

# Hurricane<sup>425</sup>

# 颶風

## ASSEMBLY INSTRUCTION

組裝說明書



### Specification 規格資料

Overall Length (w/o main blades):900mm  
機身長度(不含主旋翼)

Overall Height:310mm  
機身高度

Overall Width:80mm  
機身寬度

Flybar Paddle:788x42x6mm  
平衡翼尺寸

Main Blade Length:425mm  
適用主旋翼長度

Main Rotor Diameter:965mm  
主旋翼迴轉直徑

Tail Blade Length:75mm  
尾旋翼葉片長度

Tail Rotor Diameter:217mm  
尾旋翼迴轉直徑

Speed Ratio (Main and Tail ): 1:4.36  
主旋翼與尾旋翼轉速比

Speed Ratio (Motor and Main) : 11.47 : 1 (Varied by gear ratio changed)  
馬達與主旋翼減速比(可更換減速比)

Total weight:1375g (Equipped with Blades and all electronic gears except Battery)  
全配重量(不含電池)

Power System(Recommended):  
動力系統(原廠建議):

Motor -- 1400 KV Battery -- 11.1V 2200mah 25C LI - Po in series(22.2V)  
馬達 1400 KV 電池 -- 11.1V 2200mAh 25C Li - Po 兩組串接(22.2V)

Important : The gear ratio, motor and battery should be set properly if the power system changed!!  
注意:更改動力系統請注意電池電壓,馬達KV值及減速比關係來做搭配!!

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Thank you for purchasing GAUI "Hurricane 425 Basic Kit". As the industry creator of the 400-class RC helicopters, we would like to proudly introduce this ultimate machine to those who love high performance and 3D capable RC helicopter, Please read all instructions thoroughly before operation to get the best flight performance. Part or parts missing from this kit must be reported within 60 days of purchase. No part or parts will be sent under warranty without proof of purchase.

To receive part or parts under warranty, the service center must receive a proof of purchase and/or the defective part or parts. Should you find a defective or missing part, contact the authorized GAUI distributor whom you bought it from. Under no circumstances can a dealer or distributor accept return of a kit if assembly has started. This warranty does not cover any components damaged by use or modification. It is welcome that contact <gauri@gauri.com.tw> for more details about GAUI distributors.

感謝你選購泰世科技"颶風425"產品，本公司自2008年推出推出425級3D電動直升機(颶風425)迄今，致力於3D電動直升機的性能提升，現今我們很榮幸能向您介紹這款最佳性能的3D電動直升機，在進行組裝及操作之前，請務必詳細閱讀本說明書。在本說明書的介紹下您將會知道如何組裝及設定您的 颶風425 並獲致穩定及3D性能兼具的飛行特性。產品拆封前請檢視商品內容是否與標示項目及數量相符，若有零件短少或內容物與標示不同，請於購買日起60天內洽詢原購買之經銷商。請注意!! 產品拆封後之短少或不符，以及消費者使用不當或自行改裝產品所造成的瑕疵或損壞，將無法享有保固維修服務。任何保固維修服務之要求，需透過泰世科技公司授權之正式經銷商或其認可之銷售通路確認後方可進行。關於產品使用及購買之相關服務請洽詢泰世科技當地經銷商或歡迎來信詢問，本公司郵件信箱 <gauri@gauri.com.tw>。

### **Safety Precautions** 安全注意事項

1. The "Hurricane 425 Basic Kit" is not a toy. It is a high performance model product. It is important to familiarize yourself with the model, its manual, and its construction before assembly or operation. Improper operations may cause personal and/or property damage. Beginner's operating under the supervision of the experienced pilots is necessary.
2. Do not operate model products in rain, on public roads, near crowds, near airport, or near areas with restricted radio operation.
3. This product, its parts, and its construction tools can be possibly harmful to your health. Always exercise extreme caution when assembling and/or operating this product. Do not touch any part of model that rotates.
4. Use an adequate charger for the batteries and follow the instruction correctly, It is highly recommended that use the GAUI electronic gears for this helicopter,.
5. By the act of assembling or operating this product, the user accepts all resulting liability. GAUI and its distributor have no control over damage resulting from shipping, improper building materials, construction, or improper usage. If the buyer is not prepared to accept this liability, then he/she return this product in new, unassembled, and unused condition to the place of purchase.

1. 颶風425遙控直升機是一高性能飛行產品而非玩具。在組裝及操作之前請充分了解產品內容及其使用注意事項、不當使用及組裝疏失都可能造成操作者及週遭人員嚴重傷害或財物損失。本產品是提供給有經驗的使用者於各合法遙控飛行場飛行，初學者請協同技術人員在旁指導，以確保飛行安全。
2. 請勿在雨天及天候不佳的狀況下飛行，操作時應遠離道路、機場、及其他禁止遙控飛行器使用之區域。
3. 測試時請勿接觸產品上的各項旋轉物件，飛行時應遠離運轉中的機體。
4. 使用原廠電池或其他原廠建議規格之充電器、電池及電子產品並依其指示使用以確保安全。
5. 產品組裝前請注意!! 使用者對產品開始組裝後所之相關責任及其及疏忽所造成的意外事故須負完全責任。本公司及其經銷商在產品售出後，對於使用者的組裝疏失、運送過程、維修不良和操作不當所發生的意外事故均不負任何責任。

1. Beginner's operating under the supervision of the experienced pilots is necessary. It is highly recommended that inspect the mechanism and check the setting of transmitter by experienced pilots for first flight.
2. Check your radio frequency with the proper operating frequency of the area or country. Always check if there are any modelers operating on the same frequency as you are. Also, check your radio for proper operation and make sure that the power of the transmitter and receiver are sufficient before flight.
3. Make sure the mechanism of the helicopter operates smoothly without interference with each other.
4. Make sure the operating direction of the servos are correct and the servo gears work fine.
5. Make sure the connectors of the electronic gears will not be disconnected due to the vibration.
6. Make sure the parts was assembled correctly and the screws are tighten properly. Inspect the helicopter after flight to find if there is any part was worn or broken, replace the worn parts and ball links immediately to prevent a control failure.
7. If the Main blades or the tail blades were impacted during flight, land the helicopter immediately and check the blades for any damage, the blades of main or tail should be replaced even if there is only slightly impact.

1. 初學者首次飛行前請由有經驗的使用者先行檢查各機構動作及遙控器設定是否正確，並協同有經驗的使用者完成飛行調整以確保飛行安全。
2. 確認遙控器頻率是否與他人相同以避免干擾，並應在動力系統連接電池前先確認遙控器功能是否正常，並確定遙控器及接收機電量足夠該次飛行。
3. 確認各機構動作是否順暢且無干涉現象。
4. 確認伺服機動作方向是否正確、伺服機齒輪是否有故障或異常。
5. 確認各電子設備接頭是否接合確實，避免飛行時因震動而鬆脫。
6. 確認各裝備及零件已正確按裝，螺絲、螺帽、連桿並無缺少或鬆脫，飛行後另須確認各部零件是否有磨損或破裂，過鬆的連桿或破損零件應先換新，以避免失控的危險。
7. 若飛行中主旋翼或尾旋翼有碰觸地面，應立即降落並檢查機件有無損傷，旋翼產品即使是輕微碰撞亦應立即更新以確保安全。

### Notes for Assembling 組裝注意事項

Do not tighten the screws too much that break the thread of parts or screws, it is necessary to use the thread-lock or locktite adhesive for the parts or screws which indicated on manual. Recheck the screws or nuts to make sure they are tightened and adhered properly, even for the parts which were preassembled.

零件組裝時請依說明書指示上膠，並適度控制螺絲起子的扭力，以避免螺絲或零件滑牙造成損壞，在裝配原廠已完成組裝之零件時，請再確認各螺絲是否確實鎖緊上膠。

### Important:

The standard tail blades(#204757) is suitable for the maximum head speed which is more than 2600 RPM. Use the optional 79mm tail blades(#204755) if the maximum head speed is less than 2600 RPM.

### 注意：

原廠內附69mm尾旋翼片(#204757)適用於主旋翼最高轉速高於2600rpm之配置。  
主旋翼最高轉速若設定低於2600rpm請選用79mm尾旋翼片(#204755)。

The calculation for working out the Hurricane425 gearing ( Motor speed / Head speed ) is  
 (Front Main Gear tooth count ÷ pinion tooth count)x(Rear Main Gear tooth count ÷ one way gear tooth count)

Hurricane425 馬達轉數與主旋翼轉數之減速比計算公式：(前齒輪齒數 ÷ 馬達齒齒數) X (主齒輪齒數 ÷ 單向齒輪齒數)

Hurricane425 available gear ratios with 19T one way gear

原廠配備 19T 單向齒輪

(0.8Mod)- 61T Rear Main Gear (0.8Mod)

(模數 0.8) 配備 61T主齒輪(模數 0.8)

42T Front Main Gear	42T 前齒輪
13T pinion = 10.37:1	13T 馬達齒 = 10.37:1
14T pinion = 9.63:1	14T 馬達齒 = 9.63:1
15T pinion = 8.98:1	15T 馬達齒 = 8.98:1
16T pinion = 8.42:1	16T 馬達齒 = 8.42:1

50T Front Main Gear	50T 前齒輪
13T pinion = 12.34:1	13T 馬達齒 = 12.34:1
14T pinion = 11.46:1	14T 馬達齒 = 11.46:1
15T pinion = 10.70:1	15T 馬達齒 = 10.70:1
16T pinion = 10.03:1	16T 馬達齒 = 10.03:1

60T Front Main Gear	60T 前齒輪
13T pinion = 14.81:1	13T 馬達齒 = 14.81:1
14T pinion = 13.75:1	14T 馬達齒 = 13.75:1
15T pinion = 12.84:1	15T 馬達齒 = 12.84:1
16T pinion = 12.03:1	16T 馬達齒 = 12.03:1

61T Front Main Gear	61T 前齒輪
13T pinion = 15.06:1	13T 馬達齒 = 15.06:1
14T pinion = 13.98:1	14T 馬達齒 = 13.98:1
15T pinion = 13.05:1	15T 馬達齒 = 13.05:1
16T pinion = 12.24:1	16T 馬達齒 = 12.24:1

Hurricane425 available gear ratios with 20T one way gear

選用 20T 單向齒輪

(0.8Mod)- 61T Rear Main Gear (0.8Mod)

(模數 0.8) 配備 61T主齒輪(模數 0.8)

42T Front Main Gear	42T 前齒輪
13T pinion = 9.85:1	13T 馬達齒 = 9.85:1
14T pinion = 9.15:1	14T 馬達齒 = 9.15:1
15T pinion = 8.54:1	15T 馬達齒 = 8.54:1
16T pinion = 8.00:1	16T 馬達齒 = 8.00:1

50T Front Main Gear	50T 前齒輪
13T pinion = 11.73:1	13T 馬達齒 = 11.73:1
14T pinion = 10.89:1	14T 馬達齒 = 10.89:1
15T pinion = 10.16:1	15T 馬達齒 = 10.16:1
16T pinion = 9.53:1	16T 馬達齒 = 9.53:1

60T Front Main Gear	60T 前齒輪
13T pinion = 14.07:1	13T 馬達齒 = 14.07:1
14T pinion = 13.07:1	14T 馬達齒 = 13.07:1
15T pinion = 12.20:1	15T 馬達齒 = 12.20:1
16T pinion = 11.43:1	16T 馬達齒 = 11.43:1

61T Front Main Gear	61T 前齒輪
13T pinion = 14.31:1	13T 馬達齒 = 14.31:1
14T pinion = 13.28:1	14T 馬達齒 = 13.28:1
15T pinion = 12.40:1	15T 馬達齒 = 12.40:1
16T pinion = 11.62:1	16T 馬達齒 = 11.62:1

Figures instruction 組裝代號說明

**IMPORTANT** 請注意

Use the thread-lock adhesive if the screws are tightened to the metal parts.

組裝時如遇螺絲鎖於金屬件，請適量使用螺絲止鬆劑以確保飛行安全!

Use the thread-lock adhesive on the tip of screw for 1mm width.

螺絲止鬆劑上膠位置約為螺紋前端 1mm寬度。

Code Letter/Number (#A,#B,#C...,1,2,3...) used in each figure indicates the specific part in that figure only, please refer to the parts list for the actual item numbers. Code Letter/Number is only for the reference in assembly.

每一個插圖中的代號 (#A, #B, #C...1, 2, 3...) 僅代表該插圖中的某一零件，同一插圖中若有相同尺寸之零件，會以相同代號代表，插圖代號僅供組裝參考用。

- |   |   |   |   |   |    |    |    |    |    |
|---|---|---|---|---|----|----|----|----|----|
| ① | ② | ③ | ④ | ⑤ | #A | #B | #C | #D | #E |
| ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | #F | #I | #J | #G | #H |

Mark 類別 indication 標示 (mm)

B-Bearing B-軸承	B(Dia.in)x(Dia.out)x(Thickness) B(內徑)X(外徑)X(厚度)
Ø-Tap Screw Ø-粗牙螺絲	Ø(Dia.out)x(Length) Ø(內徑)X(長度)
M-Machine Screw M-公制螺絲	M(Dia.out)x(Length) M(外徑)X(長度)
P-tube P-柱狀體	P(Dia.in)x(Dia.out)x(Length) P(內徑)X(外徑)X(長度)
Pillar P-柱狀體	P(Dia.out)x(Length) P(外徑)X(長度)X(實心柱)
N-Nut N-螺母	N(Dia.in)x(Width) L-Lock nut N(外徑)X(長度)
W-Washer W-華司	W(Dia.in)xDia.out)x(Thickness) W(內徑)X(外徑)X(厚度)

Make sure to assemble the parts as shown in figure above, incomplete/incorrect assembly may cause the control failure during flight.

以上圖示，於組裝時請確實注意，避免組裝後試飛造成失控零件鬆脫等情況發生。

**IMPORTANT** 請注意

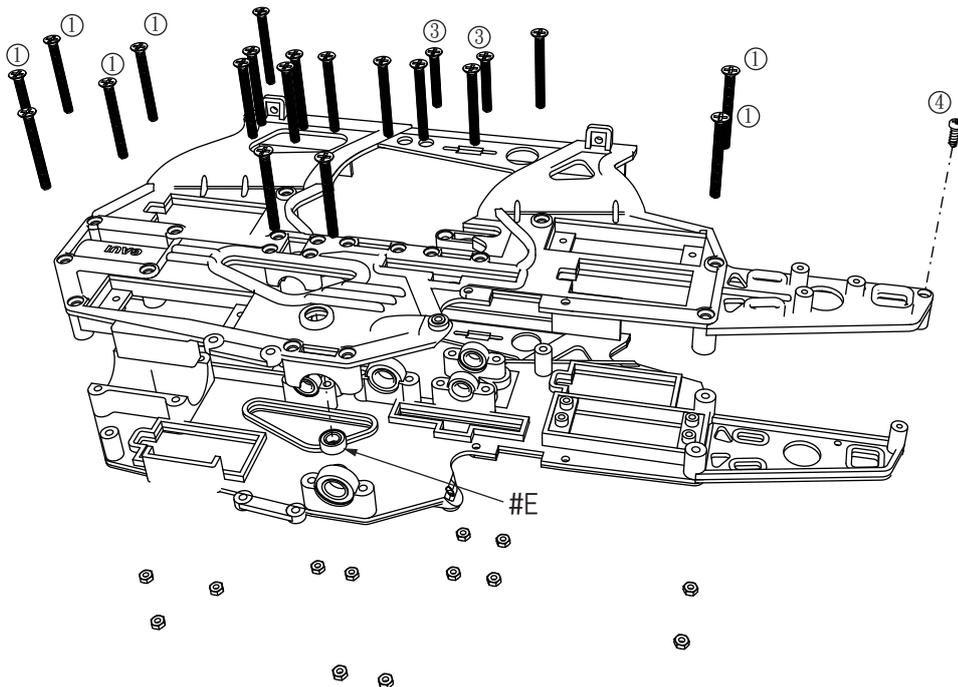
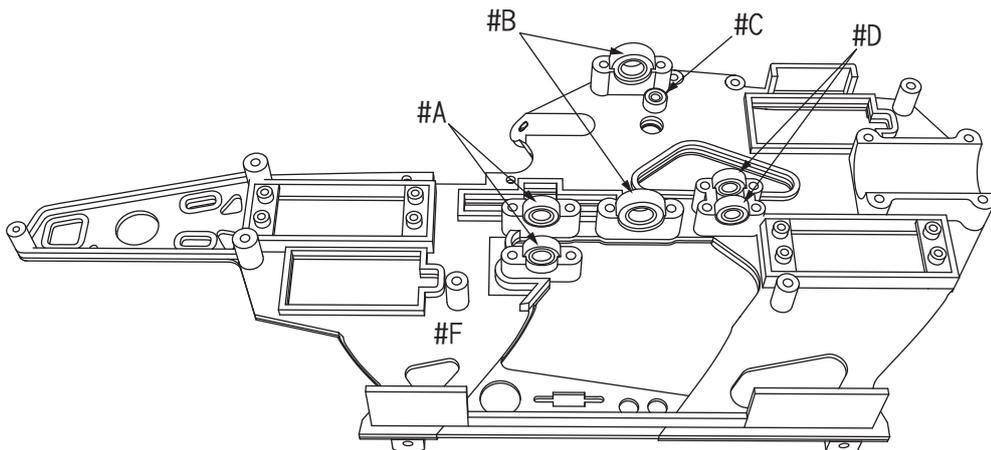
Use the thread-lock adhesive if the screws are tightened to the metal parts.  
組裝時如遇螺絲鎖於金屬件，請適量使用 螺絲止鬆劑 以確保飛行安全！  
Use the thread-lock adhesive on the tip of screw for 1mm width.  
螺絲止鬆劑上膠位置約為螺紋前端 1mm寬度。

**IMPORTANT** 請注意

Install the bearings onto the frame.  
置入側板軸承。  
Join both frames and tighten the bolts.  
左側板置入軸承後，以螺絲對鎖。

- |            |  |
|------------|--|
| #A #204578 | Ball Bearing with washer (8x12x3.5)x2<br>軸承(8x12x3.5)x2(附墊片) |
| #B #204566 | Ball Bearing (8x16x5)x2<br>軸承(8x16x5)x2                      |
| #C #204561 | Ball Bearing (3x8x4)x1<br>軸承(3x8x4)x1                        |
| #D #204563 | Ball Bearing (5x11x4)x2<br>軸承(5x11x4)x2                      |
| #E #805104 | Ball Bearing (5x10x4)x1<br>軸承(5x10x4)x1                      |
| #F #204010 | Main Frame Set<br>機體   |

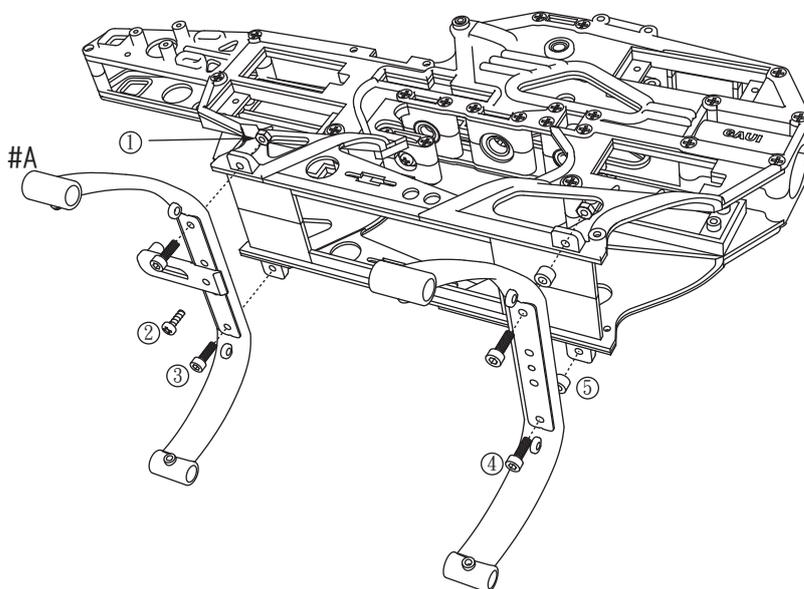
- |           |                             |
|-----------|-----------------------------|
| ① M3X30   | Machine Screw<br>公制螺絲       |
| ② N3X5.5  | Nut<br>螺母                   |
| ③ M3X20   | Machine Screw<br>公制螺絲       |
| ④ Ø2.6X10 | Self tapping screws<br>粗牙螺絲 |



**IMPORTANT** 請注意

Install the landing gear braces as shown in figure.  
如圖將腳架鎖至機身。

- |            |                             |
|------------|-----------------------------|
| #A #204180 | Brace & Skid Set<br>腳架      |
| ① N3X5.5   | Nut<br>螺母                   |
| ② Ø3X5     | Self tapping screws<br>粗牙螺絲 |
| ③ M3X10    | Machine Screw<br>公制螺絲       |
| ④ M3X15    | Machine Screw<br>公制螺絲       |
| ⑤ P3X6X4   | Tube<br>柱狀體                 |



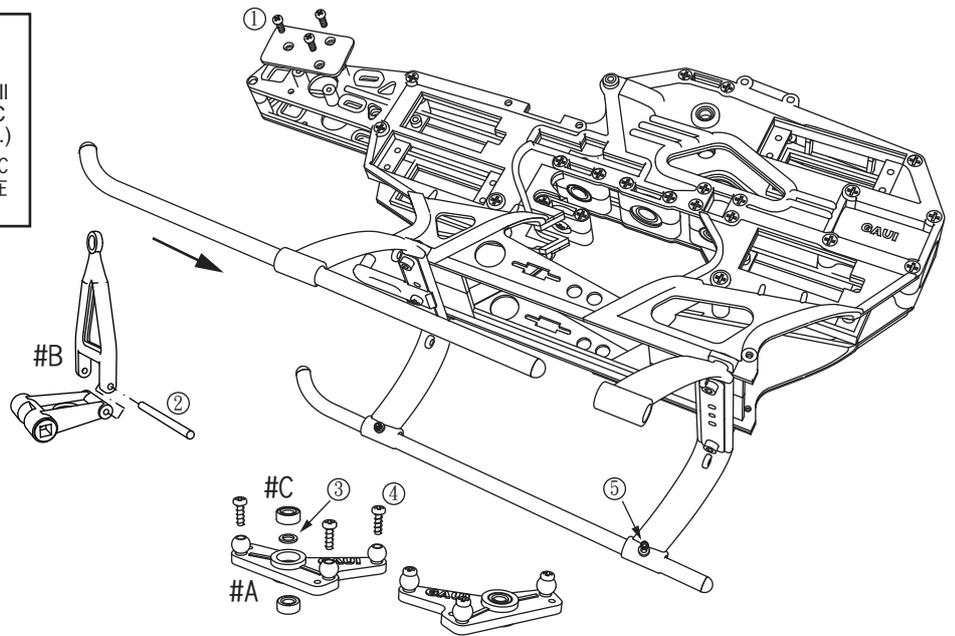
**IMPORTANT 請注意**

Install the mount and skids. (Make sure not to install the ESC here or in the canopy, the overheated ESC will cut off the motor power temporarily during flight.)

將接收機電池架鎖至機身並套入腳架鋁管。(勿將ESC安裝在此架上或置於艙罩內,散熱不良的ESC可能會在飛行中進入保護模式而暫時切斷馬達電源。)

- #A #204512 Pitch & Roll Arm Set  
前搖臂
- #204612 CNC Pitch & Roll Arm Set  
CNC前搖臂
- #B #204513 Elevator Arm (F & R) Set  
後搖臂
- #C #203290 Bearing(3x6x2.5)x2pcs  
軸承包(3x6x2.5)x2個

- ① Ø2.6X10 Self tapping screws  
粗牙螺絲
- ② P2X22 Pillar  
柱狀體
- ③ W3.1X4.6X0.6 Washer  
華司
- ④ Ø2X8 Self tapping screws  
粗牙螺絲
- ⑤ M3X3 Self tapping screws  
止付螺絲



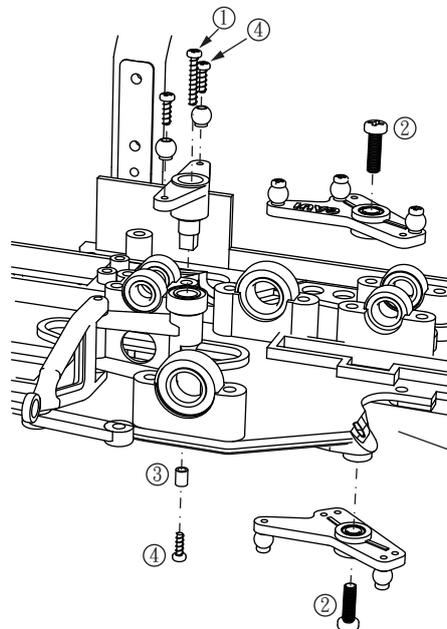
**IMPORTANT 請注意**

Assemble the arms as shown in figure and install the arm assembly onto the frame.

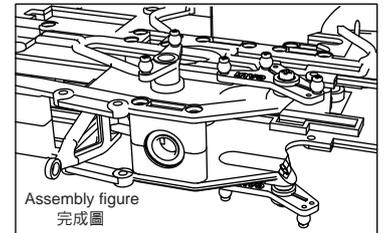
製作三個CCPM搖臂並鎖至機身。

- #A #204514 Elevator Lever  
後搖臂舵片
- #204614 CNC Elevator Lever  
CNC後搖臂舵片
- #B #204021 Front Main Gear(42T)  
42T齒輪
- #204621 Front Main Gear(50T)  
50T齒輪
- #204622 Front Main Gear(60T)  
60T齒輪

- ① Ø2X12 Self tapping screws  
粗牙螺絲
- ② M3X10 Machine Screw  
公制螺絲
- ③ P2X3X4 Tube  
柱狀體
- ④ Ø2X8 Self tapping screws  
粗牙螺絲
- ⑤ Ø3X5 Self tapping screws  
粗牙螺絲



Front Main Gear 50T.  
(42-60T are suitable for plastic version)  
組立第一段前齒輪50T。(塑膠版可適用42-60T)



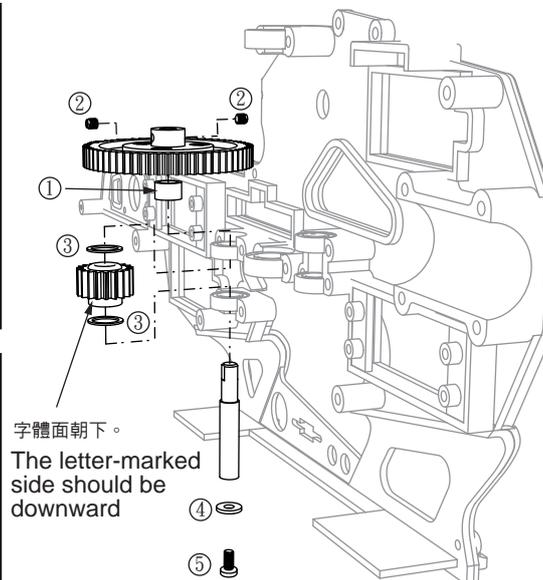
**IMPORTANT 請注意**

Assemble the front main gear and hub, join the one way gear and shaft and the front main gear assembly. (as shown in perspective)

組合第一段前齒輪,並以軸心銜接單向鋼齒。(組合完成如右透視圖)

The letter-marked side of one way bearing should be downward  
單向軸承有標文字體面朝下。

- ① P8.1X9.6X5.3 Tube  
柱狀體
- ② M3X3 Self tapping screws  
止付螺絲
- ③ W8X10.5X0.5 Washer  
華司
- ④ W3X9X1 Washer  
華司
- ⑤ M3X4 Machine Screw  
公制螺絲

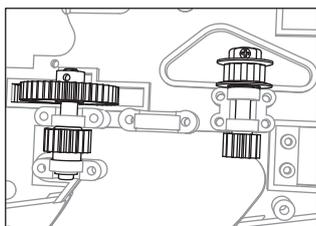


Use grease to attach the washer  
(W8X10.5X0.5)  
將 W8X10.5X0.5華司沾點黃油貼附在  
B8X12X3.5 軸承內側,再置入單向鋼齒。

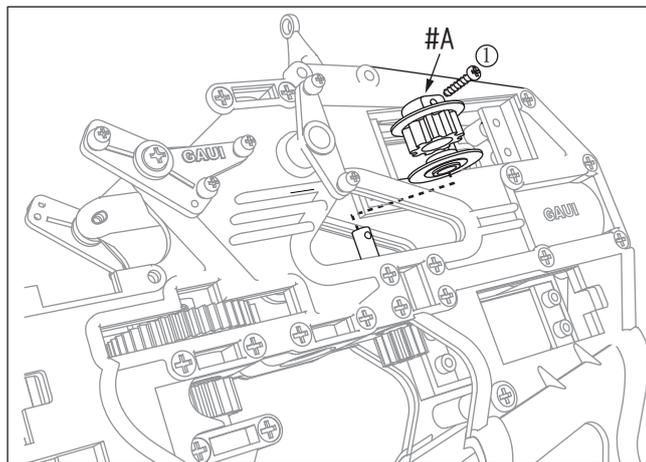
**IMPORTANT 請注意**

Install the pullet shaft and the front pulley, tighten the screw (M2X10) at the flat side of the pulley race.(as shown in perspective)  
置入皮帶齒軸，並以螺絲將前皮帶齒輪(有平面)固定至軸上，組合完成如右透視圖。

The letter-marked side of one way bearing should be downward  
單向軸承有標注字體面朝下。



透視圖  
Perspective



- #A #204524 Front Pulley Set  
前皮帶輪
- ① M2X10 Machine Screw  
公制螺絲

**IMPORTANT 請注意**

Install the motor onto motor mount (Tighten the screw slightly),secure the motor gear and then adjust the gear mesh by moving the motor forward or backward.(Fig.1)

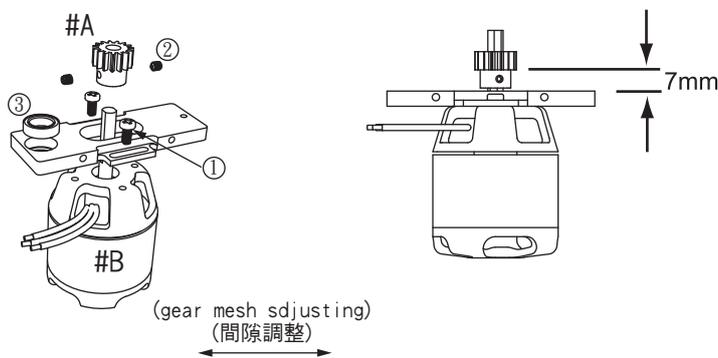
將馬達固定在馬達座上(不鎖緊)及鎖上齒輪後先置入機身(馬達前後移動)調整齒輪間隙。如(圖一)

After the gear mesh is set properly,remove the mount (with motor and gear),then tighten the motor screws and install then onto frame.(Fig.2)

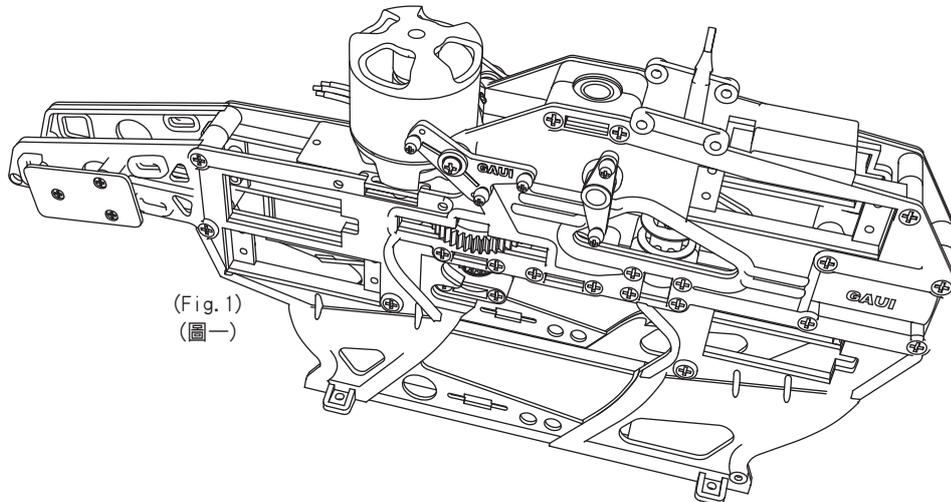
調整適當間距後，取出馬達座總成並鎖緊，再將總承鎖至機身。(圖二)

Refer to the Page 3 for gear ratio.

欲更換馬達齒請參考 P. 3 齒輪減速比。



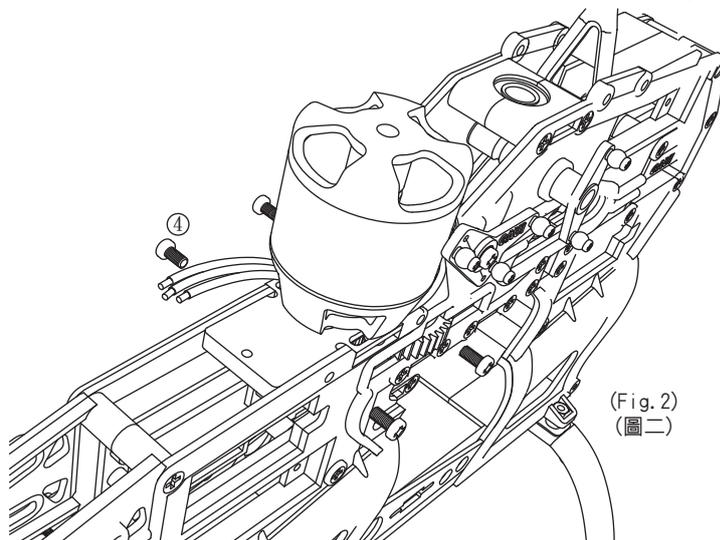
(gear mesh sdjusting)  
(間隙調整)



(Fig.1)  
(圖一)

- #A #901301 Steel Pinion Gear Pack (13T-for 5.0mm shaft)  
鋼製馬達齒13T(孔徑5.0mm)
- #901401 Steel Pinion Gear Pack (14T- for 5.0mm shaft)  
鋼製馬達齒14T(孔徑5.0mm)
- #901501 Steel Pinion Gear Pack (15T- for 5.0mm shaft)  
鋼製馬達齒15T(孔徑5.0mm)
- #901601 Steel Pinion Gear Pack (16T- for 5.0mm shaft)  
鋼製馬達齒16T(孔徑5.0mm)
- #B #855504 (GJEC GM-504) Brushless Motor (1200W-kv1400)  
(GJEC GM-504) 無刷馬達(1200W-kv1400)
- #855501 (GJEC GM-501) Brushless Motor (1000W-kv850)  
(GJEC GM-501) 無刷馬達(1000W-kv850)

- ① M3X6 Socket head machine screws  
公制內六角螺絲
- ② M3X3 Socket set screws  
止付螺絲
- ③ B5X11X4 Bearing  
軸承
- ④ M3X6 Socket head machine screws  
公制內六角螺絲



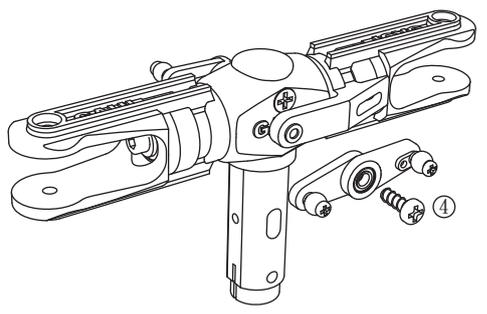
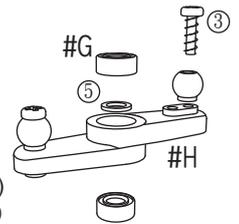
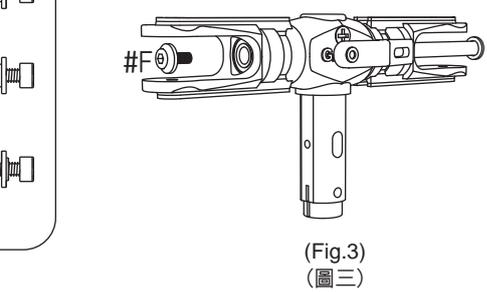
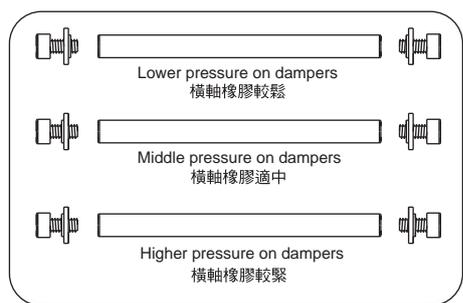
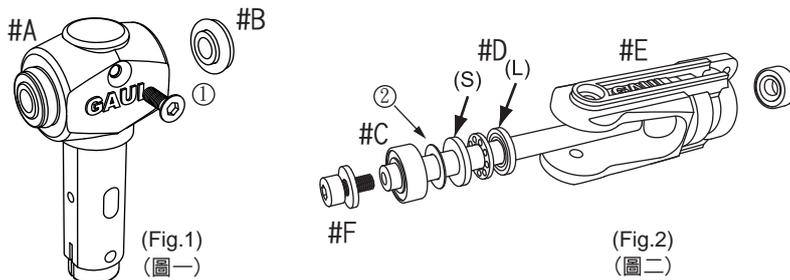
(Fig.2)  
(圖二)

**IMPORTANT** 請注意

1. Join the yoke and center hub, install the head spacer & damper as shown in figure. (Fig.1)  
將T型頭鎖至鉛軸上並將橡膠環套在圓盤後利用小起子塞入T型頭兩側。(圖一)
2. Install the parts in that order. (Notice: S - smaller hole, L - Larger hole) (Fig.2)  
利用橫軸為治具，先套入軸承及止推軸承(注意: S-小孔, L-大孔)再壓入夾頭內。(圖二)
3. Assemble grips and yoke tighten the two screws of spindle shaft (Fig.3)  
完成兩個主旋翼夾頭後再以橫軸對鎖。(圖三)
4. Assemble both of the mixing levers and join them to the grips. (Fig.4)  
組合搖臂並鎖至夾頭上。(圖四)

**CAUTION:** Replace the main blades immediately after crash, inspect and replace the Main Mast / Spindle Shaft / Main Rotor Yoke & Hub if the impact of the crash damage the parts and results in vibration.

**警告:** 直昇機遭受撞擊或墜落後應立即更換主旋翼，並應檢查或更換主軸，橫軸及旋翼頭以消除震動。

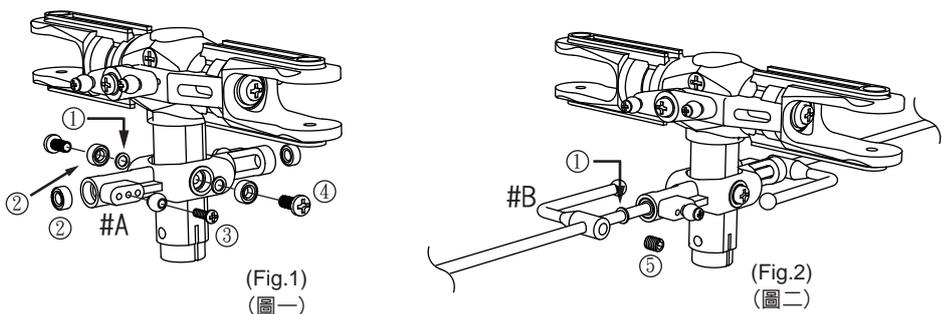


- #A #204528 Main Rotor Yoke Set 旋翼頭
- #204676 CNC Main Rotor Yoke CNC旋翼頭
- #204628 CNC Main Rotor Yoke Set CNC旋翼頭組
- #B #204530 Head Spacer & Damper Set 橫軸橡皮墊
- #C #204563 Ball Bearings Pack (5x11x4) x4 軸承 (5x11x4) x4
- #D #204567 Thrust Bearings Pack (5x10x4) x2 止推軸承 (5x10x4) x2
- #E #204529 Main Grip Set 主旋翼夾頭
- #204629 CNC Main Grip Set CNC主旋翼夾頭
- #F #204615 Spindle Spacer & Screw Set 橫軸螺絲及墊片
- #G #204560 Ball Bearings Pack (3x6x2.5) x4 軸承 (3x6x2.5) x4
- #H #204532 Mixing Lever Set 旋翼搖臂
- #204632 CNC Mixing Lever Set CNC旋翼搖臂

- ① M3X7 Socket head machine screws 公制六角螺絲
- ② W5X9X0.25 Washer 華司
- ③ Ø2X8 Self tapping screws 粗牙螺絲
- ④ M3X10 Machine Screw 公制螺絲
- ⑤ W3.1X4.6X0.6 Washer 華司

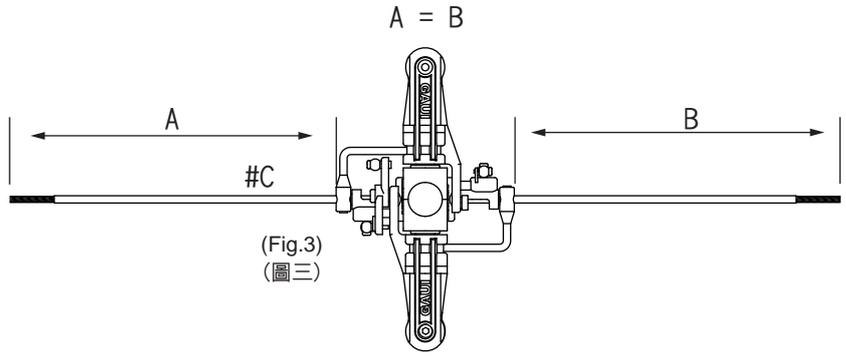
**IMPORTANT** 請注意

1. Install the seesaw onto the center hub. (Fig.1)  
將平衡桿座鎖至鉛軸上。(圖一)
2. Install the flybar arms onto the flybar. (Fig.2)  
將L臂固定在平衡桿上。(圖二)
3. Make sure the Distance "A" & "B" should be equal. (Fig.3)  
注意平衡桿兩端距離需一致。(圖三)



- #A #204041 Seesaw 平衡桿座
- #204641 CNC Seesaw Set CNC平衡桿座
- #B #204533 Flybar Arms Set L臂
- #204679 CNC Stabilizer Control Set CNC平衡翼控制組
- #C #204042 Flybar 平衡桿

- ① W3.1X4.6X0.6 Washer 華司
- ② B3X6X2.5 Bearing 軸承
- ③ Ø2X8 Self tapping screws 粗牙螺絲
- ④ M3X6 Machine Screw 公制螺絲
- ⑤ M4X4 Socket set screws 止付螺絲



**IMPORTANT** 請注意

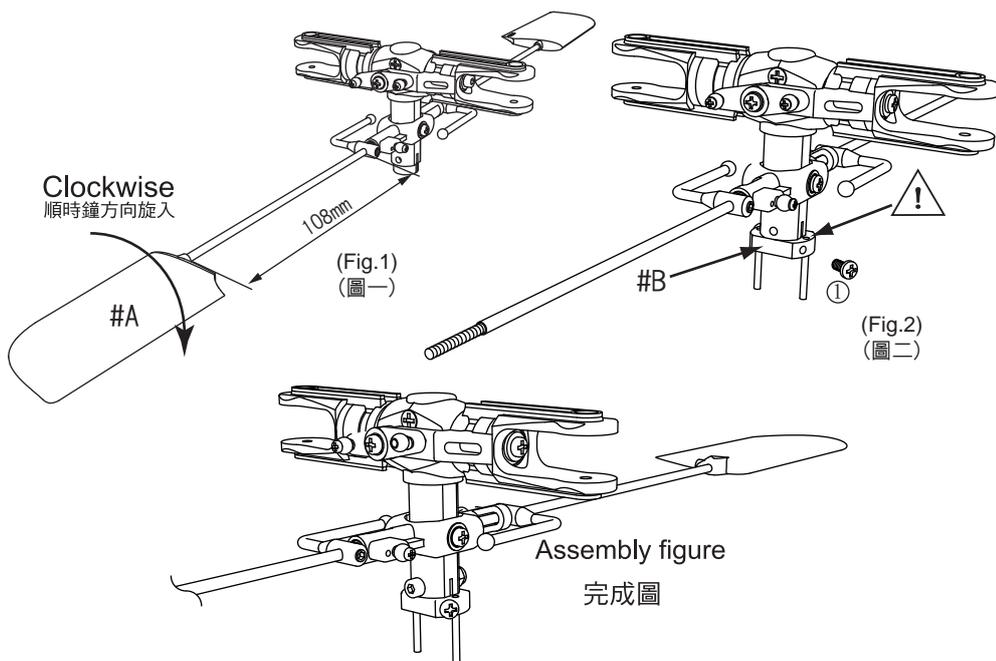
Install the flybar paddle (Both paddles should have the same turns), secure the flybar and paddle by M3X3 set screw. (Fig.1)

旋入平衡翼時請注意旋入圈數兩端要相同。(圖一)

Install washout guide.(The slot should be in the exact position and do not overtight the screw.(Fig.2)

鎖入定位器(注意凹槽位置並且不要過分鎖緊)。(圖二)

- |    |         |   |
|----|---------|---|
| #A | #204756 | H425 Flybar Paddles Set<br>颶風 425平衡翼      |
|    | #204734 | Light-Weight Flybar Paddles Set<br>輕量化平衡翼 |
|    | #204534 | Flybar Paddles Set<br>平衡翼                 |
| #B | #204535 | Washout Guide Assembly<br>定位器             |
|    | #204635 | CNC Washout Guide Assembly<br>CNC定位器      |
| ①  | Ø3X5    | Self tapping screws<br>自攻牙螺絲              |



**IMPORTANT** 請注意

Install the main mast.(Be sure not to install the mast up side down)(Fig.1)  
將主軸鎖至鋁軸上。(注意主軸兩端位置)(圖一)

Assemble the washout base & the arms. (Fig.2)

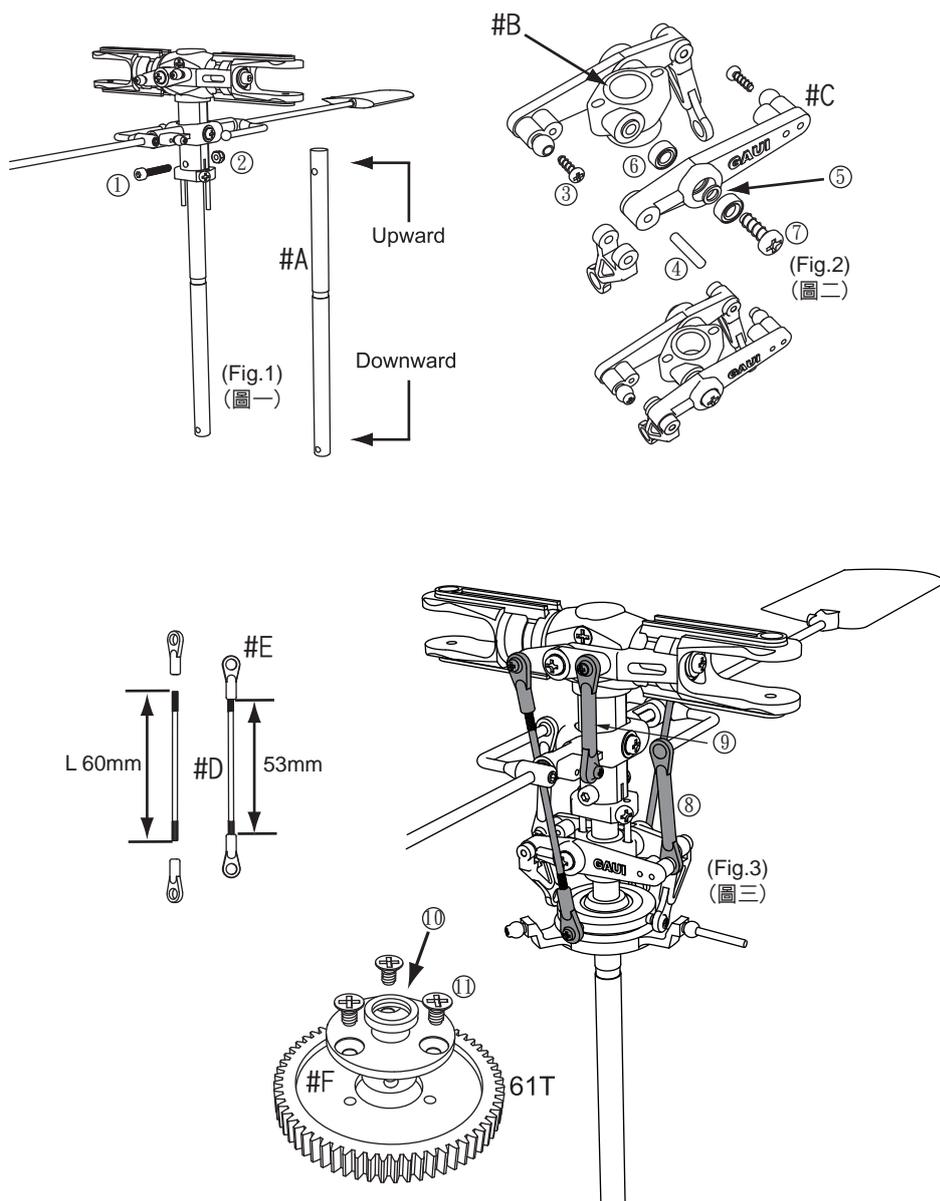
組合剪型臂。(圖二)

Install the double links.(Fig.3)

扣上兩組拉桿。(圖三)

- |    |         |  |
|----|---------|--|
| #A | #204536 | Main Masts Pack (8mm)<br>主軸 (8mm)          |
|    | #204591 | Hollow Main Masts Pack (8mm)<br>中空主軸 (8mm) |
| #B | #204051 | Washout Base<br>剪形臂滑座                      |
|    | #204678 | CNC Washout Base<br>CNC剪形臂座                |
| #C | #204537 | Washout Arm Assembly<br>剪形臂                |
|    | #204637 | CNC Washout Arm Assembly<br>CNC剪形臂         |
| #D | #204541 | Adjust Rods Pack<br>拉桿組                    |
| #E | #204542 | Ball Links Pack<br>拉桿頭                     |
| #F | #204022 | Rear Main Gear (61T)<br>61T齒輪              |

- |   |                 |                                      |
|---|-----------------|--------------------------------------|
| ① | M3X18           | Socket head machine screws<br>公制六角螺絲 |
| ② | N3X5. 5L        | Nut<br>螺母                            |
| ③ | Ø2X8            | Self tapping screws<br>粗牙螺絲          |
| ④ | P2X10           | Pillar<br>柱狀體                        |
| ⑤ | W3. 1X4. 6X0. 6 | Washer<br>華司                         |
| ⑥ | B3X6X2. 5       | Bearing<br>軸承                        |
| ⑦ | M3X10           | Machine Screw<br>公制螺絲                |
| ⑧ | L35             | Double Link(L-35)<br>L-35拉桿          |
| ⑨ | L30             | Double Link(L-30)<br>L-30拉桿          |
| ⑩ | P8X13X2         | Tube<br>柱狀體                          |
| ⑪ | M3X5            | Machine Screw<br>公制螺絲                |



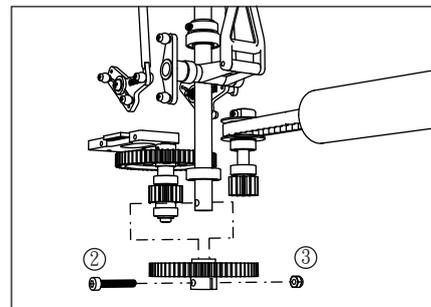
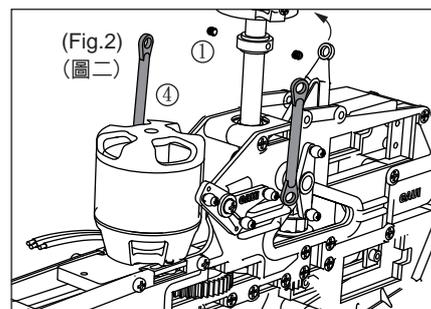
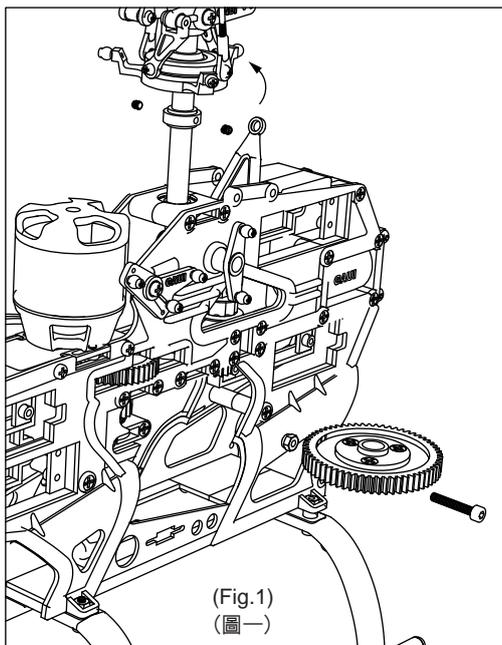
**IMPORTANT** 請注意

Assemble the rear main gear and hub, join it with the main mast and frame assembly. Install the mast collar, the mast should not able to be moved up and down. (Fig.1)

鎖上輪檔(注意主軸上下不要有間隙) 組合主齒盤並如圖結合主軸並鎖上止附螺絲。(圖一)

Install the double link.(Fig.2)  
扣上拉桿及後搖臂。(圖二)

- |   |         |                                      |
|---|---------|--------------------------------------|
| ① | M3X3    | Socket set screws<br>止付螺絲            |
| ② | M3X18   | Socket head machine screws<br>公制六角螺絲 |
| ③ | N3X5.5L | Nut<br>螺母                            |
| ④ | L45     | Double Link(L-45)<br>L-45拉桿          |



**Tail Assembly 1**

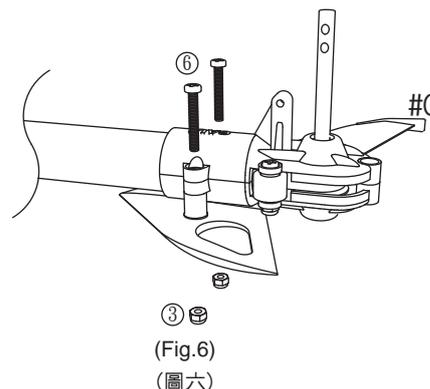
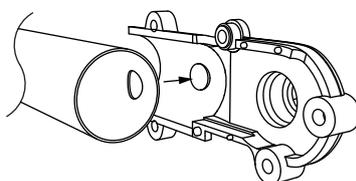
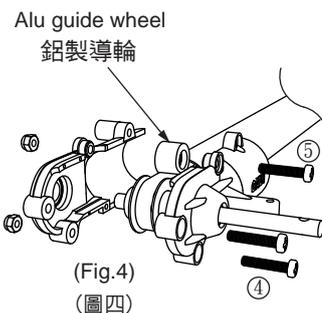
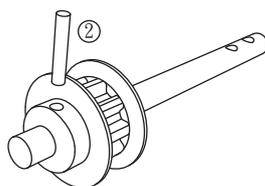
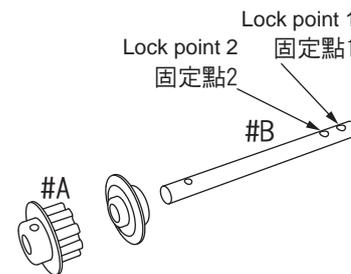
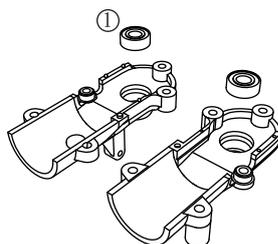
尾部組立1

**IMPORTANT** 請注意

- 1.Install the bearings.(Fig.1)  
將軸承置入尾殼內。(圖一)
- 2.Install the tail pulley and the tail shaft.(Fig.2)  
把尾皮輪插入尾軸。(圖二)
- 3.Secure the tail pulley with the pin.(Fig.3)  
以插銷固定皮帶輪及尾軸。(圖三)
- 4.Install the tail pulley and the tail gear cases.(Fig.4)  
把皮帶置於皮帶輪上並組合尾殼與尾管。(圖四)
- 5.Notice:The tail gear case should be installed exactly.(Fig.5)  
注意尾殼凸點需置入尾管凹槽內。(圖五)
- 6.Install the vertical fin.(Fig.6)  
組合垂直尾翼於尾殼上。(圖六)

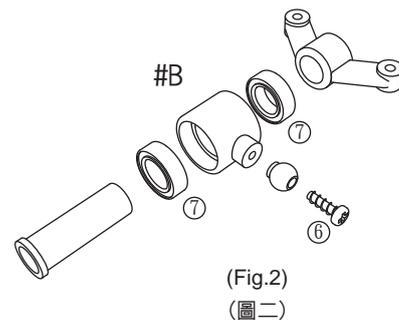
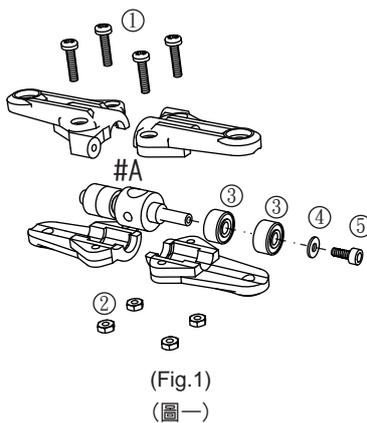
- |    |         |                            |
|----|---------|----------------------------|
| #A | #204547 | Tail Pulley Set<br>尾皮帶輪    |
| #B | #204123 | Tail Output Shaft<br>尾軸    |
| #C | #204549 | Fin & Stabilizer Set<br>尾翼 |

- |   |         |                       |
|---|---------|-----------------------|
| ① | B5X11X4 | Bearing<br>軸承         |
| ② | P2X11   | Pillar<br>柱狀體         |
| ③ | N3X5.5L | Nut<br>螺母             |
| ④ | M3X10   | Machine Screw<br>公制螺絲 |
| ⑤ | M3X15   | Machine Screw<br>公制螺絲 |
| ⑥ | M3X20   | Machine Screw<br>公制螺絲 |

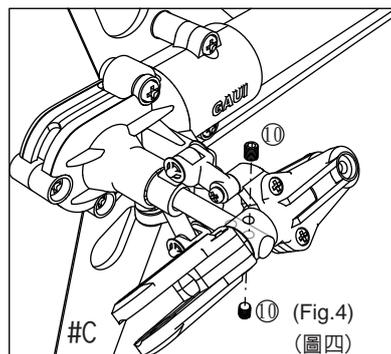
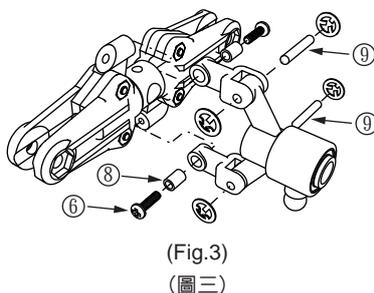


**IMPORTANT 請注意**

1. Use the thread-lock on the tip of the screw and assemble the hub, install the tail grips as shown.(Fig.1)  
將軸承置入尾旋翼頭內並將螺絲上螺絲膠再組合(請勿用力過度導致滑牙),將尾旋翼夾片鎖緊。(圖一)
2. Assemble the tail pitch slider and the bush.(Fig.2)  
利用滑套旋入組合尾螺距推桿座。(圖二)
3. Assemble the grips assembly & the pitch slider assembly.(Fig.3)  
組合推桿與夾頭。(圖三)
4. Install the grips & the pitch slider assembly, tighten the set screws.(Fig.4)  
將夾頭組置入尾軸並鎖緊。(圖四)
5. Assemble the tail pitch control lever and install it onto tail gear case.(Fig.5)  
將尾舵角片組合並鎖至尾殼上。(圖五)
6. Install the tail rotor blades.(Fig.6)  
將尾旋翼置於夾片內。(圖六)
7. Install the tail support clamp and the rudder control guide.(Fig.7)  
套入尾管夾與拉桿座於尾管上。(圖七)



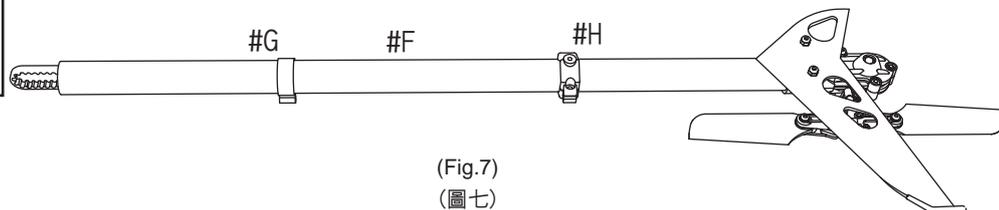
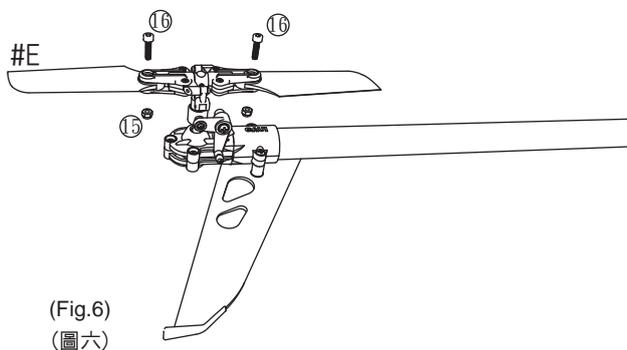
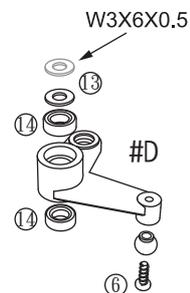
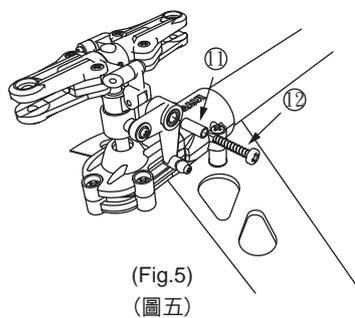
Install the tail hub and tighten the set screws onto the Lock point 1.  
螺絲鎖入時請鎖至尾橫軸第1固定點



Put in 1 or 2 washers to adjust the distance between Lever and gear box.  
請放入1或2個墊片以調整舵角片與尾齒輪箱間隙

#A	#204651	Tail Hub Set 尾旋翼頭
#B	#204552	Tail Pitch Slider Set 螺距夾
	#204640	CNC Tail Pitch Slider Set CNC螺距夾組(5mm尾軸用)
#C	#204549	Fin & Stabilizer Set 尾翼
#D	#204553	Tail Pitch Control Lever Set 尾舵角片
#E	#204754	Light-weight Tail Rotor Blade Set 輕量化尾旋翼
	#204554	Tail Rotor Blade Set 尾旋翼
#F	#204664	Tail Boom Conversion Set (with Belt 470XL) for 425L Blade 425號用尾管改裝包(附470XL皮帶)
#G	#204556	Rudder Control Guide 拉桿座
#H	#204555	Tail Support Clamp 尾管夾

①	M2X8	Machine Screw 公制螺絲
②	N2X4	Nut 螺母
③	B3X8X4	Bearing 軸承
④	W2X5X0.5	Washer 華司
⑤	M2X3	Machine Screw 公制螺絲
⑥	Ø2X8	Self tapping screws 粗牙螺絲
⑦	B6X10X3	Bearing 軸承
⑧	P2X3X4.5	Tube 柱狀體
⑨	P2X12	Pillar 柱狀體
⑩	M3X3	Socket set screws 止付螺絲
⑪	P3X4X9.5	Tube 柱狀體
⑫	Ø3X15	Self tapping screws 粗牙螺絲
⑬	W3X6X0.5	Washer 華司
⑭	B4X7X2.5	Bearing 軸承
⑮	N3X5.5L	Nut 螺母
⑯	M3X12	Machine Screw 公制螺絲



**IMPORTANT** 請注意

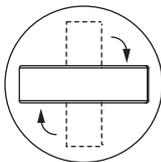
1. Make sure the belt is not winding in tail boom, rotate it 90 degrees clockwise. (Front view) (Fig.1)  
 檢視皮帶是否平行(不可捲繞)並旋轉90度。(圖一)

2. Loosen the 4 screws and install the tail boom Assembly. (Fig.2)  
 鬆開尾管夾螺絲並將尾管總成插入機體。(圖二)

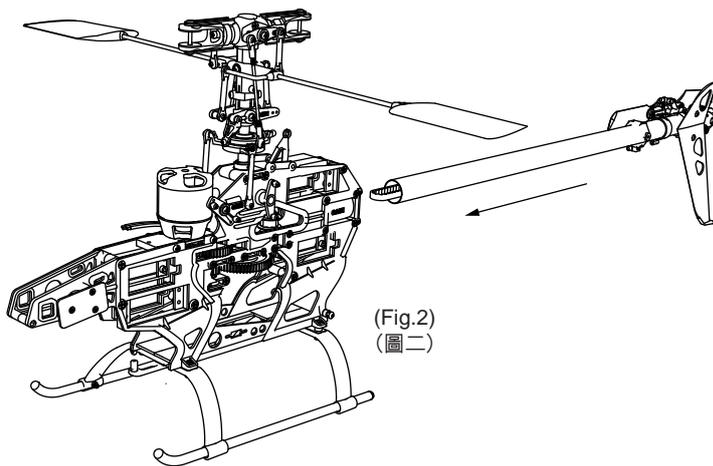
3. Hook the belt onto the pulley, set the belt tension properly and reighten the screws. (Fig.3)  
 皮帶扣上皮带輪後將尾管往後拉，調整適當緊度並鎖緊尾管夾螺絲。(圖三)

4. Install the main blades, the tail support pipes and the stabilizer fin, secure the tail support clamp. (Fig.4)  
 組合主旋翼，支撐桿及水平尾鰭並將尾管夾鎖緊。(圖四)

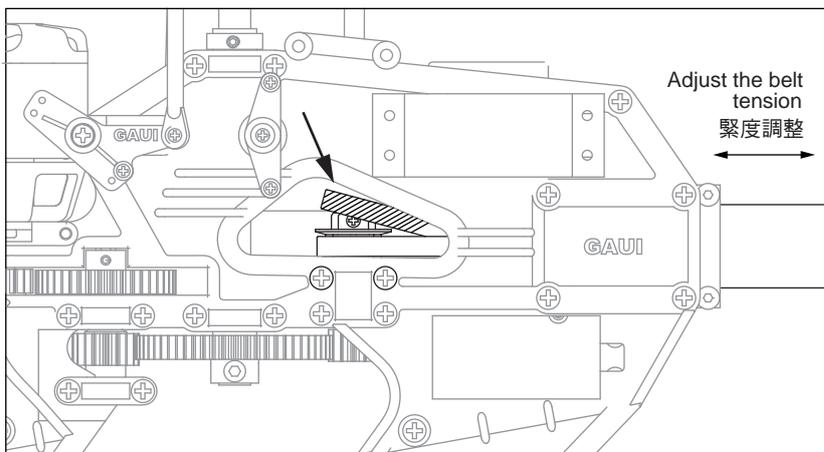
5. Assemble the canopy posts onto the frame. 鎖上艙罩支柱。



Front view (Fig.1)  
前視圖 (圖一)

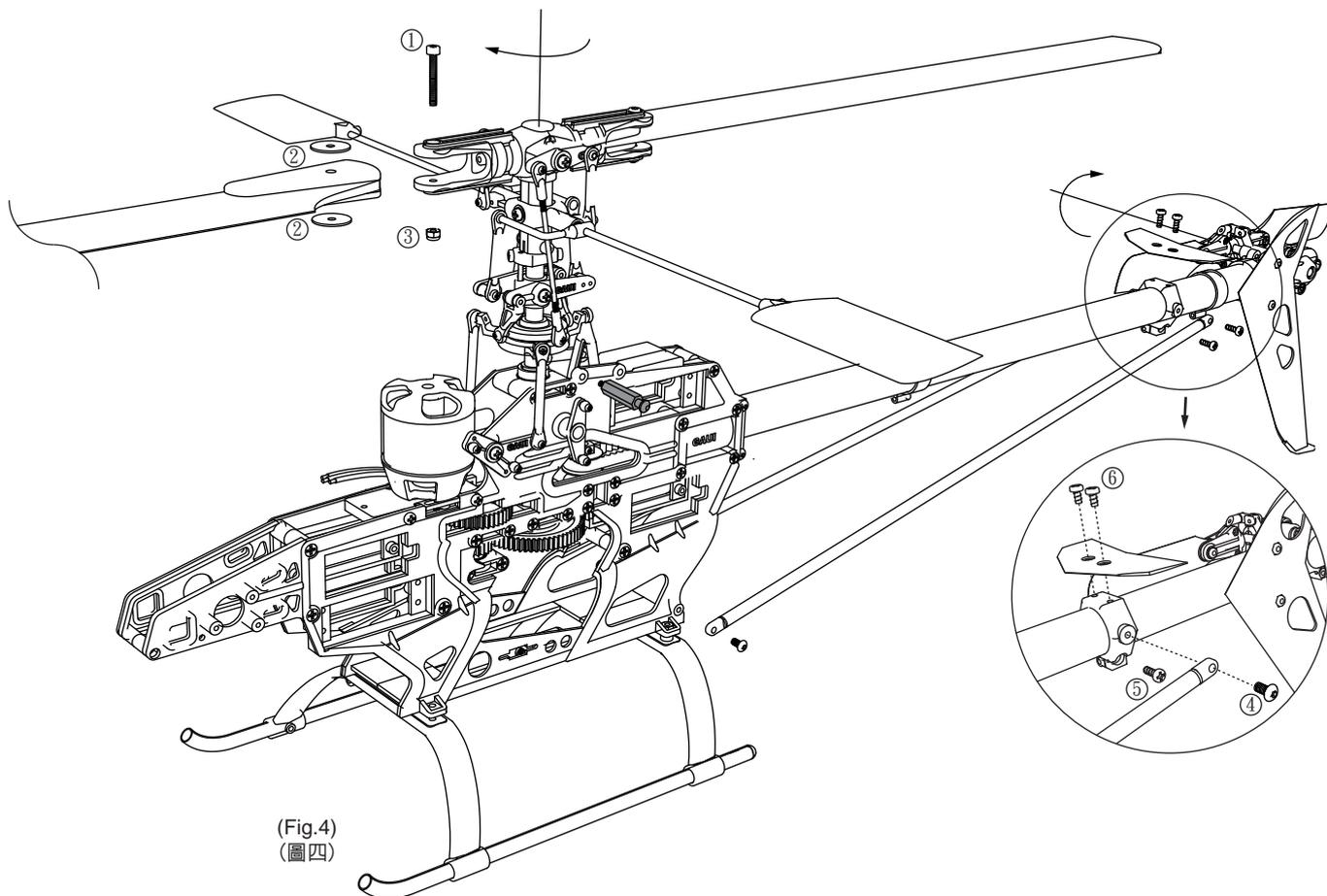


(Fig.2)  
(圖二)



(Fig.3)  
(圖三)

#A #204557	Tail Supporter Pipe 支撐桿
① M3X22	Machine Screw 公制螺絲
② W3X16X0.8	Washer 華司
③ N3X5.5L	Nut 螺母
④ M3X6	Machine Screw 公制螺絲
⑤ Ø3X8	Self tapping screws 粗牙螺絲
⑥ Ø3X3	Self tapping screws 粗牙螺絲



(Fig.4)  
(圖四)

**IMPORTANT 請注意**

Notic: With the servo at its neutral position, make sure the four control sticks are all in middle position, and the setting of CCPM SWASH AFR are all in 50%.

組裝伺服機時，需將遙控器設定為CCPM SWASH AFR都設定為50%並將遙控器開啟(全部保持中立位置)

**IMPORTANT 請注意**

Drill the holes on servo horn as figure above if using the parts of #204511 and #204514. Use the standard 180 degrees servo horn for the CNC parts #204612 and #204614. (No drilling necessary)

標準版的前舵片及後搖臂舵片有夾角設計為精確控制請自行鑽孔。(金屬舵片則無夾角設計)

1. Install the servo.(#204703 CF servo plates are suitable for small servo 35.5x15mm.) (Fig.1)  
先確認伺服機尺寸，標準的可直接鎖上，較小的(35.5x15mm)可利用轉接板來鎖。(圖一)

2. Install the servos and the linkages, the length of the linkage should be set as figure. (Fig.2 & 3)  
鎖上伺服機，調整推桿所需長度(每組需相同)再安裝。(圖二~圖三)

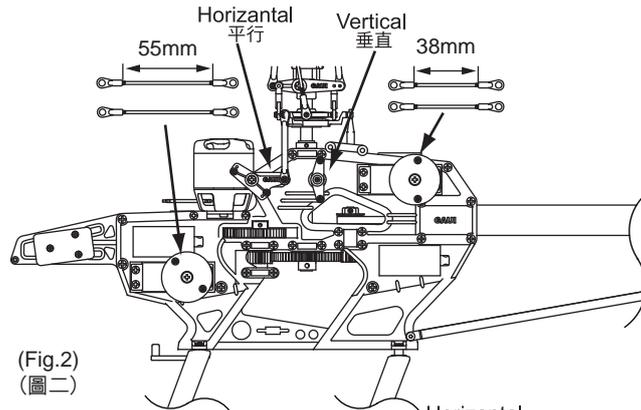
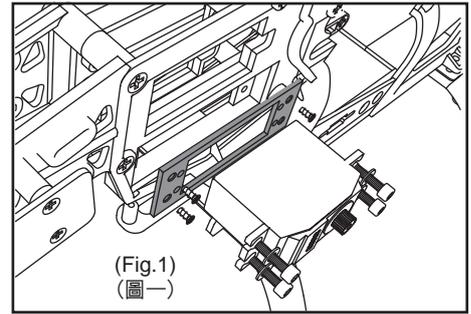
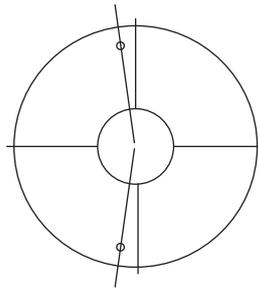
3. Install the rudder servo and the tail pushrod as shown in figure.(Fig.3)  
鎖上伺服機，校正如前，尾拉桿需穿過尾管夾及拉桿座。(圖三)

4. The tail pushrod should be parallel to the tail boom, use C/A to adhere rudder control guide onto tail boom.(Fig.4)  
尾拉桿組裝完成後需調整它呈一直線，無誤後上膠固定於尾管。(圖四)

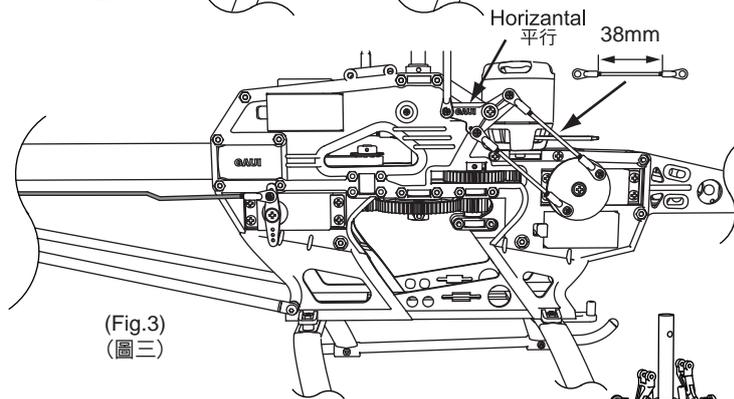
5. Use the double side tape to Install the gyro, receiver and the ESC as shown in Fig.5. (Make sure not to install the ESC on the receiver battery mount or in the canopy, the overheated ESC will cut off the motor power temporarily during flight.)

利用雙面膠將陀螺儀及接收機及ESC固定於機身如圖五。(勿將ESC安裝在此接收機電池架或置於艙罩內，散熱不良的ESC可能會在飛行中進入保護模式而暫時切斷馬達電源。)

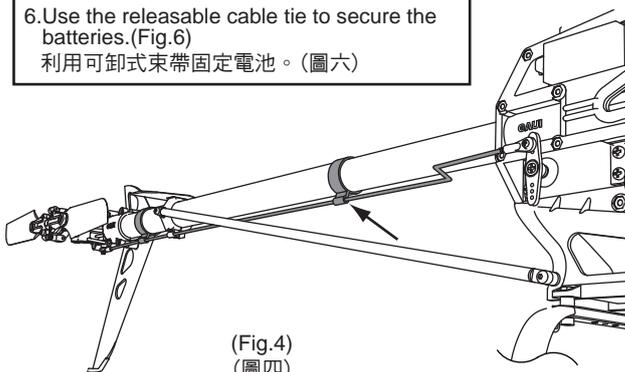
6. Use the releasable cable tie to secure the batteries.(Fig.6)  
利用可卸式束帶固定電池。(圖六)



(Fig.2)  
(圖二)



(Fig.3)  
(圖三)



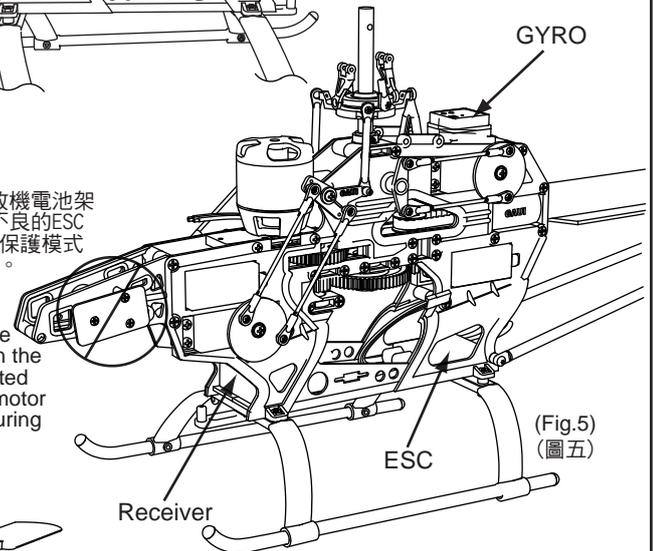
(Fig.4)  
(圖四)

**警告:**

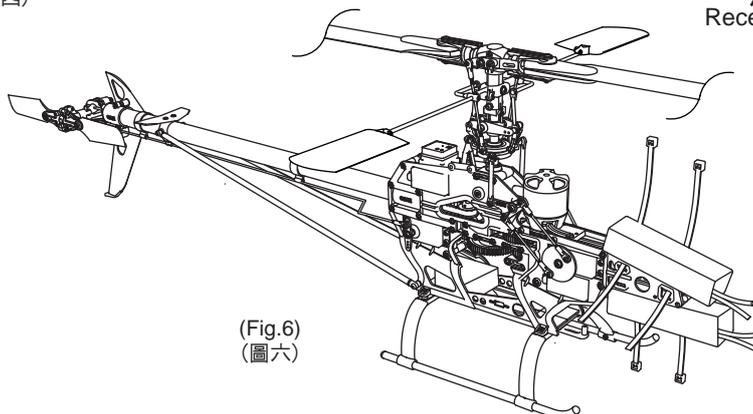
勿將ESC安裝在此接收機電池架或置於艙罩內，散熱不良的ESC可能會在飛行中進入保護模式而暫時切斷馬達電源。

**CAUTION:**

The ESC must not be installed here or in the canopy, the overheated ESC will cut off the motor power temporarily during flight.



(Fig.5)  
(圖五)



(Fig.6)  
(圖六)

## Initial setting position with 0 pitch degrees

此狀態為遙控器中立點設定 (pitch = 0)

The pushrod should be perpendicular to the mixing level.  
此時旋翼搖臂與拉桿成垂直。

The kit come with 50T Front Main Gear / 19T One Way Gear / 61T Rear Main Gear, The BL motor and Pinion gear are optional.

If using the BL-Motor (KV-1400) / 22.2V battery (or 11.1V\*2 = 22.2V), the maximum motor speed is around 31080rpm. (1400 \* 22.2 = 31080)

With the 14T pinion gear, the gear ratio is (61/19)X(50/14) = 11.47. the maximum head speed is 2710rpm. (31080 / 11.47 = 2710 approx.)

It is recommended to replace the 14T Pinion by 15T for Hard 3D. (The maximum head speed is 2905rpm)

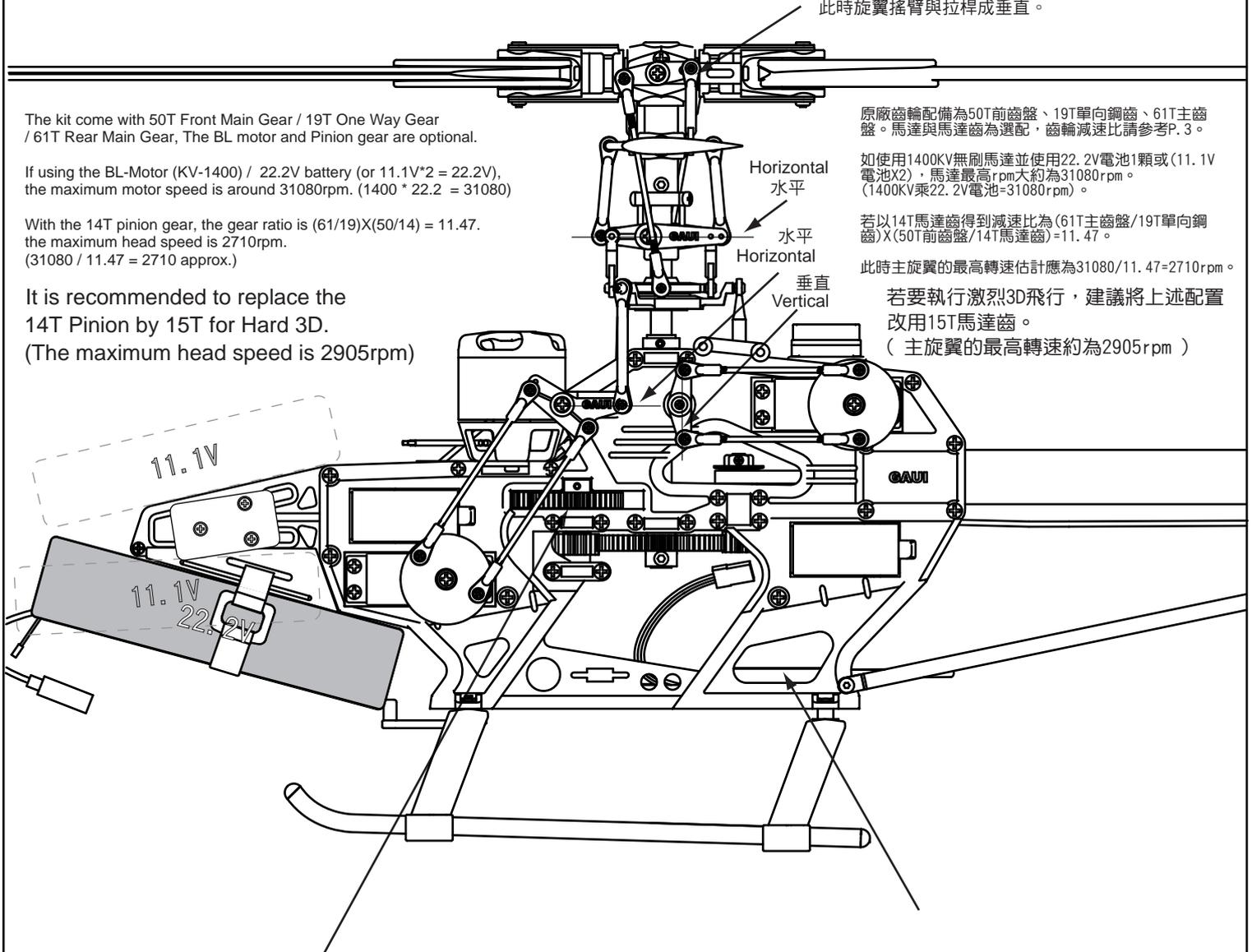
原廠齒輪配備為50T前齒盤、19T單向銅齒、61T主齒盤。馬達與馬達齒為選配，齒輪減速比請參考P. 3。

如使用1400KV無刷馬達並使用22.2V電池1顆或(11.1V電池X2)，馬達最高rpm大約為31080rpm。(1400KV乘22.2V電池=31080rpm)。

若以14T馬達齒得到減速比為(61T主齒盤/19T單向銅齒)X(50T前齒盤/14T馬達齒)=11.47。

此時主旋翼的最高轉速估計應為31080/11.47=2710rpm。

若要執行激烈3D飛行，建議將上述配置改用15T馬達齒。(主旋翼的最高轉速約為2905rpm)



The 50T gear is fitted for the 1400kv BL motor and the recommended battery, you may change the gear ratio if using the motor with different KV or using the battery with different voltage. (See page 3)

原廠使用之第一段前齒輪為50T，若因使用不同 KV 值的馬達或不同的電壓之電池而需要不同的減速比時，您可參考 P. 3 之更換組合。

The standard ESC output current is 60A(25V)with Built-in SBEC

原廠電子變速器規格為25V以下，持續輸出電流為60A(內建可調式SBEC的調速器)。

### Initial pitch setting: 螺距設定參考：

Pitch Stick	100%	50%	0%
Normal	8°	3°	-3°
Idle	12°	0°	-12°

### IMPORTANT 請注意

The standard tail blades 69mm(#204757) is suitable for the maximum head speed which is more than 2600 RPM.

Use the optional 79mm tail blades(#204755) if the maximum head speed is less than 2600 RPM.

原廠內附69mm尾旋翼片(#204757)適用於主旋翼最高轉速高於2600rpm之配置。

主旋翼最高轉速若設定低於2600rpm，請選用79mm尾旋翼片(#204755)。

Product Function

Battery Management

There is a built-in Battery Management function in the speed controller. The power cut off timing is based on the cell number and continuous current drains of the battery. There are two options defined in the battery management, one is for Li-Polymer batteries and another for using with NiMH battery. The battery management allows you to protect your batteries from over discharge and moreover to extend the lifetime of your batteries.

Motor Timing

The Motor Timing offers you four options in this function that allows you to maximize the performance of your motor output. You could choose from auto/soft/standard/hard to fit with different brushless motors.

Higher timing offers more power output at the expense of efficiency. Please check the current draw after changing the timing option in order to prevent overloading of battery.

Set Up Procedure

Important : Due to the signal differentiation amount different remote control brands, it is strongly recommended to run the throttle curve initiation process whenever set up a new model.

Step 1. Shifting the throttle position to the full throttle/full speed.

Step 2. Power on the transmitter

Step 3. Power on the speed controller, the motor will come up with acknowledge tones ♪-♪-♪-♪-♪-♪-♪

Step 4. Moving the throttle position to the minimum/stop position, the motor will come up with acknowledge tones ♪-♪-♪-♪-♪

The speed controller recognized the exactly throttle range then optimizes the throttle curve after this progress. When finish the calibrating process, you could simply shutdown the power to leave the other settings unchanged. If not, simply waiting for 1 second. The speed controller will enter the set up mode.

1. Battery Management

- 1-1 Light discharge protection for Li-Po - - - - - ♪-♪-♪-♪-♪
- 1-2 Standard discharge protection for Li-Po (Factory Default) - - - - - ♪-♪-♪-♪-♪
- 1-3 Hard discharge protection for Li-Po - - - - - ♪-♪-♪-♪-♪
- 1-4 +5V cut-off protection for Ni-MH - - - - - ♪-♪-♪-♪-♪

The first section of setup is battery management. This section offers 4 options for using with either NiMH or Li-Polymer battery. The motor will come up the corresponding tones as indicator. When intending to choose one of above options, simply push throttle stick from minimum/stop to maximum / full throttle after the indication tone, then pull throttle stick back to the minimum/stop position to confirm after the acknowledge tone. You could simply shut down the power if you don't need any further settings. If you want to skip this section and leave current setting unchanged, just keep throttle stick in minimum position and wait the speed controller to enter next section.

3. Motor timing

- 3-1 Auto timing - - - - - ♪-♪-♪-♪-♪
- 3-2 Soft timing - - - - - ♪-♪-♪-♪-♪
- 3-3 Standard timing (Factory Default) - - - - - ♪-♪-♪-♪-♪
- 3-4 Hard timing - - - - - ♪-♪-♪-♪-♪

Following by flying mode, the system enters fuzzy motor timing set up section. In this section the system offers 4 options. The motor will come up the corresponding tones as indicator. When intending to choose one of above options, simply push throttle stick from minimum/stop to maximum/full throttle after the indication tone, then pull throttle stick back to the minimum/stop position to confirm after the acknowledge tone. You could simply shut down the power if you don't need any further settings. If you want to skip this section and leave current setting unchanged, just keep throttle stick in minimum position and wait the speed controller to enter next section.

5. Switching BEC Voltage Setting

- 5-1 SBEC Output Voltage = 5.0V- - - - - ♪-♪-♪-♪-♪
- 5-2 SBEC Output Voltage = 5.25V- - - - - ♪-♪-♪-♪-♪
- 5-3 SBEC Output Voltage = 5.5V(Factory Default)- - - - - ♪-♪-♪-♪-♪
- 5-4 SBEC Output Voltage = 5.75V - - - - - ♪-♪-♪-♪-♪
- 5-5 SBEC Output Voltage = 6.0V- - - - - ♪-♪-♪-♪-♪  
(Only for the ESC with built-in SBEC)

Following by the throttle speed, the system will enter SBEC output voltage setting. This section offers 5 options. The motor will come up the corresponding tones as indicator. When intend to choose one of above options, simply position the throttle stick from minimum to maximum after the indication tone. The next step is to position the throttle stick back to the minimum position to confirm. Then you could simply shut down the power. The selection was stored into the microprocessor when the throttle stick was in confirmation position. The controller is now ready to fly.

Flying Mode

The flying mode function offers you four options for different aircrafts. You could choose from Aircraft, Glider, Helicopter with governor and Helicopter without governor.

Throttle Speed

The throttle speed function offers you different throttle response time for different set up in different occasions. It could be an ideal function while driving different cars in different courses.

The faster throttle response time will offer you quick and sensitive throttle feedback.

Switching BEC Voltage (Built-in SBEC ESC Only)

The SBEC voltage offers you different BEC voltage output. You could choose from 5.0V, 5.25V, 5.5V, 5.75V and 6.0V output for your servo.

2. Flying mode setting

- 2-1 Aircraft - - - - - ♪-♪-♪-♪-♪
- 2-2 Glider - - - - - ♪-♪-♪-♪-♪
- 2-3 Helicopter with Governor - - - - - ♪-♪-♪-♪-♪
- 2-4 Helicopter without Governor (Factory Default) - - - - - ♪-♪-♪-♪-♪

The following section is flying mode setting. This section offers 4 options. The motor will come up the corresponding tones as indicator. When intending to choose one of above options, simply push throttle stick from minimum/stop to maximum/full throttle after the indication tone, then pull throttle stick back to the minimum/stop position to confirm after the acknowledge tone. You could simply shut down the power if you don't need any further settings. If you want to skip this section and leave current setting unchanged, just keep throttle stick in minimum position and wait the speed controller to enter next section. The transmitter throttle curve must be set over than 80% if you choose the option of helicopter with governor mode.

4. Throttle Speed

- 4-1 Soft throttle response - - - - - ♪-♪-♪-♪-♪
- 4-2 Standard throttle response (Factory Default) - - - - - ♪-♪-♪-♪-♪
- 4-3 Fast throttle response - - - - - ♪-♪-♪-♪-♪

Following by the motor timing, the system will enter throttle speed setting. This section offers 3 options. The motor will come up the corresponding tones as indicator. When intend to choose one of above options, simply position the throttle stick from minimum to maximum after the indication tone. The next step is to position the throttle stick back to the minimum position to confirm. If there is no need to enter next set up section, you could simply shut down the power. The selection was stored into the microprocessor when the throttle stick was in confirmation position. If there is need to enter flying mode section, simply wait for the next tone.

6. Cut off Voltage of Battery Management

- 1. Li-Polymer light discharge : voltage @ 3.2V (Soft Cut)
- 2. Li-Polymer standard discharge (Factory Default) : voltage @ 2.9V (Soft Cut)
- 3. NiMH battery : +5.0 volt cut off
- 4. Li-Polymer hard discharge : voltage @ 2.6V (Soft Cut)

This section gives you the cut off voltage of battery management. Technically the power cut off timing was based on the cell number and continuous current drains of the battery. The speed controller will calculate the timing and cut the power off softly. Because the last stage of each battery discharge cycle has quick voltage drop, such function will provide a safe process during the operation. When the single cell reaches the low point, the motor will be forced to lower the RPM by microprocessor. To regain the power, the user needs to adjust the throttle stick to the "stop" position until the battery voltage comes back to the safe level.

**Caution!!** High power motor systems could be very dangerous. High current could generate heat on wires, batteries, and motors.

Always follow the instruction and use proper tools to set up the system within safe range. Always fly at a designed field with caution even though this controller is equipped with safety arming program.

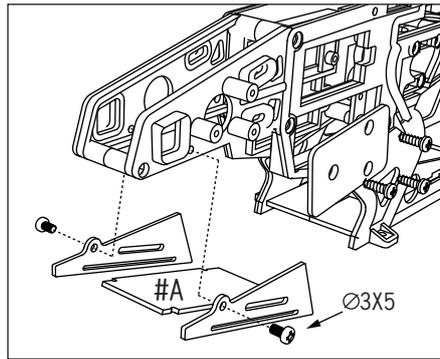


**IMPORTANT 請注意**

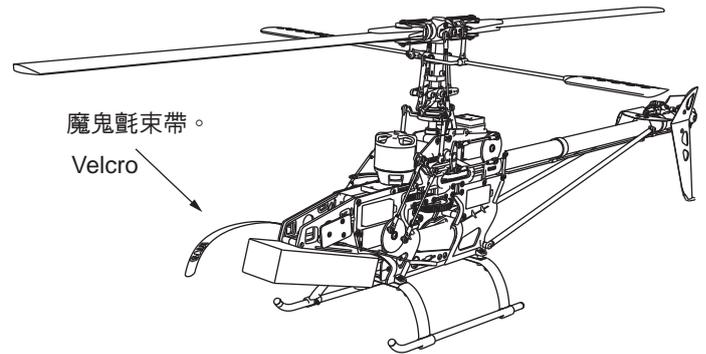
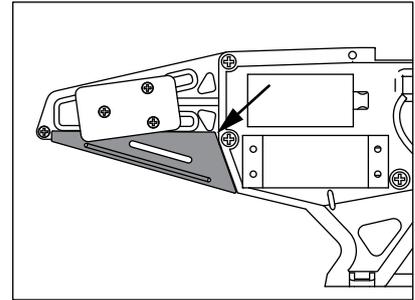
Disassemble the RX Battery mount, assemble the #A mount and use C.A to glue it onto main frame.

Assemble the RX Battery mount and use the Velcro to secure the battery.

請先將接收機電池架卸下，並將#A電池架組裝完成再將接收機電池架鎖回並將機身與#A電池架接合處上膠。  
利用魔鬼氈束帶穿過電池架固定電池。



Use C.A to glue it onto main frame.  
請在電池架與機身接合處上膠。



**IMPORTANT 請注意**

The edge of the left half of canopy is raised, and the edge of the right half of canopy is concave.  
(Fig 1)

黏合艙罩泡殼時請先注意。(圖一)  
泡殼左邊邊緣外凸緣，  
泡殼右邊邊緣內凹緣，

1. Cut the right half of canopy and there should be a 2mm concave edge as shown in fig.2.

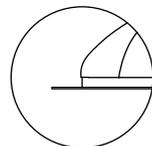
1. 請沿右艙罩邊緣剪下並留下右艙罩邊緣內凹緣約2mm。(圖二)

2. Cut off the right half of canopy and make sure to cut off the raised edge as shown in fig.3.

2. 請沿著左艙罩外凸緣與艙罩的相接處將外凸緣小心剪下。(圖三)

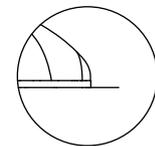
3. Use C.A. to glue both halves by the order 1 to 4. Install the dampers.

3. 請將左艙罩嵌合至右艙罩凹緣處並由尖頭處依順序以瞬間膠小心黏合，黏合完成後再修整不平整處。在將艙罩橡皮環裝上(圖四)



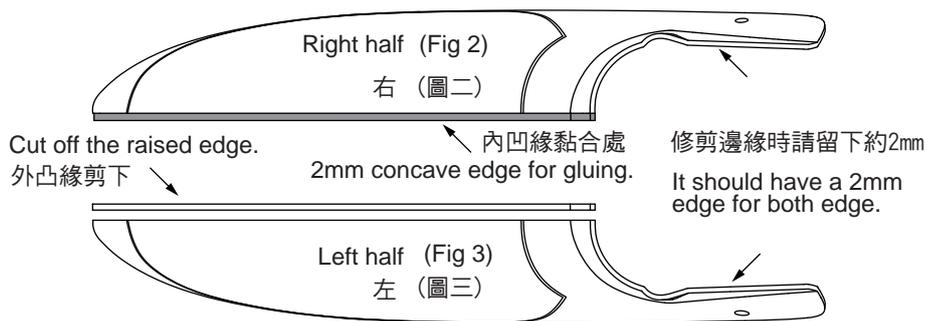
泡殼右邊邊緣內凹

The edge of the Right half is raised.

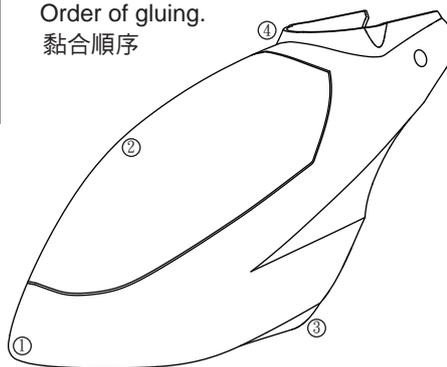


泡殼左邊邊緣外凸

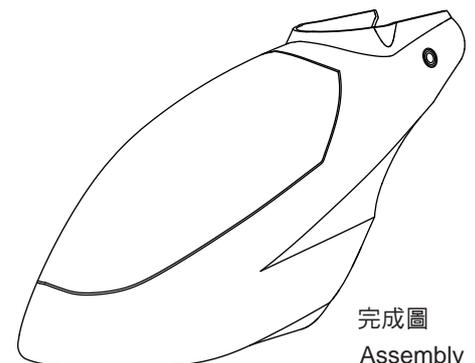
The edge of the Left half is concave.



Order of gluing.  
黏合順序



(圖四) (Fig 4)



完成圖  
Assembly

204500	Ultimate Performance Upgrade kit	性能提升配件組
204534	Flybar Paddles Set	平衡翼
204583	8mm Steel One Way Gear Ass'y(20T)	8mm單向齒輪(20T)
204584	Pulley Shaft with Steel Gear(15T)	皮帶齒軸附鋼齒(15T)
204612	CNC Pitch & Roll Arm Set	CNC前搖臂
204614	CNC Elevator Lever	CNC後搖臂舵片
204623	Torque Tube Front Drive Gear Set(for H425~H550)	尾前傳動齒輪組(H425-H550用)
204624	Torque Tube Rear Drive Gear Set(for H425~H550)	尾後傳動齒輪組(H425-H550用)
204625	Torque Tube Bearing Holder Set(for H425~H550)	尾傳動軸承墊圈組(H425-H550用)
204626	Torque Tube Drive Gear Set(for H425~H550)	尾軸傳動齒輪包(H425-H550用)
204627	Torque Tube Front Drive Gear Assw'bly(for H425~H550)	尾軸傳動前齒輪箱組(H425-H550用)
204628	CNC Main Rotor Yoke Set	CNC旋翼頭組
204629	CNC Main Grip Set	CNC主旋翼夾頭
204630	CNC Main Grip Lever Set	CNC主旋翼夾頭舵柄
204632	CNC Mixing Lever Set	CNC旋翼搖臂
204635	CNC Washout Guide Assembly	CNC定位器
204637	CNC Washout Arm Assembly	CNC剪形臂
204640	CNC Tail Pitch Slider Set(for 5mm tail output shaft)	CNC螃蟹夾組(5mm尾軸用)
204641	CNC Seesaw Set	CNC平衡桿座
204642	CNC Tail Torque Tube Unit(for H425~H550)	CNC尾軸傳齒箱組(H425-H550用)
204643	CNC Tail Belt Unit(for H425~H550)	CNC尾軸傳齒箱組(H425-H550用)
204650	CNC Tail Rotor Grips with Thrust Bearings (for 5mm tail output shaft)	CNC尾旋翼夾頭附止推軸承(5mm尾軸用)
204655	CNC Tail Pushrod Conversion(for H425~H550)	尾拉桿轉接座(H425-H550用)
204675	CNC Stop Plate	CNC煞車盤
204676	CNC Main Rotor Yoke	CNC旋翼頭
204678	CNC Washout Base	CNC剪形臂座
204679	CNC Stabilizer Control Set	CNC平衡翼控制組
204680	CNC Main Rotor Head Ass'y ( with Swashplate & Guide)	CNC旋翼頭總成(附十字盤及滑軌)
204681	FES 2Blade Rotor Head Ass'y(for 425~550 class 8mm Mast)	FES 兩槳旋翼頭總成(425級-550級8mm主軸用)
204682	FES 2Blade Rotor Head Ass'y and Upper Swashplate Lock (for 425~550 class 8mm Mast)	FES 兩槳旋翼頭總成及相位器組 (425級-550級8mm主軸用)
204683	FES 2Blade System full conversion set (for 425~550 class 8mm Mast)	FES 兩槳無平衡桿系統全套改裝包 (425級-550級8mm主軸用)
204706	FES Main Grip Lever Extension Set(for 425~550 class Grips)	FES 主旋翼夾頭舵柄延伸桿組(425級-550級夾頭用)
204707	FES Upper Swashplate Lock Ass'y(for 425~550 class 8mm Mast)	FES 可調式相位器(425級-550級8mm主軸用)
204755	H425 Tail Rotor Blade Set(79mm)	颶風 425尾旋翼(79mm)
204757	H425 Tail Rotor Blade Set(69mm)	颶風 425尾旋翼(69mm)
852020	Gold Plated Connectors (1.8mm) with Heat Shrink Tubing	馬達用24K金接頭附熱縮套(1.8mm)
855501	(GUEC GM-501)Brushless Motor(1000W-kv850)	(GUEC GM-501)無刷馬達(1000W-kv850)
855504	(GUEC GM-504)Brushless Motor(1200W-kv1400)	(GUEC GM-504)無刷馬達(1200W-kv1400)
901301	Steel Pinion Gear Pack(13T- for 5.0mm shaft)	鋼製馬達齒13T(孔徑5.0mm)
901501	Steel Pinion Gear Pack(15T- for 5.0mm shaft)	鋼製馬達齒15T(孔徑5.0mm)
901601	Steel Pinion Gear Pack(16T- for 5.0mm shaft)	鋼製馬達齒16T(孔徑5.0mm)
924365	(GUEC GU-365) Flybarless E-Stabilizer(FES)	GUEC GU-365) FES 無平衡桿電子式穩定系統

**More Upgrade & Replacement Parts : [http://www.gauicom.tw/html-en/products/425\\_550\\_parts.htm](http://www.gauicom.tw/html-en/products/425_550_parts.htm)**

如需更多零件資料請見以下網址 : [http://www.gauicom.tw/html/products/425\\_550\\_parts.htm](http://www.gauicom.tw/html/products/425_550_parts.htm)

Please refer to the website or contact us for the latest news of GAUI products, the contents or equipments of the real products might be changed and different with the manual.

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# Hurricane 425

**TSHobby GAUI**

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