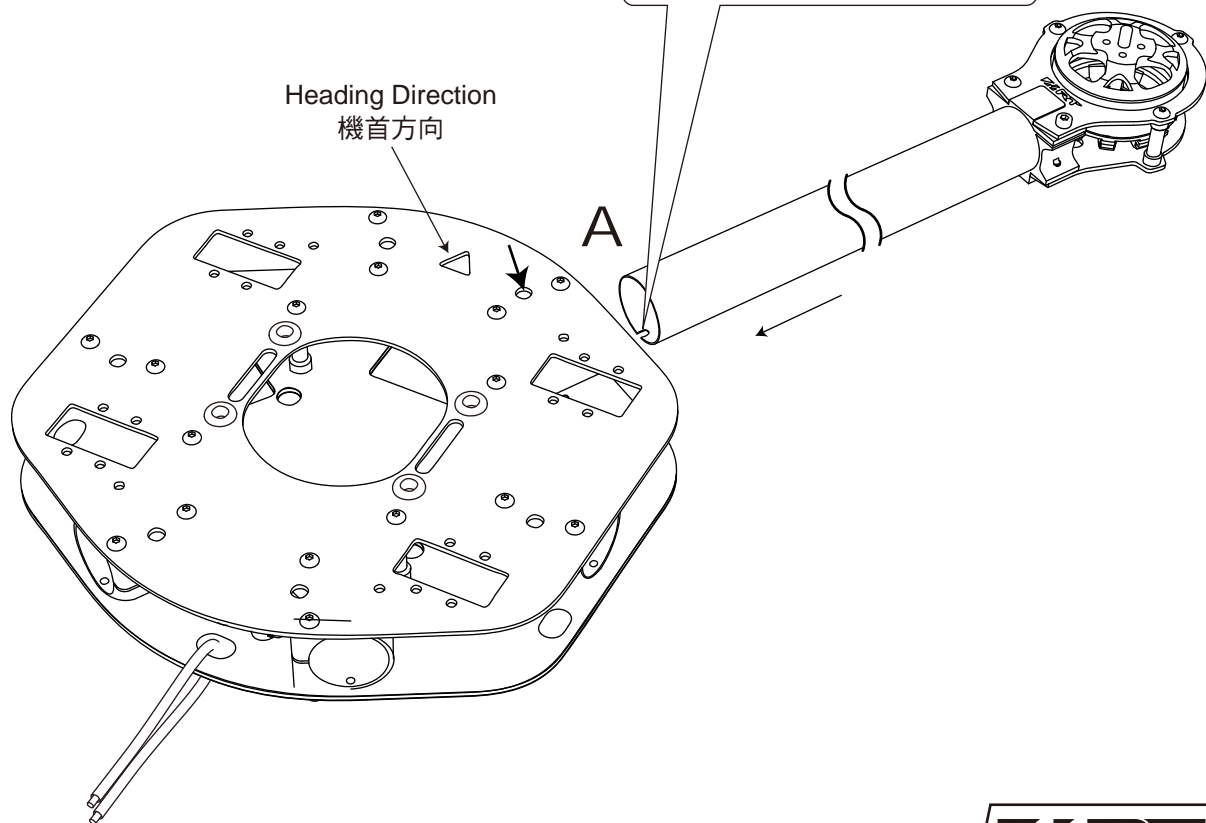
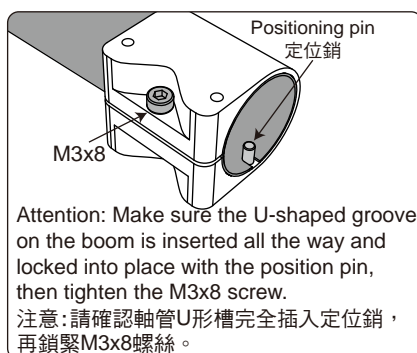
將組裝好的軸管，如下圖排列區分，待後續組裝過程插入對應的主體位置。



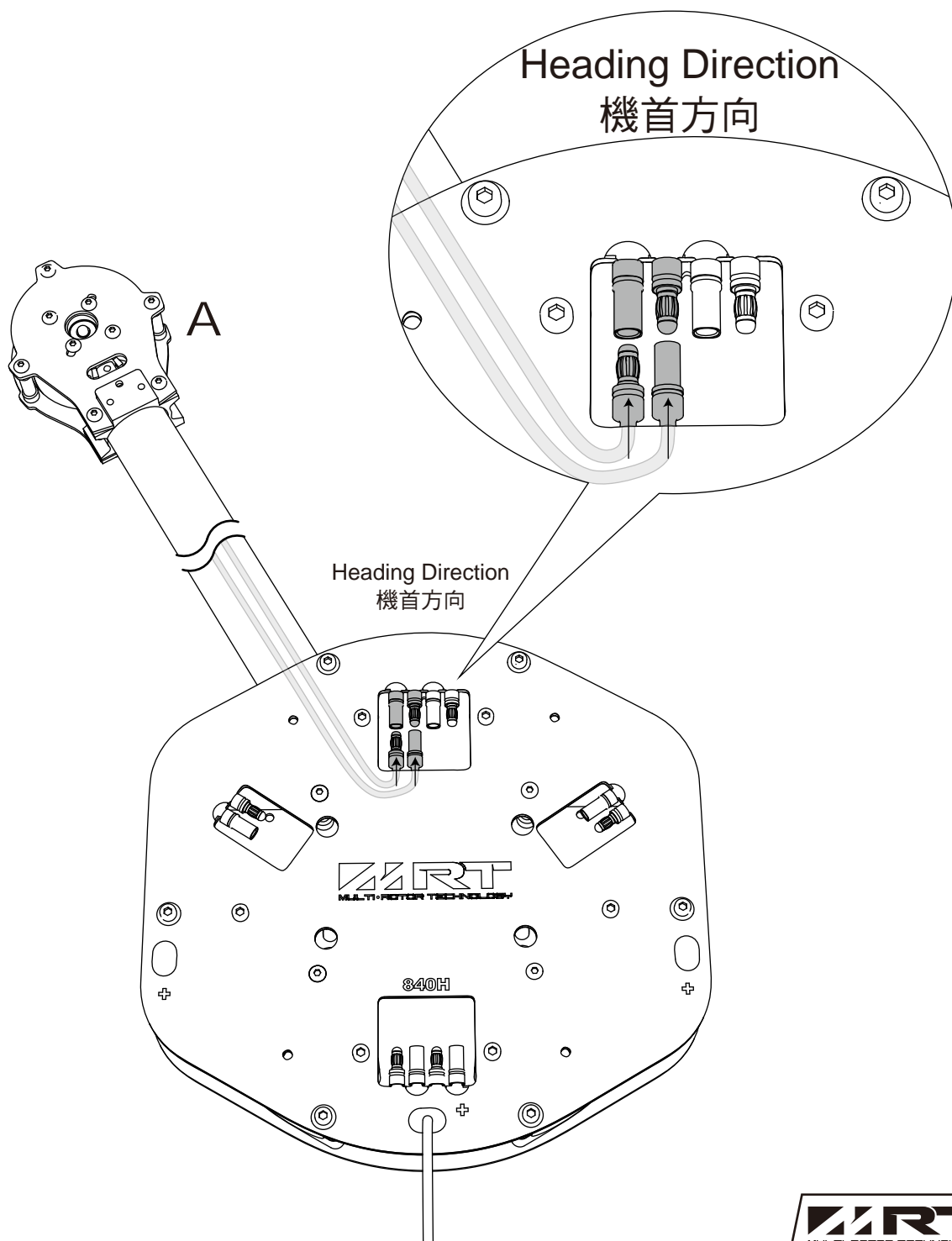


Install the Motor/ESC/Boom set assembly in the proper frame location until the position pin is locked into place with the U-shaped groove on the boom. Tighten the M3x8 screw.

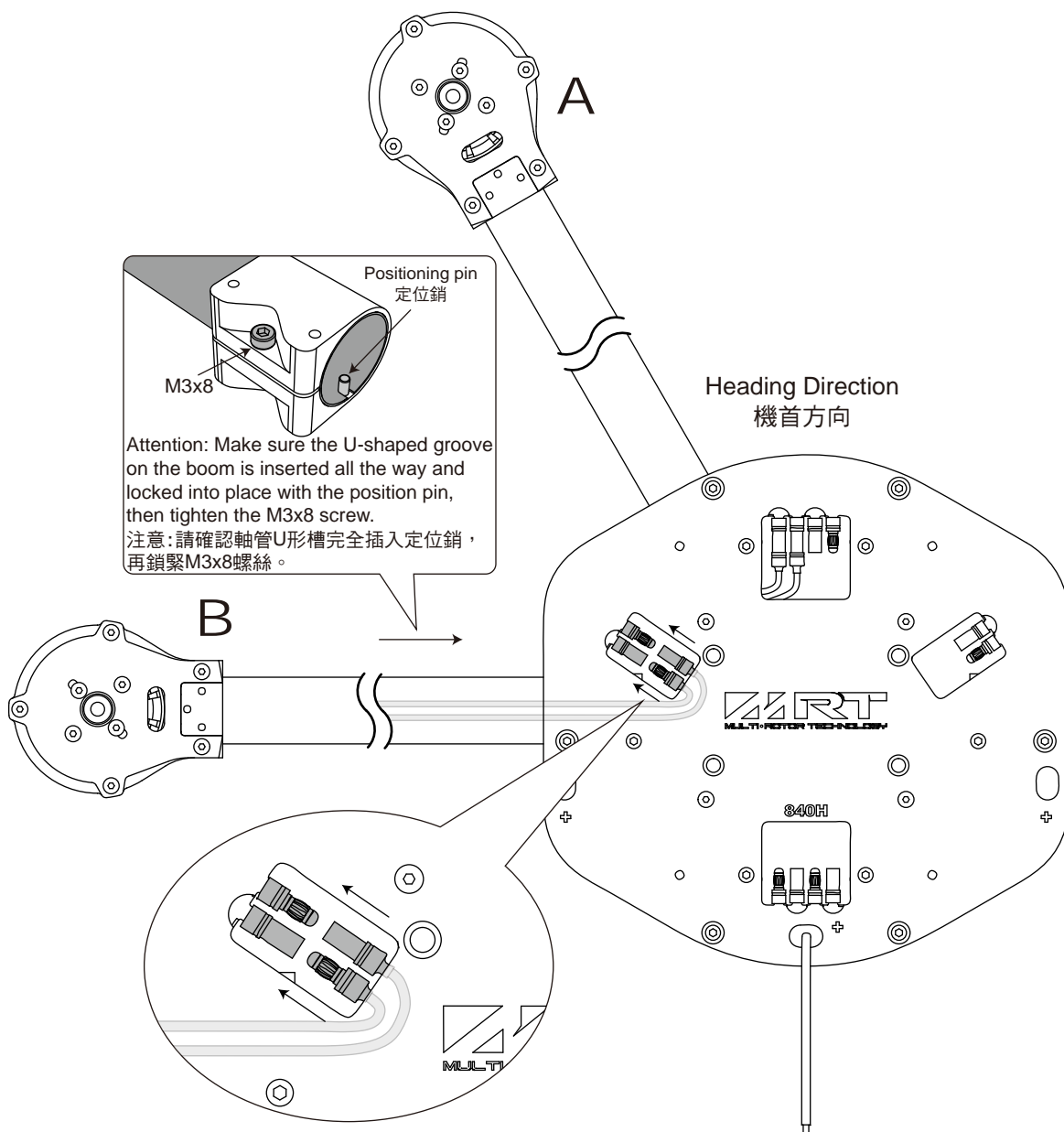
將組裝好的軸管，插入對應的主體位置至定位，再鎖緊箭頭指示方向的M3x8螺絲。



Connect the ESC cables to the connectors on the bottom circuit frame.  
將電子變速器電源端接於主體對應位置。

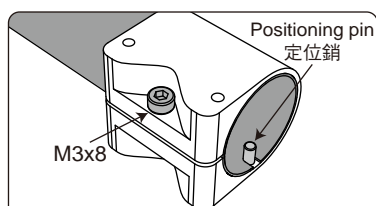


1. Install the motor/boom assembly on the proper place on the frame.
  2. Tighten M3x8 screws.
  3. Connect the ESC cable to the main circuit frame.
1. 將組裝好的軸管，插入對應的主體位置。
  2. 鎖緊M3x8螺絲。
  3. 接上電子變速器電源端於對應主體位置。



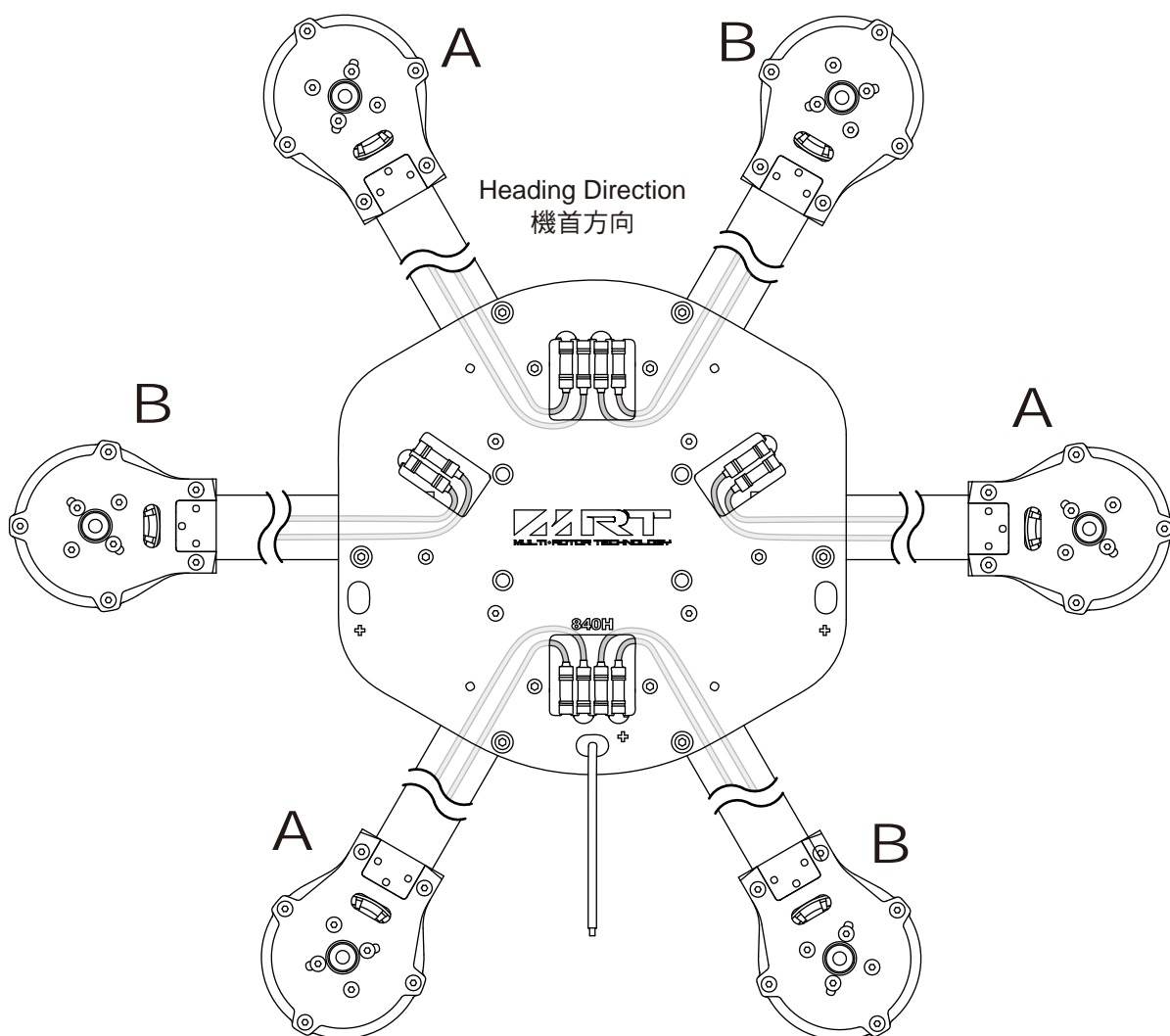
Drawing below indicates the 6 sets of ESC cable setup. Please refer to P4 to P6 installation to complete the other 4 sets of booms 's installation.

圖示為6組電子變速器安裝接線圖，請配合P4~P6的安裝將其餘4組組裝完成。



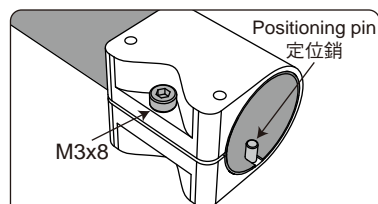
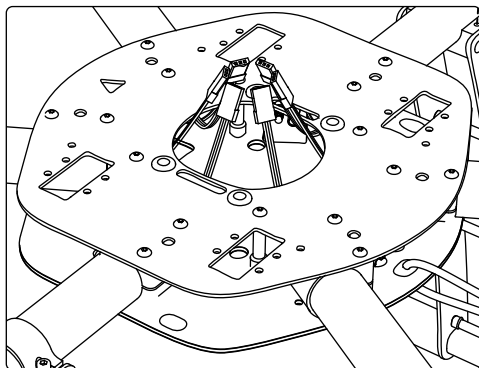
Attention: Make sure the U-shaped groove on the boom is inserted all the way and locked into place with the position pin, then tighten the M3x8 screw.

注意：請確認軸管U形槽完全插入定位銷，再鎖緊M3x8螺絲。



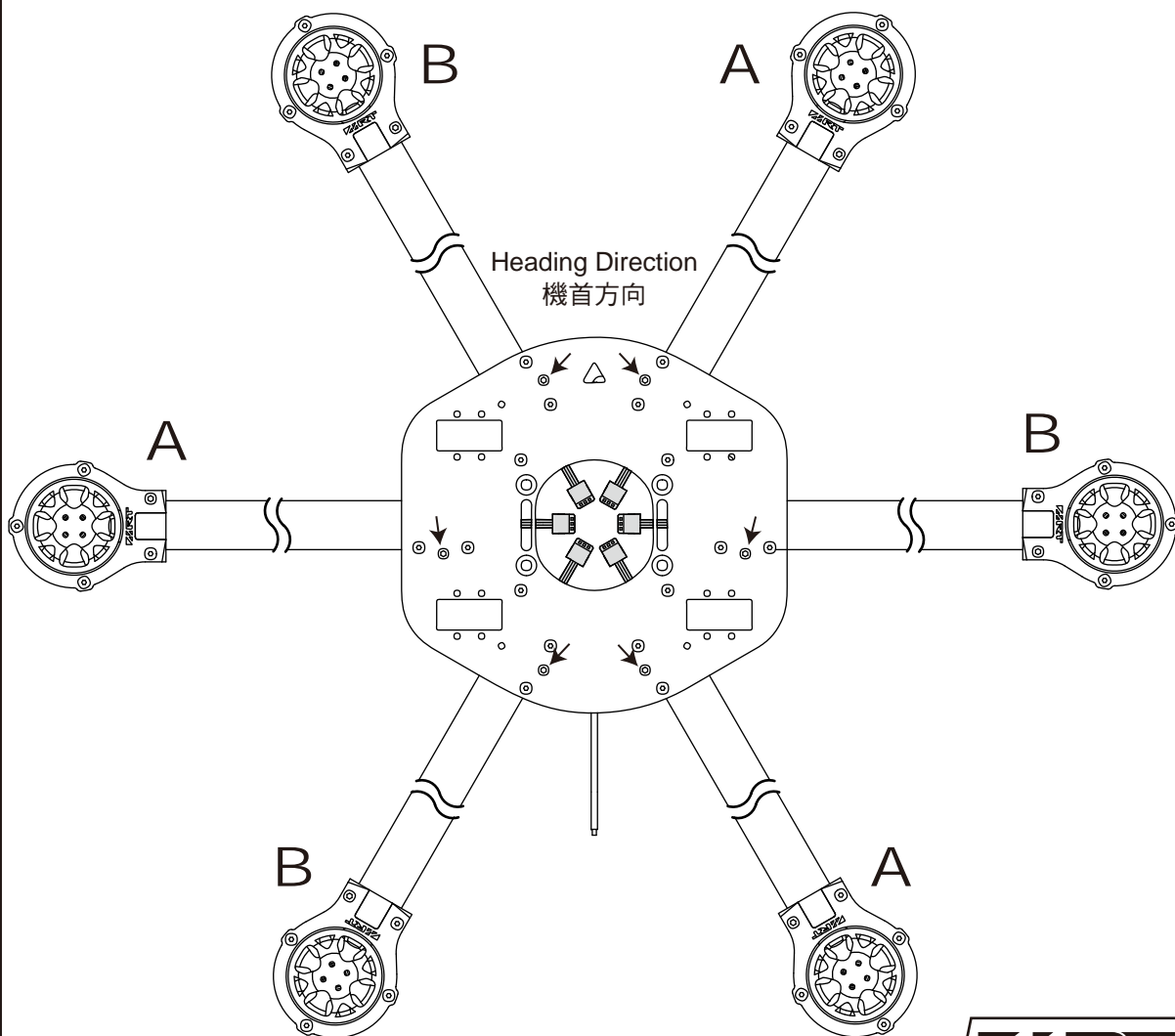
Please double check the indicated M3x8 screws are tightened. Pull up the ESC signal cable connections.

請再次確認箭頭指示方向M3x8螺絲是否鎖緊，並將訊號線依序拉出。



Attention: Make sure the U-shaped groove on the boom is inserted all the way and locked into place with the position pin, then tighten the M3x8 screw.

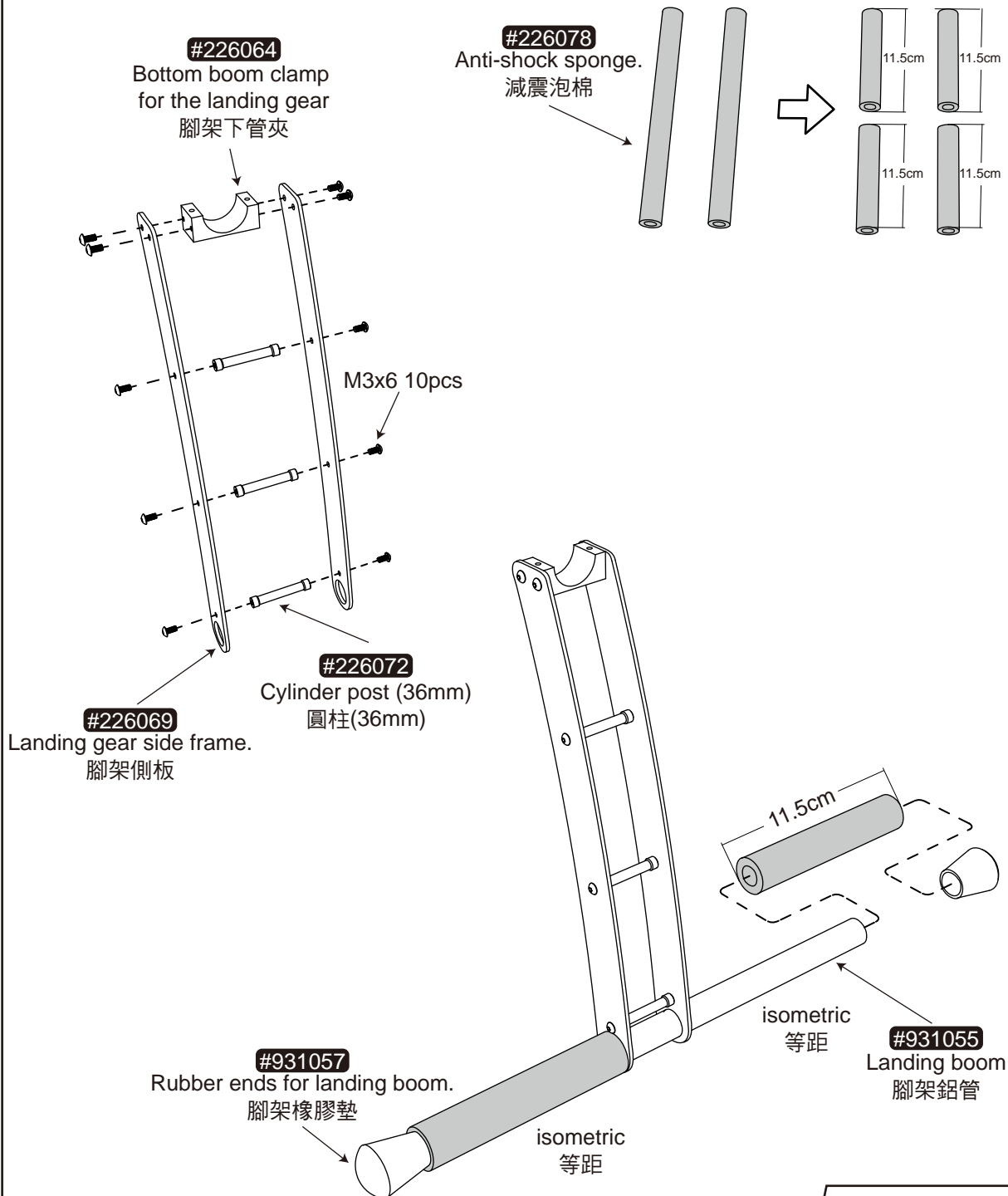
注意：請確認軸管U形槽完全插入定位銷，再鎖緊M3x8螺絲。



Insert the landing gear boom thru the landing gear, adjust so the front and back are equidistant. Cut the sponge tubes in about 11.5mm sections and insert them onto the front and back of landing boom.

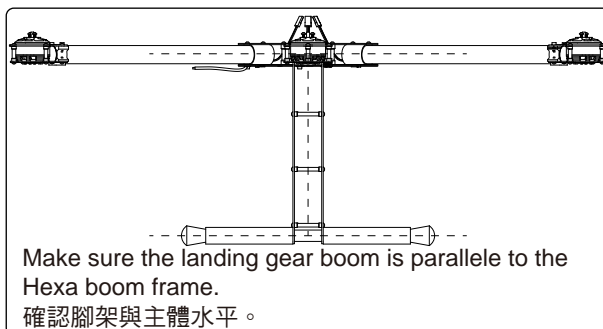
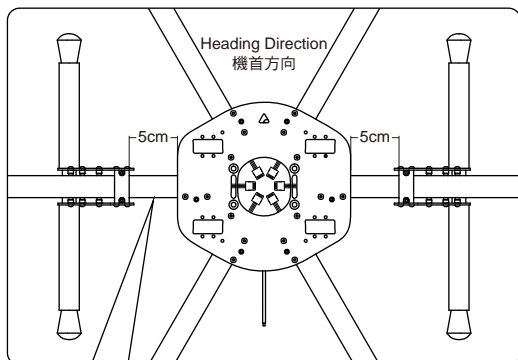
將腳架鋁管穿過腳架側板並調成等距。

取出零件包內的泡棉管兩支，分別裁切成約11.5cm後套入腳架鋁管。



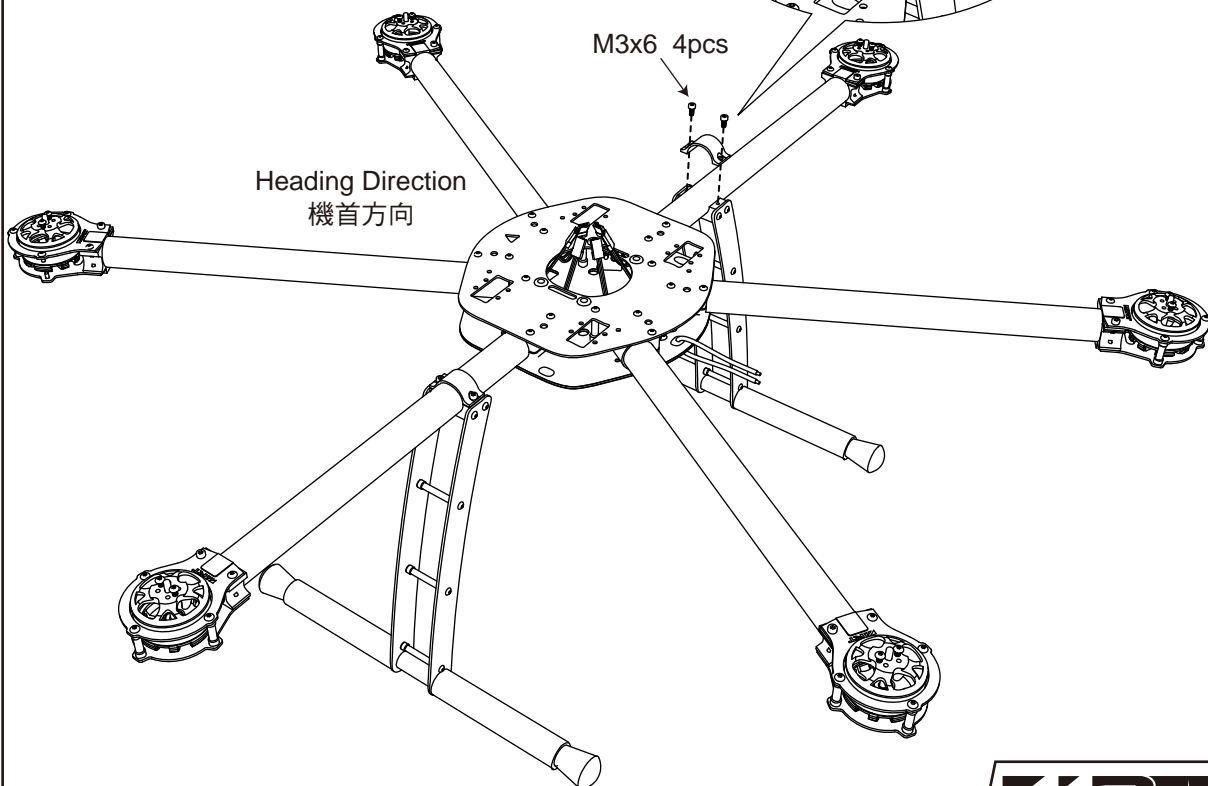
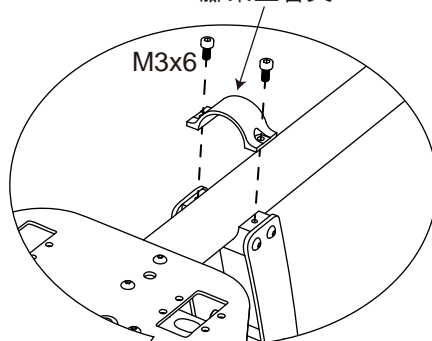
Secure the landing gear assembly on the the Hexa frame. Leave about 5cm distance between boom clamp and the frame body.

將腳架組裝於機身，並與機身保留約5cm距離後鎖緊M3x6螺絲。



#226064

Landing gear top clamp.  
腳架上管夾



Attention:

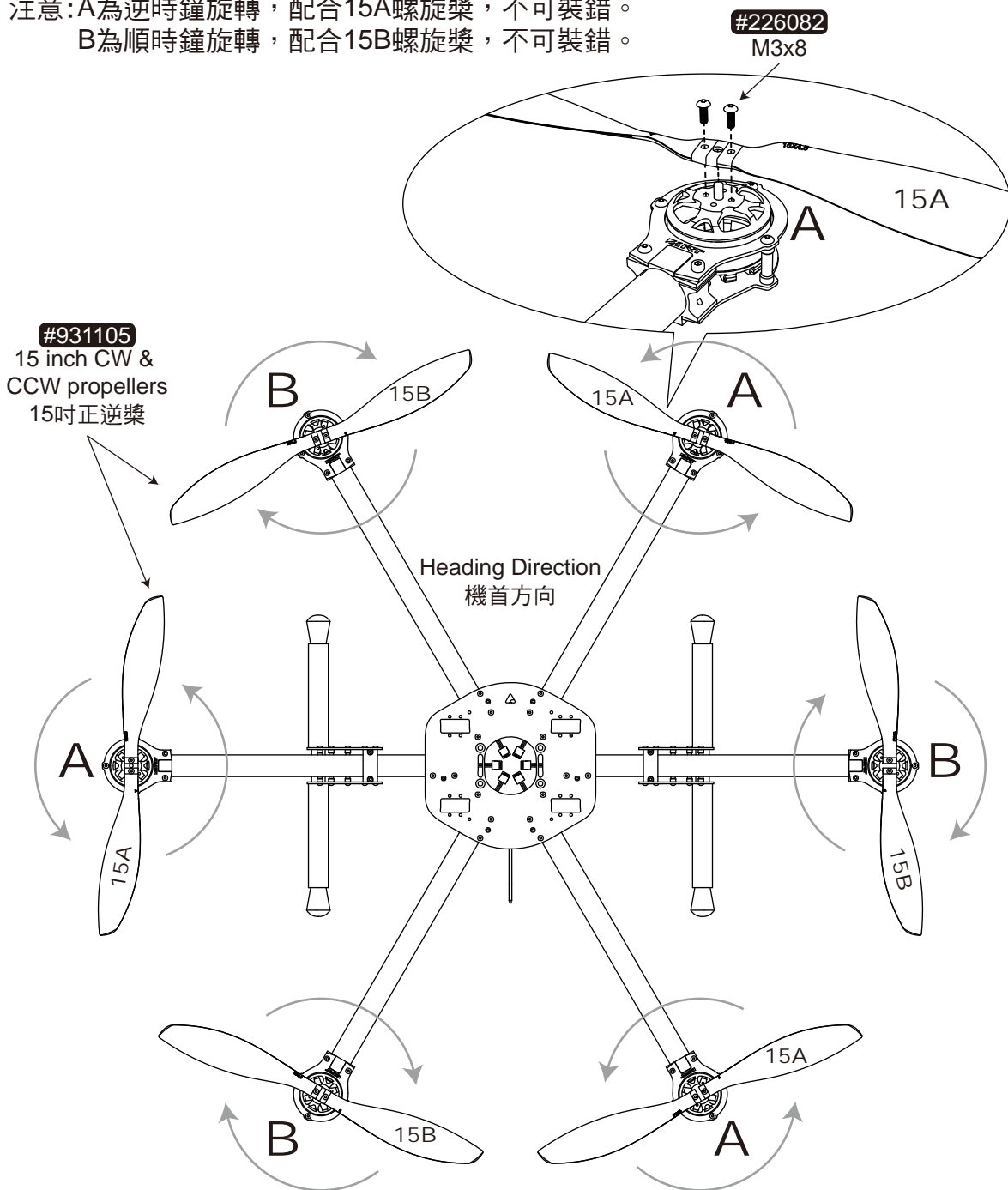
A is CCW spin, must use 15A propeller.

B is CW spin, must use 15B propeller.

Incorrect installation of propellers will cause Hexa-copter to be not flyable.

注意: A為逆時鐘旋轉，配合15A螺旋槳，不可裝錯。

B為順時鐘旋轉，配合15B螺旋槳，不可裝錯。

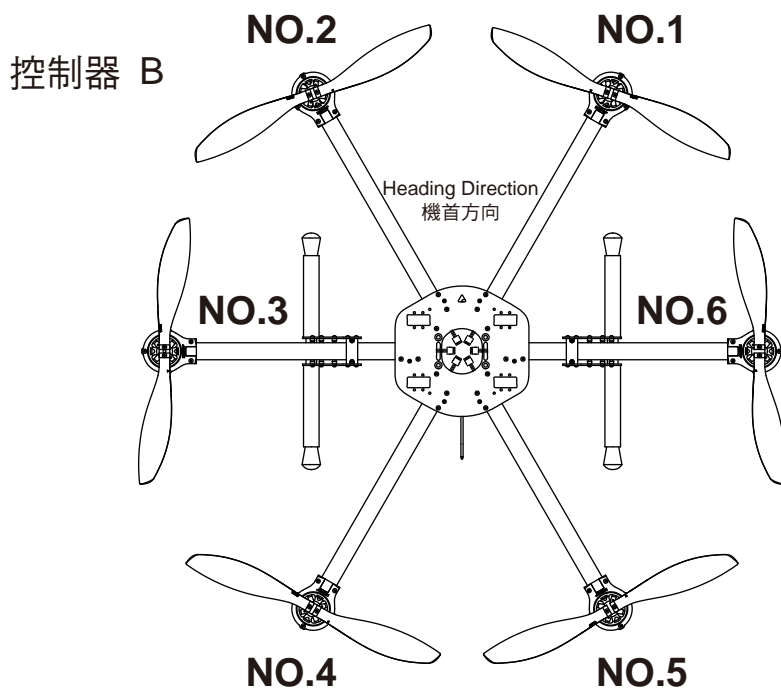
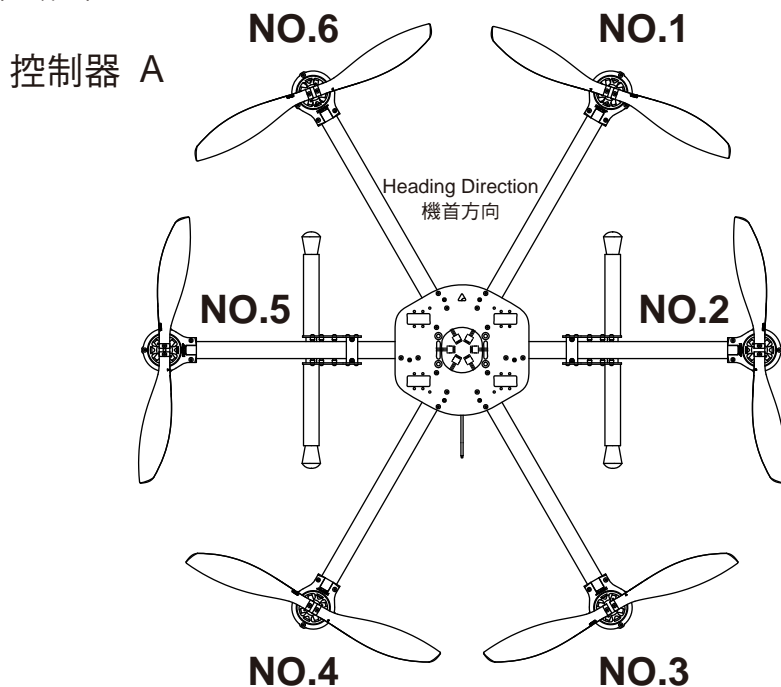




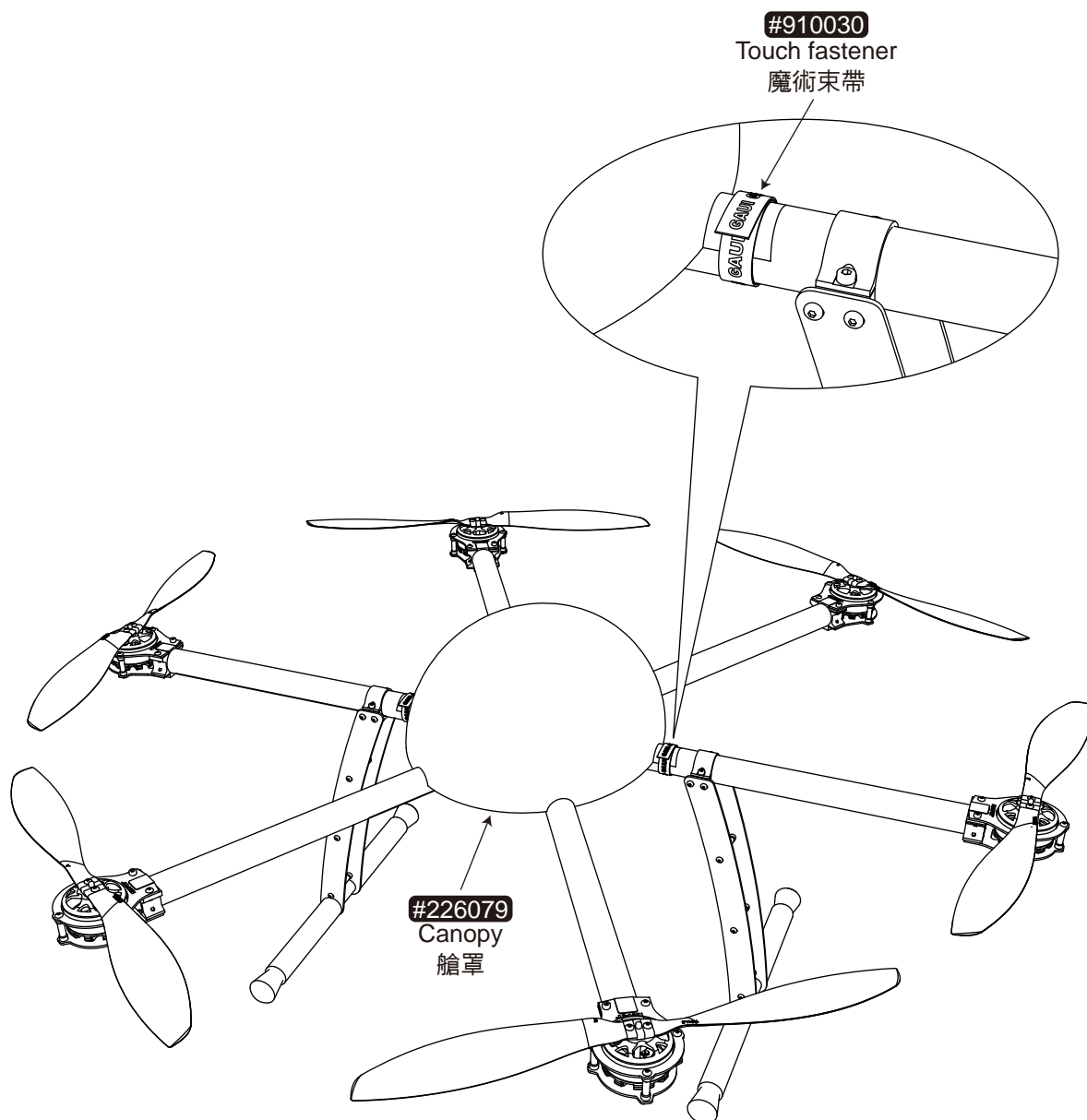
Please read the instruction manual of multi-rotor flight stabilizer (from various vendors) thoroughly.

It is very important to connect the ESC signal cables correctly depending on the CCW (A) and CW (B) motor/propeller spinning direction of each flying arm.

因應市面各廠牌不同的控制儀器，請參閱您的控制器說明書並確認6組馬達訊號線號碼為A組或B組。



Use touch fasteners to secure the canopy onto the frame.  
用魔鬼氈束帶固定艙罩，即完成組裝。



840H has foldable design:

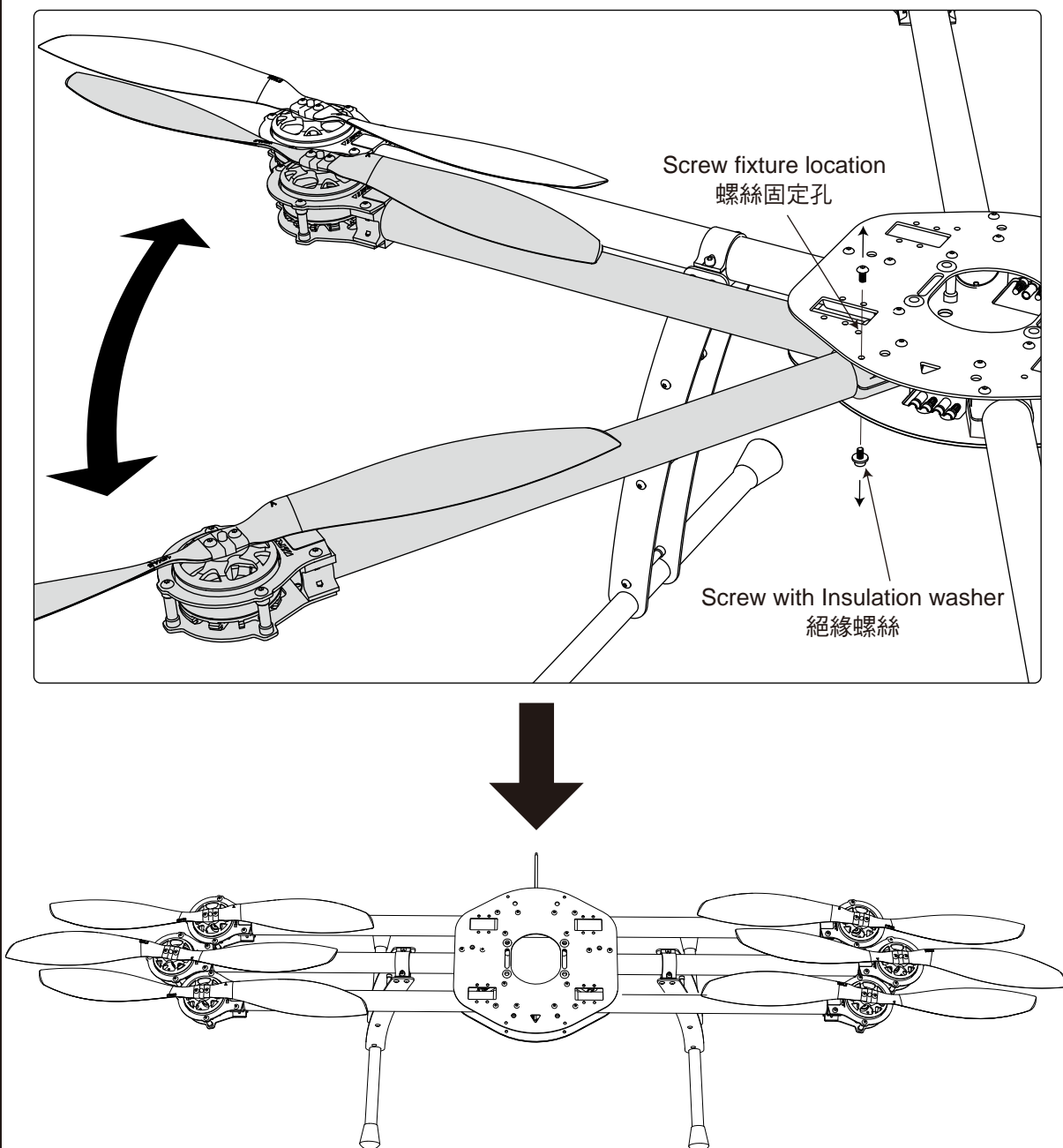
If folding/storage is needed, please remove the indicated screws below, but it back in same location for storage.

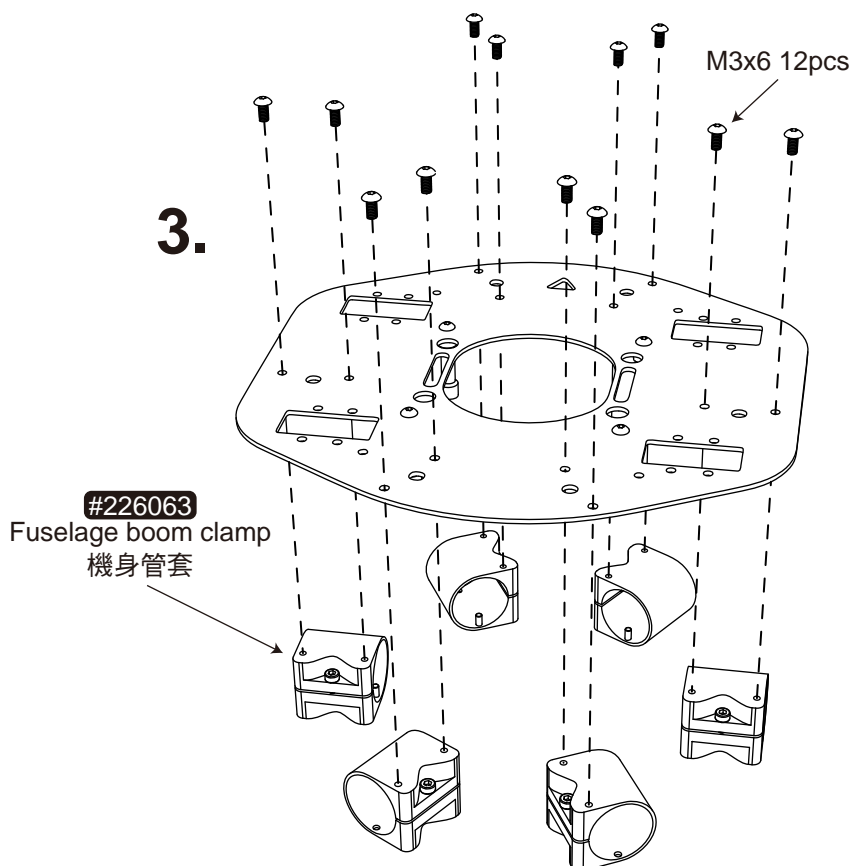
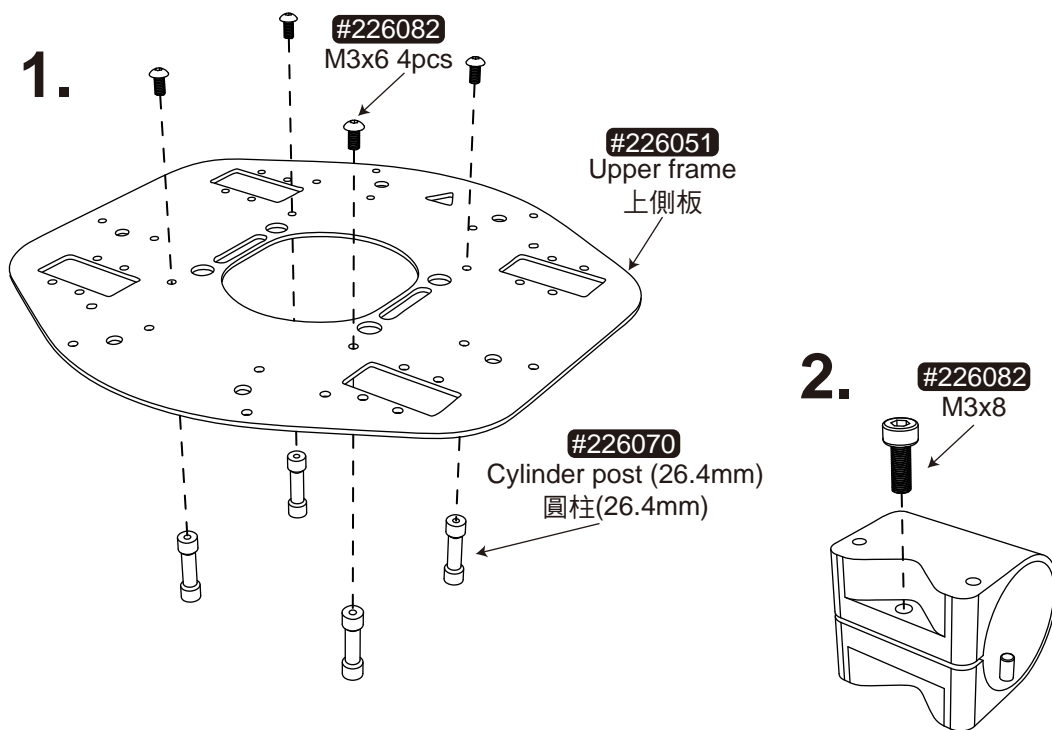
(Note, the screw with the Insulation washer must be used on the proper location and not over-tightened).

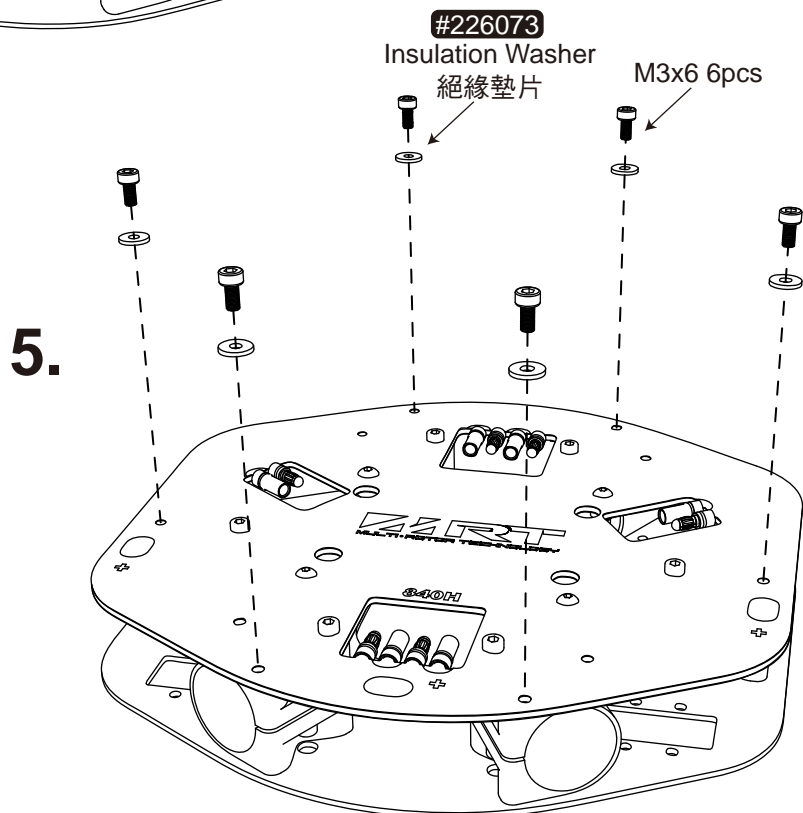
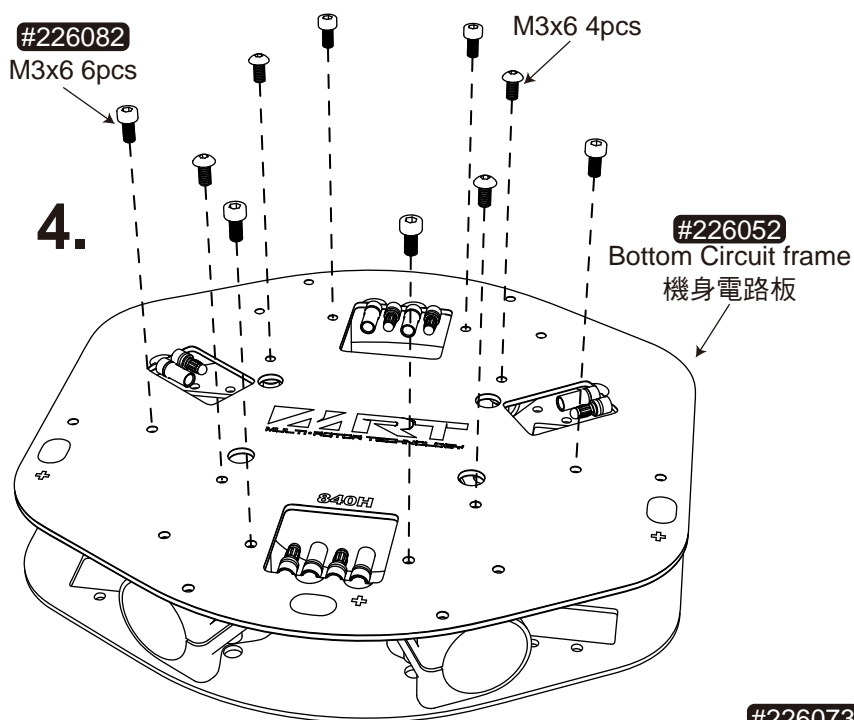
840H具折疊收合設計：

如需折合請將圖示的螺絲卸下，折合後再鎖回原來位置。

(注意含絕緣墊片的螺絲不可鎖錯位置或過分鎖緊)

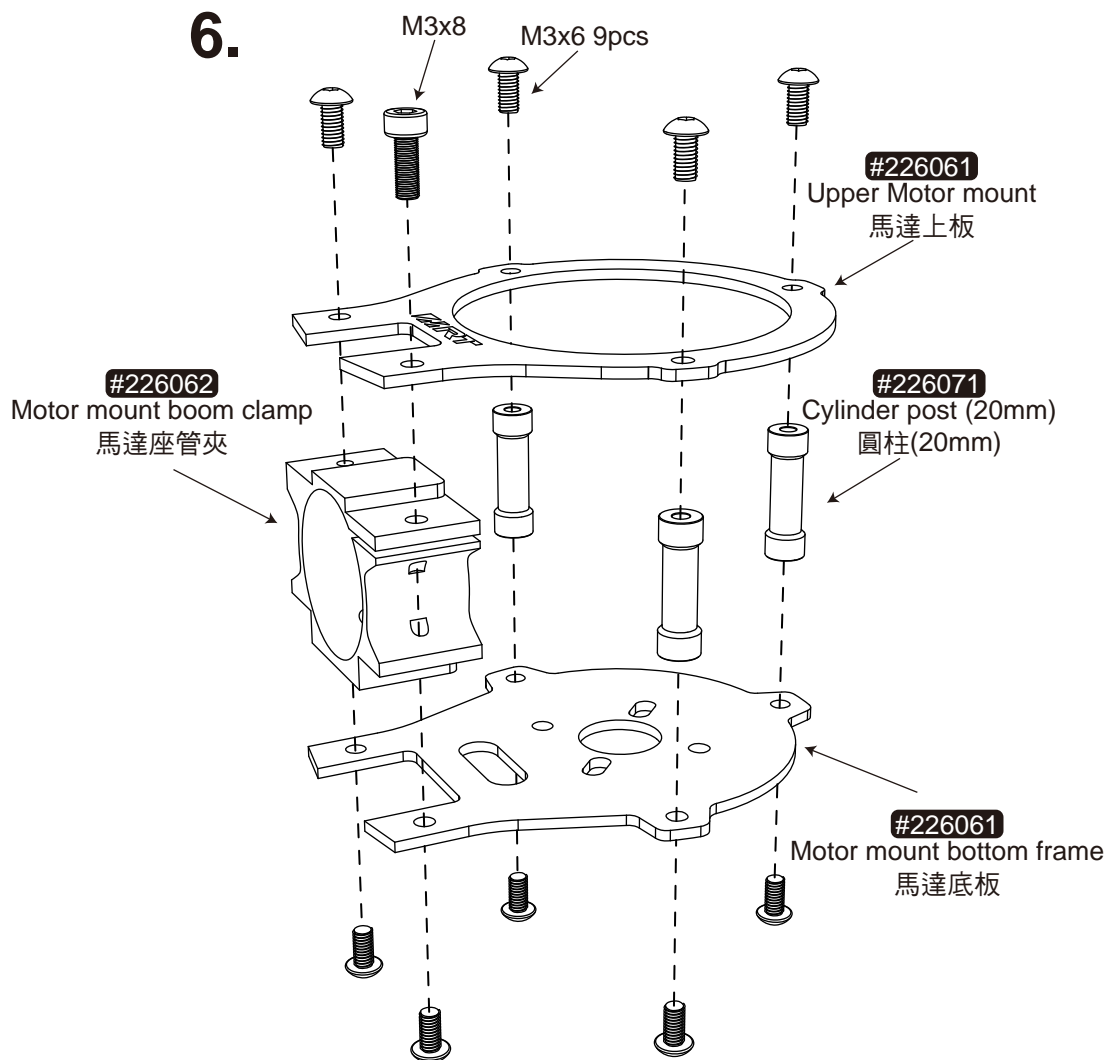

























Attention: Insulation washer must be properly inserted with the screw, to prevent current conduction.  
注意: 絕緣墊片應確實套入螺絲, 以防止導電。

6.



<b>#226051</b>  840H 上側板 840H Top Frame	<b>#226052</b>  840H 機身電路板 840H Bottom Circuit Frame	<b>#226061</b>  840H 馬達板組 840H Motor Mount Set	<b>#226062</b>  840H 馬達座管夾 840H Motor Mount Clamp
<b>#226063</b>  840H 機身套管 840H Boom Clamp	<b>#226064</b>  840H 管夾組 840H boom clamp set (for landing gear)	<b>#226068</b>  840H 輪管組(331mm) x2 840H 331mm Boom x 2pcs	<b>#226069</b>  840H 腳架側板組 840H Landing Gear Side frames (1 set)
<b>#226070</b>  840H 機身鉚柱包 840H Frame posts pack	<b>#226071</b>  840H 馬達輪鉚柱包 840H Motor mount posts pack	<b>#226072</b>  840H 腳架鉚柱包 840H Landing gear posts pack	<b>#226073</b>  840H 螺絲絕緣片 840H Insulation Washer Pack
<b>#226078</b>  840H 腳架減震泡棉(250mm) 840H Landing Gear shock absorbing sponges (250mm)	<b>#226079</b>  840H 機罩 840H Canopy	<b>#226082</b>  840H 螺絲綜合包 840H Screws Combo Pack	<b>#910030</b>  魔術束帶 1x20cm(6件組) Cable Tie with Touch Fastener 1x20cm (6pcs)
<b>#910032</b>  電池黏扣帶(420mm) Battery Straps (420mm)	<b>#931055</b>  多旋翼腳架設管(300mm) Multi-Rotor landing gear boom (300mm)	<b>#931057</b>  多旋翼橡膠腳墊(黑) Multi-Rotor Skid Rubber Damper (Black)	<b>#931105</b>  十五吋正逆槳 15 in. Props (15A and 15B)

HEXA FLYER

840H



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