

1

**螺絲均需上止滑劑
All Screws should be applied with thread lock.**

Insert the bearing into the motor shaft bearing mount, then assemble the bearing mount together with the reinforced plates.
將軸承置入馬達軸心座後連同機身強化板左右一起組裝，調整馬達齒隙為0.1mm後再將螺絲鎖緊M3x8。

M3x4

M3x6

Frame post(26.4mm)
圓鋁柱(26.4mm)

Fix the M3x20 screw (don't tighten the screw yet), wait until the tail set is assembled 14, then tighten the screw.
合上M3x20螺絲，待14組裝完成後在鎖緊螺絲。

M3x12

M3x5

M3x20

∅3x12

M3x4

M3x6

M3x4

M3x8

M3x5

M3x5

2

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Frame post(26.4mm)
圓鋁柱(26.4mm)

M3x25

M2x4

M3x5

M2.6x6

M3x10

M3x3

3

Install the tail control guide to the tail boom.
將拉桿夾座套入尾管。

Tail boom
尾管

290mm

220mm

210mm

4

Insert the bearing into the bearing holder and apply CA glue to fix it, pay attention to the direction of the holder.
將軸承置入軸心固定座並點上瞬間膠，並注意組裝方向。

When torque tube assembly is done, install the torque tube to the tail boom.
組裝完成後將傳動軸心置入尾管內。

Assemble the bearing and bearing holder, then install it on the torque tube, apply CA glue to fix it. Confirm the distance is as illustrated.
將尾傳動軸心套入尾管傳動軸心座並以瞬間膠或缺膠膠固定，確認距離與上圖相同。

280mm

280mm

280mm

M2x12

N2x4L

傳動軸桿頭
Torque tube head

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**螺絲均需上止滑劑
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Tail rotor control arm mount
尾舵柄座

Tail rotor control arm
雙推尾舵

Notice: Fix the tail rotor control arm with M3x5 screw.
請注意：鎖附尾舵柄座時需使用M3x5螺絲。

When assembling tail rotor control arm together with tail pitch slider 8, assemble together with tail pitch slider 8.
組裝雙推尾舵M3x5螺絲時請配合8組裝。

M3x5

B3x7x2

M3x6

W3.1x4.6x1

P2.5x5.8

M2x2

8

Tail pitch slider
雙推螺絲夾座

Apply grease
一般潤滑油

Tail rotor control arm
舵柄

Short ball head screw
短球頭

If the tail pitch slider can not move smoothly, adjust the M3x5 screw on tail control arm mount.
置入雙推螺絲夾座後如作動不順暢，請重新調整雙推尾舵的M3x5螺絲。

M3x3

B8x12x3.5

M2x5

P2x13

5

14T front bevel gear
14T前傳動傘齒輪

Front bevel gear fixing pin
前傘齒輪定位銷

B12x18x4

B12x18x4

Insert the fixing pin (4.5mm side) into the 14T front bevel gear.
將前傘齒輪定位銷4.5mm處壓入14T前傘齒輪至底。

6

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Install the tail bevel gear into the tail gear case, and assemble the tail out shaft.
將尾傳動傘齒輪置入尾殼總成內並組裝尾軸。

Insert the P2x10 pin into tail driven bevel gear, fix it with M3x3 socket set screw.
將P2x10置入尾軸傘齒輪並以M3x3止付螺絲固定。

One-piece design tail gear case.
一體式尾殼

20T tail bevel gear
20T尾傘齒輪

20T tail driven bevel gear
20T尾傳動傘齒輪

Confirm the tail gear case is fixed by fixing the M3x6 screw into the aligning hole.
將M3x6螺絲鎖入尾殼時請確認尾管定位孔鎖附位置相同。

Aligning hole
定位孔

B12x21x5

B12x18x4

B6x13x5

M3x6

M3x6

M3x6

M3x6

P2x12

9

Apply thrust bearing grease
止推軸承專用油

Do not over tighten the N4x7L screw, make sure the tail rotor head work smoothly.
鎖緊N4x7L螺絲時勿過分鎖緊需保持機構順暢。

Tail blade grip
尾旋翼夾頭

Do not over tighten the M2x10 screw.
鎖緊M2x10螺絲時不可過份鎖緊。

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N4x7L

B5x10x4

W5.1x7x0.7

T5x10x4

B5x10x4

M4x4

M2x10

10

Countersunk Washer
螺絲墊片

Tail vertical stabilizer
垂直尾翼

Put the N3x5.5L nylon lock nut inside the aligning hole, then fix the M3x16 screw.
將N3x5.5L螺絲墊片放入尾旋翼夾頭凹槽內再鎖上M3x16螺絲。

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N3x5.5L

M3x16

N3x5.5L

M3x10

M3x25

Fix it with M3x25 screw.
適當鎖緊M3x25螺絲。

Notice: When head speed is below 2300rpm, use 105mm tail blades.
請注意：當主旋翼轉速低於2300rpm時，建議使用105mm尾旋翼。
當主旋翼轉速高於2300rpm時，建議使用95mm尾旋翼。

11

ATTENTION: Very Important!
Use a stick as a tool, squeeze the grease into the bearing, make sure the needles of the one-way bearing is completely surrounded with grease.
請注意: 非常重要!
使用圓棒將單向軸承油, 完全擠入針腳隙縫內, 使單向軸承完全填滿單向軸承油。

66T crown gear 66T上齒盤
Crown gear hub with one way sleeve 上齒盤軸殼含單向鋼套
Main gear hub 主齒盤軸殼
100T main gear 100T主齒盤
W15.1x18x0.1
M3x6
M3x8
One-way steel collar 單向鋼套襯套

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- One should use proper washers of different thickness on top & bottom of the Main Gear assembly (indicated by the arrows).
- When assembly is completed, one must double check again, that the 66T crown gear & 14T tail transmission gear mesh is properly adjusted, main gear assembly has no gap on top & bottom.

1. 將適當的華司組裝至主齒盤上下方。
2. 組裝完成後請再次確認, 66T齒盤與14T尾傳動齒咬合順暢, 主齒盤上下無間隙。

12

Use W12.1x17x1.2 washer for assembling the main gear. Adjust for adequate gear mesh about 0.1mm, if not enough gear mesh, use W12.1x17x0.2 or W12.1x17x0.3 washers.
組裝主齒盤時請使用W12.1x17x1.2。如齒輪間隙不足可使用W12.1x17x0.2或W12.1x17x0.3適當調整齒輪間隙約0.1mm。

W12.1x17x0.2
W12.1x17x0.3
W12.1x17x1.2
N4x7
M4x23

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15

Tail control guide 尾拉桿夾座
Ball link 尾拉桿頭
Ball link 尾拉桿頭
187mm
200mm
185mm
Stainless sliding sleeve 不銹鋼滑套
Aluminum sheath for push rod 拉桿鋁套
Insert the stainless sliding sleeves on the push rod and adjust its distance as illustrated, then apply CA glue for fixing it. 將不銹鋼滑套套入尾拉桿內並調整其間距如圖所示後使用瞬間膠黏合。

Fix the aluminum sheath on the top of the push rod by applying CA glue on it. Install and tighten the ball link for push rod. 使用瞬間膠將拉桿鋁套固定於拉桿頂端處, 鎖上尾端的尾拉桿頭。

16

M4x4
M4x8
M3x8
28.9mm
Motor mount 馬達座
Heat sink mounting block 散熱片固定座

After assembling the motor set, adjust the M4x8 screw for making the gear mesh about 0.1mm.
組裝完成後可調整M4x8螺絲使齒輪間隙為0.1mm。

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13

Please use AB glue to glue together the support pipe and affixing head.
請使用環氧樹脂接著劑(AB膠)將支撐桿與支撐桿頭黏合。

N2x4L
M2x14
P3x6x4.2
M3x14

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14

螺絲均需上止滑劑
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After adjusting the gear mesh as illustrated in 12, confirm the vertical stabilizer is perpendicular to the main fuselage, then tighten the M3x8 fixing screw and M3x20 screws illustrated in 14.
請調整好12齒輪間隙後並確認垂直尾翼與機身同垂直再將尾管定位螺絲M3x8鎖入, 並鎖緊14 M3x20螺絲。

M3x6
Countersunk washer 螺絲墊片
Tail fin 水平尾翼
Tail Support Clamp 水平翼固定座

M3x8
W4.2x8x0.4
M4x8
M3x10

17

After confirming the gear mesh, install the motor set to the main fuselage. Countersunk Washers. 確認齒輪間隙為0.1mm後將馬達組總成組裝機身。

Assemble 2 sets of heat sink. 組裝2片散熱片。
M3x6
M3x8
M3x8

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18

Swashplate upper cap 十字盤上蓋
Rod end bearing 關節軸承(12x22x13.15)
Swashplate inner plate 十字盤內盤
Swashplate outer plate 十字盤外盤
M2x3
M2x3
M2x3
Balls M3x4.8x7.5
Balls M3x4.8x25.5
M2x4
B30x42x7
M2x10
M3x10

Fix the M2x3 screws on the swashplate lock, do not screw over the surface of the lock. 將十字盤鎖(順時針鎖入)十字內盤。
Fix the lock into the swashplate (clockwise). 將十字盤鎖(順時針鎖入)十字內盤。
Tighten the lock clockwise. 順時針將十字盤鎖鎖入。
The swashplate is preassembled in the factory, if you need to repair it, you can buy #66167 wrench. 十字盤總成為廠內預裝成件, 如需維修可選購#66167扳手。
Confirm the swashplate spins smoothly while tighten the M3x10 screw. 鎖緊M3x10螺絲時請確認十字盤旋轉順暢。

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Bearing 10x19x5
Thrust Bearing 10x18x5.5
Washer 10.2x16x1
Washer 10.2x16x1
Bearing 10x19x5

Smaller inner race 內徑較小 (S)
Bigger inner race 內徑較大 (L)

20

Remove your original main blade grips and re-install on the new rotor head (Formula). 將您原本的主旋翼夾頭卸下並組裝至旋翼頭上。

橫軸 Spindle Shafts
Washer 10.2x16x1
Washer 5x13x2
M5x12
M3x6
M3x10
Washer 10.2x16x1
Washer 5x13x2
M5x12
M4x8
F Bearing 5x16x5
F Bearing 5x16x5
M3x6
橫軸橡皮墊 Rubber damper 60°.75°.85°.95°

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M3x6

www Version
CN版本
伺服器組裝注意事項
Servo Setting and Adjustment

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Bearing Ptube 3x8x3 3x5x5.1
M3x18
M3x12
Bearing 3x8x3
Washer 3x5x1.1
Bearing 3x8x3
Nut 4x7
M4x23
M3x10
M3x12

主軸 Main Mast $\varnothing 12 \times 198\text{mm}$

22

Build the two pitch control linkage rods and install on rotor head. 製作兩組主旋翼拉桿組裝至旋翼頭上。

69 mm
52 mm
Confirm the angle of 90° 確認夾角90°

23

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