



Specifications

Overall Length : 1195 mm

Main Rotation Diameter: 1301 ~ 1337 mm

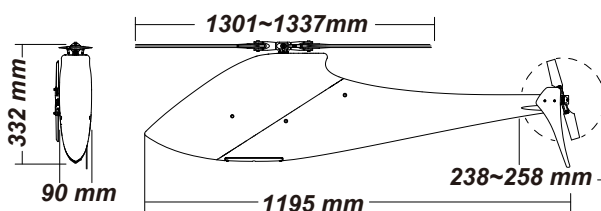
Main blade length: 580 ~ 598 mm

Overall Height: 332 mm

Overall Width: 90 mm

Tail Blade Length: 82 ~ 95 mm

Tail Rotation Diameter: 238 ~ 258 mm



Power system (recommended):

ESC: Recommended 160A ESC

LiPo battery: max size: 340 x 46 x 48 mm

Motor: 500KV ~ 540KV

Total weight: 2100g ±3% (kit only, not including electronics, main blades, tail blades)

We recommend downloading and using the latest manual from Official **GAUI** website's download area. This product is for a radio controlled (RC) helicopter. Improper operation, maintenance or assembly can potentially cause a RC helicopter to pose a danger to persons or objects including but not limited to the possibility of causing serious physical injury and even death.

Preface / Liability Disclaimer

前言/免責聲明

Academy of Model Aeronautics (AMA)

Main structure assembly

主體結構組裝 P.1

Rotor head assembly

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電子裝備組裝 P.20

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Main body assembly

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Vertical stabilizer assembly

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Main body & Landing plate assembly

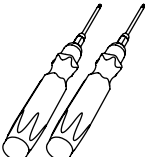
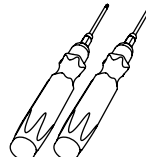
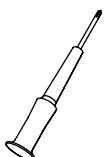

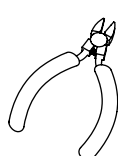
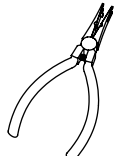



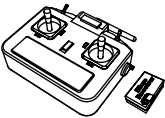
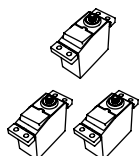

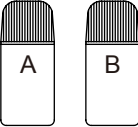
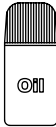
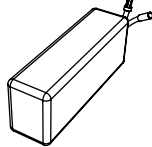
機殼腳板組裝 P.37

Front body assembly

機殼前罩組裝 P.39

Parts list

零件表 P.41

<p>1.5mm & 2mm</p>  <p>Hexagon screwdriver 六角螺絲起子</p>	<p>2.5mm & 3mm</p>  <p>Hexagon screwdriver 六角螺絲起子</p>	 <p>Phillips screwdriver 十字螺絲起子</p>
 <p>Needle-nosed pliers 尖嘴鉗</p>	 <p>Diagonal cutting plier 斜口鉗</p>	 <p>Ball Link Plier 拔豆鉗</p>
 <p>Scissors 剪刀</p>	 <p>High Strength Tape 高韌性強力黏著膠帶</p>	 <p>FBL system 陀螺儀</p>
 <p>Transmitter & Receiver (6 channel +) 六動以上接收機&發射機</p>	 <p>CCPM Mini servo x3pcs CCPM伺服機x3個</p>	 <p>Tail Specialized Servo x1 pc 尾舵伺服機x1個</p>
 <p>AB glue AB黏著劑</p>	 <p>Lubricant one-way bearing grease 潤滑油 / 單向軸承油</p>	 <p>鋰聚電池可容許尺寸: 340x46x48mm</p>



Apply lubricant
依個人需求使用潤滑油。



Apply general thread lock.
一般型止鬆劑



Apply AB glue
使用AB黏著劑



Apply general thread lock.
Tighten screw and apply
thread lock.
一般型止鬆劑
鎖緊螺絲並確認上膠



Apply anaerobic adhesive.
使用特殊型缺氧膠。

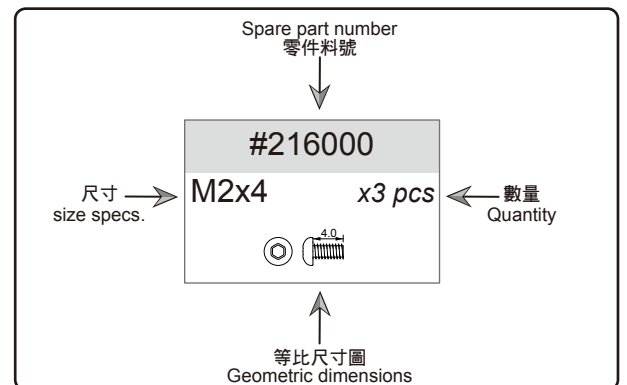
1

Assembly package
組裝對應包裝袋碼

Abbreviation:
名稱簡寫:
B: Bearings 軸承
T: Thrust Bearings 止推軸承
F: Flange Bearings 法蘭軸承
W: Washer 華司
P: Posts.Pin 插銷,襯套

5 #000000

代碼 Code 零件料號 Spare Part Number



Thank you for purchasing GAUI RC Helicopter 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 **GAUI** 飛行器，我們希望您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 RC Helicopter is not a toy.

警告：這台遙控飛行器不是玩具。

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 TSH distributor.

Before you proceed to RC Helicopter 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) Helicopter.

Improper operation, maintenance or assembly can potentially cause a RC Helicopter 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 Helicopter.

Under no circumstance should a minor be allowed to operate this RC Helicopter 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 Helicopter 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 Helicopter 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 RC Helicopter assumes all responsibility and liability that result from the correct or incorrect operation of the RC Helicopter.

免責聲明

本產品是無線遙控的飛行器。

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飛行器。

We recommend downloading and using the latest manual from Official GAUI website's download area.

This product is for a radio controlled (RC) helicopter. Improper operation, maintenance or assembly can potentially cause a RC helicopter to pose a danger to persons or objects including but not limited to the possibility of causing serious physical injury and even death.

我們建議您從 GAUI 官方網站的下載區下載，並使用最新的手冊。

本產品是無線遙控的直升機，不當的操作，保養或是組裝有可能導致遙控直升機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。

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>

Partially reprinted rules that are especially pertinent for Radio Controlled flight:

RADIO CONTROL

1. All pilots shall avoid flying models over unprotected people.
2. I will complete a successful radio equipment ground-range check in accordance with the manufacturer's recommendations before the first flight of a new or repaired aircraft.
3. At all flying sites a safety line or lines must be established, in front of which all flying takes place.
Only personnel associated with flying the model aircraft are allowed at or in front of the safety line. In the case of air shows or demonstrations a straight safety line must be established.
An area away from the safety line must be maintained for spectators. Intentional flying behind the safety line is prohibited (see AMA Document #706 for Recommended Field Layout).
4. I will operate my model aircraft using only radio-control frequencies currently allowed by the Federal Communications Commission (FCC). Only individuals properly licensed by the FCC are authorized to operate equipment on Amateur Band frequencies.
5. I will not knowingly operate my model aircraft within three (3) miles of any pre-existing flying site without a frequency-management agreement. (See AMA Document #922 for Testing for RF Interference. See AMA Document #923 for Frequency Management Agreement.)
6. With the exception of events flown under official AMA Competition Regulations rules, excluding takeoff and landing, no powered model may be flown outdoors closer than 25 feet to any individual, except for the pilot and the Pilot's helper(s) located at the flight line.
7. Under no circumstances may a pilot or other person touch a model aircraft in flight while it is still under power, except to divert it from striking an individual. This does not apply to model aircraft flown indoors.
8. Radio-controlled night flying requires a lighting system that provides the pilot with a clear view of the model's attitude and orientation at all times.
9. The operator of a radio-controlled model aircraft shall control it during the entire flight, maintaining visual contact without enhancement other than by corrective lenses that are prescribed for the pilot. First-Person View (FPV) flying may only be conducted in accordance with the procedures outlined in AMA Document #550.

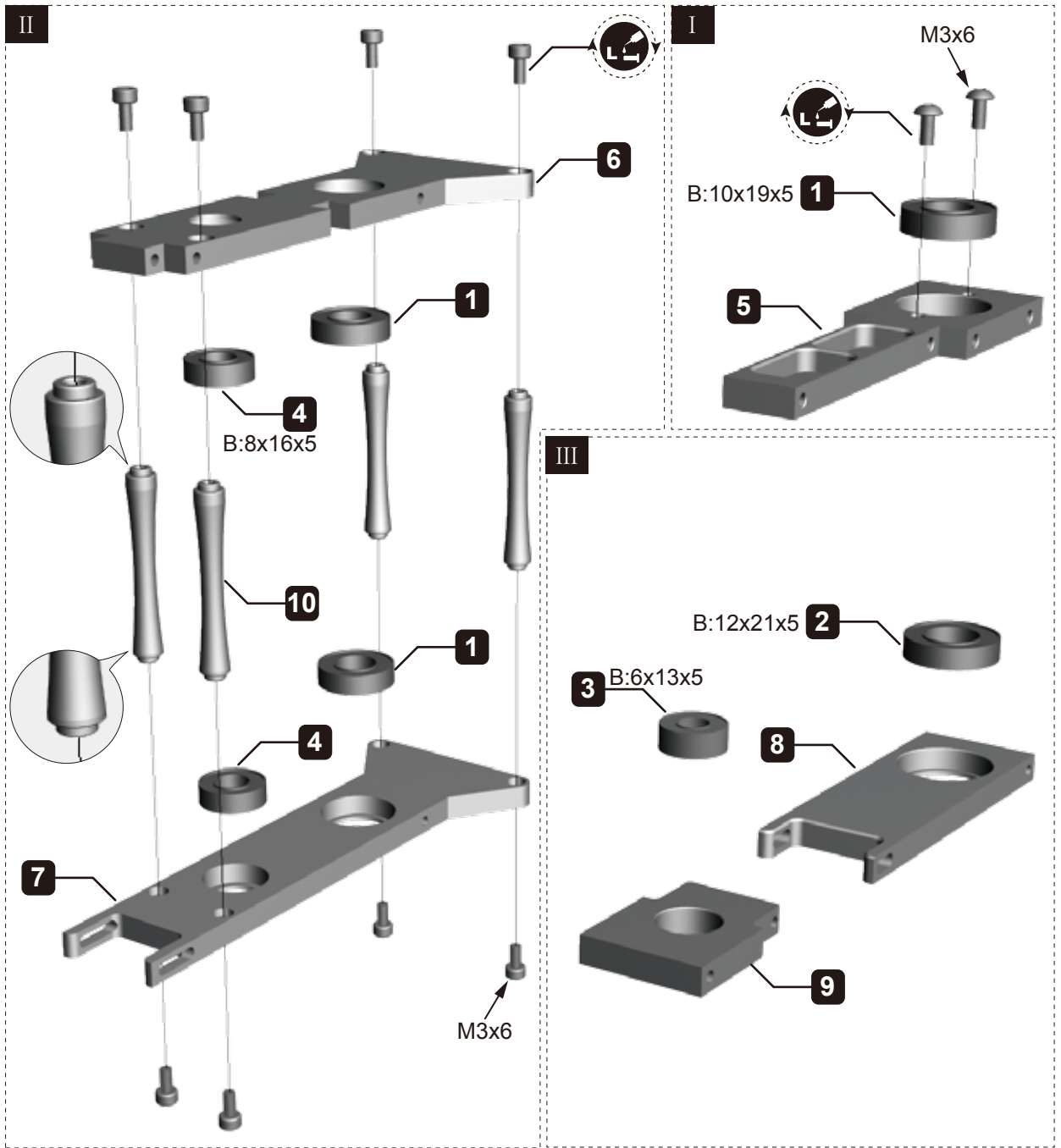
These special codes and appropriate documents may be obtained either from the AMA Web site at www.modelaircraft.org or by contacting AMA.

Academy of Model Aeronautics 5161 East Memorial Drive Muncie, IN 47302

Tel.: (765) 287-1256

Fax: (765) 289-4248

Assemble and tighten the screws.
依圖示組裝並鎖緊。

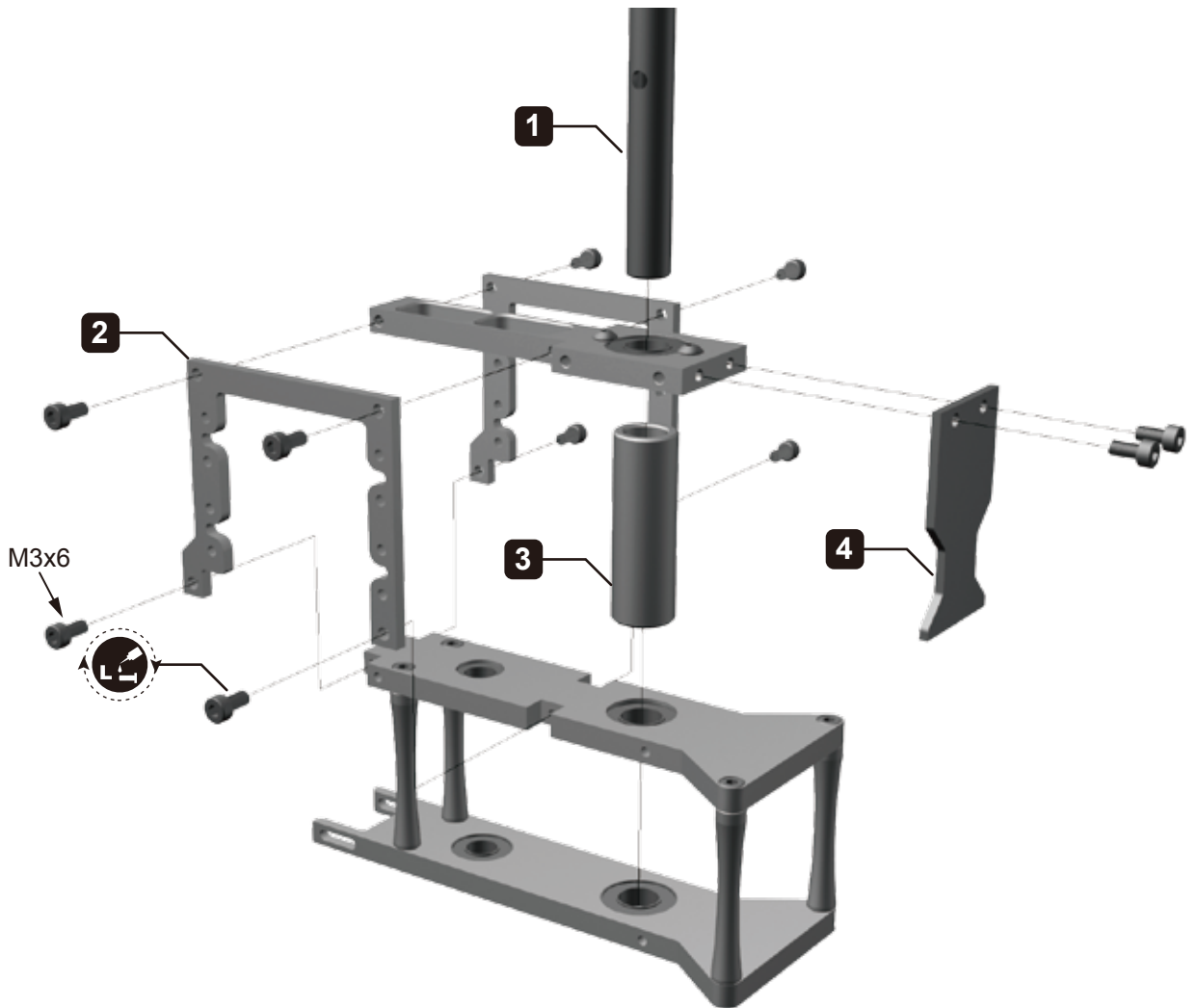


1	2
#0R2306	#0R1306
M3x6	M3x6
x2 pcs	x8 pcs

1	#0B1101	6	#053252
2	#0B1102	7	#053253
3	#0B1601	8	#053254
4	#0B1802	9	#053256
5	#053251	10	#053281

Insert **1** to the main shaft plate, tighten the screw after confirming the perfect axle centre of main shaft and main shaft bearing.

將**1**插入主軸板確認主軸軸承與主軸同一軸心後再鎖緊螺絲。



3

4 **13**

#0R1306

M3x6 x10 pcs

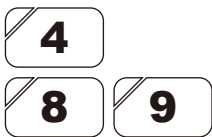
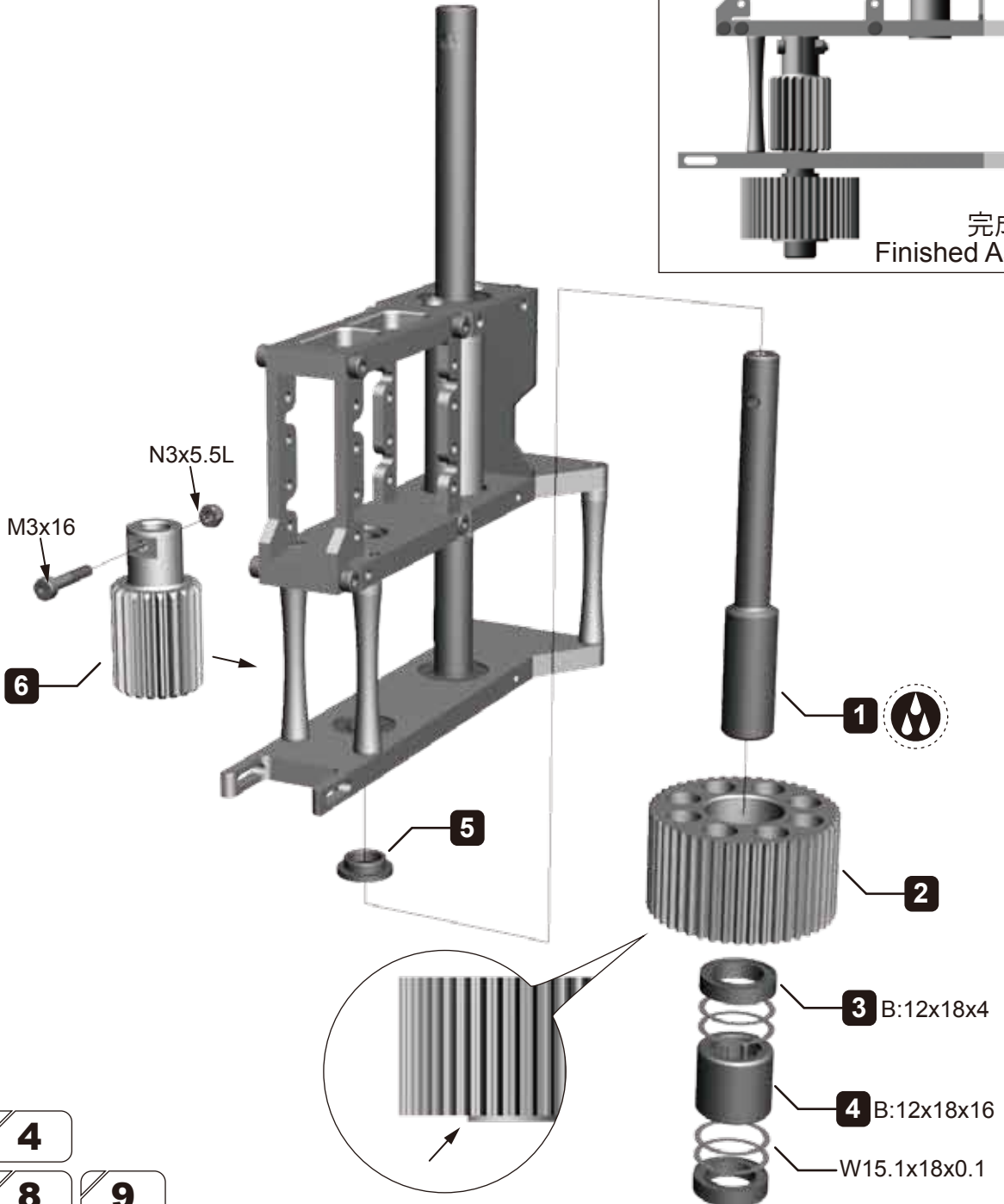
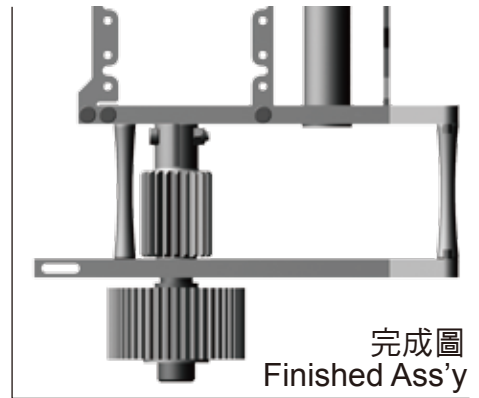


1	#051257	3	#053278
2	#053257	4	#053032

P.2 Main structure assembly 主體結構組裝

1. Assemble **6** in the structure, insert the shaft, tighten the screw.
2. Note that the protruding side **2** must face downward in the assembly.

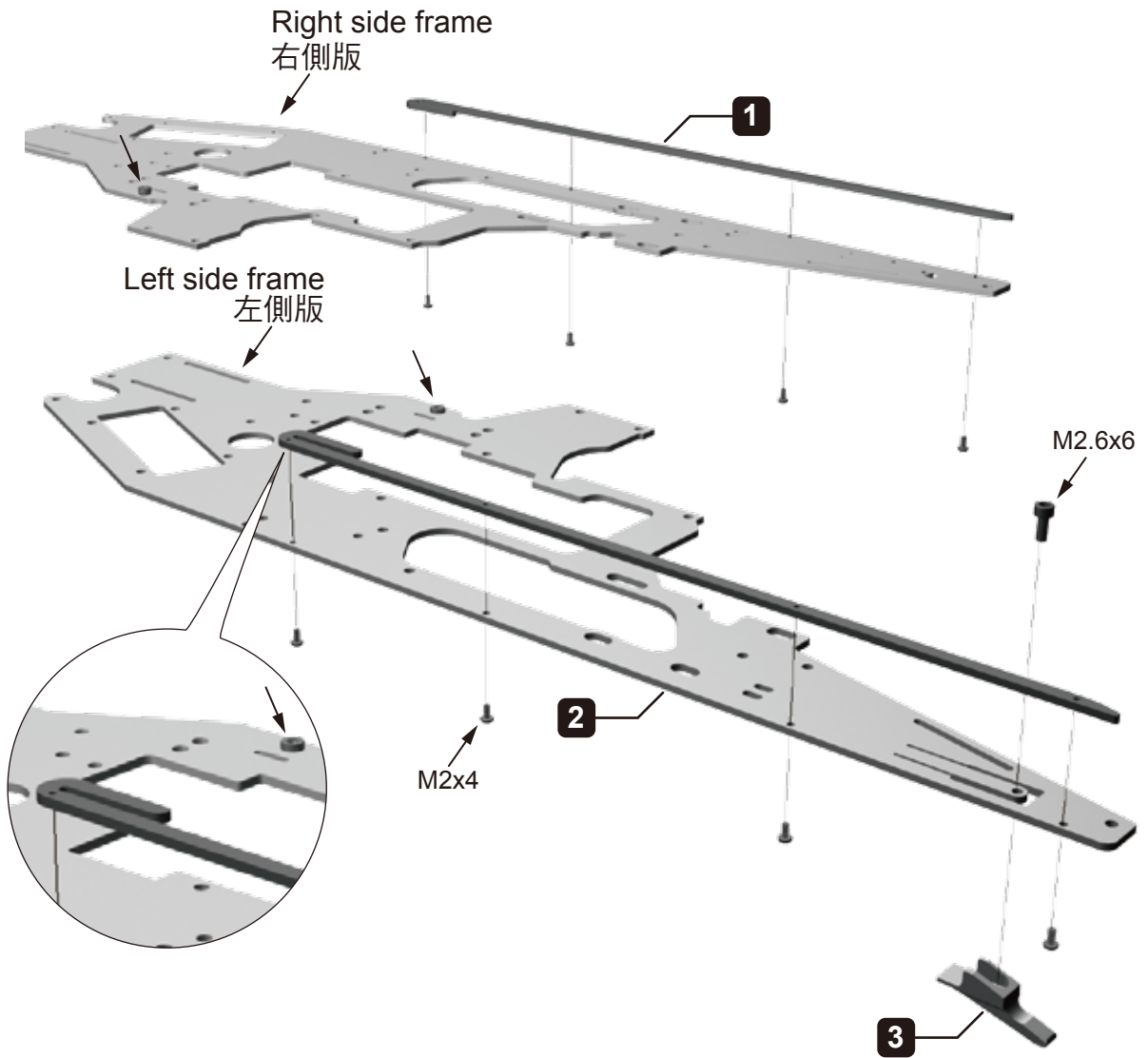
1. 將 **6** 置入主結構內並插入軸心鎖緊螺絲。
2. 組裝 **2** 時，注意凸圓朝下並依序組裝。



#0R7316	#0R8305
M3x16	N3x5.5L
x1 pcs	x1 pcs

1	#053274	4	#0B4101
2	#053273	5	#053282
3	#0B1104	6	#053271





Note the correct direction of battery guide **1** in the assembly.
 組裝**1**時，注意凹槽方向並依序組裝。



5

6

7

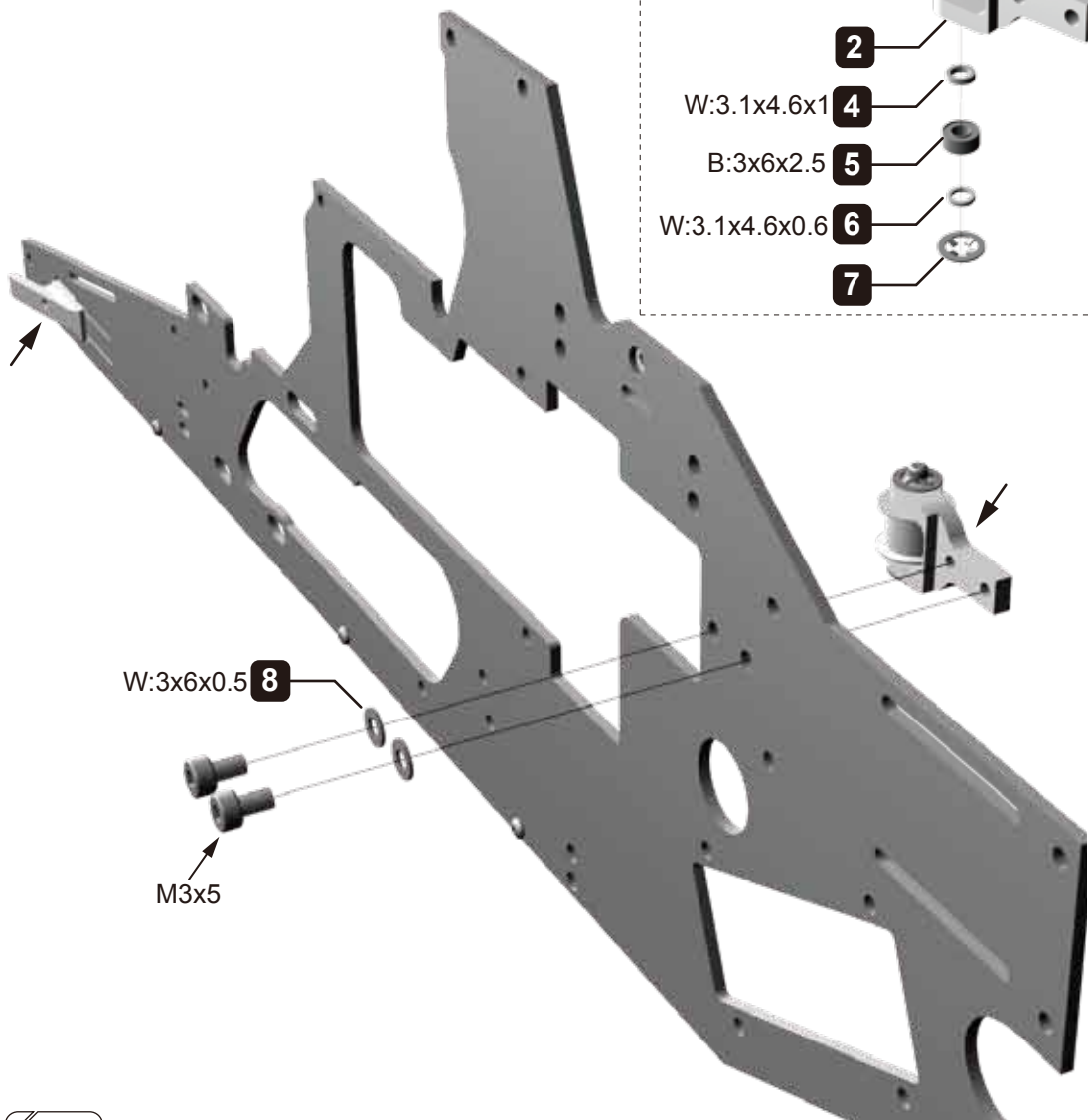
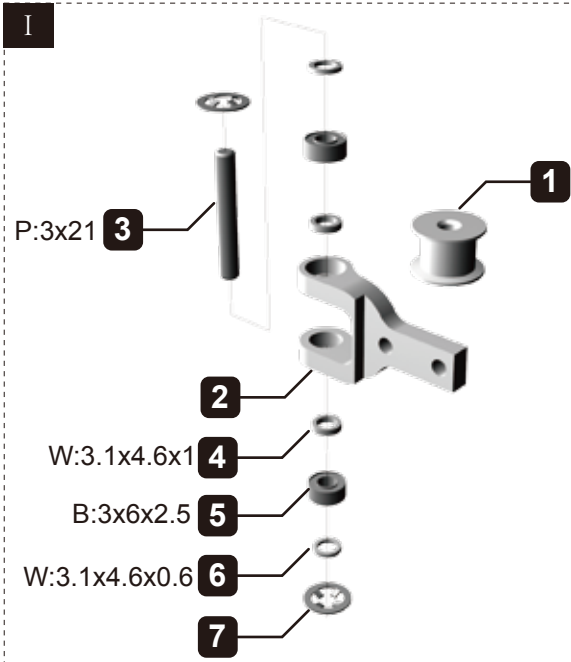
#0R2204	#0R7206
M2x4	M2.6x6
x8 pcs	x1 pcs
	
	

2	#053031
1	#053264
3	#053266

P.4 Main structure assembly 主體結構組裝

Assemble **1** on the left side frame with correct direction.

將**1**組裝至機身左側板上並注意嵌合方向。



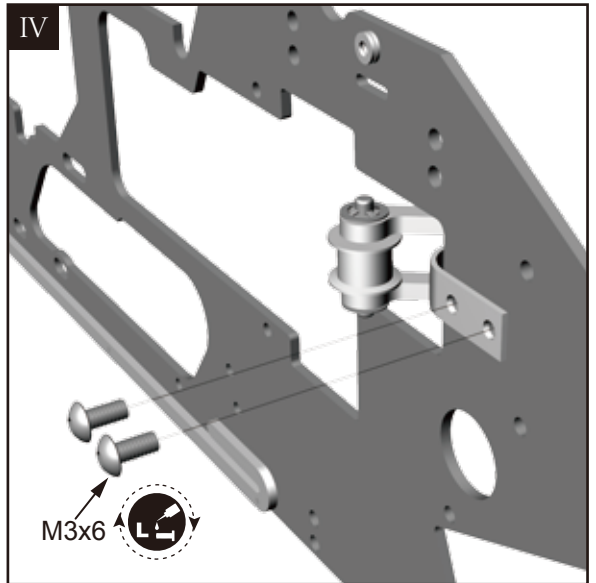
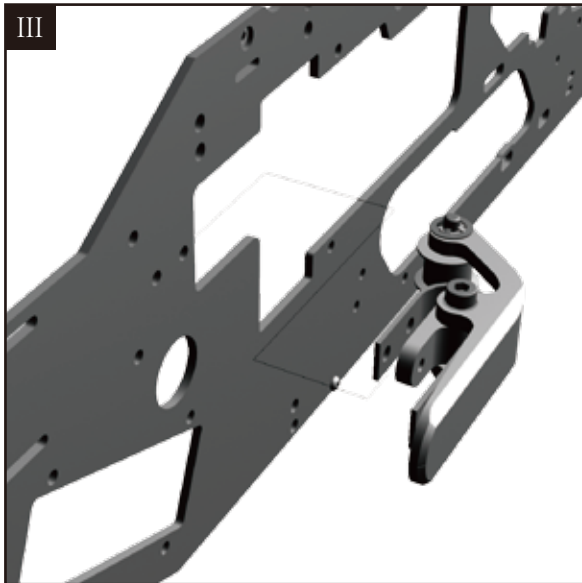
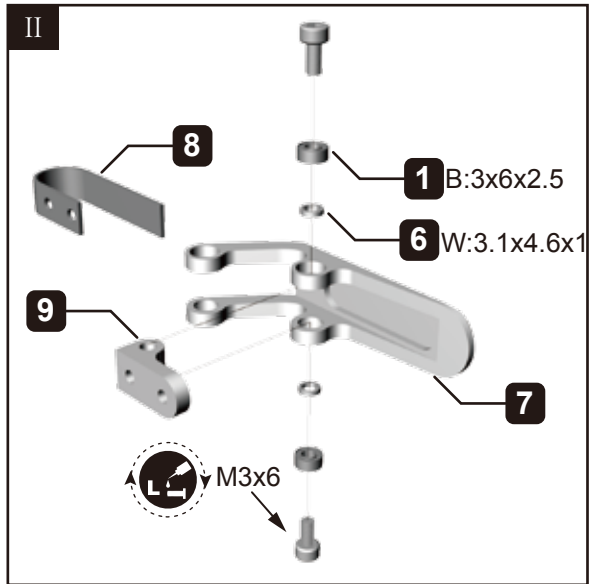
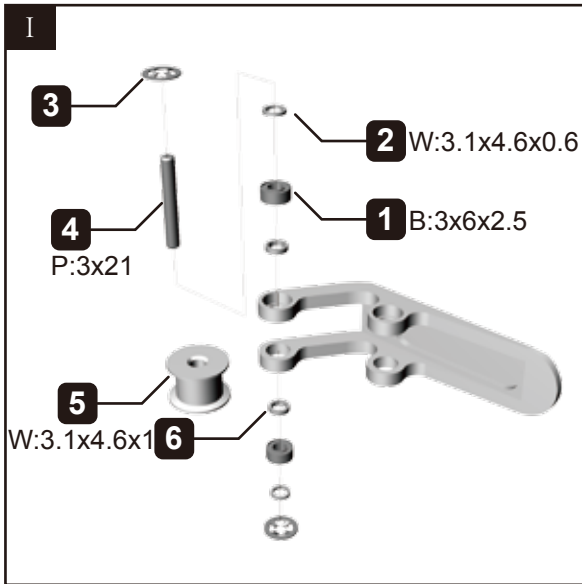
7

#0R1305

M3x5 x2 pcs

1	#053280	5	#0B1302
2	#053262	6	#0W3401
3	#0W3201	7	#0Z1371
4	#0W3402	8	#0W3601

Assemble the belt tensioner on the right side frame.
 依下圖將皮帶張力臂組裝至右側板上。

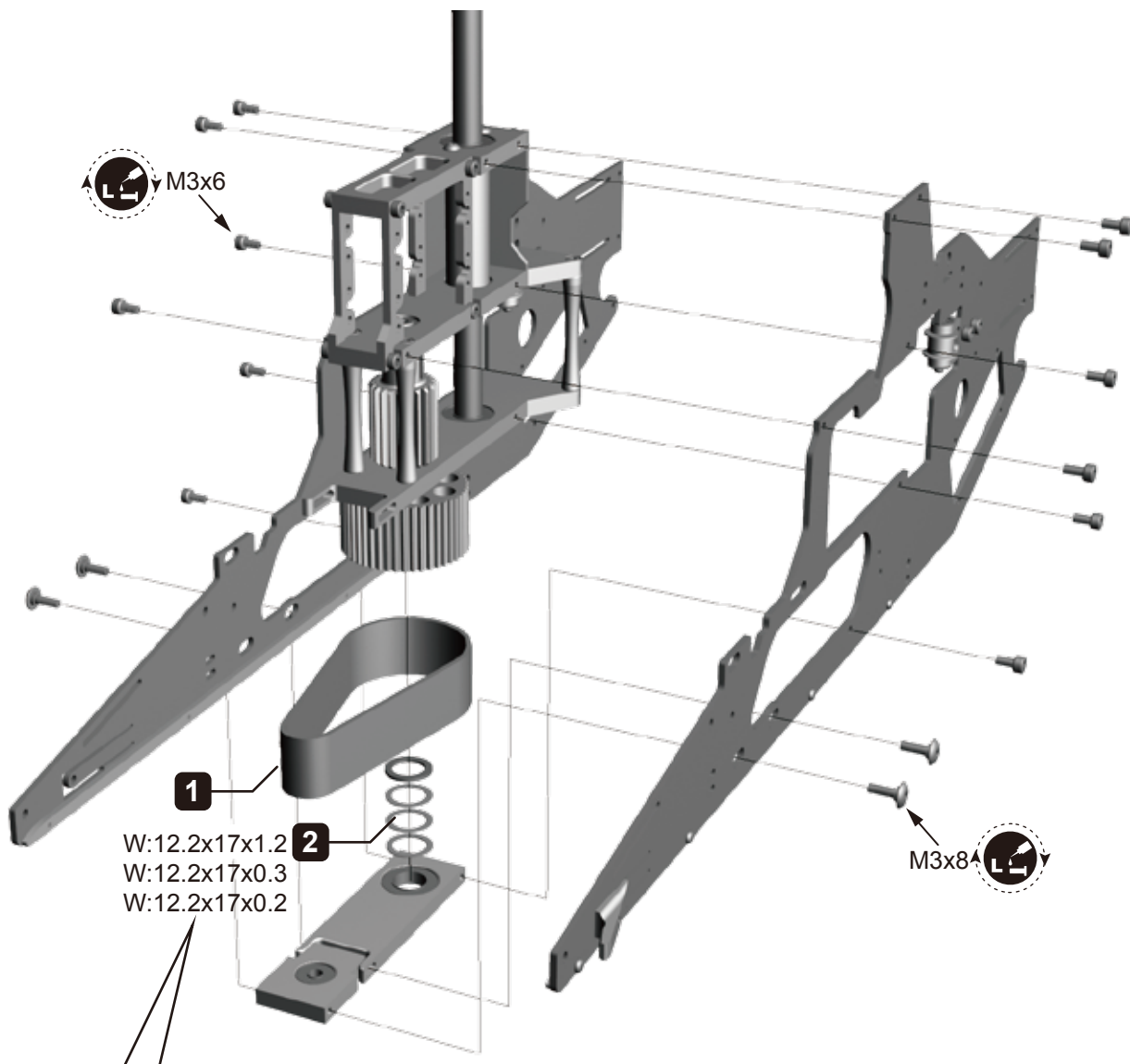


7

#0R1306	#0R2306
M3x6	M3x6
x2 pcs	x2 pcs

5	#053280	6	#0W3402
1	#0B1302	7	#053258
2	#0W3401	8	#053275
3	#0Z1371	9	#053267
4	#0W3201		

1. Assemble **1** on 46T gear with M3x8 screw. Adjust and tighten the screw after motor installation.
 2. Remove the main shaft after assembly of frames.
1. 將**1**套入46T傳動齒輪並含上M3x8螺絲，待組裝馬達時在調整並鎖緊。
 2. 左右側板組裝完成後可將主軸抽出，待後續組裝使用。



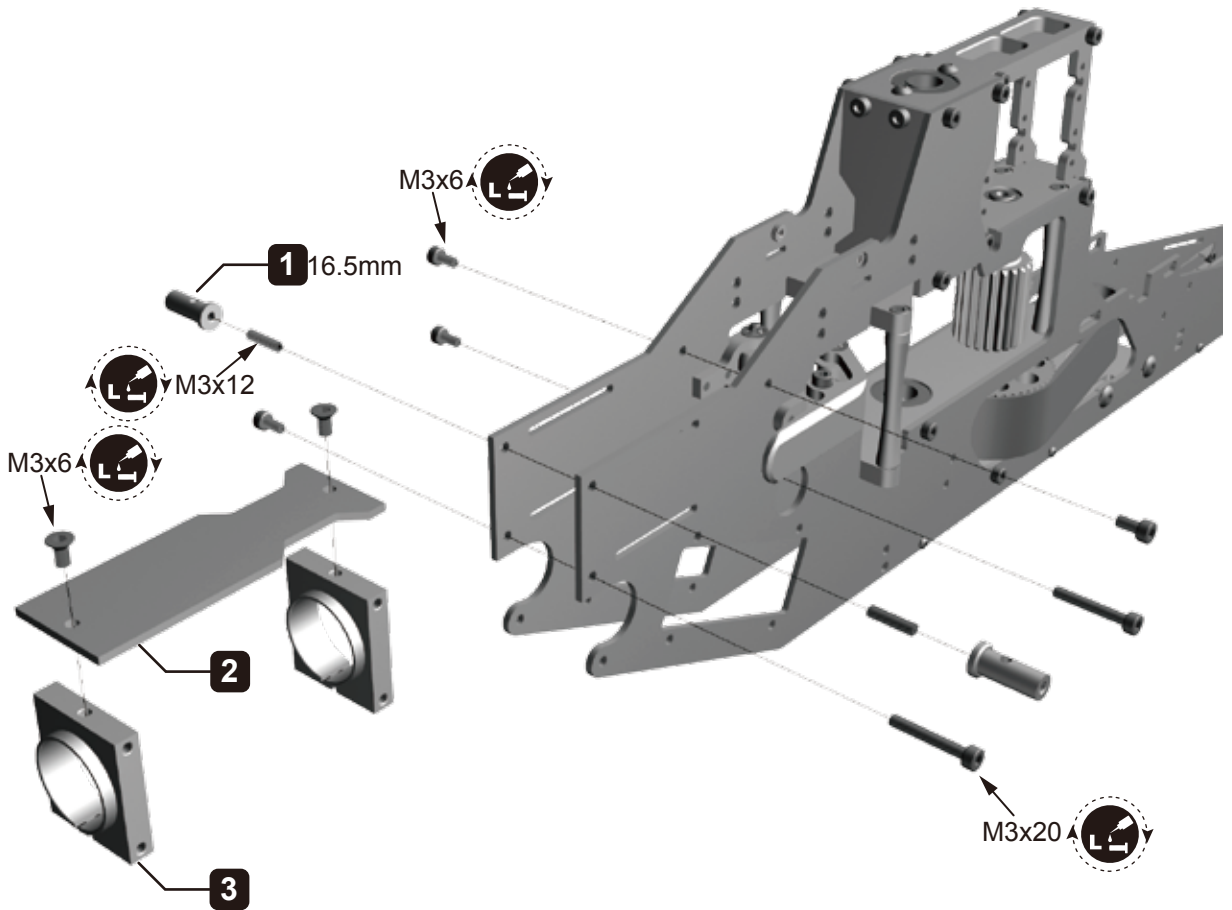
Acquire a Min. play above and under the gear by the attached washers.
 使用內附的華司調整齒輪上下無間隙。

9

#0R1306	#0R7309
M3x6	M3x8
x12 pcs	x4 pcs

1 #053422 **2** #0W1112

1. Assemble and tighten screws by the instructions.
 2. Install **3** with screws, tighten the screws after adjustment of belt.
1. 依圖示組裝並鎖緊。
 2. 組裝**3**並含上M3x20螺絲，待後續調整尾皮帶時鎖緊。



2

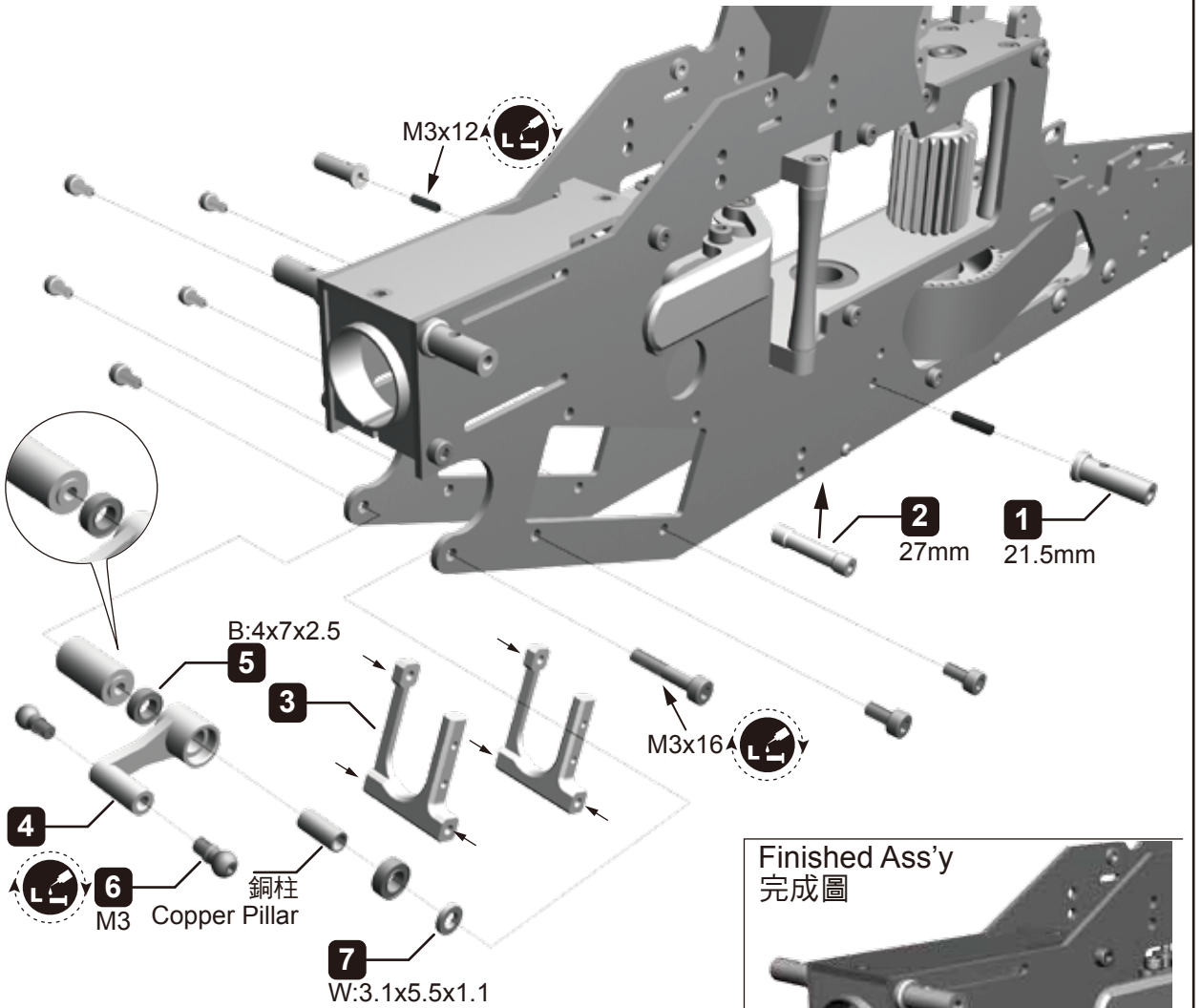
10 **13**

#0R1306	#0R3306
M3x6 x4 pcs	M3x6 x2 pcs
#0R4312	#0R1320
M3x12 x2 pcs	M3x20 x2 pcs

2	#053032
1	#053277
3	#053261

P.8 Main structure assembly 主體結構組裝

1. Assemble and tighten screws by the instructions.
2. Note the correct direction of the aluminum post.
1. 依圖示組裝並鎖緊。
2. 組裝鋁柱時注意凸圓方向。



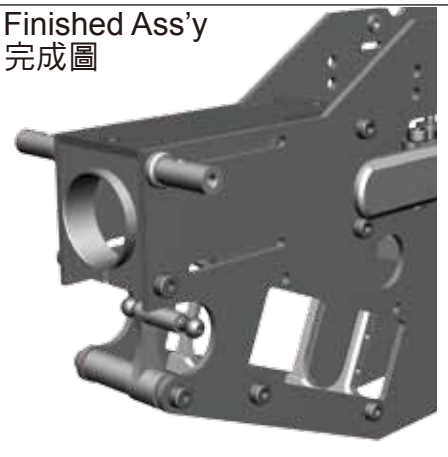
2

10

12

#0R1306	#0R7316	#0R4312
M3x6	M3x16	M3x12
x7 pcs	x1 pcs	x2 pcs

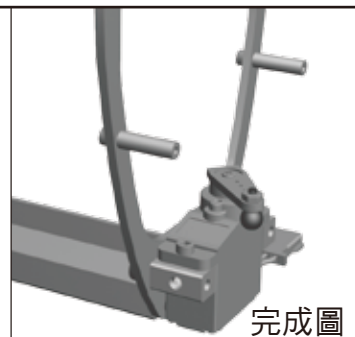
Finished Ass'y
完成圖



4	#053263	5	#0B1402
1	#053277	6	#0A8622
2	#057202	7	#0W3501
3	#053260		

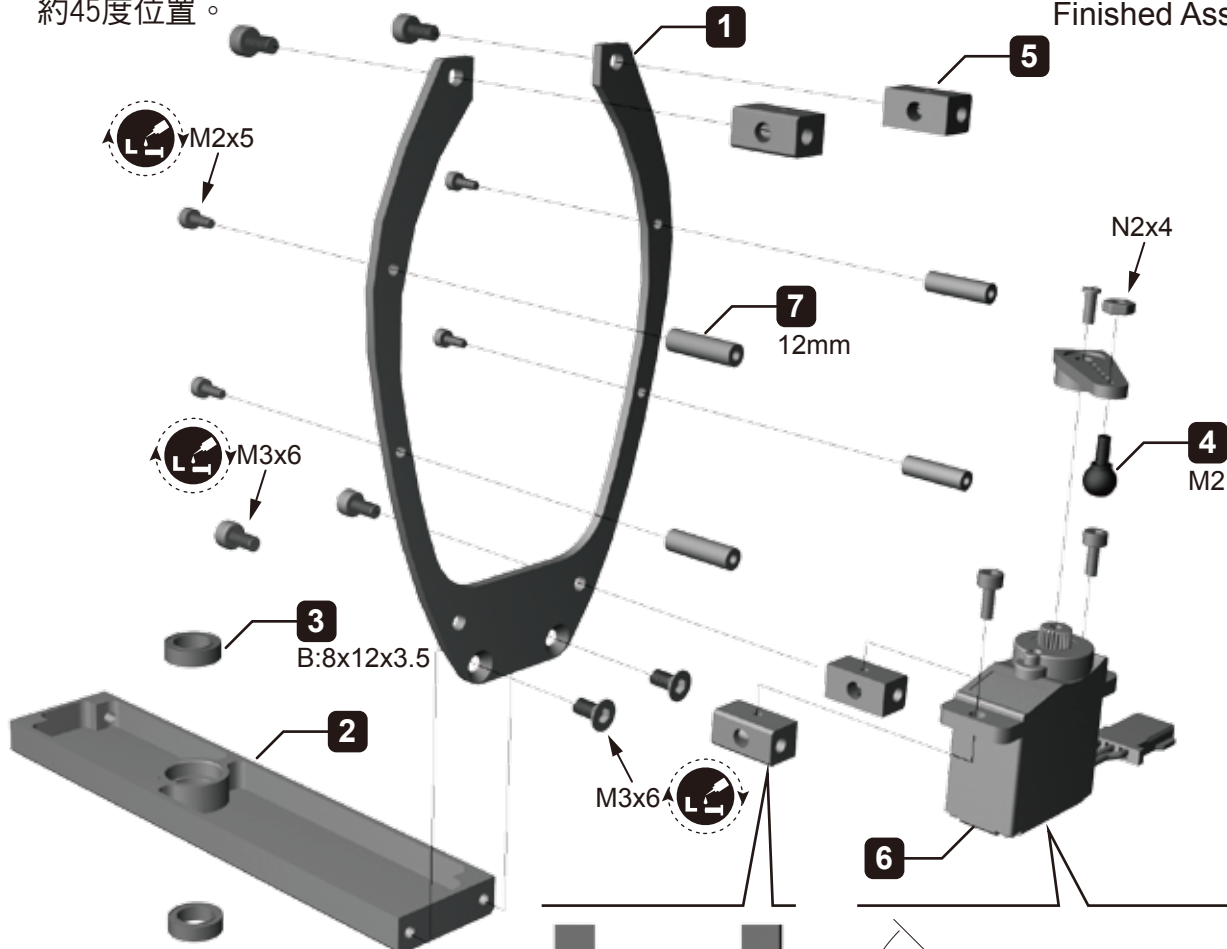
1. Assemble accordingly and install the counter hole of **1** onto **2**. Install the servo on the square aluminum posts (note the correct direction of servo and posts).
2. Set retractor servo at full travelling upon installation. Enable the landing pad turning with 90 degree. Neutralize the servo, install the servo horn about 45 degree to the fuselage.

1. 依圖示組裝並將**1**有沉孔的隔板組裝至**2**，再將伺服機組裝至方鋁柱上（注意伺服機方鋁柱方向）。
2. 安裝伺服機時需使用全行程，控制腳板可90度旋轉並組裝舵片約45度位置。

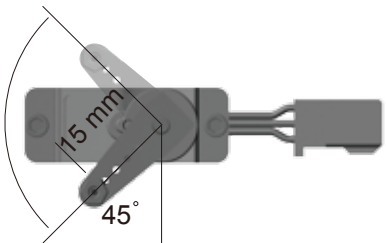


完成圖

Finished Ass'y



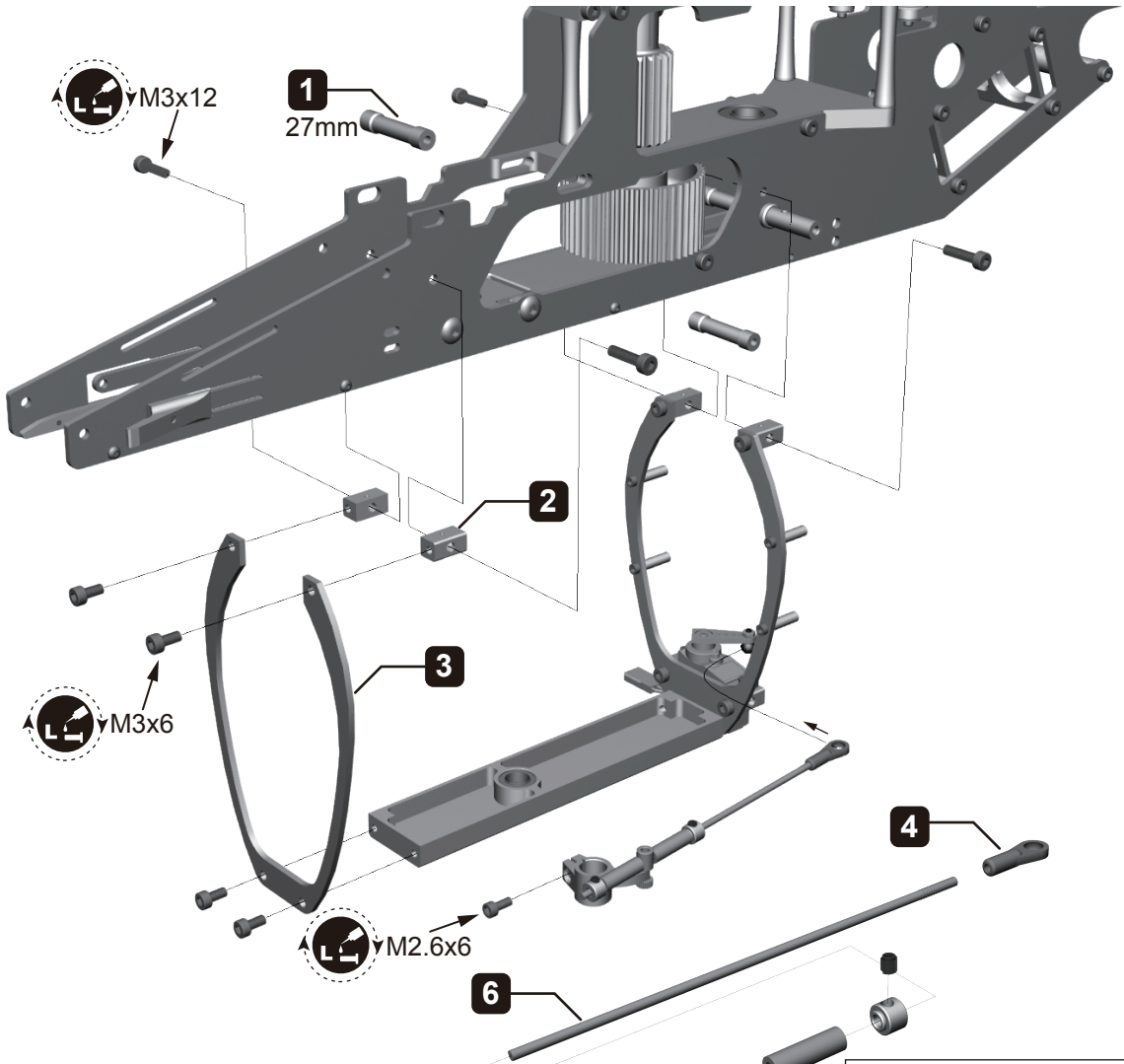
Make sure the threads close to the side frames upon square post installation
安裝方鋁柱時注意牙孔需靠機身側板。







#0R1306 M3x6 x4 pcs	#0R3306 M3x6 x2 pcs
#0R1205 M2x5 x6 pcs	#0R8205 N2x4 x1 pcs







4	#0A8621
1	#053035
5	#053283
2	#053284
6	#0S2097
3	#0B1803
7	#057202

1. Assemble and tighten screws by the instructions.
 2. Install the linkage with ball links.
 3. Install the screw M2.6x6 on **5**, tighten the screw after assembly.
1. 依圖示組裝並鎖緊螺絲。
 2. 製作拉桿並扣入球頭。
 3. 將M2.6x6螺絲含上**5**，待後續組裝鎖緊。



2	18
11	12

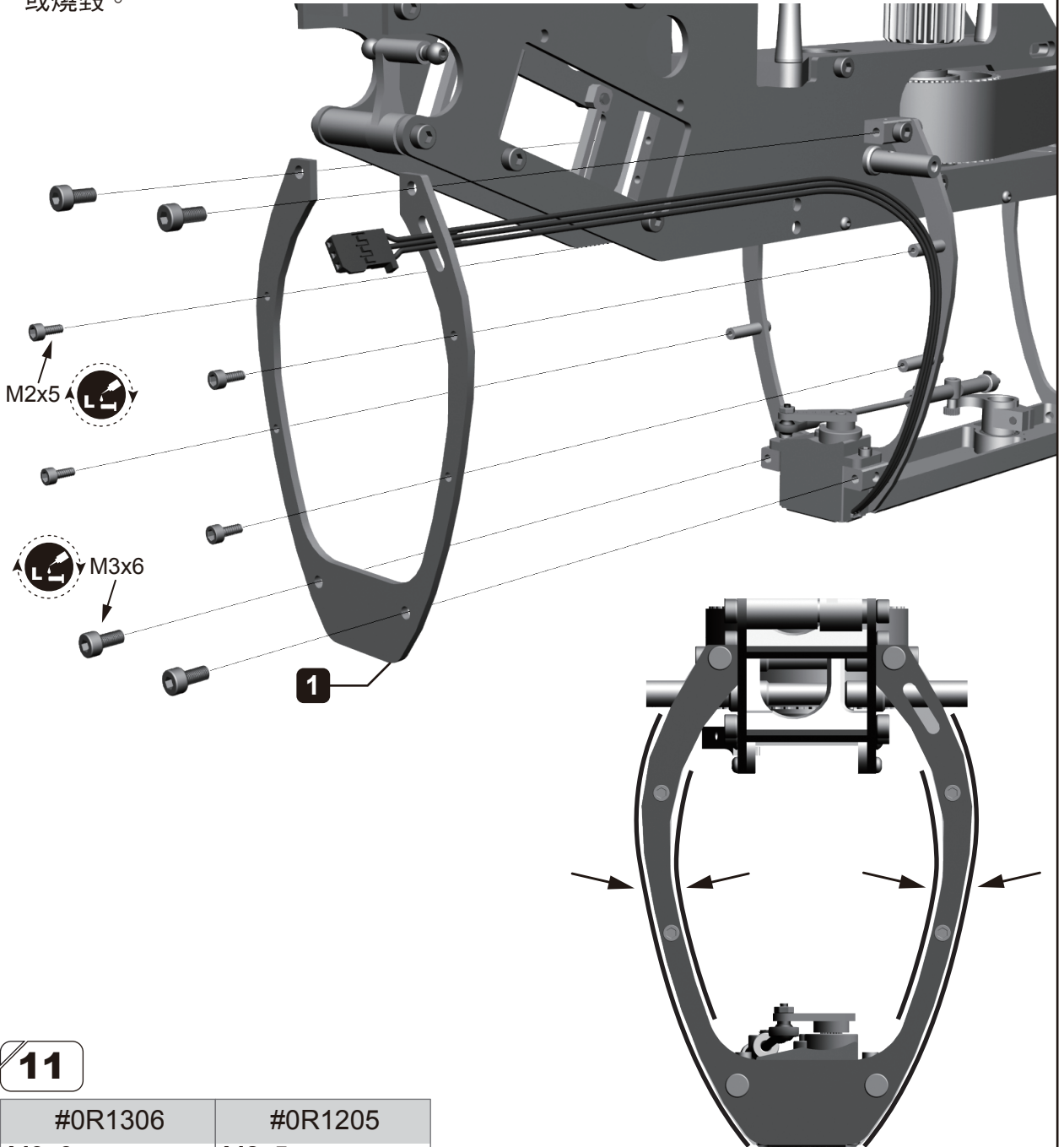
#0R4303	#0R8205
M3x3 x2 pcs	N2x4 x1 pcs
 	 

#0R1306	#0R1312	#0R7206
M3x6 x4 pcs	M3x12 x4 pcs	M2.6x6 x1 pcs
 	 	 





Tight the nut on the thread with glue, then loss the nut by half turn and make sure this piece turns freely on the retractor arm.
 使用螺絲膠固定螺帽與轉接柱並旋至底部後在放鬆半圈確認轉接柱與**5**能順暢轉動

1	#057202	4	#0A8501
2	#053283	5	#053285
3	#053035	6	#053286

1. Assemble and tighten screws by the instructions.
 2. Check and ensure no wires in the bottom side of frames, to avoid any interference during battery sliding in.
 3. Input voltage of GS-097 is 4.8V~6.0V. Please must lower the voltage if the high voltage system been used on this aircraft, to avoid GS-097 get burnt.
1. 依圖示組裝並鎖緊螺絲。
 2. 檢查機體底框內外緣不可有線材纏繞或懸掛，避免電池滑入時干涉或與機殼干涉。
 3. GS-097使用電壓範圍為4.8V~6V，如您使用高壓電裝系統請進行降壓以避免GS-097故障或燒毀。



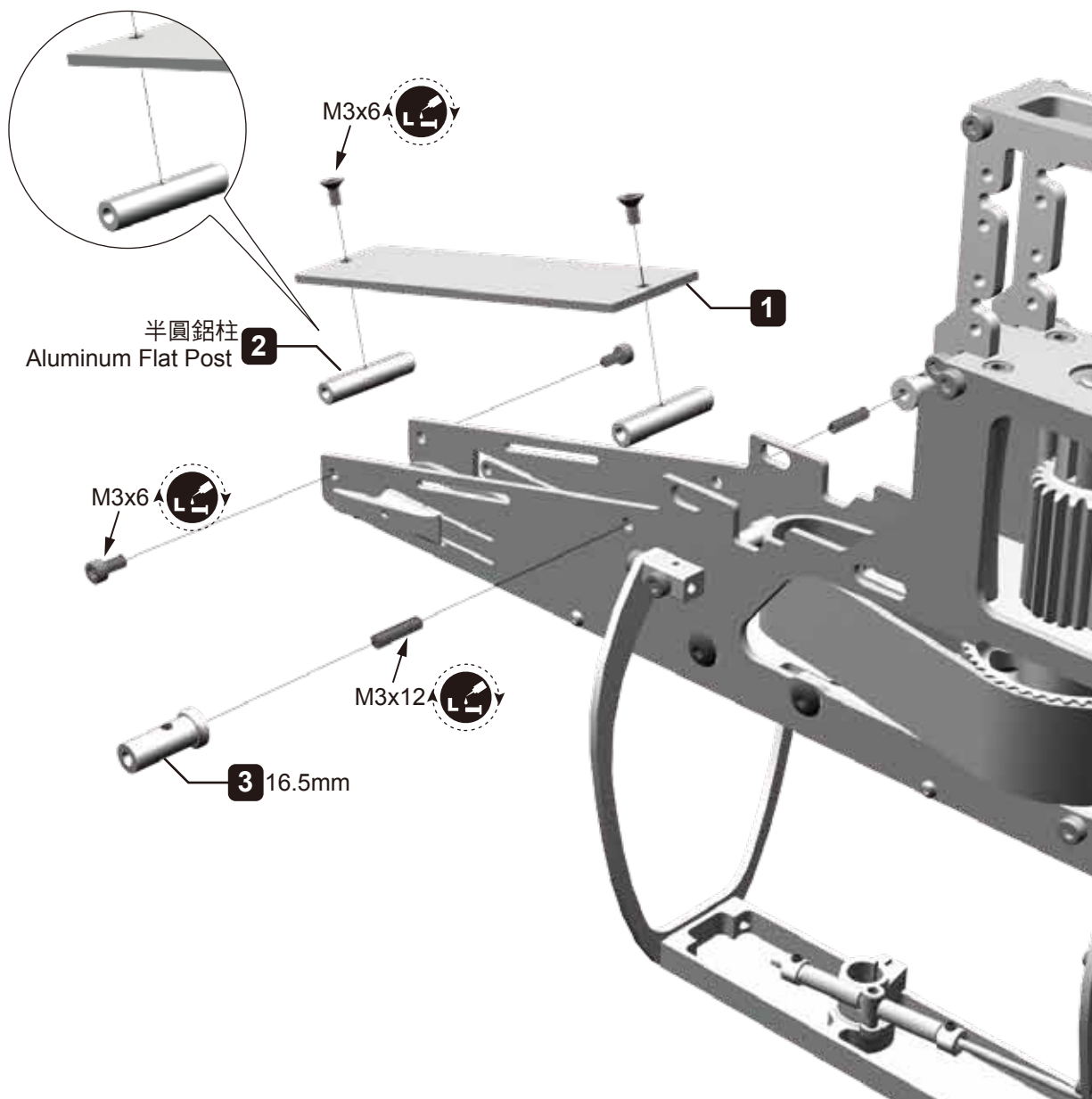
11

#0R1306	#0R1205
M3x6	M2x5
x4 pcs	x4 pcs
 	 







1 #053035

Assemble accordingly and tighten screws after having the flat side of aluminum flat post toward the carbon fiber plate.

依圖示組裝並將半圓柱平面靠齊碳纖隔板後鎖緊。

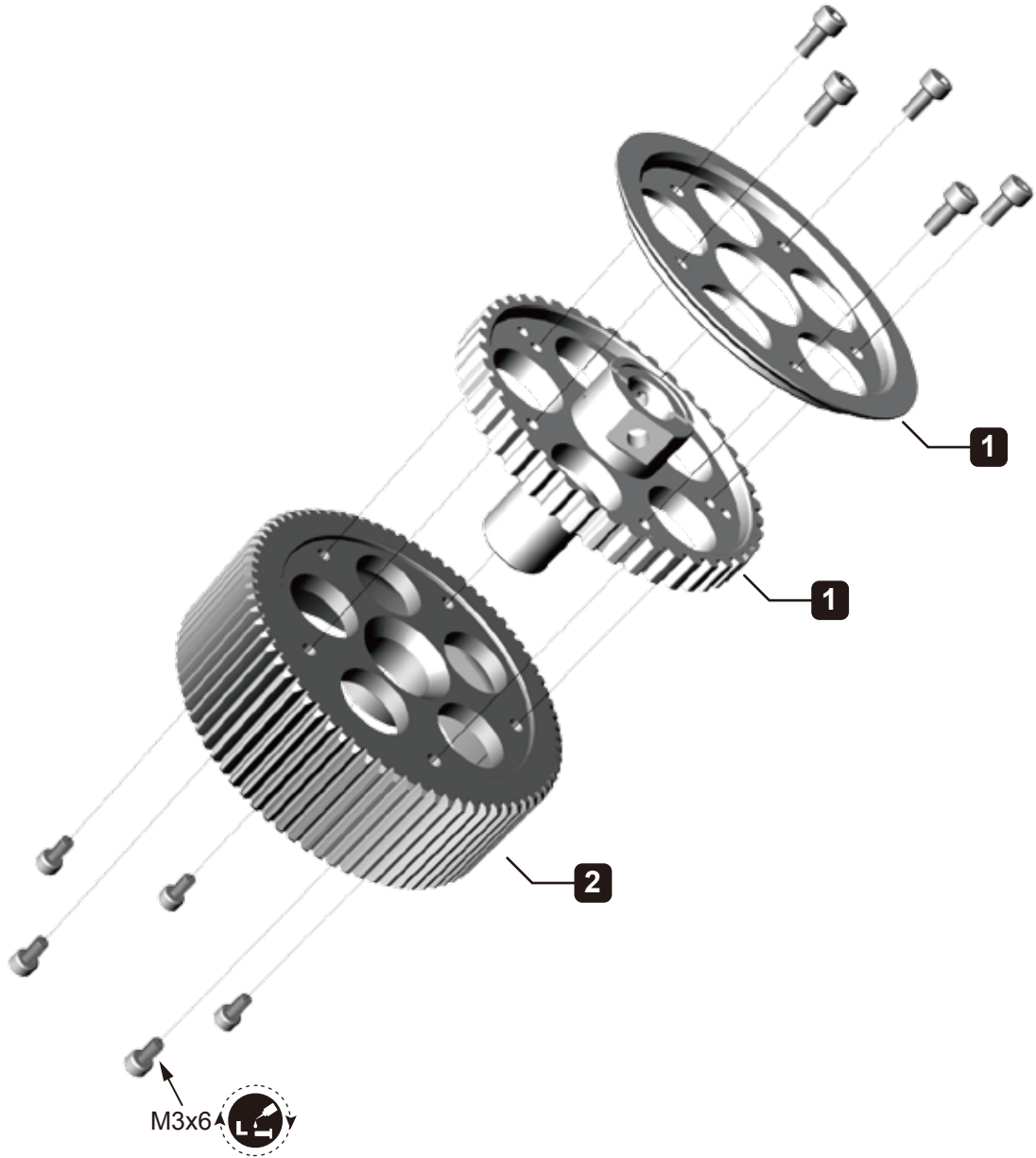


2 **13**

#0R1306	#0R3306	#0R4312
M3x6 x2 pcs	M3x6 x2 pcs	M3x12 x2 pcs
 	 	 

2	#053279
1	#053032
3	#053277

Assemble and tighten screws by the instructions.
依圖示組裝並鎖緊螺絲。



14

#0R1306

M3x6 x10 pcs

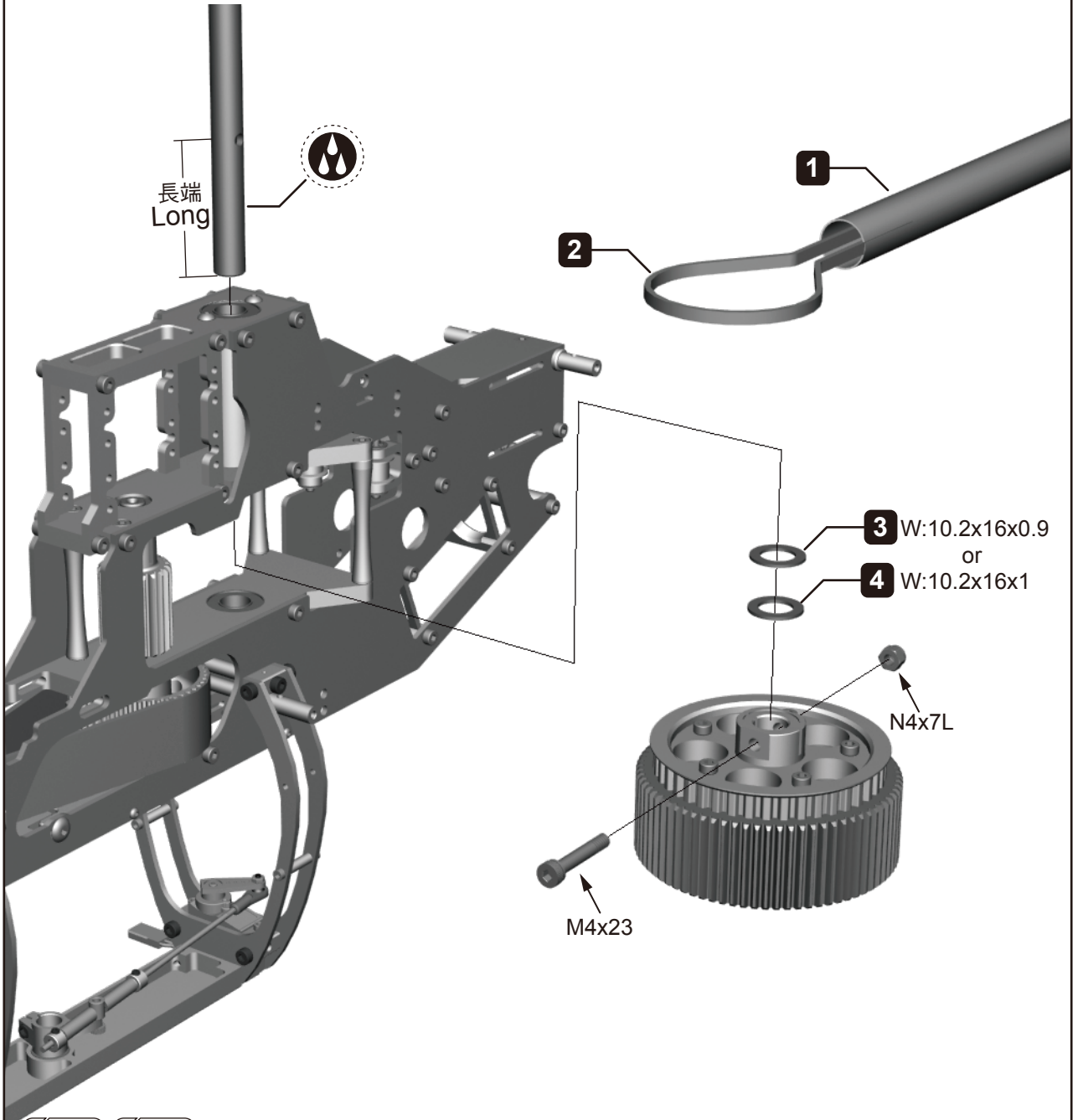


1	#053287
2	#053421

P.14 Main structure assembly 主體結構組裝

1. Assemble the tail boom and the belt on the main body, install the main gear in, insert the main shaft, tighten the screw on the long side of the main shaft.
2. Acquire a proper play by washer W10.2x16x0.9 or W10.2x16x1.

1. 將尾管及皮帶組裝至機身內，再將主齒輪組置入機身並插入主軸鎖緊（長端處）。
2. 以不干涉的情況使用W10.2x16x0.9或W10.2x16x1調整合適的間隙。



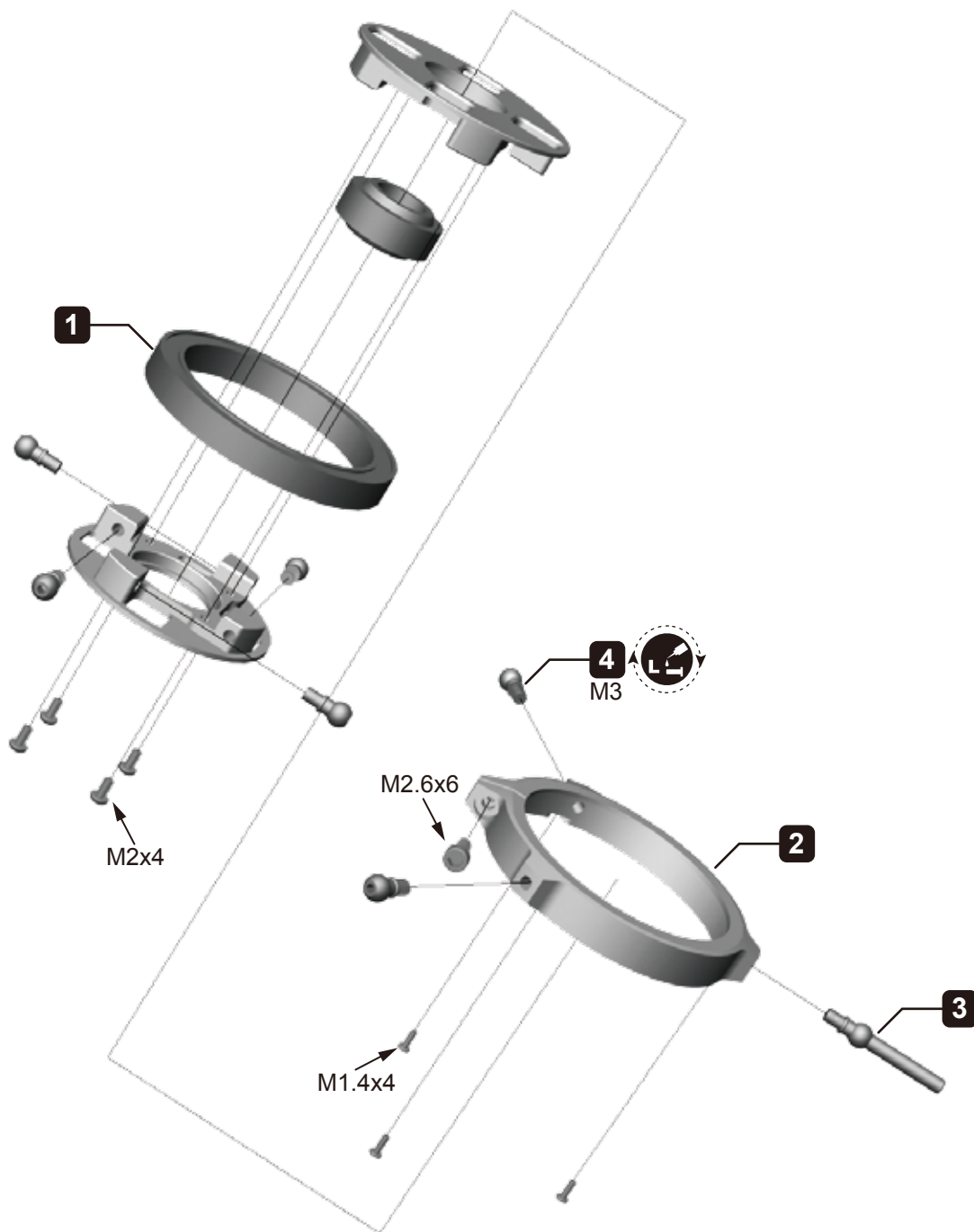
14 **15**

#0R8407	#0R7423
N4x7	M4x23
x1 pcs	x1 pcs







1	#055246	3	#0W1109
2	#055401	4	#0W1110

Assemble the inner plate first. Install the inner plate on the outer plate, tighten the ball heads and the screws.

先將內盤組裝完成後，再置入外盤組裝並鎖緊球頭及螺絲。



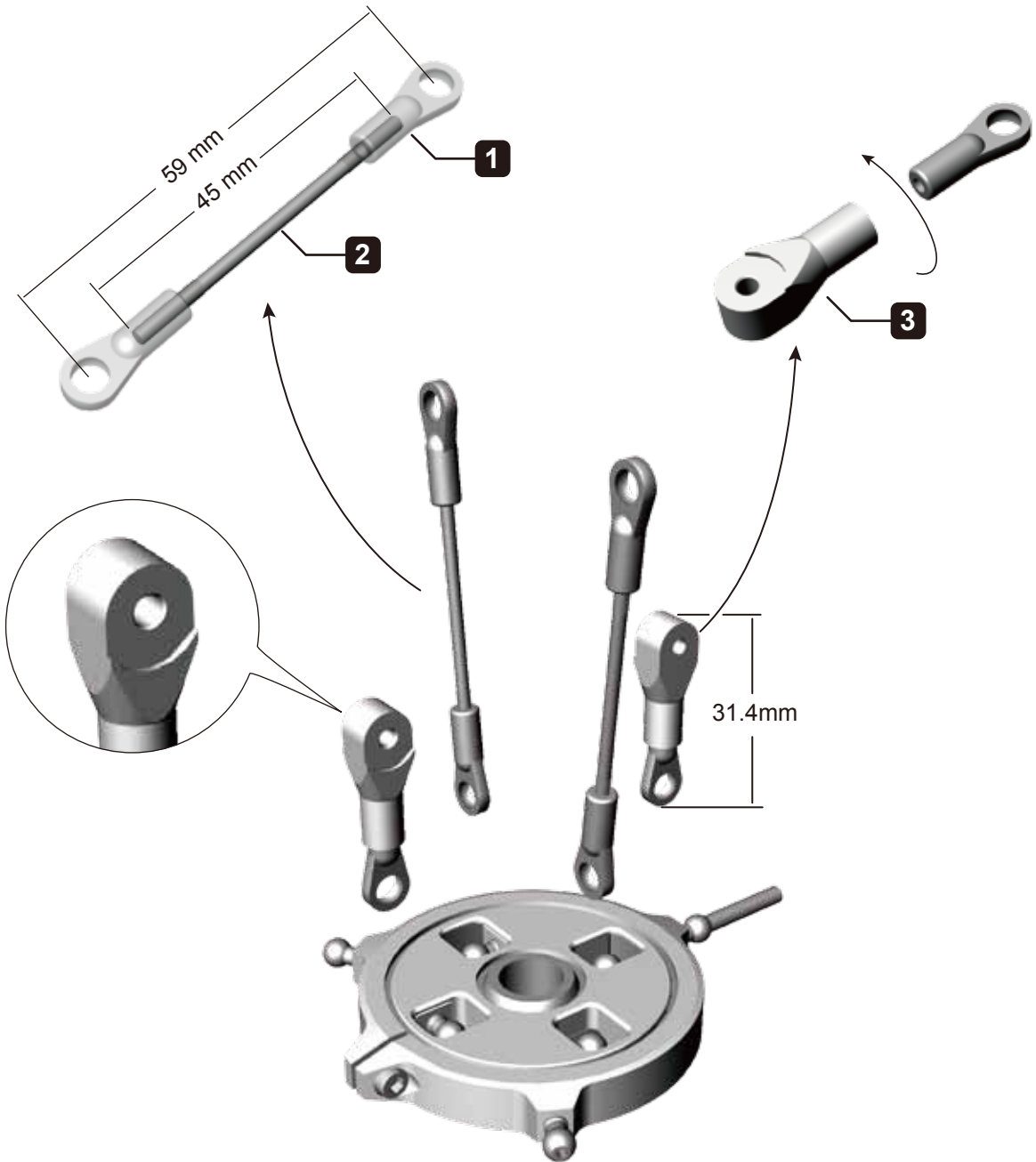
16

#0R5114	#0R2204	#0R7206
M1.4x4 x3 pcs	M2x4 x4 pcs	M2.6x6 x1 pcs
 	 	 

1	#0B1403	3	#051258
2	#051255	4	#0A8621

P.16 Rotor head assembly 主旋翼頭結構組裝

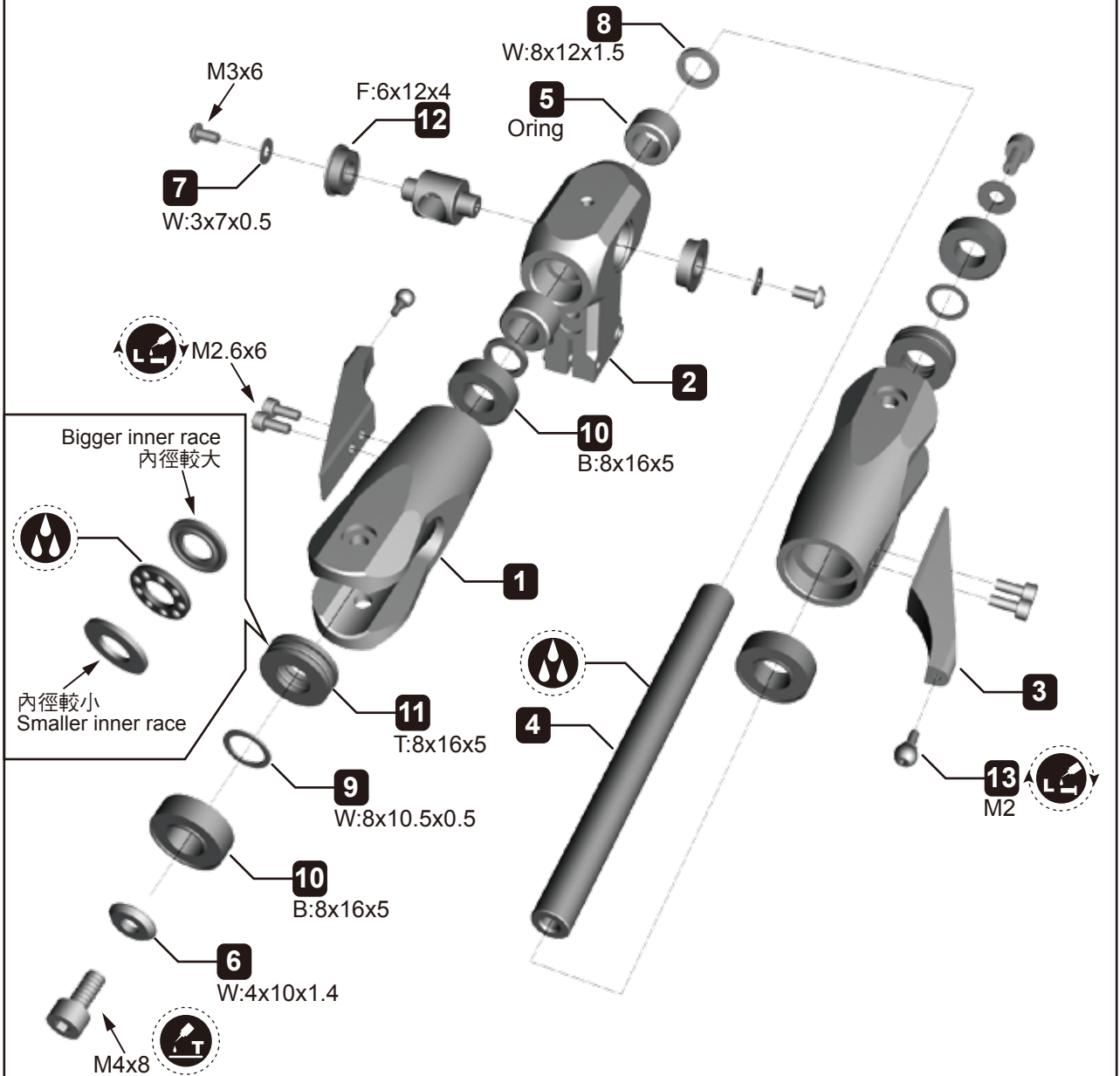
1. Set the linkage and Washout Arm pushrod.
2. Note the correct direction of the groove on the Washout Arm pushrod.
1. 製作拉桿及剪型臂推座。
2. 扣入球頭時需注意推座凹槽方向。



17 **18**

2	#0Z6205
1	#0A8501
3	#051254

1. Note the correct direction of thrust bearings during assembly of main blade grips.
2. Ensure to use screw glue on the M4x8 screws.
1. 組裝主旋翼夾頭時需注意止推軸承安裝方向。
2. 確實使用螺絲防鬆劑固定M4x8螺絲。

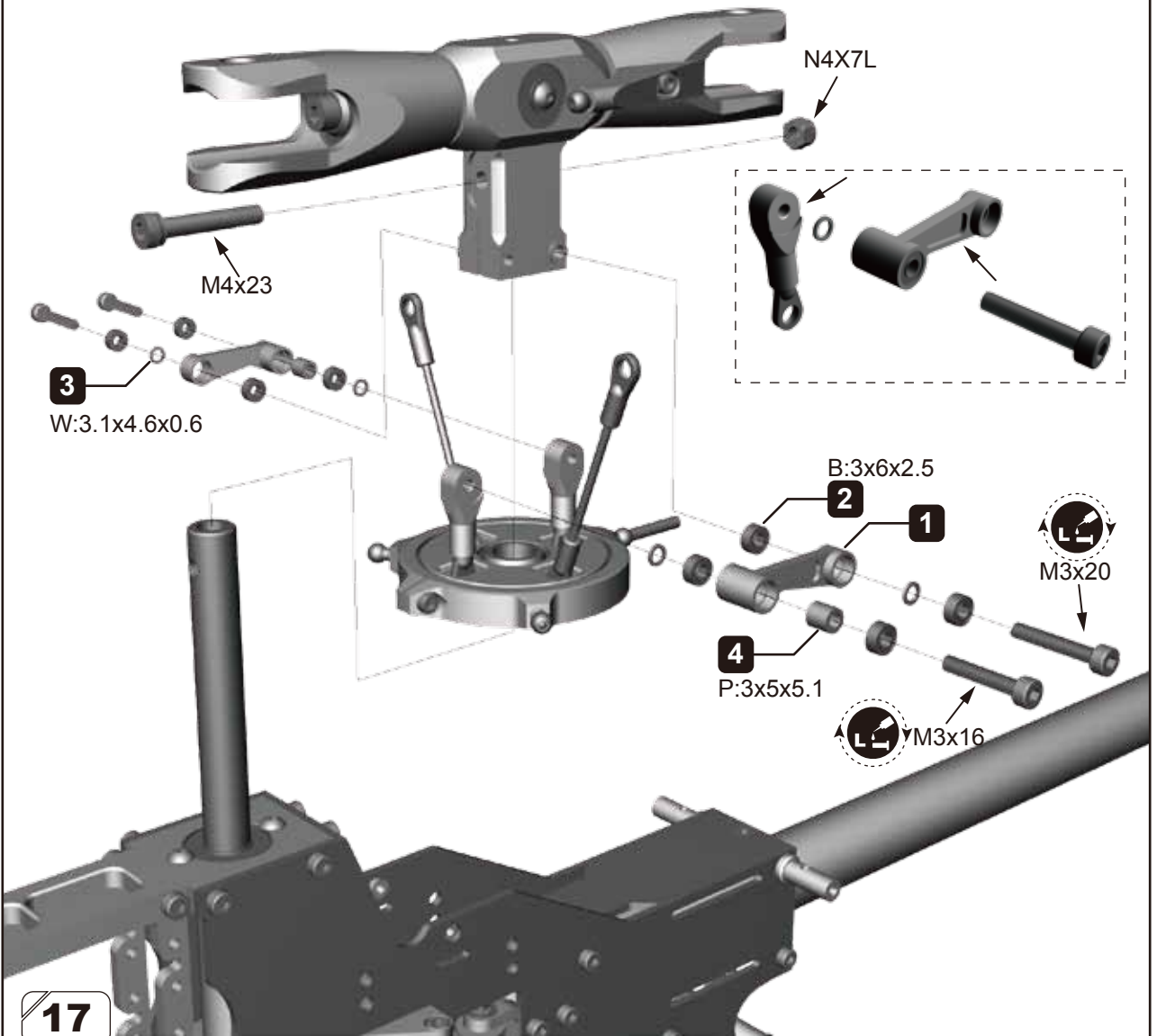


17	#0R7206	M2.6x6	x4 pcs
#0R2306	M3x6	x2 pcs	
#0R1408	M4x8	x2 pcs	

4	#051256	9	#0W8101
5	#051451	10	#0B1802
1	#051252	6	#051259
2	#051251	7	#0W3701
3	#051253	8	#0W8102
		11	#0B2801
		12	#0B3601
		13	#0A8621

P.18 Rotor head assembly 主旋翼頭結構組裝

1. Assemble the wash plate and the main rotor head on the main body, with Washout Arm set (note the correct direction).
 2. Push the ball links on the ball head after assembly.
1. 將十字盤及旋翼頭組裝至機體並組裝剪型臂組(注意組裝方向)。
 2. 組裝完成後將拉桿扣入球頭。

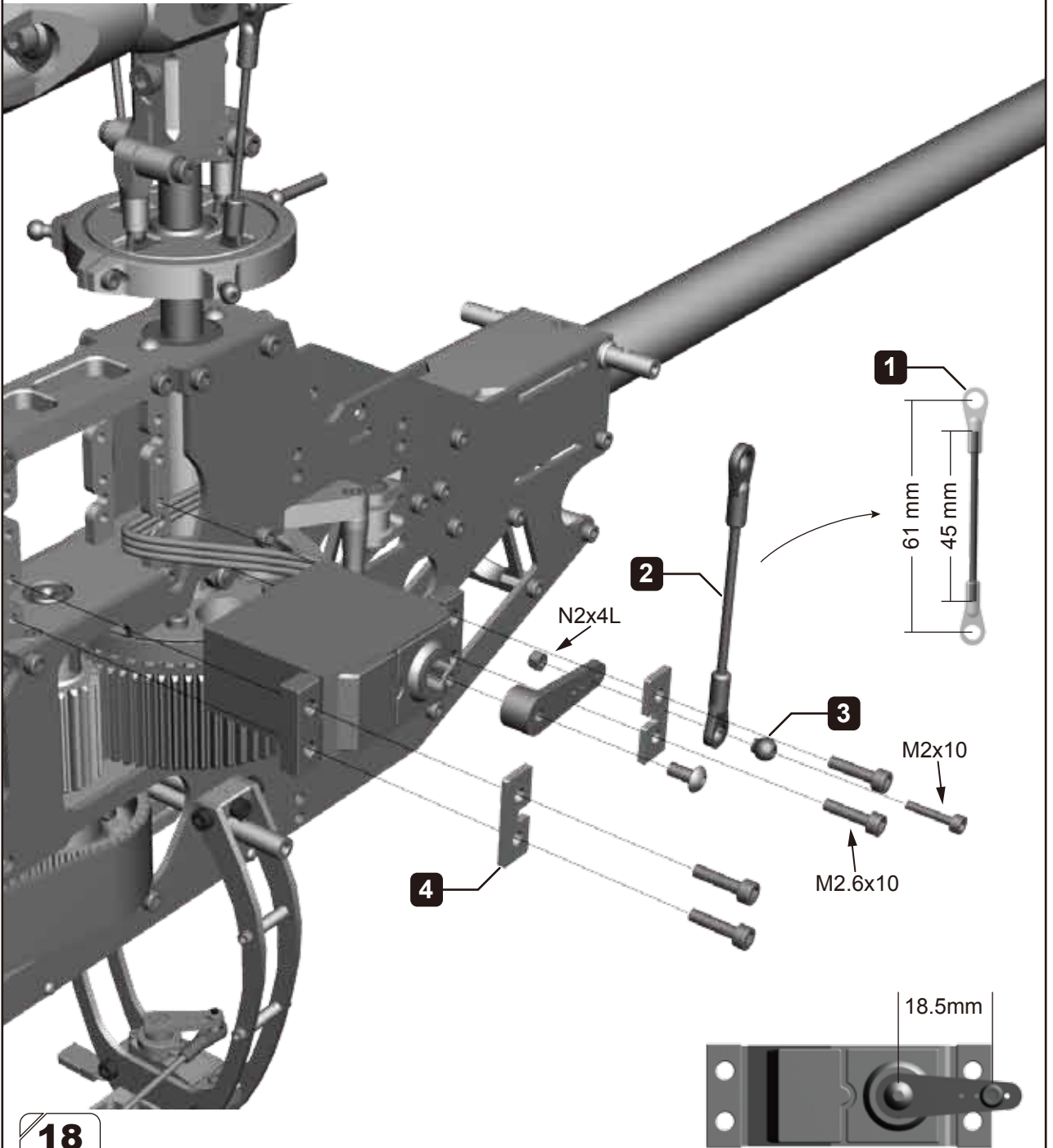


17







#0R1316	#0R1320
M3x16 x2 pcs	M3x20 x2 pcs
#0R8407	#0R7423
N4x7L x1 pcs	M4x23 x1 pcs

1	#051254	3	#0W3401
2	#0B1302	4	#0W5801

Assemble the linkage and push on the ball head.
製作拉桿並扣上球頭。

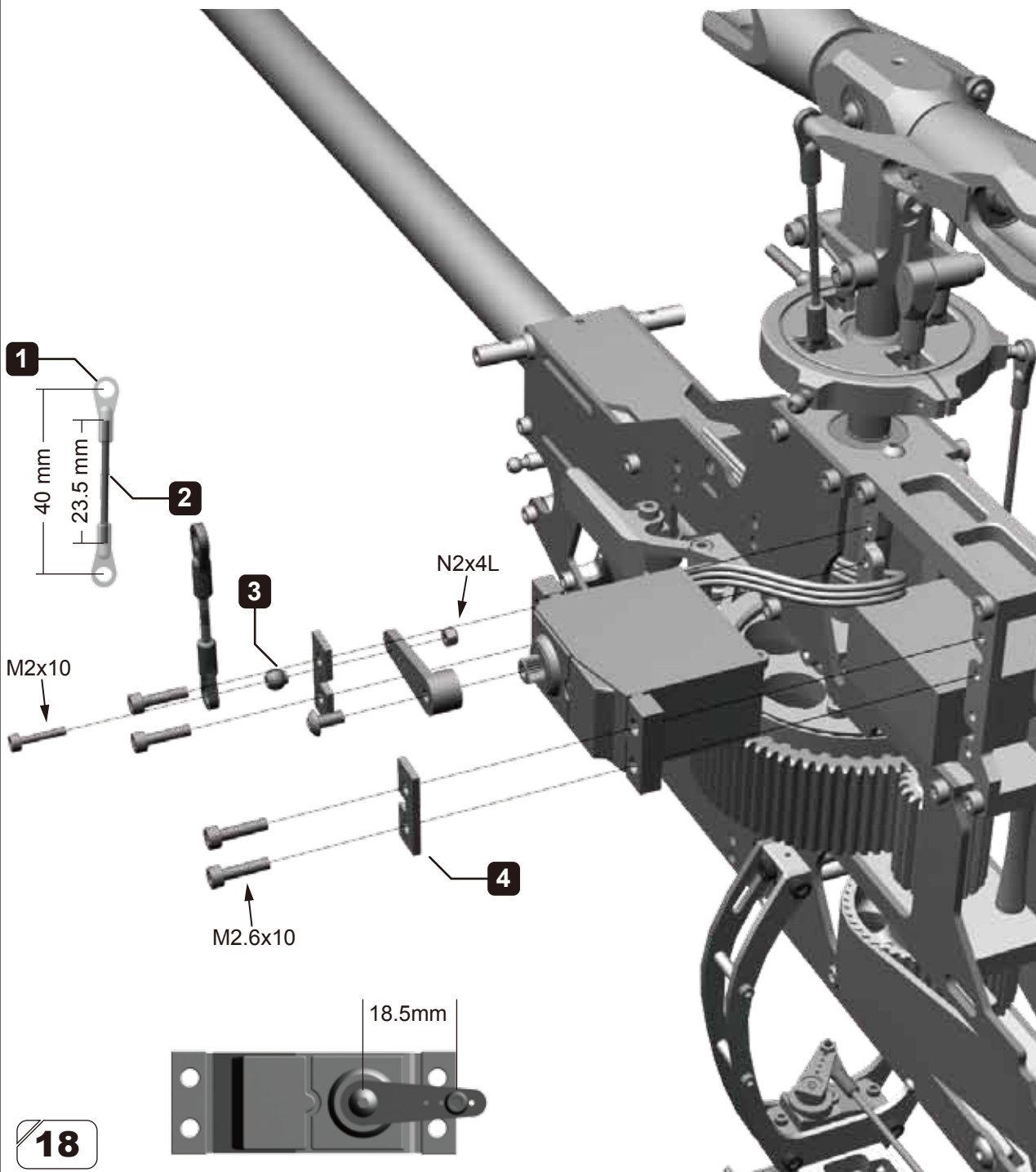


18







#0R1210	#0R7210	#0R8204
M2x10 x1 pcs	M2.6x10 x4 pcs	N2x4L x1 pcs
 	 	 

1	#0A8501	3	#0A8601
2	#0Z6205	4	#0A8001

Assemble the linkage and push on the ball head.
製作拉桿並扣上球頭。

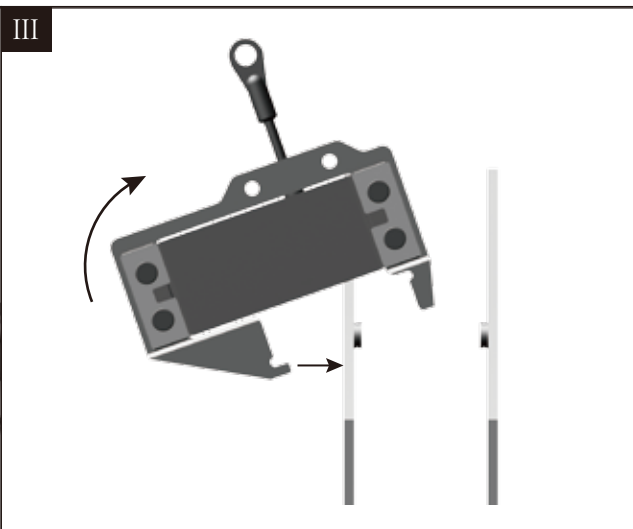
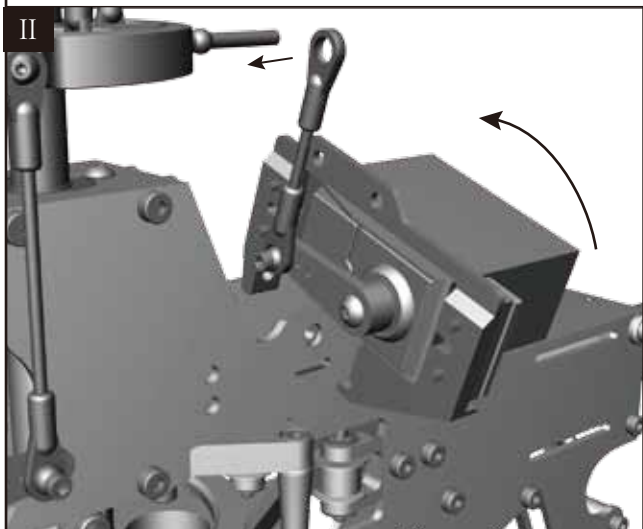
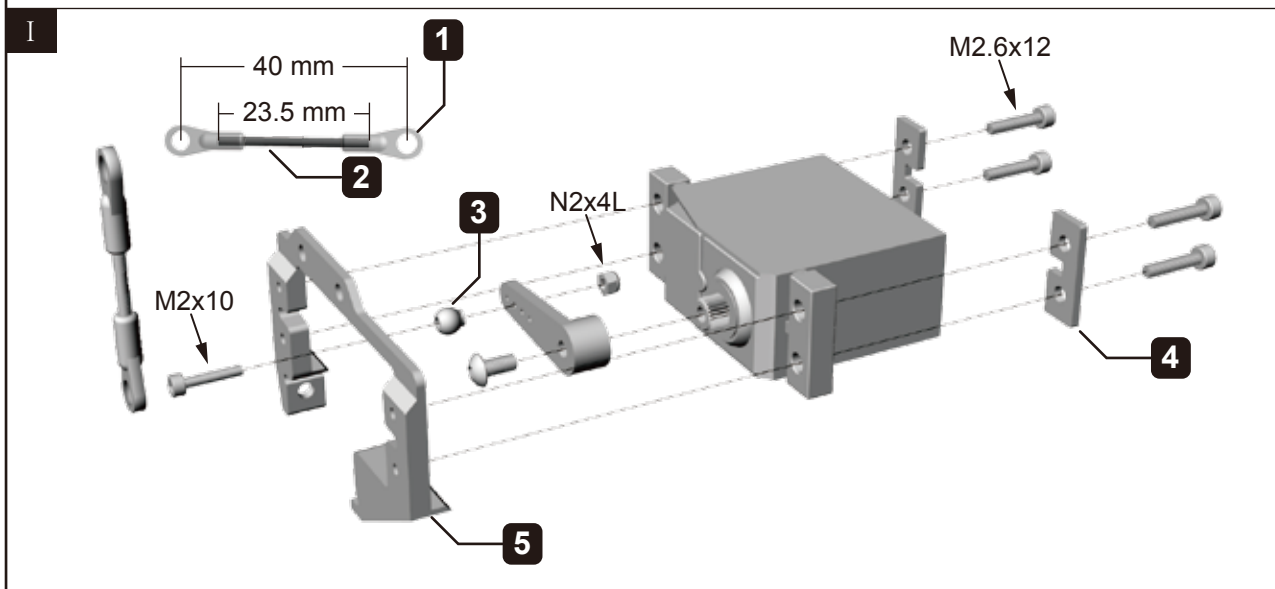


18







#0R1210	#0R7210	#0R8204
M2x10 x1 pcs	M2.6x10 x4 pcs	N2x4L x1 pcs
 	 	 

1 #0A8501	3 #0A8601
2 #0Z6204	4 #0A8001

1. Assemble the linkage and install on **I**.
 2. Assemble **I** on the side frame with instructions of **II**, **III**.
1. 製作拉桿並組裝**I**。
2. 配合**II**.**III**將**I**扣入機體側板。

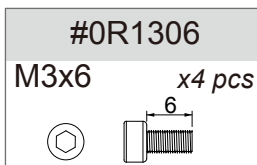
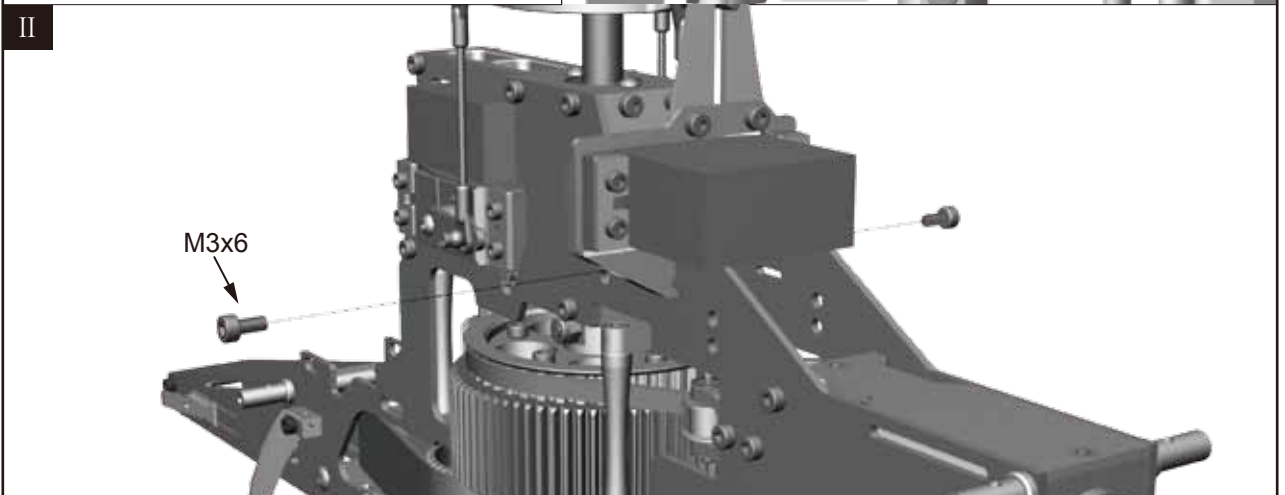
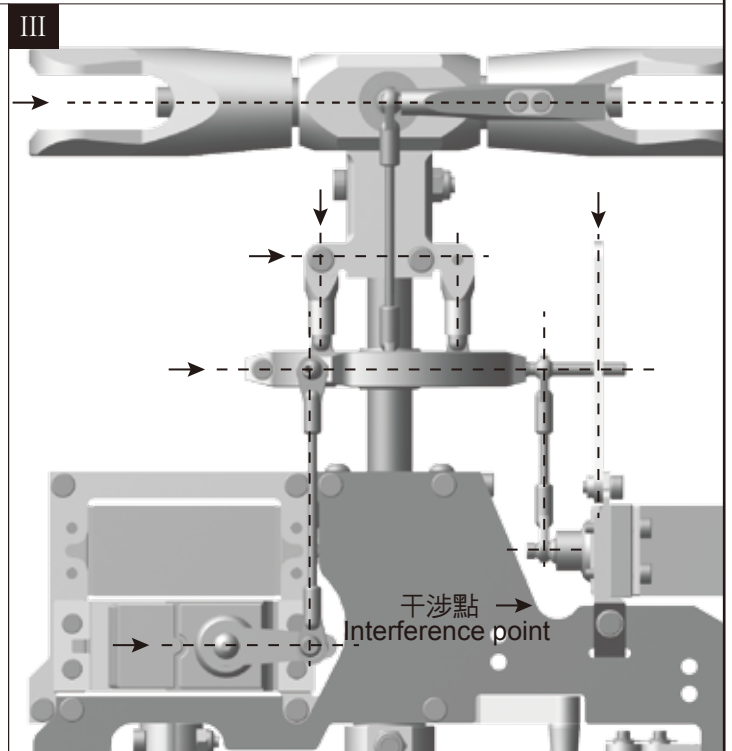
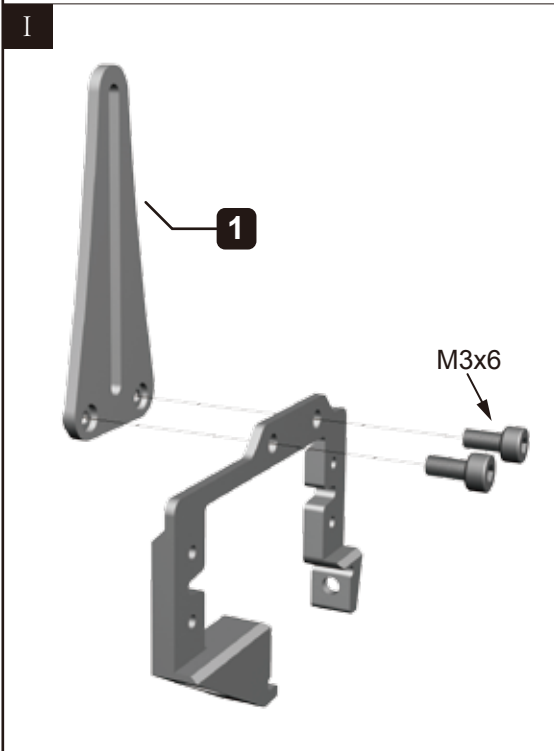


3 **18**

#0R1210	#0R7212	#0R8204
M2x10 x1 pcs	M2.6x12 x4 pcs	N2x4L x1 pcs
 	 	 

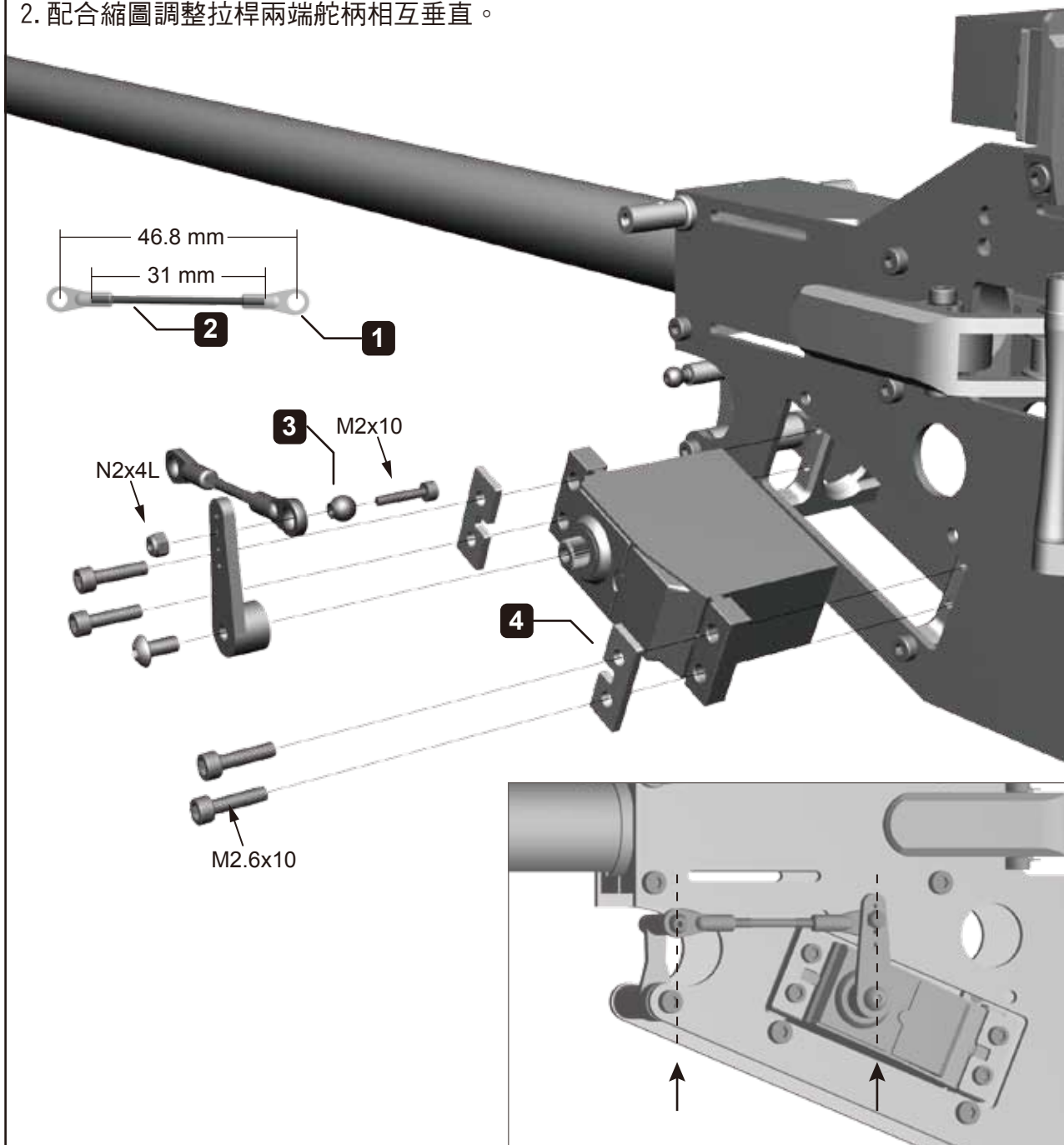
3	#0A8601
1	#0A8501
4	#0A8001
2	#0Z6204
5	#053259

1. Assemble **I** and mount on **II**.
 2. Confirm the perfect horizontal and vertical of **III**.
 3. Confirm no interference on the elevator movement, or adjust the servos till no moving interference occur.
1. 組裝 **I** 並鎖緊 **II**。
 2. 確認 **III** 各部位水平或垂直
 3. 確認升降舵作動不干涉，如遇干涉請前後調整伺服機至不干涉。









1 #053033

1. Assemble the linkage and push on the ball head.
 2. Adjust the linkage till moving arms vertical to the linkage.
1. 製作拉桿並扣上球頭。
 2. 配合縮圖調整拉桿兩端舵柄相互垂直。

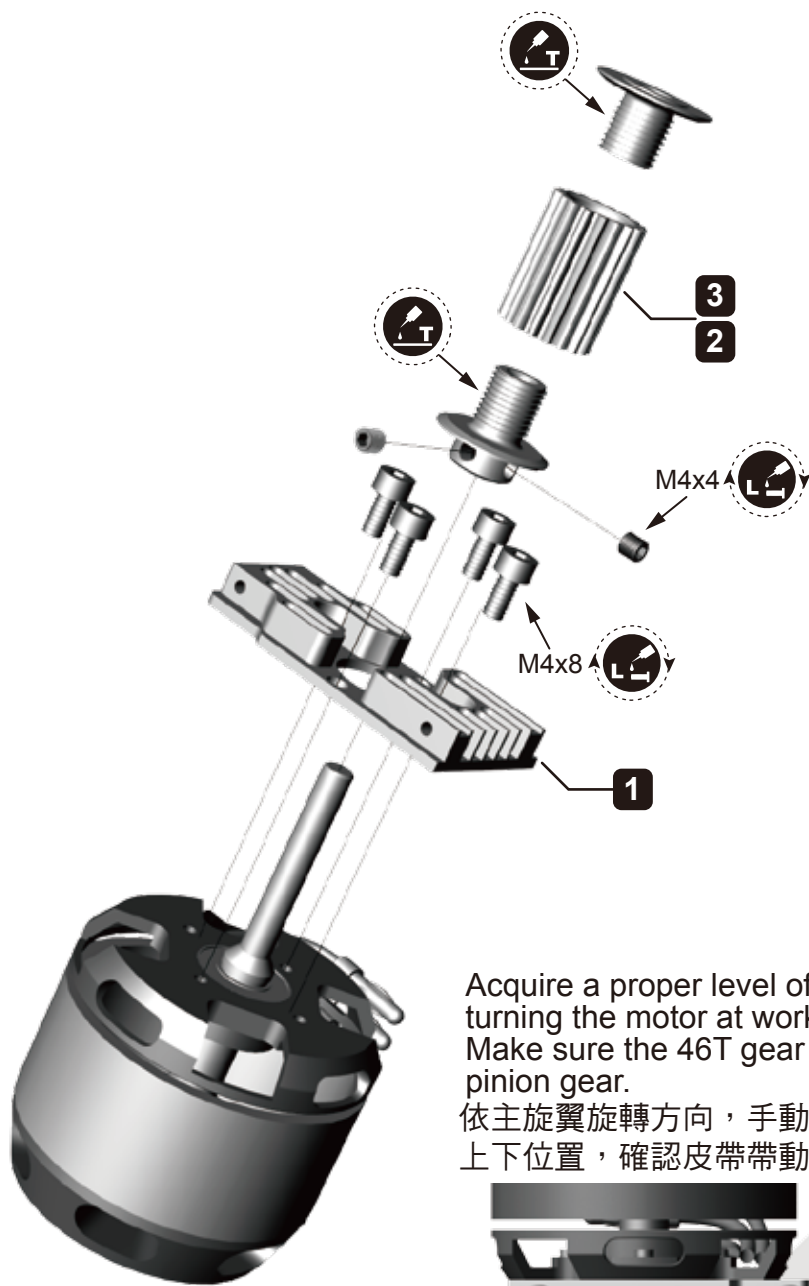


18

#0R1210	#0R7210	#0R8204
M2x10 x1 pcs	M2.6x10 x4 pcs	N2x4L x1 pcs
 	 	 

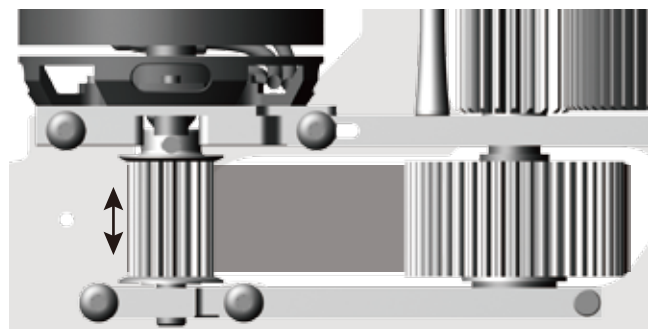
1	#0A8501	3	#0A8601
2	#0Z6201	4	#0A8001

Assemble **4** with screw glue, mount on the motor.
 使用缺氧膠組裝 **4**，再套入馬達軸心。



Acquire a proper level of pinion gear by hand turning the motor at working direction. Make sure the 46T gear properly driven by the pinion gear.

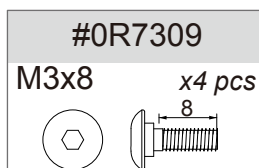
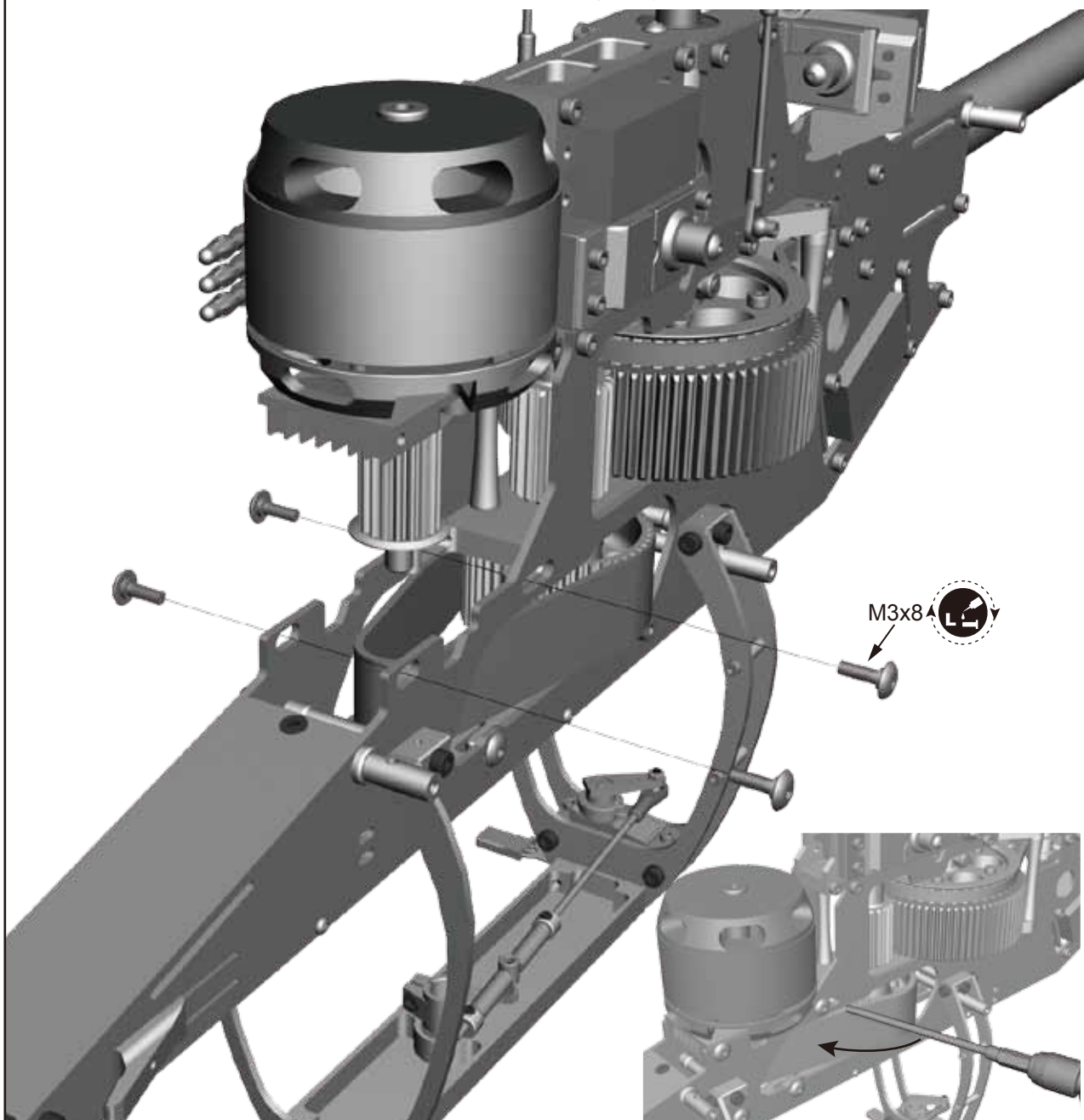
依主旋翼旋轉方向，手動轉動馬達在調整馬達齒上下位置，確認皮帶帶動時有準確咬合46T齒輪。

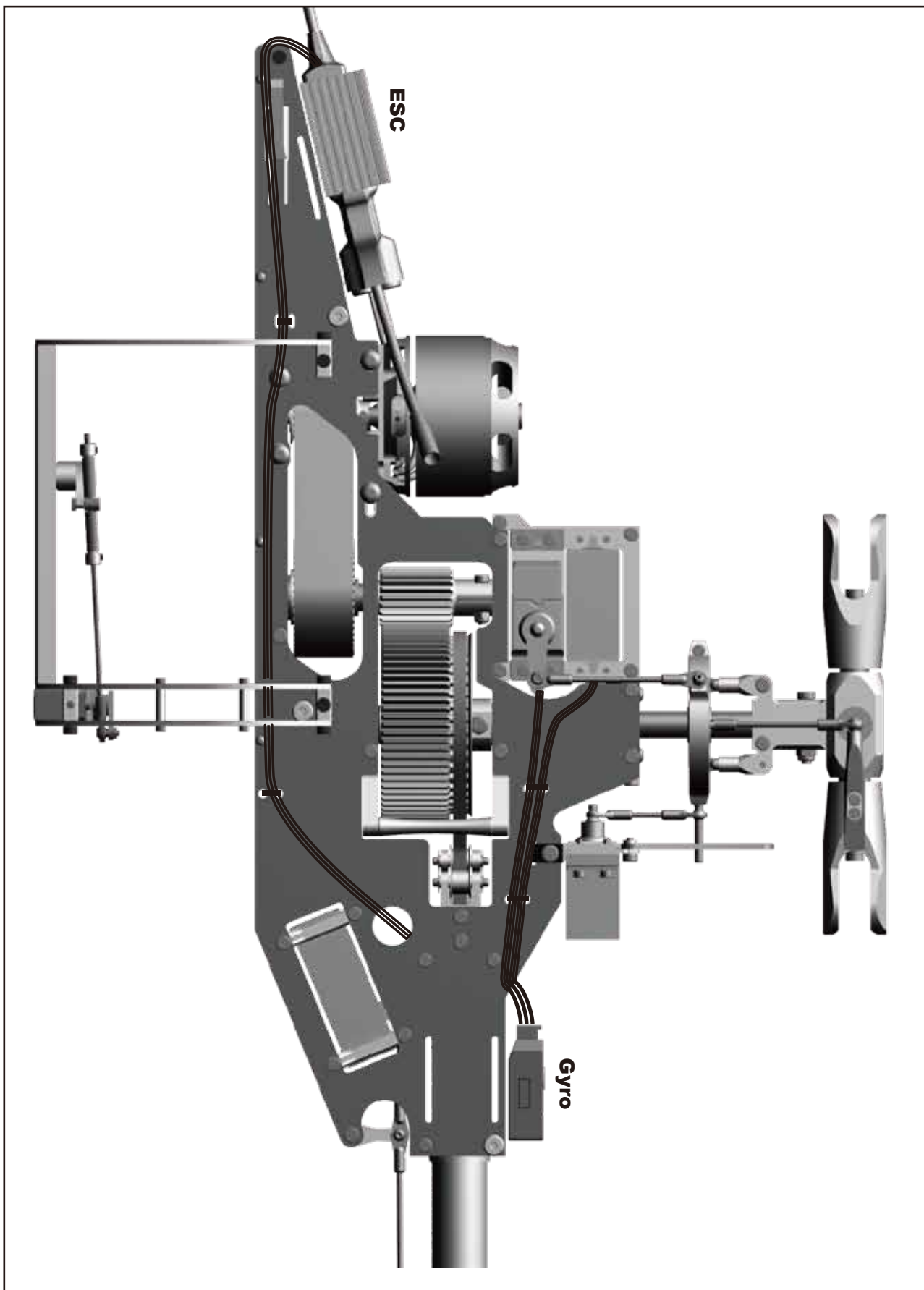


9	10
#0R4404	#0R1408
M4x4	M4x8
x2 pcs	x4 pcs

1	#053255
3	#053269
2	#053270

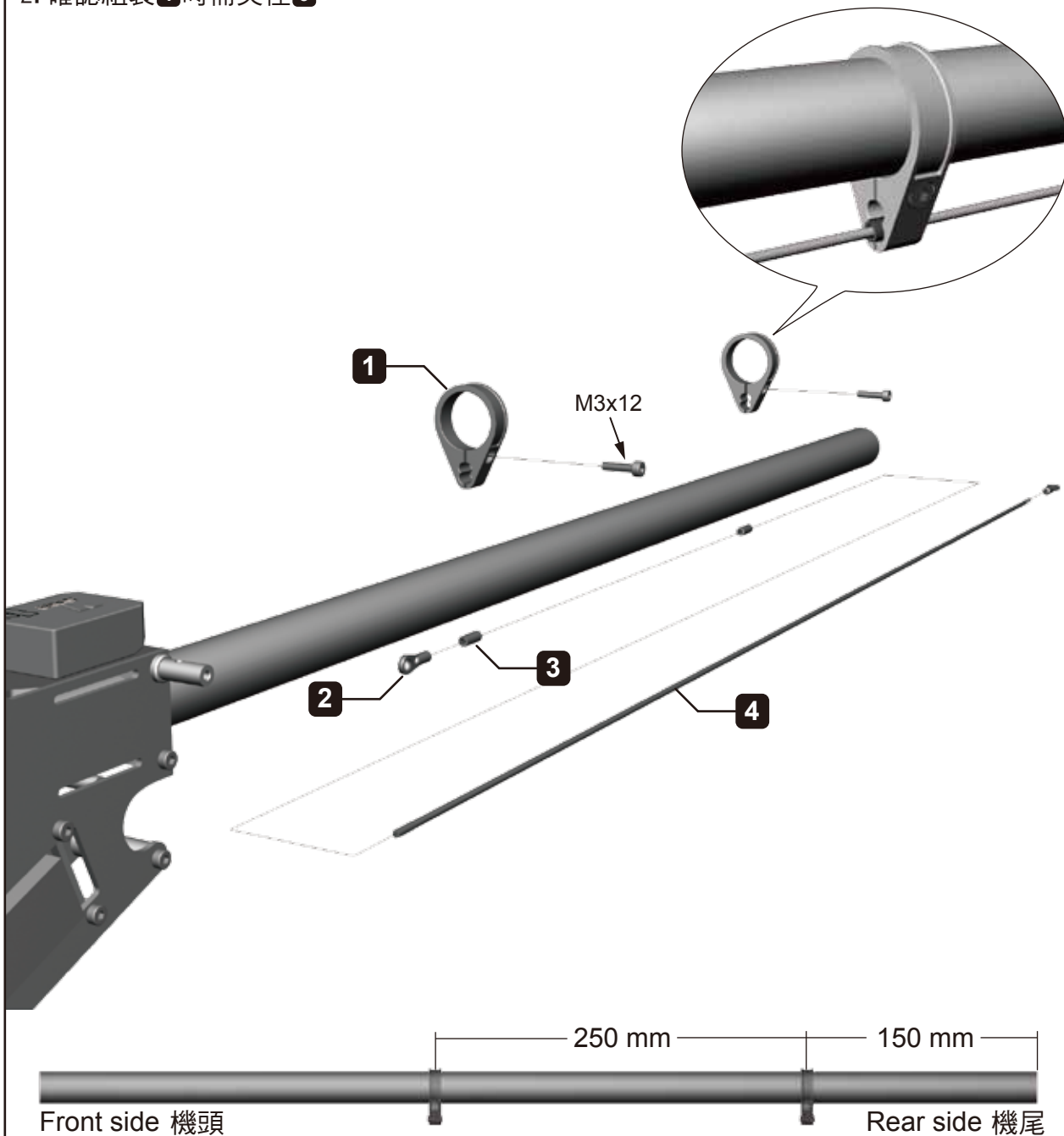
1. Assemble the motor set on the main body
 2. Acquire a proper belt tension by inserting a stick in the ellipse hole, adjusting the belt tension by pushing the motor mount forward by the stick.
Lock by screw M3x8 when the belt tension is right.
1. 將馬達總成組裝至機體上。
 2. 使用圓棒插入前端橢圓孔，以槓桿式調整皮帶鬆緊度在鎖緊M3x8。





電子裝備走線圖 Cable arrangement P.27

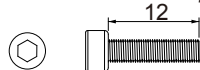
1. Assemble **1** and **4** adjust position of **1** as below
 2. Ensure **3** been clipped properly while assemble **1**.
1. 組裝**1**及**4**並調整**1**位置如下。
 2. 確認組裝**1**時需夾住**3**。



15 **18**

#0R1312

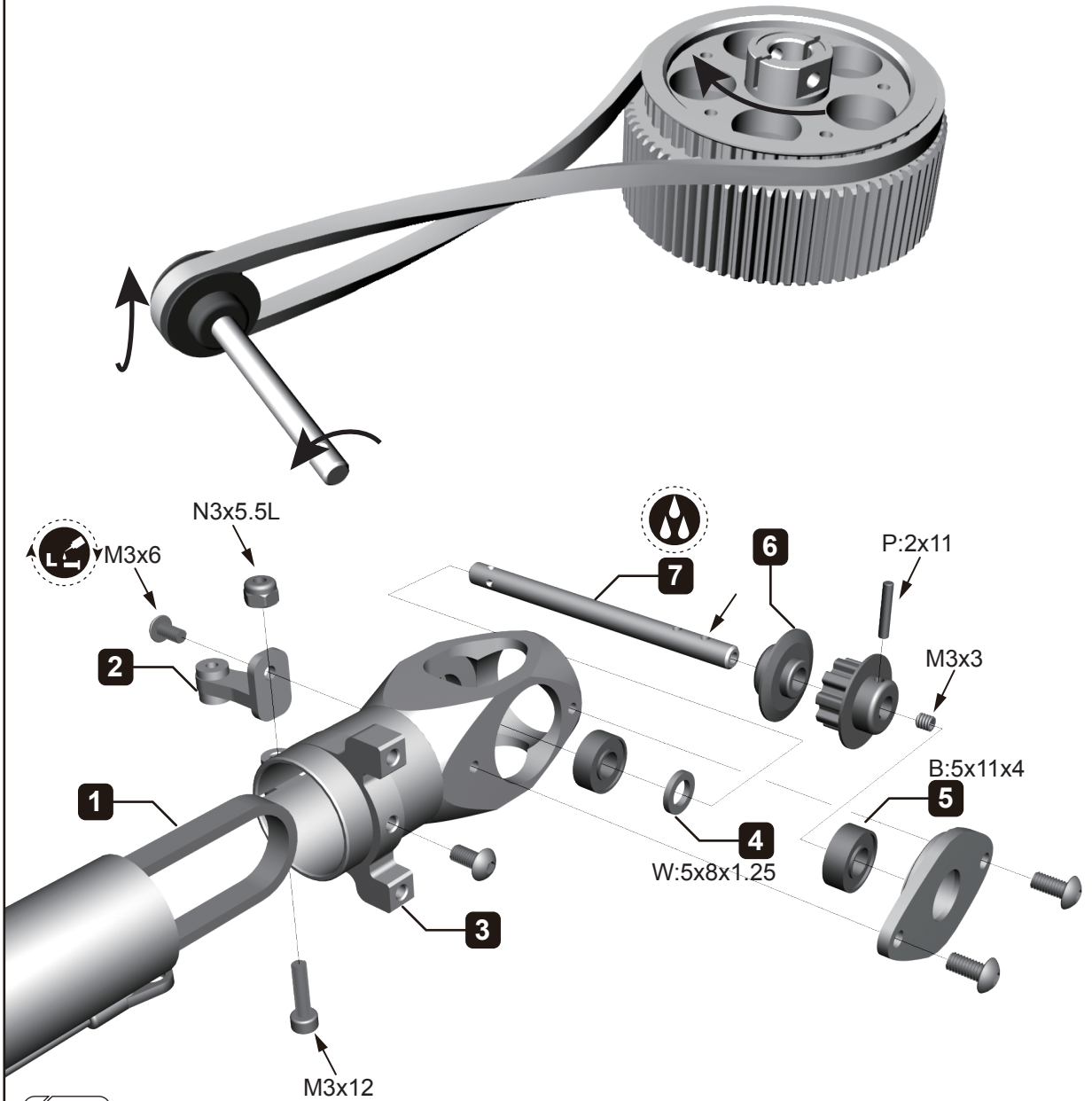
M3x12 x2 pcs



1	#0A3006	3	#0W2401
2	#0A8501	4	#055247

P.28 Tail assembly 尾部總成組裝

Note the correct turning direction of belt during assembly of **3**.
 Assemble **7** through **1**, and assemble other parts accordingly.
 組裝**3**時需確認皮帶翻轉方向如圖，在將**7**穿過**1**並依序組裝。

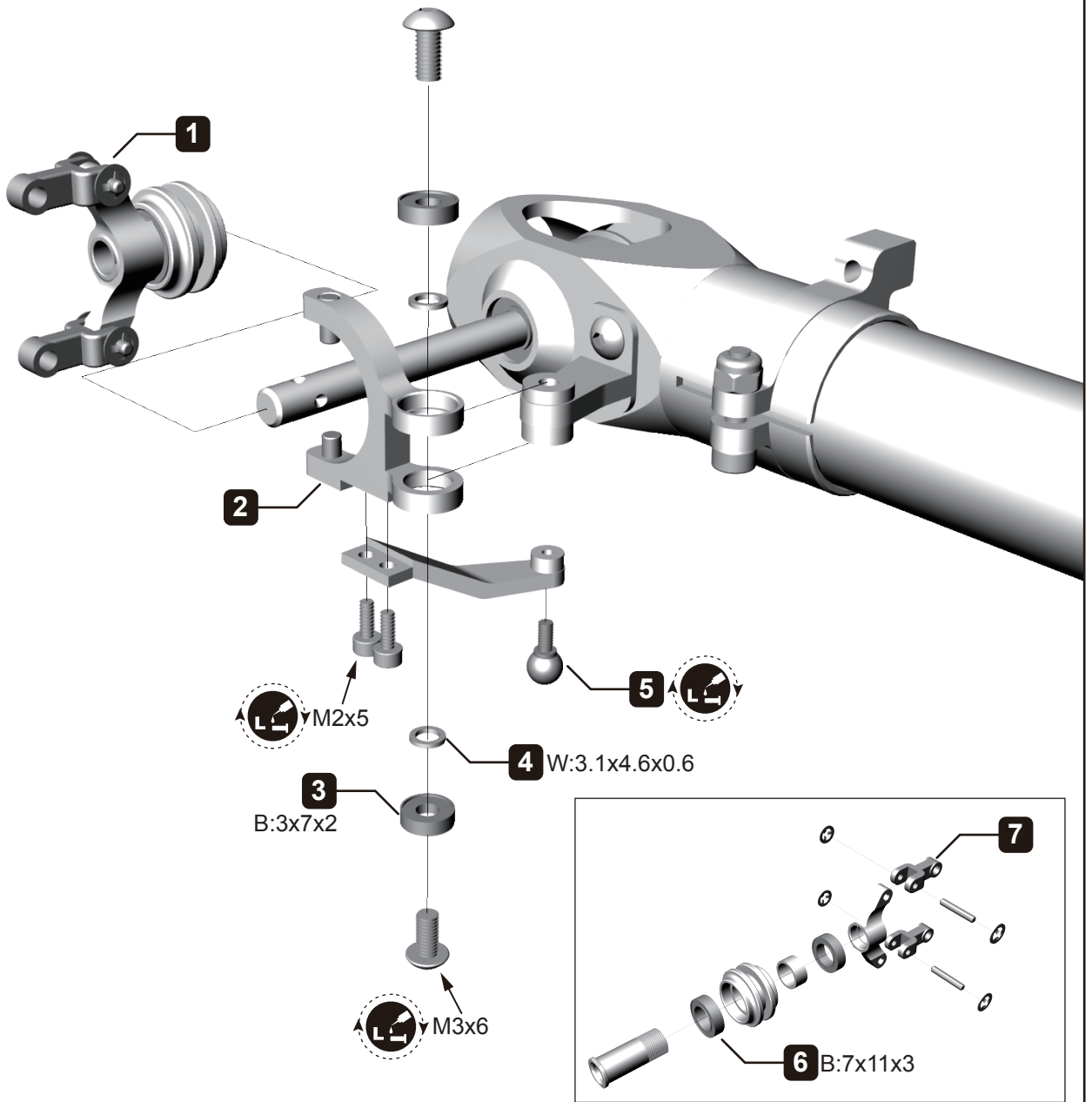


15





#0R4303 M3x3 x1 pcs	#0R8305 N3x5.5L x1 pcs
#0R1312 M3x12 x1 pcs	#0R2306 M3x6 x4 pcs

4	#0W5802
1	#055401
5	#0B1503
2	#0A3008
6	#055402
3	#0A3010
7	#0A3017

Assemble **1** on the tail output shaft and assemble other parts accordingly.
 將**1**套入尾軸並依序組裝。



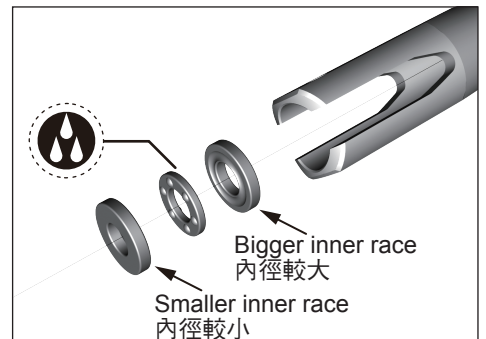
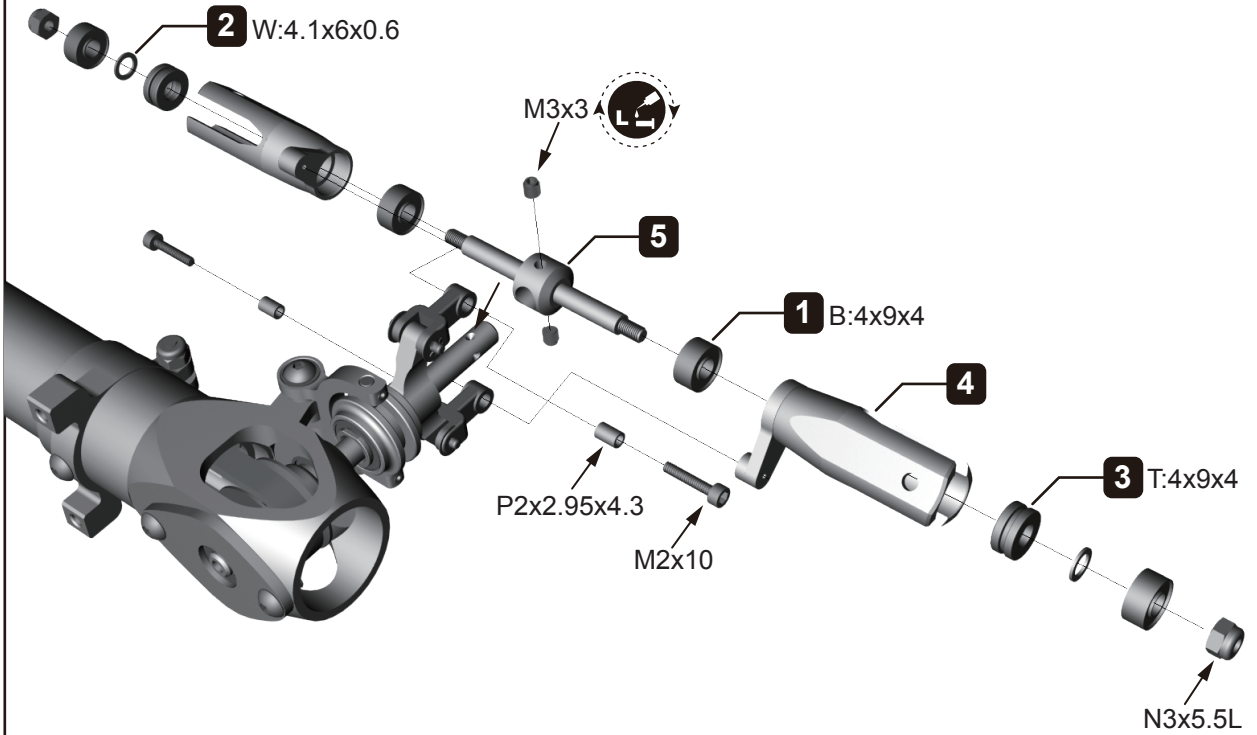
19

#0R1205	#0R2306
M2x5	M3x6
x2 pcs	x2 pcs
	
	

4	#0W3401
1	#0A3007
5	#0A8621
2	#0A3009
6	#0B1701
3	#0B1301
7	#0A3001

P.30 Tail assembly 尾部總成組裝

Assemble the tail blade grips, note correct direction of thrust bearings.
 組裝尾旋翼夾頭並確認止推軸承方向。



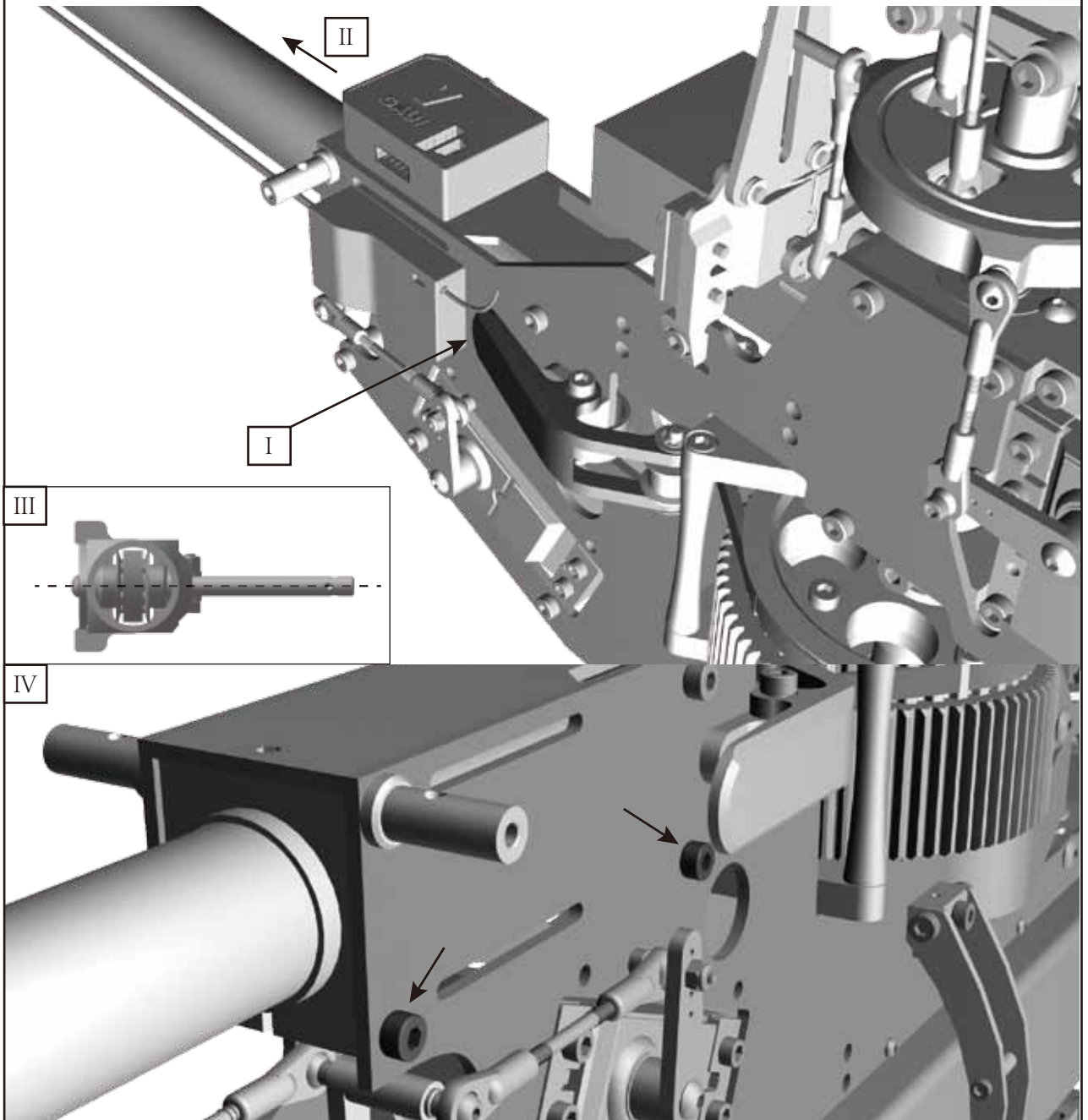
19

#0R8305 N3x5.5L x2 pcs	#0R1210 M2x10 x2 pcs	#0R4303 M3x3 x2 pcs

3 #0B2401	4 #0A3012
1 #0B1401	5 #0A3011
2 #0W4601	

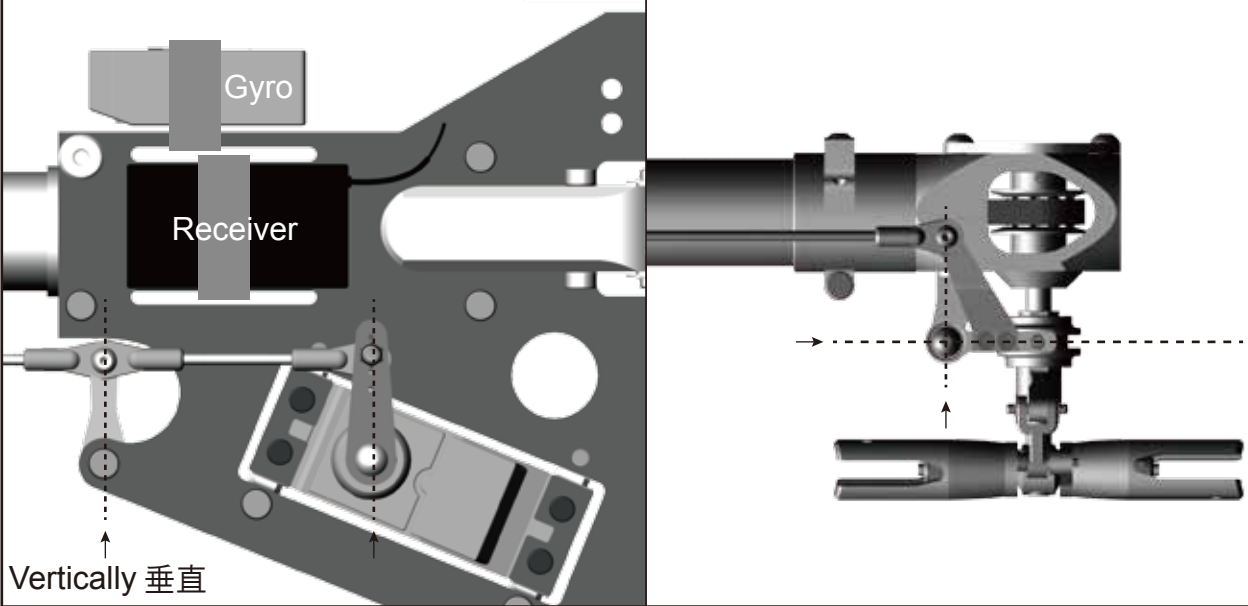
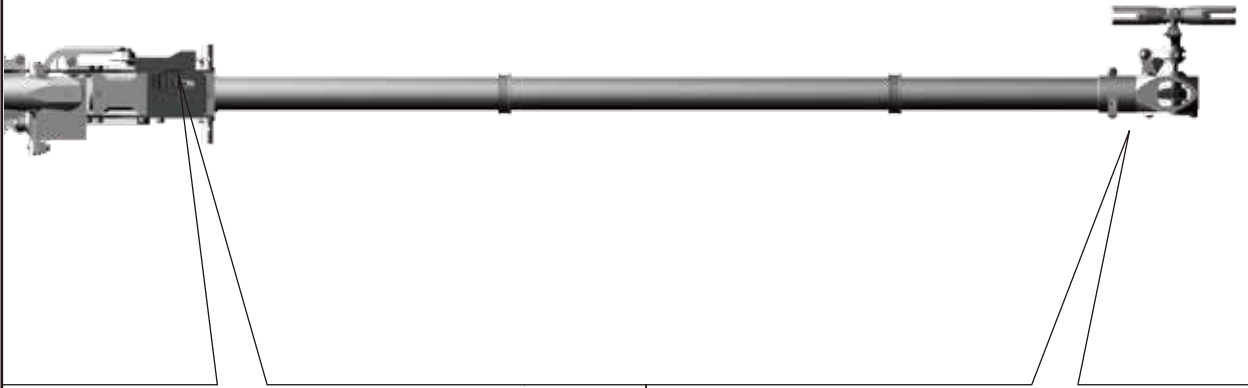
1. Push **I** toward side frame, keep it in “lock status”
2. Pull **II** tail boom backward.
3. Keep **III** horizontally.
4. Release **I** after tightening the screw M3x20 on **IV**.

1. 請依圖示將 **I** 壓往側板靠緊，並保持壓住狀態。
2. 將 **II** 尾管往後拉動。
3. 保持步驟1壓住狀態確認 **III** 水平位置。
4. 將 **IV** M3x20螺絲鎖緊後，即可鬆開 **I**。



P.32 Belt tensioner adjustment 尾皮帶鬆緊調整

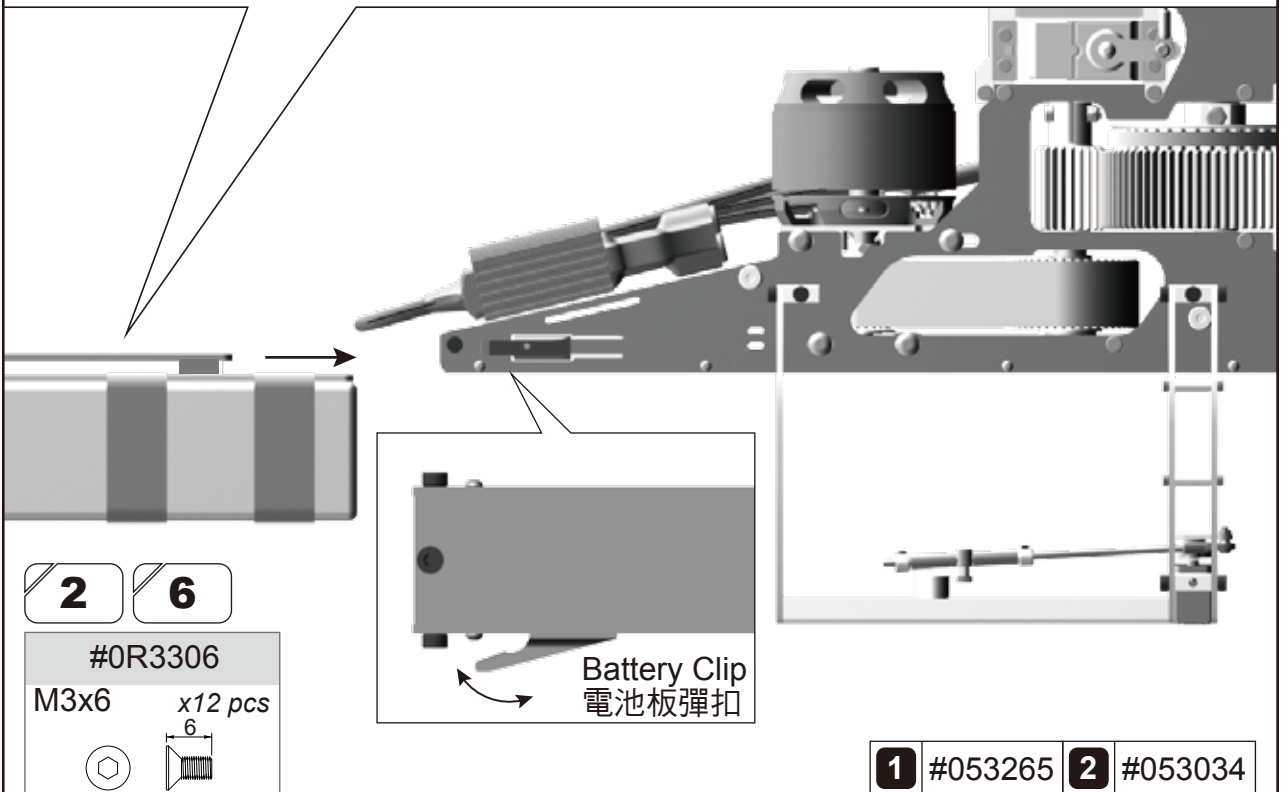
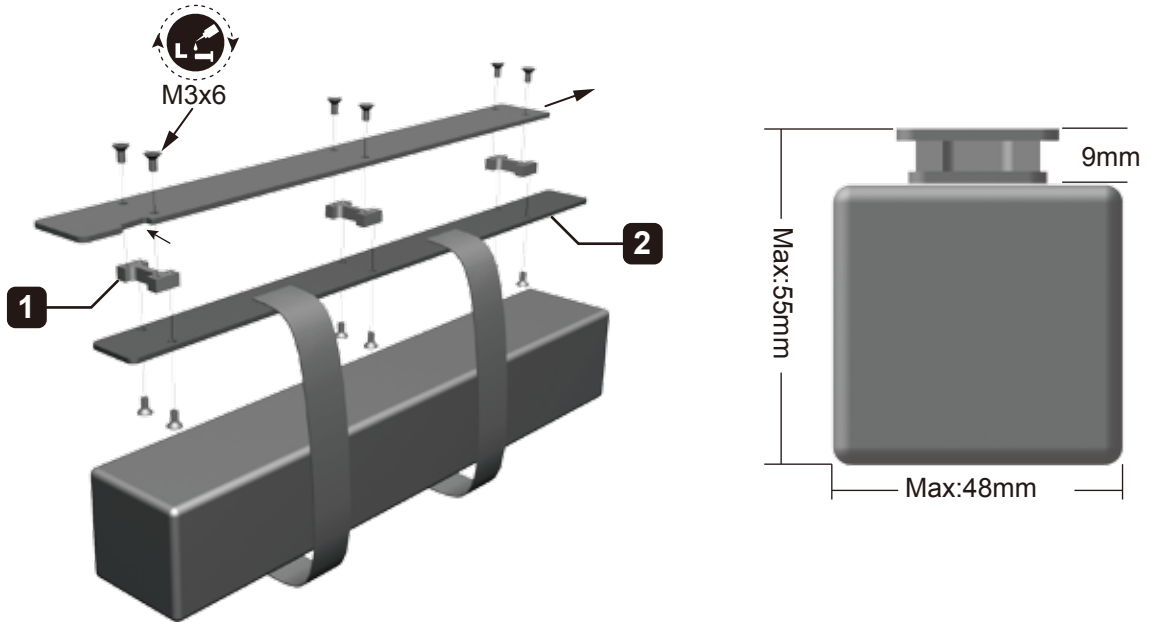
Adjust for proper length of tail push rod. Keep servo horn, tail push rod, tail rotor control set vertical and horizontal to the tail fins.
調整尾拉桿長度，保持伺服機及尾舵垂直與水平。



1. Assemble the CF battery tray, note correct position of the notch.
2. Max. battery size 55mm x 48mm.
3. Insert the battery in the main body, ensure no interference while moving battery in and out.
4. User will hear the sound “ka” when inserting battery to the bottom.

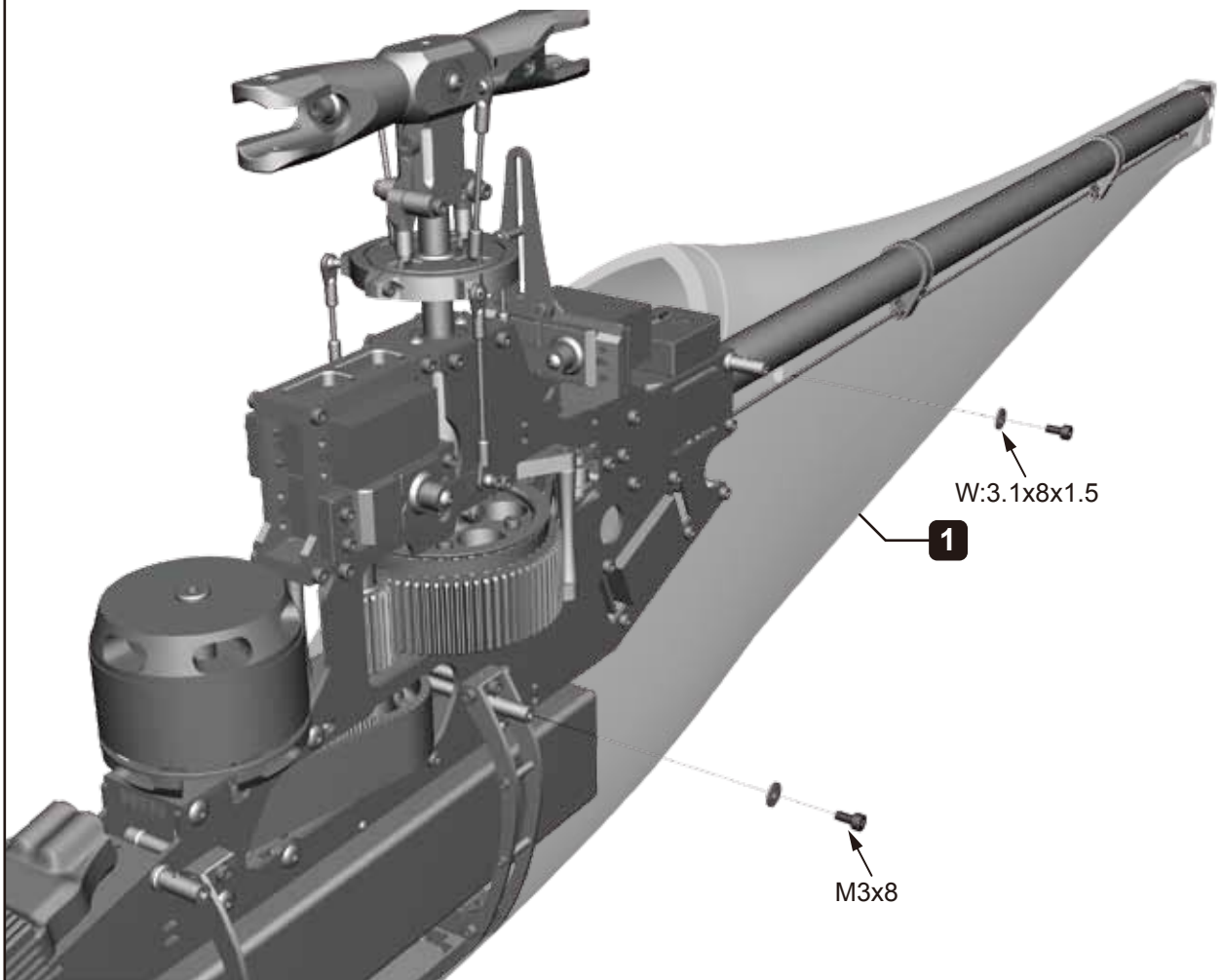
Open the battery clip to remove battery.

1. 組裝電池板組並注意凹槽位置。
2. 確認電池組最大尺寸不可超過 55mm x 48mm。
3. 將組裝好的電池試插入機體內，確認無干涉問題。
4. 電池插入至底時會喀的一聲，可扳開電池板彈扣抽出電池。



P.34 Battery plate assembly 電池板組裝

1. Confirm the battery assembly and the tail assembly are correct.
 2. Remove the tail assembly, insert the tail boom to the body.
1. 確認電池組裝及尾管總成組裝無誤後，再將尾部總成卸下並套入機殼。
 2. 重複P. 29 ~ P. 32組裝調整尾部總成



18

#0R1308

M3x8 x4 pcs

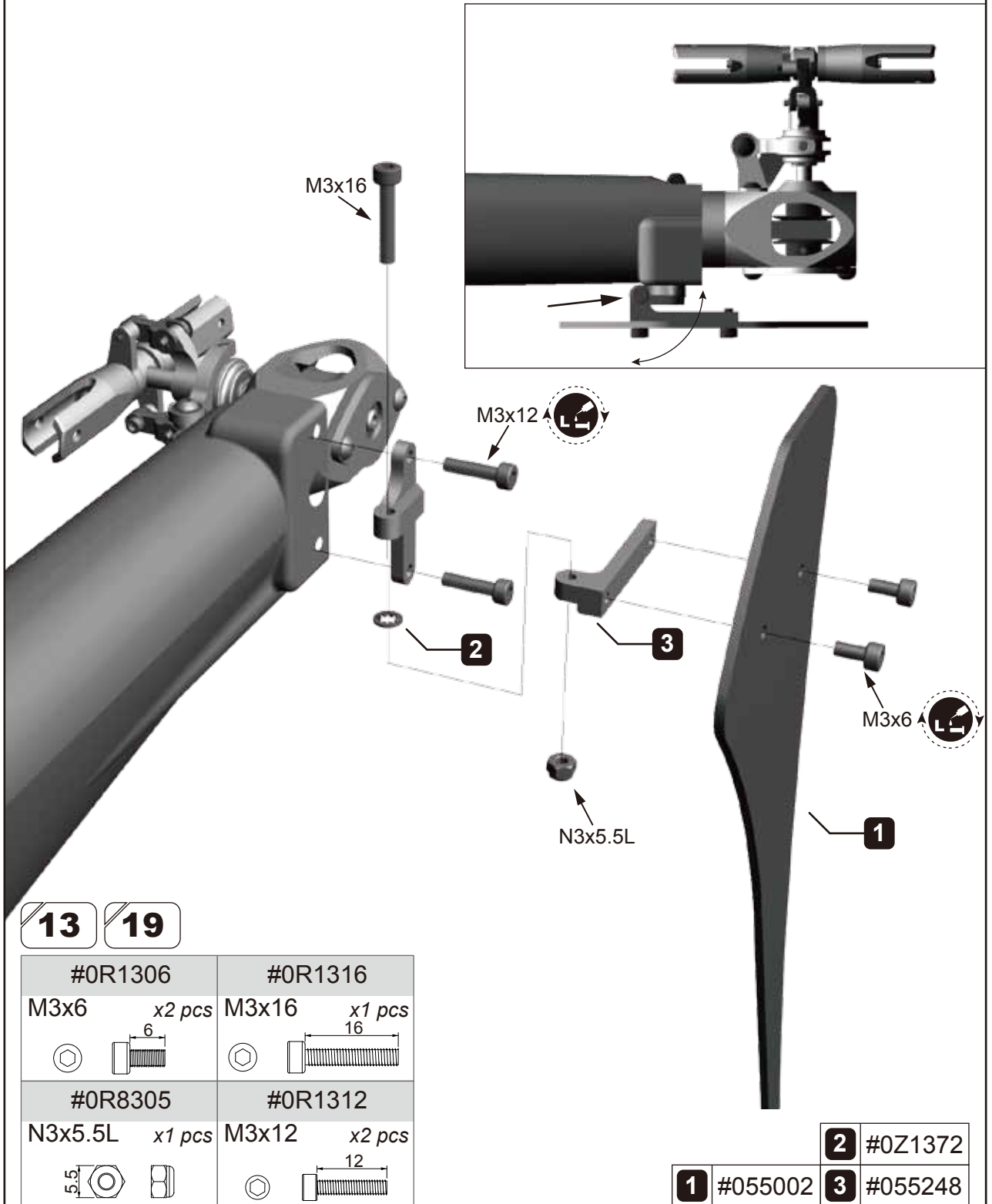


1

#057031

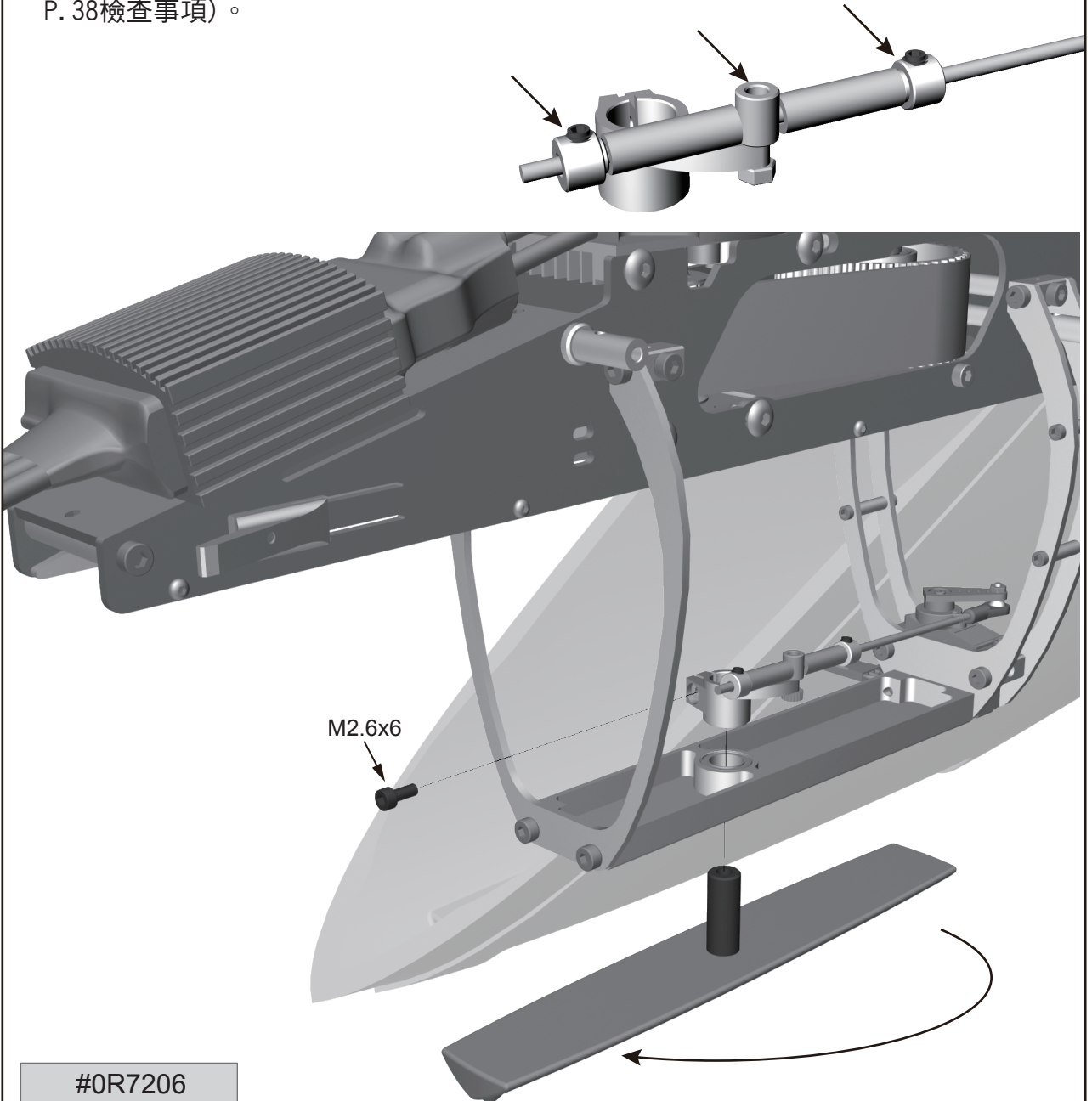
1. Tighten the screws accordingly.
2. The angle of tail fin can be varied by adjusting the screw M3x16.

1. 依圖示組裝並鎖緊螺絲。
2. 調整M3x16螺絲可改變垂直尾翼修正角度。



P.36 Vertical stabilizer assembly 垂直尾翼組裝

1. Inserting **1** to the frame baseplate. Confirm no interference on 90 degree turning
 2. Confirm neutralization of servo, trimming for perfect fitting of baseplate and body, tighten screw M2.6x6.
 3. Adjust both collars for proper force from both silicon tubes, which will keep landing pad stay in position with proper play during flight (make sure the landing pad with correct retracting movement, see Page 38 Retractor servo inspection)
1. 將**1**插入底座至底，並確認90度旋轉不干涉。
 2. 確認伺服機中立並調整底板與機殼切齊後，再將M2.6x6螺絲鎖緊。
 3. 請調整拉桿兩端襯套固定距離，控制膠管與中央轉接柱的緊度，可避免飛行當中出現底板晃動過大，影響飛行速度並保持一定的彈性(確認調整後的底板作動正常並符合P. 38檢查事項)。



M2.6x6

#0R7206

M2.6x6 x1 pcs

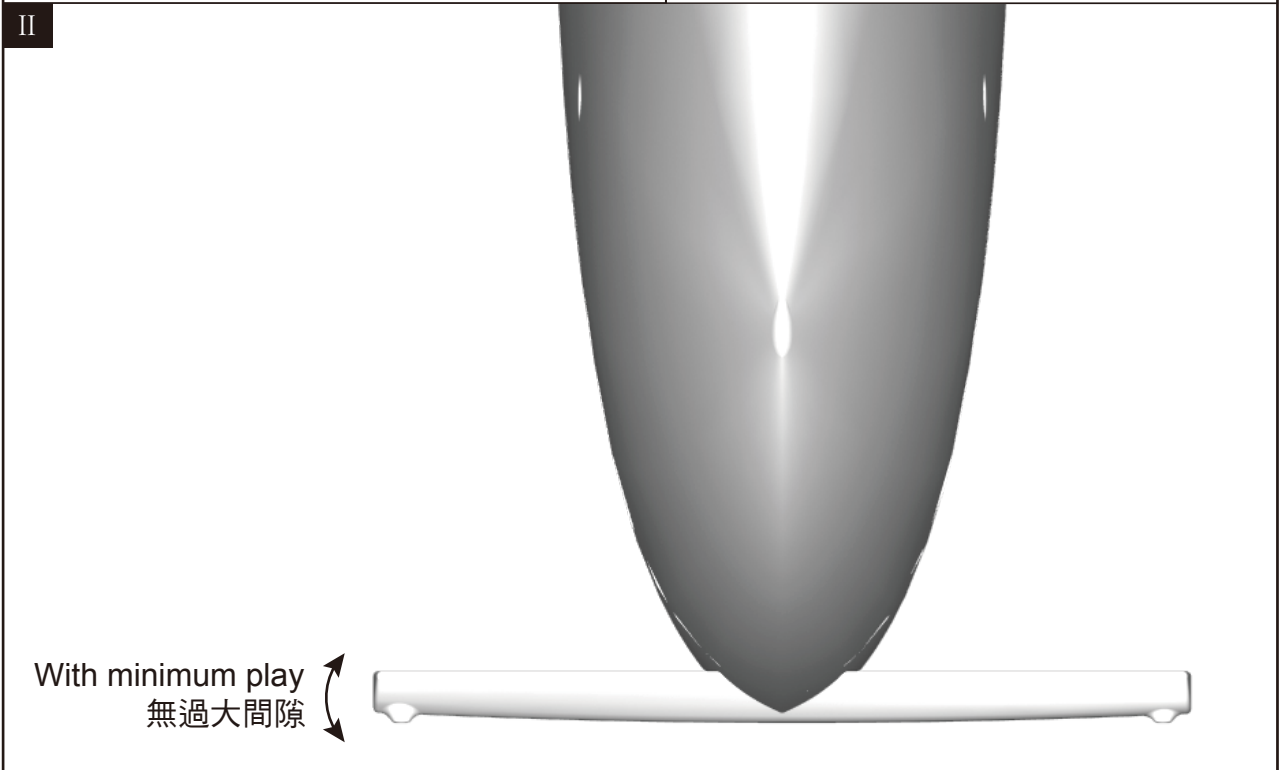
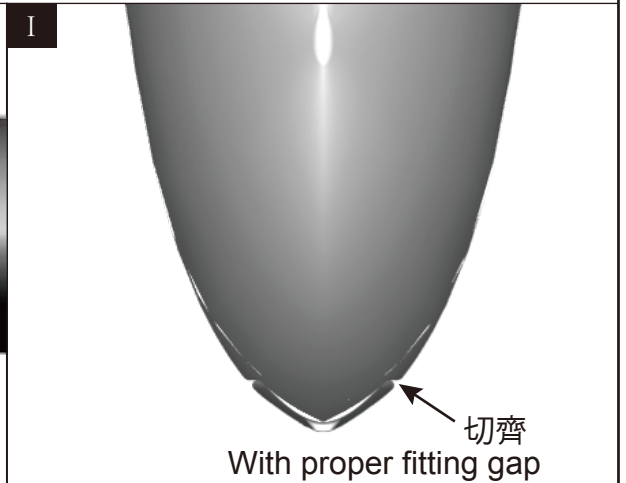
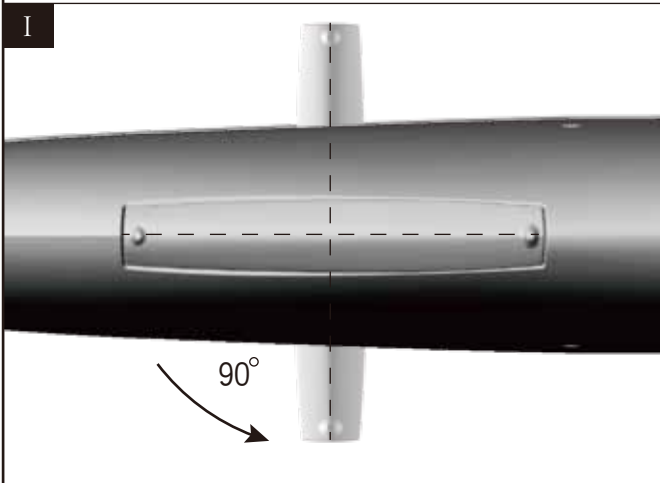


Retractor servo inspection.

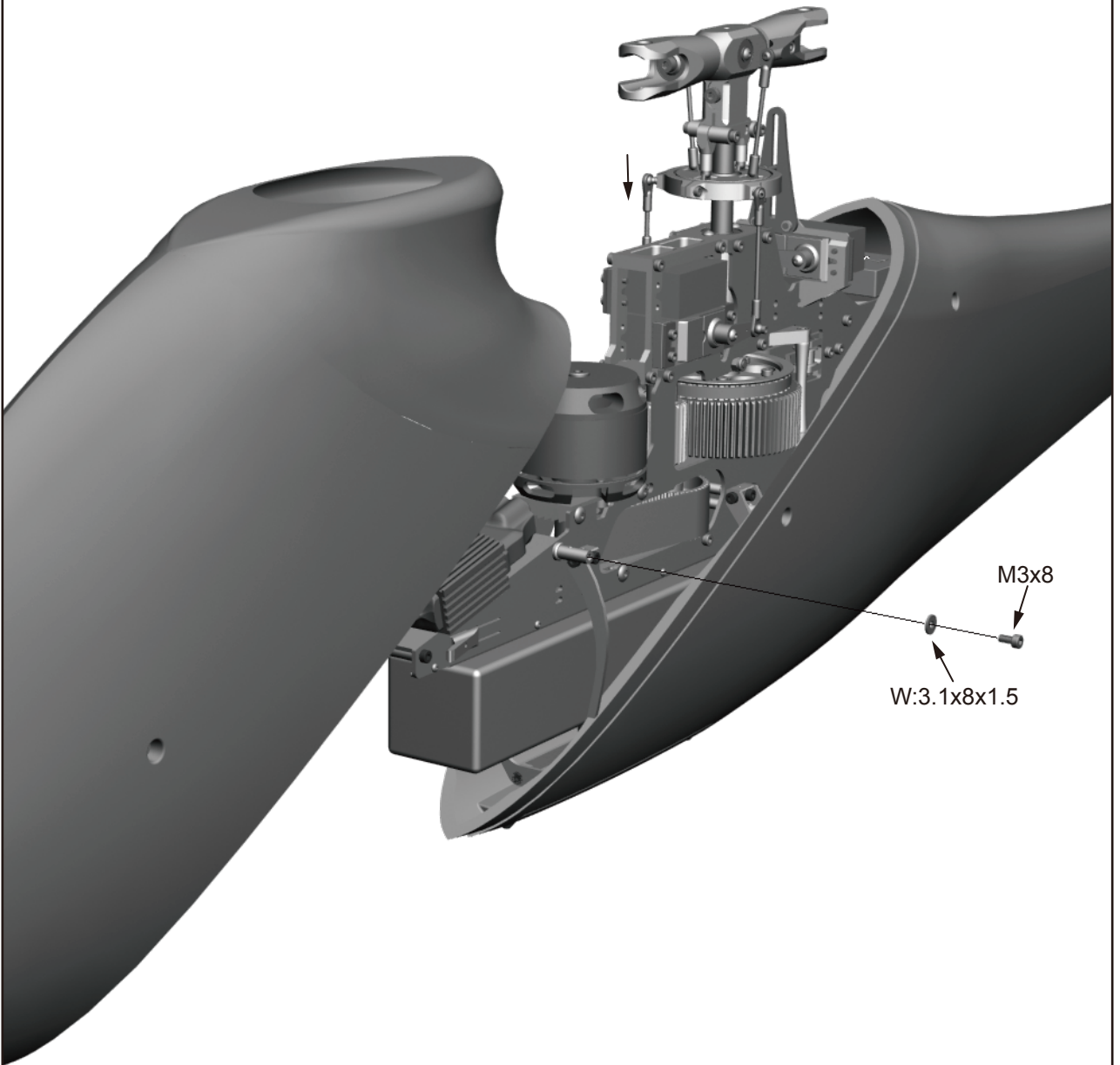
1. Confirm the retractor **I** right angle to the main body vertically and horizontally, with proper fitting gap on body canopy.

將腳板伺服機通電後檢查以下步驟。

1. 確認**I**腳板收放與機體成90度及切齊機殼外緣。
2. 對照**II**旋轉腳板呈90度，確認腳板與機殼上下無過大間隙。



Pull the swashplate assembly downward while assembling with the body canopy.
Turn the rotor head to avoid interference while the body canopy fitting in.
組裝機殼罩時可將十字盤總成往下拉，並旋轉旋翼頭可避免干涉造成機殼罩難以套入。



18

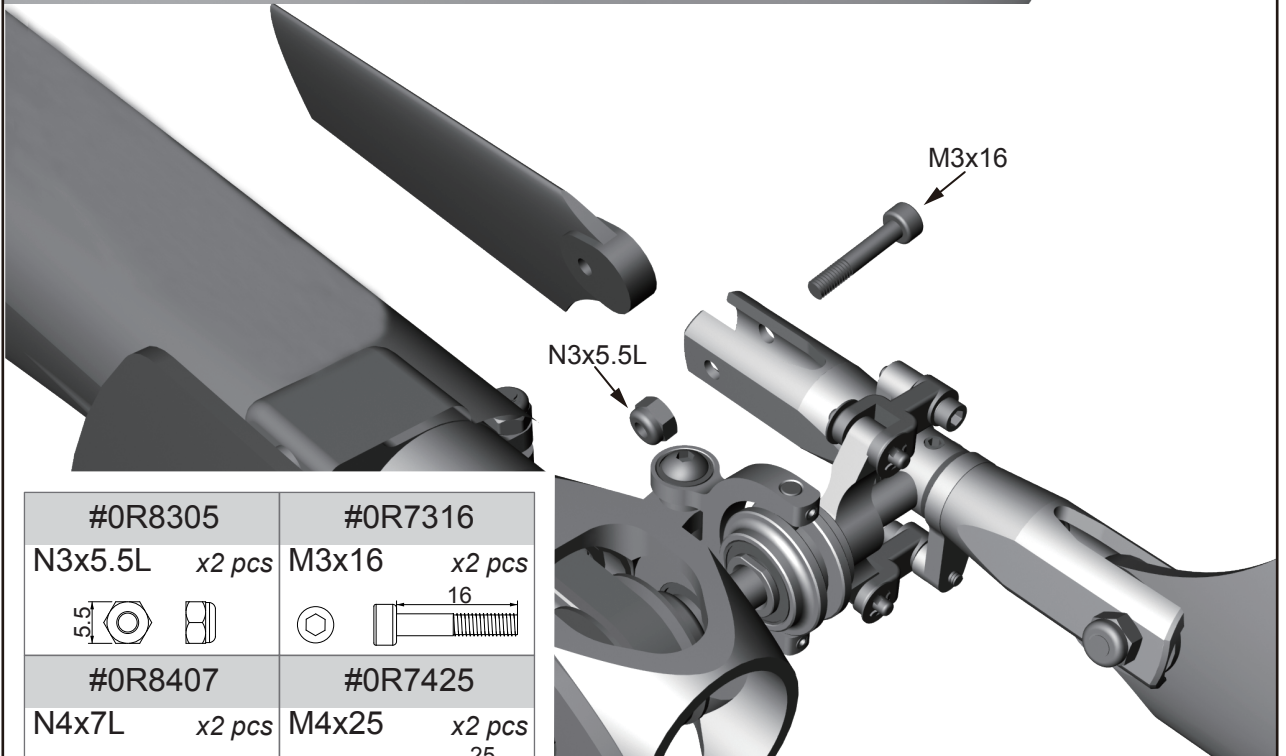
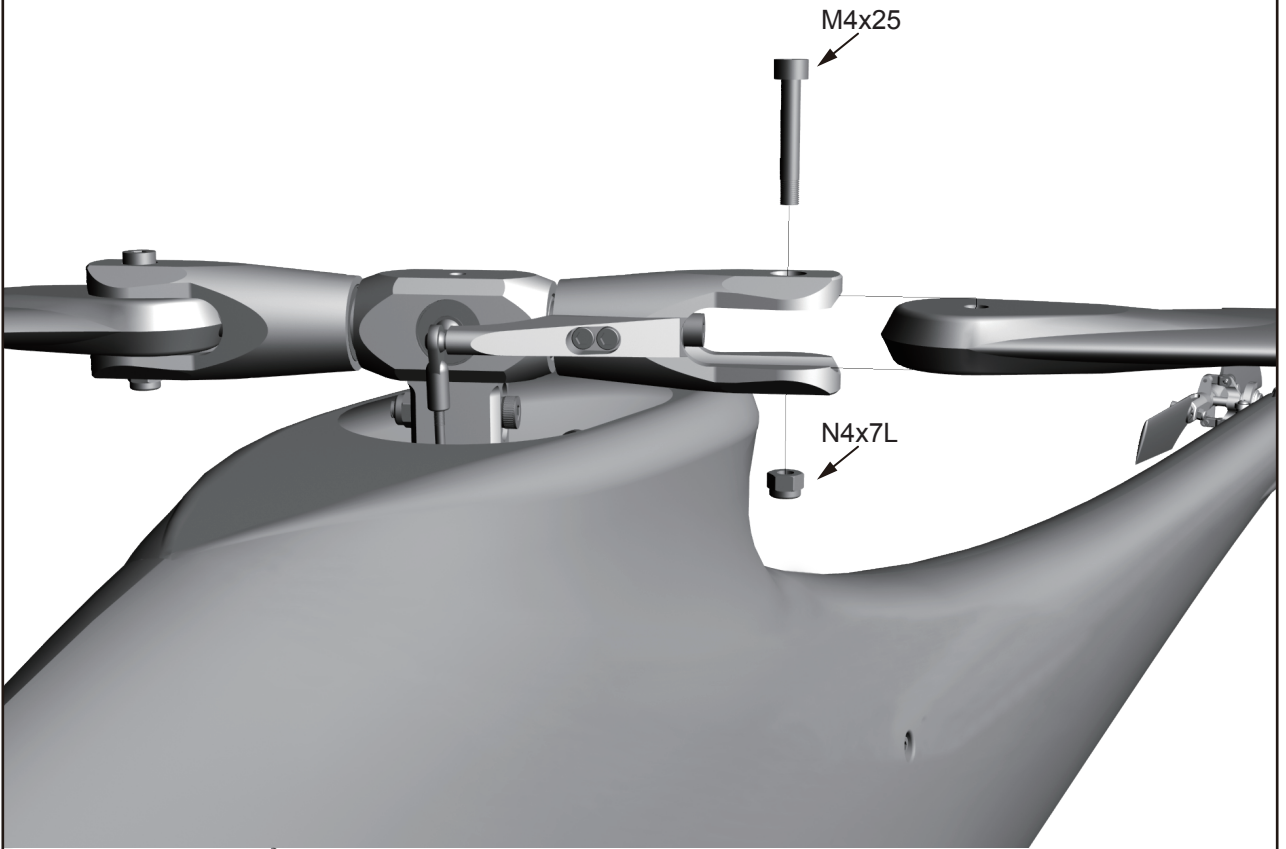
#0R1308


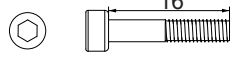

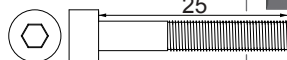
M3x8

x2 pcs



Assemble the main blades and the tail blades.
組裝主旋翼及尾旋翼。



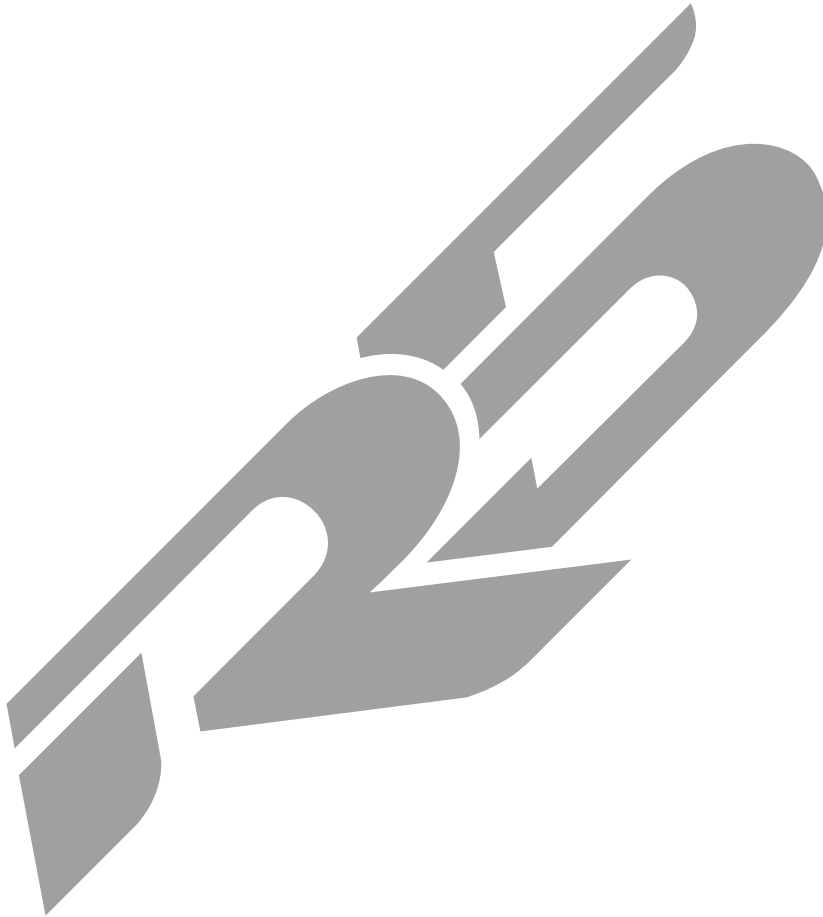
#0R8305	#0R7316
N3x5.5L x2 pcs	M3x16 x2 pcs
	
#0R8407	#0R7425
N4x7L x2 pcs	M4x25 x2 pcs
	

051251	CNC Main Rotor Yoke Set (Silver anodized)(for R5)	CNC主旋翼頭(陽極亮銀) (for R5)
051252	CNC Main Grip Set (Silver anodized)(for R5)	CNC主旋翼夾頭(陽極亮銀) (for R5)
051253	Main Blade Grip Control Arm (Silver anodized)(for R5)	主旋翼夾頭舵柄(陽極亮銀) (for R5)
051254	CNC Washout Arm Assembly(Silver anodized)(for R5)	CNC剪型臂(陽極亮銀) (for R5)
051255	CNC Swashplate (Silver anodized)(for R5)	CNC十字盤(陽極亮銀) (for R5)
051256	Main Rotor Head Spindle(for R5)	主旋翼橫軸 (for R5)
051257	Main Shaft 175mm (for R5)	主軸175mm (for R5)
051258	Stainless Linkage (4.8mm) Balls	十字盤不銹鋼(4.8mm)球頭組
051259	Spindle Spacer & Screw Set	橫軸螺絲及墊片
051451	Damper rubber (Hardness 95)(for R5)	橫軸橡皮墊(硬度95) (for R5)
053031	CF Right Main Frame (2mm)(for R5)	碳纖側板(2mm) (for R5)
053032	CF Divider Frame Set (2mm)(for R5)	碳纖隔板組(2mm) (for R5)
053033	Carbon Fiber Swashplate Guide (for R5)	碳纖滑軌板 (for R5)
053034	CF Battery Tray (2mm)(for R5)	碳纖電池板組(2mm) (for R5)
055002	CF Tail Fins Set (2mm)(for R5)	碳纖尾翼組(2mm) (for R5)
053251	CNC Main Shaft Upper Bearing Mount (Silver anodized)(for R5)	CNC 上主軸座(陽極亮銀) (for R5)
053252	CNC Main Shaft Middle Bearing Mount (Silver anodized)(for R5)	CNC 中主軸座(陽極亮銀) (for R5)
053253	CNC Third Bearing Mount (Silver anodized)(for R5)	CNC 下主軸座(陽極亮銀) (for R5)
053254	Belt Gear Connection Plate (Silver Anodized) (for R5)	皮帶齒銜接座(陽極亮銀) (for R5)
053255	CNC Motor Mount A Type(Silver anodized)(for R5)	CNC 馬達座A型(陽極亮銀) (for R5)
053256	CNC Third Motor Shaft Bearing Mount(Silver anodized)(for R5)	CNC 馬達軸心座(陽極亮銀) (for R5)
053257	CNC Front Servo Mount (Silver Anodized) (for R5)	CNC 前伺服機板(陽極亮銀) (for R5)
053258	Belt Tension Arm (Silver Anodized) (for R5)	皮帶張力臂(陽極亮銀) (for R5)
053259	CNC Elevator Servo Mount (for R5)	CNC 升降舵伺服機座 (for R5)
053260	CNC Tail Servo Mount(Silver anodized)(for R5)	CNC尾伺服機座(陽極亮銀) (for R5)
053261	CNC Boom Clamps(Silver anodized)(for R5)	CNC尾管固定座(陽極亮銀) (for R5)
053262	CNC Guide Wheel Mount (Silver Anodized) (for R5)	CNC導輪固定座(陽極亮銀) (for R5)
053263	Push-rod adapt(Silver anodized)(for R5)	拉桿轉接器(陽極亮銀) (for R5)
053264	CNC Battery Guide (Silver Anodized) (for R5)	CNC電池滑軌(陽極亮銀) (for R5)
053265	Battery Post (Silver Anodized) (for R5)	電池板固定柱(陽極亮銀) (for R5)
053266	Battery Clip (Silver Anodized) (for R5)	電池板彈扣(陽極亮銀) (for R5)
053267	Tensioner Fixture (Silver Anodized) (for R5)	張力臂固定座(陽極亮銀) (for R5)
053269	21T Motor Belt Gear (for R5)	21T馬達皮帶齒 (for R5)
053270	22T Motor Belt Gear (for R5)	22T馬達皮帶齒 (for R5)
053271	21T Side Gear (for R5)	21T副齒輪 (for R5)
053273	46T Transmission Gear (for R5)	46T傳動齒輪 (for R5)
053274	Belt Gear Shaft (for R5)	皮帶齒軸 (for R5)
053275	Belt Tensioner (for R5)	皮帶張力彈片 (for R5)
053277	Canopy Post(for R5)	艙罩支柱組 (for R5)-Canopy Post (for R5)
053278	Main Shaft Collar (Silver Anodized) (for R5)	主軸套管(陽極亮銀) (for R5)
053279	Aluminum Flat Post (27mm) (for R5)	半圓鋁柱(27mm)x4個 (for R5)
053280	Guide Wheel Assembly(Silver anodized)(for R5)	導輪(陽極亮銀) (for R5)
053281	Aluminum Spacer Post (for R5)	間隔鋁柱(陽極亮銀) (for R5)
053282	Belt Gear Bushing (for R5)	皮帶齒軸襯墊 (for R5)
053287	42T Main Shaft Hub of Tail Belt (for R5)	42T 尾皮帶主軸輪殼 (for R5)
053421	75T Main Gear (for R5)	75T主齒輪 (for R5)
053422	Driven Belt 237 S3M(21mm)for R5)	傳動皮帶237 S3M(21mm) (for R5)
053035	Carbon Fiber Landing Gear Mount (3pcs)(for R5)	碳纖腳板組(3件) (for R5)
053283	Connection Post x4 (Silver Anodized) (for R5)	轉接方柱x4個(陽極亮銀) (for R5)
053284	Frame Baseplate (Silver Anodized)(for R5)	機殼腳板座(陽極亮銀) (for R5)
053285	Landing Plate Controller (Silver Anodized)(for R5)	腳板舵片(陽極亮銀) (for R5)
053286	Retractor Linkage(for R5)	底板拉桿組 (for R5)
055246	Tail Boom 670mm (Black anodized)(for R5)	尾管670mm(陽極亮黑) (for R5)

055247	Tail Push Rod Set (for R5)	尾拉桿組 (for R5)
055248	Tail Fins Adjuster (Silver Anodized) (for R5)	垂直尾翼調整座組(陽極亮銀) (for R5)
055401	Tail Rotor Belt 670XL(5mm)(for R5)	皮帶670XL(5mm) (for R5)
055402	Tail Pulley Set(for X5&R5)	尾皮帶輪 (for X5&R5)
057031	Fiber Glass Coloured Drawing Painting Fuselage (front & rear) (A1 Type Red) (for R5)	玻纖彩繪噴漆艙罩組(前後) (A1型 紅色) (for R5)
057032	Fiber Glass Coloured Drawing Painting Baseplate (A1 Type Red) (for R5)	玻纖彩繪噴漆艙罩底板(A1型 紅色) (for R5)
057202	Aluminum Frame Posts Pack	機身鋁柱包
0A2002	M3 Aluminum Inserted Nut x10pcs	M3鋁製嵌入式螺帽x10個
0A3001	Tail Pitch Slider Set	螃蟹夾推桿
0A3001	Tail Pitch Slider Set	螃蟹夾推桿
0A3006	Tail Control Guide	尾拉桿座
0A3007	CNC Tail Pitch Slider Set(for X4II,NX4,X5,R5)	CNC雙推螃蟹夾座 (for X4II, NX4, X5, R5)
0A3008	Tail Rotor Control Arm Mount(Silver anodized) (for X4II,NX4,X5,R5)	雙推尾舵柄座(陽極亮銀) (for X4II, NX4, X5, R5)
0A3009	Tail Rotor Control Arm Assembly(Silver anodized) (for X4II,NX4,X5,R5)	雙推尾舵柄組(陽極亮銀) (for R5) (for X4II, NX4, X5, R5)
0A3010	CNC Integrated Tail Gear Case(for X4II,NX4,X5,R5)	CNC一體成型尾殼座組 (for X4II, NX4, X5, R5)
0A3012	CNC Tail Rotor Grips with Thrust Bearings (Silver anodized)(for X4II,NX4,X5,R5)	CNC尾旋翼夾頭附止推軸承(陽極亮銀) (for X4II, NX4, X5, R5)
0A3017	Tail Output Shaft(for X4II,NX4,X5,R5)	尾軸 (for X4II, NX4, X5, R5)
0A8001	Servo Mounting Plate (Set of 8)	伺服機固定片(8件組)
0A8501	Ball Links Pack(4.8mm)x10pcs	拉桿頭(4.8mm)x10個
0A8601	4.8 Ball with Stand(2x4.5mm)x10pcs	4.8 球頭(2x4.5mm)x10個
0A8621	4.8Ball with Stand(2x8.5mm)x6pcs	4.8球頭(2x8.5mm)x6個
0A8622	4.8Ball with Stand(3x7.5mm)x6pcs	4.8球頭(3x7.5mm)x6個
Bearing		
0B1101	B. Pack (10x19x5)x2pcs	軸承包(10x19x5)x2個
0B1102	B. Pack (12x21x5)x2pcs	軸承包(12x21x5)x2個
0B1104	B. Pack (12x18x4)x3pcs	軸承包(12x18x4)x3個
0B1301	B. Pack (3x7x2)x2pcs	軸承包(3x7x2)x2個
0B1302	B. Pack (3x6x2.5)x4pcs	軸承包(3x6x2.5)x4個
0B1401	B. Pack(4x9x4)x2pcs	軸承包(4x9x4)x2個
0B1402	B. Pack (4x7x2.5)x4pcs	軸承包(4x7x2.5)x4個
0B1403	B. Pack (40x50x6)x1pcs	軸承包(40x50x6)x1個
0B1503	B. Pack (5x11x4)x4pcs	軸承包(5x11x4)x4個
0B1601	B. Pack (6x13x5)x4pcs	軸承包(6x13x5)x4個
0B1701	B. Pack (7x11x3)x2pcs	軸承包(7x11x3)x2個
0B1802	B. Pack (8x16x5)x2pcs	軸承包(8x16x5)x2個
0B1803	B. Pack (8x12x3.5)x2pcs	軸承包(8x12x3.5)x2個
0B2801	Thrust B. Pack (8x16x5)x2pcs	止推軸承包(8x16x5)x2個
0B3601	Flange B. Pack (6x12x4)x2pcs	法蘭軸承包(6x12x4)x2個
0B4101	One Way Bearing(12x18x16)	單向軸承(12x18x16)
Socket		
0R1205	Socket Head Cap Screw - Black (M2x5)x10pcs	內六角螺絲包-黑色(M2x5)x10個
0R1210	Socket Head Cap Screw - Black (M2x10)x10pcs	內六角螺絲包-黑色(M2x10)x10個
0R1305	Socket Head Cap Screw - Black (M3x5)x10pcs	內六角螺絲包-黑色(M3x5)x10個
0R1306	Socket Head Cap Screw - Black (M3x6)x10pcs	內六角螺絲包-黑色(M3x6)x10個
0R1312	Socket Head Cap Screw - Black (M3x12)x10pcs	內六角螺絲包-黑色(M3x12)x10個
0R1316	Socket Head Cap Screw - Black (M3x16)x10pcs	內六角螺絲包-黑色(M3x16)x10個
0R1318	Socket Head Cap Screw - Black (M3x18)x10pcs	內六角螺絲包-黑色(M3x18)x10個
0R1320	Socket Head Cap Screw - Black (M3x20)x10pcs	內六角螺絲包-黑色(M3x20)x10個
0R1408	Socket Head Cap Screw - Black (M4x8)x10pcs	內六角螺絲包-黑色(M4x8)x10個
0R2204	Socket Head Button Screw - Black (M2x4)x10pcs	半圓頭內六角螺絲包-黑色(M2x4)x10個

P.42 Parts list 零件表

057202	Socket Head Button Screw - Black (M3x6)x20pcs	半圓頭內六角螺絲包-黑色 (M3x6) x20個
0R3306	Socket Countersunk Screw - Black (M3x6)x10pcs	內六角皿頭螺絲包-黑色 (M3x6) x10個
0R4202	Socket Set Screw-(M2x2mm) x10pcs with H0.9 Hexagon Wrench	內六角止付螺絲包-(M2x2mm) x10個 附H0.9板手
0R4303	Socket Set Screw - Black (M3x3)x10pcs	內六角止付螺絲包-黑色 (M3x3) x10個
0R4312	Socket Set Screw - Black (M3x12)x10pcs	內六角止付螺絲包-黑色 (M3x12) x10個
0R4404	Socket Set Screw - Black(M4x4)x10pcs	內六角止付螺絲包-黑色 (M4x4) x10個
0R5114	Machine Screws(M1.4x4)x20pcs	十字機械牙螺絲-銀色 (M1.4x4) x20個
0R7206	Socket Head Cap Screw - Black (M2.6x6)x10pcs	內六角螺絲包-黑色 (M2.6x6) x10個
0R7210	Socket Head Cap Screw - Black (M2.6x10)x10pcs	內六角螺絲包-黑色 (M2.6x10) x10個
0R7212	Socket Head Cap Screw - Black (M2.6x12)x10pcs	內六角螺絲包-黑色 (M2.6x12) x10個
0R7309	Socket Head Button Screw (M3x8)	M3x8半圓頭合金鋼內六角階梯螺絲 (M3x8) x6個
0R7316	Semi-threaded Socket Head Cap Screw - Black (M3x16)x10pcs	半牙內六角螺絲包-黑色 (M3x16) x10個
0R7423	Semi-threaded Socket Head Cap Screw - Black (M4x23)x10pcs	半牙內六角螺絲包-黑色 (M4x23) x10個
0R7425	Semi-threaded Socket Head Cap Screw - Black (M4x25)x6pcs	半牙內六角螺絲包-黑色 (M4x25) x6個
Nut		
0R8204	Nylon Lock Nut (N2x4L)x10pcs	止滑螺帽 (N2x4L) x10個
0R8205	Nut (N2x4)x20	螺帽 (N2x4) x20
0R8305	Nylon Lock Nut (N3x5.5L)x20pcs	止滑螺帽 (N3x5.5L) x20個
0R8407	Nylon Lock Nut (N4x7L)x10pcs	止滑螺帽 (N4x7L) x10個
Servo		
0S2097	GUEC GS-097 Digital Servo	GUEC GS-097 數位伺服機
Washer		
0W1109	Washer(10.2x16x0.9)x10pcs	華司 (10.2x16x0.9) x10個
0W1110	Washer(10.2x16x1)x10pcs	華司 (10.2x16x1) x10個
0W1112	Washer(10.2x17x1.2)x10pcs	華司 (10.2x17x1.2) x10個
0W2401	Plastic Post (2.4x4.8x9.4)	塑膠柱 (2.4x4.8x9.4) x20
0W3201	Pin(3x21mm)x5pcs	插銷 (3x21mm) x5個
0W3401	Washer(3.1x4.6x0.6)x10pcs	華司 (3.1x4.6x0.6) x10個
0W3402	Washer(3.1x4.6x1)x10pcs	華司 (3.1x4.6x1) x10個
0W3501	Washer(3.1x5.5x1.1)x10pcs	華司 (3.1x5.5x1.1) x10個
0W3601	Washer(3x6x0.5)x10pcs	華司 (3x6x0.5) x10個
0W3701	Washer(3x7x0.5)x10pcs	華司 (3x7x0.5) x10個
0W4601	Washer(4.1x6x0.5)x10pcs	華司 (4.1x6x0.5) x10個
0W5702	Washer(5.1x7x0.12)x10pcs	華司 (5.1x7x0.12) x10個
0W5801	Copper Pillar(3x5x5.1)x6pcs	銅柱 (3x5x5.1) x6個
0W5802	Copper washer((5x8x1.25)x6pcs	銅華司 (5x8x1.25) x6個
0W8101	Washer(8x10.5x0.5)x10pcs	華司 (8x10.5x0.5) x10個
0W8102	Washer(8.1x12x1.5)x10pcs	華司 (8.1x12x1.5) x10個
Other		
0Z1371	Internal Serrate Washer (2.8x7.9x0.8)	內齒華司(輕型) (2.8x7.9x0.8)
0Z1372	Internal Serrate Washer (3.2x6.5x0.45)	內齒華司 (3.2x6.5x0.45) x10
0Z6101	Servo Horn	伺服機舵角片
0Z6201	Stainless Linkage Set(2x31mm)x4pcs	不鏽鋼連桿組 (2x31mm) x4個
0Z6204	Stainless Linkage Set(2x23.5mm)x4pcs	不鏽鋼連桿組 (2x23.5mm) x4個
0Z6205	Stainless Linkage Set(2x45mm)x4pcs	不鏽鋼連桿組 (2x45mm) x4個
0Z1001	Velcro (White)x4pcs	魔鬼氈(白) x4個
0Z1002	Cable Tie with Touch Fastener (1x20cm)x6psc	魔術束帶 (1x20cm) x6個
0Z1105	Thread-Lock Glue	螺絲固定膠
0Z1107	HM162 Anaerobic Glue (1ml)	HM162缺氧膠(1ml)
0Z2001	Digital Pitch Gauge	數位式螺距規
0Z6001	One-way B. Grease	單向軸承油



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