THUNDER TIGER

mini Titan V2 SERIES

INSTRUCTION MANUAL
組 裝 說 明 書



No.4712 / 4713

This radio control model is not a toy! Before beginning assembly, please read this manual thoroughly.
本產品為高性能模型非一般玩具，組裝與操作前請詳閱本產品說明書。

The contents are subject to change without prior notice due to product improvements and specificatrion changes.
本套件所附之零件可能跟圖示有所差異。因產品後續之設計研發或功能不斷改善之原因，我們將保留產品規格變更權力，不再另行通知使用者。

THUNDER TIGER

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THUNDER TIGER

INTRODUCTION / 簡介

Thank you for purchasing the Thunder Tiger mini Titan E325 V2 series electric R/C helicopter. This new helicopter is the latest innovation by Thunder Tiger. It has the perfect combination of flying stability and the agility for 3D flying. This helicopter is an excellent choice for flying enthusiasts like you. For convenient assembly and safe operation of the helicopter, please read the instructions carefully. Retain the user manual in case you need it for any information or reference.
感謝您購買雷虎科技小型電動直昇機 mini Titan E325 V2 系列產品，本項產品為雷虎科技全新開發機種，兼具高度穩定性與3D飛行特性，是熱衷小型電動直昇機的您不可錯過的選擇。請於使用本產品前詳盡閱讀使用手冊，以利於組裝工作順暢進行與安全操控本產品。請妥善保存使用說明書，以利後續調整與維修參考用途。

CAUTION / 警告

1. R/C models are not toys. This product is a high-precision flying machine. Possibilities of unexpected crashes may occur due to electronic interference, incorrect operation, or poor mechanical maintenance. Although it is a small-sized helicopter, the rotor blades rotate at high speeds, which may cause serious damage, injury, or death if the model hits people or property. Therefore, extreme caution must be exercised during operation.
2. Thunder Tiger ensures parts packaged in this product is of the highest quality. However, after assembly and usage, parts damaged due to wear or misuse will not be replaced under any circumstances. If you have any questions regarding its operation and repair, Thunder Tigers service agents are able to provide free technical guidance.
3. This product is only recommended for users ages 16 and up. Because flying a R/C helicopter is difficult, beginners must receive guidance and supervision from experienced pilots to minimize unexpected danger. Practice in spacious areas, far away from obstacles such as buildings, trees, electrical towers, or crowds.
4. To decrease the cost of repair and maintenance for beginners, it is recommended to fly the helicopter with a practice rack and to learn basic flying skills with a computer R/C flying simulator. (Crashes in simulators are free to repair!)

1. 本項遙控直昇機產品並不是玩具，是一項結構精密、高專業度模型產品，如果未經正確組裝與操控，將可能對操控者或其他人造成身體傷害。使用者必須了解，若未確實進行飛行前安全檢查或操控不當，而造成人員受傷或物體損壞，使用者必須負起法律責任。
2. 本產品由高品質零組件組成，雷虎科技對於安裝過程、使用過後..等人為因素造成損壞事件不負損壞賠償之責。如您需要本產品相關組裝、調整或其他協助，可與雷虎科技全省經銷商聯繫。
3. 本項產品禁止十六歲以下青少年與孩童使用。強烈建議初學者應取得技術支援後再進行飛行，以避免危險發生。請於空曠地區操控本產品，並避免於建築物、樹木、電塔..等障礙物區域飛行。
4. 建議初學者可安裝練習架或透過電腦模擬軟體練習，可達到實際練習效果與符合經濟效益。

AMA INFORMATION / 特別注意事項

Operating a model helicopter requires a high degree of responsibility and skill. If you are a newcomer to the hobby, it is best to seek help and guidance from accomplished model helicopter pilots. This will greatly speed up the learning process and have you flying successfully in a reasonable amount of time. We also would strongly urge you to join the Academy of Model Aeronautics. The AMA is a non-profit organization that provides its members with a liability insurance plan as well as monthly magazine entitled Model Aviation. All AMA charter aircraft clubs require all pilots to hold a current AMA sporting license prior to operation of their models at club fields. For further information, contact the AMA at:
Academy of Model Aeronautics
5151 East Memorial Drive
Muncie, IN 47302
(317) 287-1256

操控遙控直昇機對於飛行安全要求極高，需要高度的負責任態度配合，以及較高的操控技巧。如果您是一位初學者，建議您必須向當地專業模型經銷商，或是遙控直昇機相關組織以及經驗豐富的玩家尋求相關協助，以獲得您所需要的訊息以及專業知識。如此可有效協助您縮短學習的時間，更容易學會遙控直昇機的組裝、設定與操控技巧。

FLIGHT SAFETY CHECKLIST / 飛行前安全確認工作項目

1. Make sure that the transmitter battery is fully charged before flying.
2. Make sure all control surfaces are operated properly before flying.
3. Do a range check of the radio before the first flight. The electronic equipment must operate properly at a range of at least 5 meters (18 ft) even with the transmitter antenna collapsed.
4. Make sure there are no other pilots using the same radio frequency with yours and that there are no other radio interference on your frequency.
5. Be sure to turn on the transmitter first with the throttle stick in the idle position. Plug the battery into the ESC last.
6. The main rotor and the tail rotor spin at very high RPM. Make sure nothing can come in contact with the rotor blades during flight.
7. Always maintain a safe distance from the helicopter during flight.
8. Never fly the helicopter in the rain or in excessive wind conditions.
9. Always operate and fly the helicopter in a safe and responsible manner.
10. Never fly the helicopter over other pilots, spectators, cars or anything that could result in injury or property damage.

1. 確認接收機與發射機電池，均已確實充電完成。
2. 確認所有操控介面運作順暢。
3. 確認無其他無線電波干擾，且不與其他同好同時使用相同頻率。
4. 確實將油門搖桿放置於低速，再將發射機電源開啟，然後再將電池接上。
5. 確認遙控器發射器與接收機工作正常，將機體放至於距離5公尺外，確認遙控器是否正常，機體控制動作是否正確。
6. 主旋翼與尾旋翼轉速相當高，運轉時須避免任何障礙物與旋翼接觸。
7. 飛行時，需與遙控直升機保持安全距離。
8. 勿於下雨天或是強風的狀態下操控遙控直升機。
9. 請以安全為第一考量，並以高度負責任的態度參與遙控直升機活動。
10. 禁止於人群、車輛..或任何其他障礙物上方飛行遙控直升機，避免意外發生。

POST FLIGHT INSPECTION / 飛行結束安全檢查事項

1. Inspect the model thoroughly to insure no parts have come loose or become damaged during the flight and landing. Replace damaged parts and tighten loose screws before flying again.
2. Clean the helicopter body.
3. Lubricate all moving parts to ensure smooth operation for the next flying.
4. Replace any worn ball links and damaged bearings.
5. Store the model in a cool, dry place. Avoid putting it under direct sunlight or near a source of heat.

Following these simple rules will allow you to enjoy the thrill of model helicopter flying for many years.

1. 飛行結束後確認機體所有的零件與螺絲是否有損壞或鬆動，更換損壞零件與確實固定鬆動的螺絲。
2. 機體清潔乾淨。
3. 檢查所有活動零組件是否運作順暢，以利下次飛行。
4. 更換所有鬆動的連桿、接頭，以及損壞的軸承。
5. 將機體存放於陰涼通風處，避免機體放置於陽光直射處或接近熱源。

確實執行上述幾項簡單的步驟，將可確保您的愛機維持數年的壽命！

CAUTION / 注意事項

When the model has crashed, inspect the flybar, rotor shaft and the blade spindle to make sure they are not bent. If any item is damaged, it must be replaced with a new part to ensure safe operation. Do not glue any broken or damaged plastic parts. Do not repair broken rotor blades. It is very important to inspect the motor, speed control and the battery.

Always inspect the following items:

Gears, Ball links, Link rods, Bearings, Main shaft, Flybar, Spindle, Tail boom and support, Fins, Tail rotor shaft, Belt, Main blades, Tail blades, the Motor, the Speed control and the Battery.

機體一但發生墜落事件，請確實檢查平衡桿、主軸、橫軸是否有彎曲變形，如果有任何的損壞，請立即更換原廠新的零組件，確認機體操作安全！切勿使用任何接著劑嘗試黏合塑膠零件；請勿使用修復過的主旋翼。馬達、速控器、電池的安全檢查工作亦相當重要。

發生機體墜落事件後，請確實檢查下列項目：

齒輪組、球頭連桿、連桿頭、軸承、主軸、橫軸、尾軸、平衡桿、平衡片、尾管、尾管支撐架、垂直與水平尾翼、尾驅動輪、皮帶、主旋翼、尾旋翼、馬達、速控器、電池。

OTHER ITEMS REQUIRED / 另購裝備

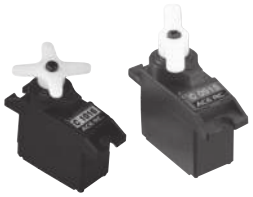
■ RADIO SET 遙控器組



Transmitter
(helicopter type only,
6 or more channels)
發射機（6動以上直昇機用）



Receiver
接收機



Micro Servos
(Control Surface x3,
Rudder Servo x1)
伺服機 x3、尾舵伺服機 x1



Gyro
陀螺儀

■ POWER SYSTEM 電子類裝備



Li-Po Battery
鋰聚合物電池



Speed Controller
速控器

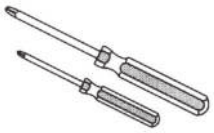


Brushless Motor
無刷馬達



Battery Charger
充電器

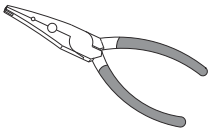
■ TOOLS REQUIRED FOR ASSEMBLY 組裝工作所需工具



Screw Driver
螺絲起子



Needle Nose Pliers
尖嘴鉗



Ball Link Pliers
連桿專用鉗



Nipper
斜口鉗



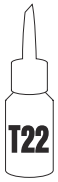
Scissors
剪刀



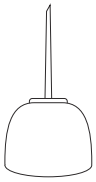
Hobby Knife
模型專用美工刀



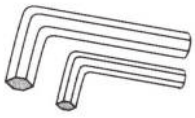
CA Glue
快乾膠



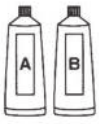
Threadlocking
螺絲防鬆膠



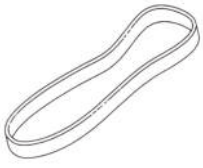
Grease
潤滑油



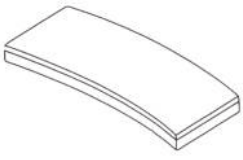
Hex Wrench
六角板手



Epoxy
環氧樹指
（A、B膠）



Rubber Band
橡皮筋



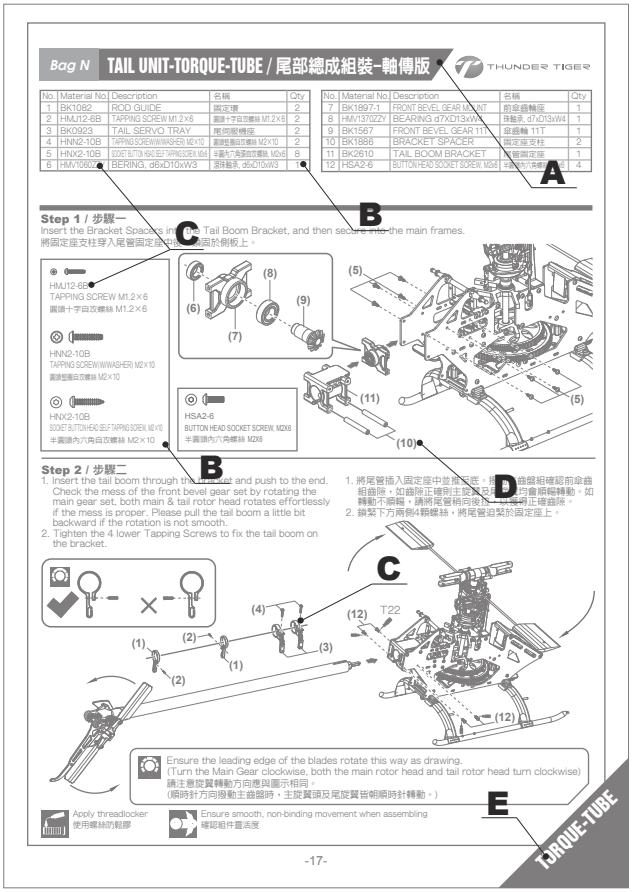
Two-Sided Rubber
雙面膠

MANUAL FORMAT / 說明書使用方式

How to read the instruction manual?
說明書導讀

A: Indicates the assembly step number and the parts bags that are to be assembled.
B: Displays actual size drawings, and part quantities used.
C: All parts, except screws, are identified by its order numbers. When purchasing spare parts, identify the part required and cross reference this to the spare parts list in the end of this maunal, which shows the purchasable spare parts and the corresponding order numbers.
D: This instruction manual uses several symbols. Pay careful attention to them during construction. Details are given at the bottom of each page.
E: If a label marked here indicates the page is the exclusive assembly steps for a particular model type; please follow the exclusive instructions according to the model type you purchased.
A: 顯示組立步驟及需組立之零件包順序。
B: 零件實際對照尺寸及使用數量。
C: 請比對零件形狀以及後附零件料號對照圖示找出需求零件料號。
D: 操作說明符號可更有效協助組裝者使用此說明書，請依說明書符號指示進行組裝步驟。
E: 出現此標籤表示本頁為特定模型版本之專屬組裝說明，請依您所購買之版本依說明進行組裝步驟。

Example 說明範例



SYMBOLS USED THROUGHOUT THE MANUAL / 符號說明

The parts in the kit are packed according to each major assembly steps. The part number and quantity are always shown in the square box on each page. As good practice, only open up the bag that you need for the paticular assembly.
零件均依照組裝步驟包裝，請依照組裝程序，逐一開啟零件包，避免零件遺失。

Note / 注意

Assembly drawings will contain icons that indicate use of Threadlocker or CA glue as needed.
Examples of the icons are as right shown:
請依組裝步驟圖示，使用防鬆膠或接著劑。
圖示範例如右：

T22（#262）→ THREADLOCKER / 螺絲防鬆膠

CA → CA GLUE / 快乾膠

Apply CA Glue
使用快乾膠黏合

Apply threadlocker
使用螺絲防鬆膠

Assemble as many times as specified
依指示組裝所需數量

Assemble left and right side the same way
左右側組件相同

Assemble in right order
依標示順序組裝

Cut off shaded portion
依標示部分裁切

Ensure smooth, non-binding movement when assembling
確認組件靈活度

Drill holes with the specified diameter
依標示尺寸鑽孔

Must be purchased separately
改裝品需另購

Cut off excess
裁剪多餘部分

Apply grease
使用潤滑油膏(黃油)

Pay close attention here
注意組裝步驟

Hint
組裝提示

Bag A MAIN ROTOR / 主旋翼機構組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1*	BV2615	MATEL MAIN ROTOR HUB SET	金屬主旋翼固定座組	1
	BV1408	MATEL MAIN ROTOR HUB SET	金屬主旋翼固定座組	1
2	BV1403	METAL SEESAW HUB	金屬穩定桿固定座組	1
3	BK1456	COLLAR, d2×D3×2.7t	軸環, d2×D3×2.7t	2
4	HNU2-6Z	SHOULDER SCREW M2x6	圓頭十字軸套螺絲M2×6	2
5	BV1404	METAL MIXING LEVER	金屬控制搖臂組	2

No.	Material No.	Description	名稱	Qty
6	BK1480	COLLAR, d2×D3×5.6t	軸環, d2×D3×5.6t	2
7	BK1203	LINKAGE BALL(⌀3.8)	連接頭(⌀3.8)	4
8	HSP16-6N	COUNTERSUNK SCREW M1.6×6	圓頭十字螺絲M1.6×6	4
9	BK1481	FLAT WASHER d2xD3.7x0.5t	墊片d2xD3.7x0.5t	2
10	HNU2-9Z	SHOULDER SCREW M2x9	圓頭十字軸套螺絲M2×9	2

◎ □
BK1456
COLLAR, d2×D3×2.7t
軸環, d2×D3×2.7t

HNU2-6Z
SHOULDER SCREW M2x6
圓頭十字軸套螺絲M2×6

◎ ▭
BK1480
COLLAR, d2×D3×5.6t
軸環, d2×D3×5.6t

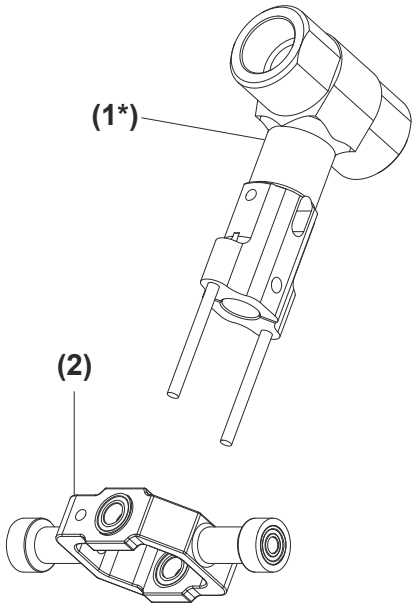
◎ ⬡
BK1203
Linkage Ball(⌀3.8)
連接頭(⌀3.8)

HSP16-6N
Countersunk Screw M1.6×6
圓頭十字螺絲M1.6×6

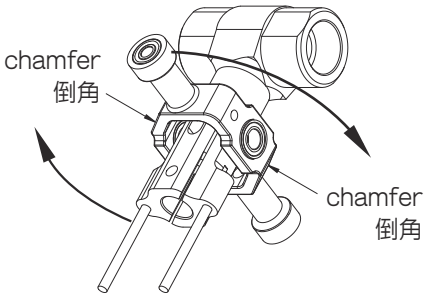
◎ ‖
BK1481
FLAT WASHER d2xD3.7x0.5t
墊片d2xD3.7x0.5t

HNU2-9Z
SHOULDER SCREW M2x9
圓頭十字軸套螺絲M2×9

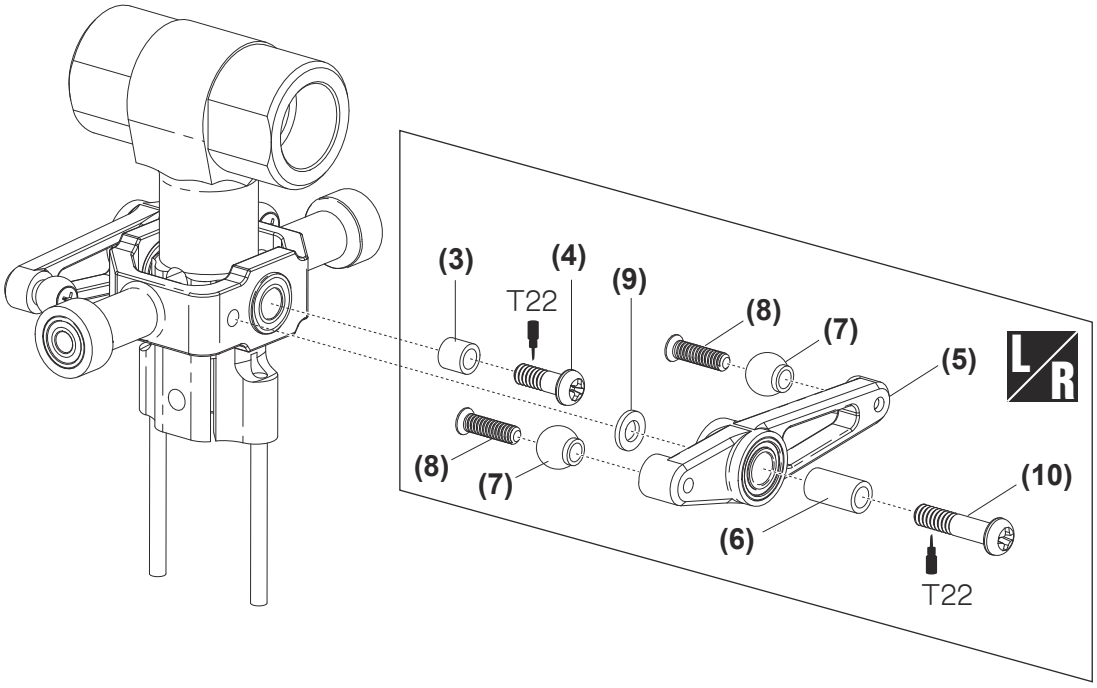
Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。



Note the orientation of the Chamfer on the Metal Seesaw Hub.
注意金屬穩定固定座倒角方向。



*available depending on the kit you purchased.
使用零件因購買套件有所不同。



Apply threadlocker
使用螺絲防鬆膠

L/R Assemble left and right side the same way
左右側組件相同

Ensure smooth, non-binding movement when assembling
確認組件靈活度

Bag B MAIN ROTOR / 主旋翼機構組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	BK1499	METAL FLYBAR CONTROL ARM-1	金屬穩定翼轉臂-1	2
2	BK1500	METAL FLYBAR CONTROL ARM-2	金屬穩定翼轉臂-2	2
3	BK1203	LINKAGE BALL(⌀3.8)	連接頭(⌀3.8)	2
4	HSP16-6N	COUNTERSUNK SCREW M1.6×6	圓頭十字螺絲M1.6×6	2

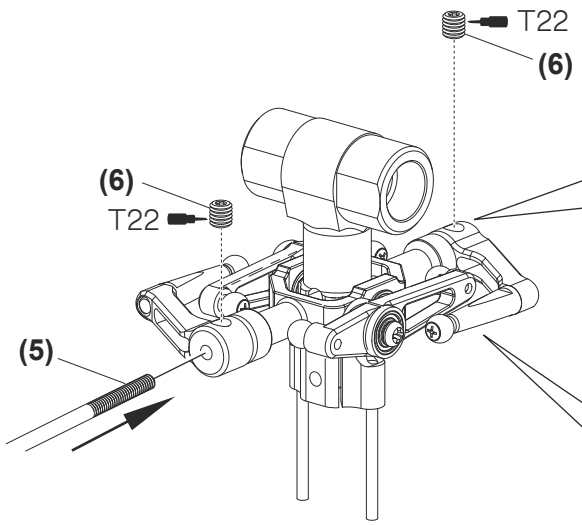
No.	Material No.	Description	名稱	Qty
5	BK1410-1	SUS FLYBAR ROD	不鏽鋼穩定桿	1
6	HME3-3B	SET SCREW M3×3	無頭內六角螺絲M3×3	2
7	BK1413	FLYBAR PADDLE (GREEN)	穩定翼 (綠)	2

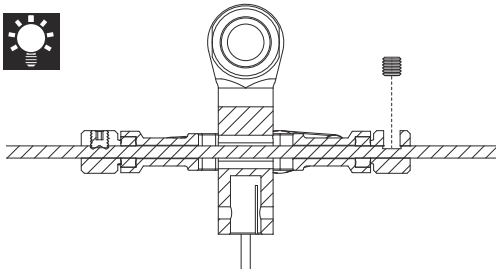
BK1203
Linkage Ball(⌀3.8)
連接頭(⌀3.8)

HSP16-6N
Countersunk Screw M1.6×6
圓頭十字螺絲M1.6×6

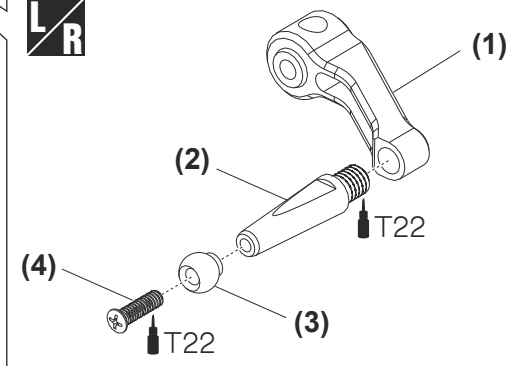
HME3-3B
SET SCREW M3×3
無頭內六角螺絲M3×3

Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。



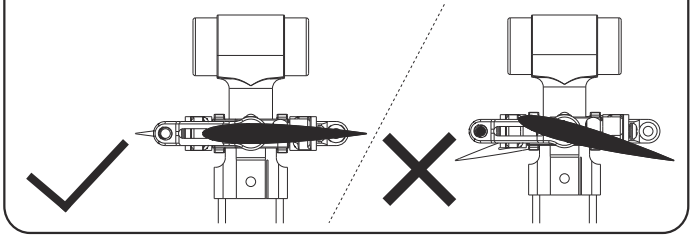


Line up the hole of the Flybar Control Arm and the flat spot of the Flybar Rod when securing the screw.
安裝平衡桿時，請確認對正穩定翼控制臂上鎖固孔位與平衡桿上平面凹槽。

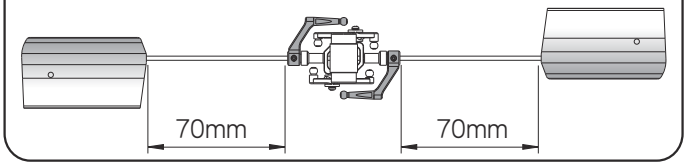


Thread the Paddles onto the Flybar Rod, equal the length to the Flybar Control Arms of each side.
旋上穩定翼於穩定翼桿上，確認兩側的穩定翼至控制臂距離相等。

Line up the Paddles with the Flybar Control Arms.
對正穩定翼與穩定翼控制臂呈水平狀態。



Ensure the leading edges of the Paddles are toward the same side to the Metal Flybar Control Posts.
確認穩定翼前緣與穩定翼控制轉臂方向相同。



Apply C.A Glue
使用快乾膠黏合

Apply threadlocker
使用螺絲防鬆膠

Assemble left and right side the same way
左右側組件相同

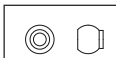
Ensure smooth, non-binding movement when assembling
確認組件靈活度

Bag B MAIN ROTOR / 主旋翼機構組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	BK1203	LINKAGE BALL(⌀3.8)	連接頭(⌀3.8)	2
2	HSP16-6N	COUNTERSUNK SCREW M1.6×6	圓頭十字螺絲M1.6×6	2
3*	BV1893	METAL ROTOR GRIP	金屬旋翼轉座組	2
	BV1402	METAL ROTOR GRIP	金屬旋翼轉座組	2
4	BK0906	FEATHERING SHAFT	主旋翼固定軸	1
5	BK1900	FLAP DAMPER, 65°	避震墊圈, 65度	2
6	BK1079	COLLAR	軸環	2

No.	Material No.	Description	名稱	Qty
7	HMO26	FLAT WASHER d2.6	墊片 d2.6mm	2
8	HMX0409Y	THRUST BEARING d4xD9x4	止推軸承 d4xD9x4	2
9*	BK0918	WASHER d4xD7.8x0.1mm	墊片 d4xD7.8x0.1mm	2
	BK1079	COLLAR	軸環	2
10	HMC26-8B	SOCKET SCREW M2.6×8	內六角螺絲 M2.6×8	2
11	HMV840ZZY	BALL BEARING d4xD8xw3	滾珠軸承 d4xD8xw3	2
12	HMV940ZZY	BALL BEARING d4xD9xw3	滾珠軸承 d4xD9xw3	2



BK1203
LINKAGE BALL(⌀3.8)
連接頭(⌀3.8)



HSP16-6N
COUNTERSUNK SCREW M1.6×6
圓頭十字螺絲M1.6×6



BK1079
COLLAR
軸環



HMO26
FLAT WASHER d2.6
華司d2.6mm



HMC26-8B
SOCKET SCREW M2.6×8
內六角螺絲M2.6×8

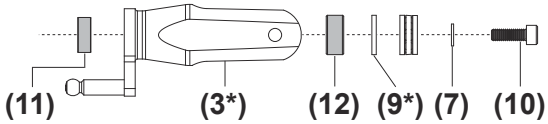
Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。



Apply some amount of silicon oil or Vaseline on the Spindle for easy assembly.
在橫軸上塗抹此許矽膠油脂或凡士林可使組裝更為容易。



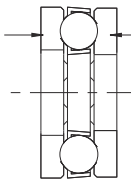
The bearings inside the Main Rotor Grips are factory pre-assembled. The below drawing is for your reference.
滾珠軸承已由原廠組裝完成，組裝順序如下圖示：



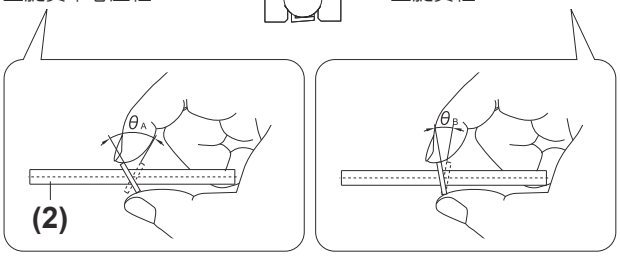
*available depending on the kit you purchased.
使用零件因購買套件有所不同。

Diagram for Thrust Bearing Assembly
止推軸承安裝示意圖

The large Internal Diameter always goes toward the Main Rotor Hub
內徑較大的一側，面向主旋翼中心座組。

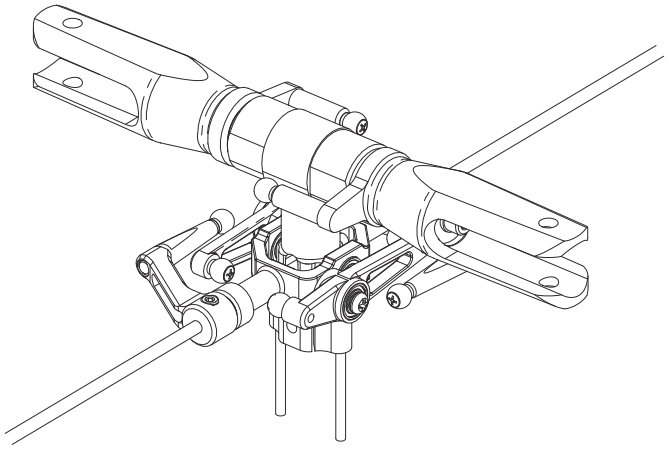


The small Internal Diameter always goes toward the Blade
內徑較小的一側，面向主旋翼組。



Checking Tips: $\theta_A > \theta_B$
轉動角度：$\theta_A > \theta_B$
（轉動角度大者，內孔大；轉動角度小者，內孔小）

Completed View
組裝完成





Apply grease
使用潤滑油膏(黃油)



Apply threadlocker
使用螺絲防鬆膠



Ensure smooth, non-binding movement when assembling
確認組件靈活度



Assemble left and right side the same way
左右側組件相同

Bag B+C MAIN ROTOR / 主旋翼機構組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	BK1502	HARDENED MAIN SHAFT	高強度主軸	1
2	BK1086	SOCKET SCREW M2×14	內六角半牙螺絲M2×14	1
3	HML2	M2 NUT	M2螺帽	2
4	BV1406	M. FLYBAR C. LEVER	金屬穩定翼控制臂組	2
5	BK1014	WASHOUT LINKAGE	連接座	2
6	HSP17-7N	COUNTERSUNK SCREW M1.7×7	圓頭十字螺絲M1.7×7	2
7	BK1480	COLLAR, d2×D3×5.6t	軸環 d2×D3×5.6t	2
8	HSP16-6N	COUNTERSUNK SCREW M1.6×6	圓頭十字螺絲 M1.6×6	2

No.	Material No.	Description	名稱	Qty
9	BK1203	LINKAGE BALL(ø3.8)	連接頭 (ø3.8)	2
10	BK1481	FLAT WASHER d2xD3.7x0.5t	墊片 d2xD3.7x0.5t	2
11	HNU2-9Z	SHOULDER SCREW M2x9	圓頭十字軸套螺絲 M2×9	2
12	BV1405	METAL WASHOUT BASE SET	金屬控制臂座組	1
13	BV1419A	METAL Swashplate	金屬十字盤	1
14	BK1020	MAIN SHAFT LOCK RING	止擋圈	1
15	HME3-3B	SET SCREW M3×3	無頭內六角螺絲 M3×3	1

BK1086
SOCKET SCREW M2×14
內六角半牙螺絲M2×14

HML2
M2 NUT
M2螺帽

HSP17-7N
Countersunk Screw M1.7×7
圓頭十字螺絲M1.7×7

HSP16-6N
Countersunk Screw M1.6×6
圓頭十字螺絲 M1.6×6

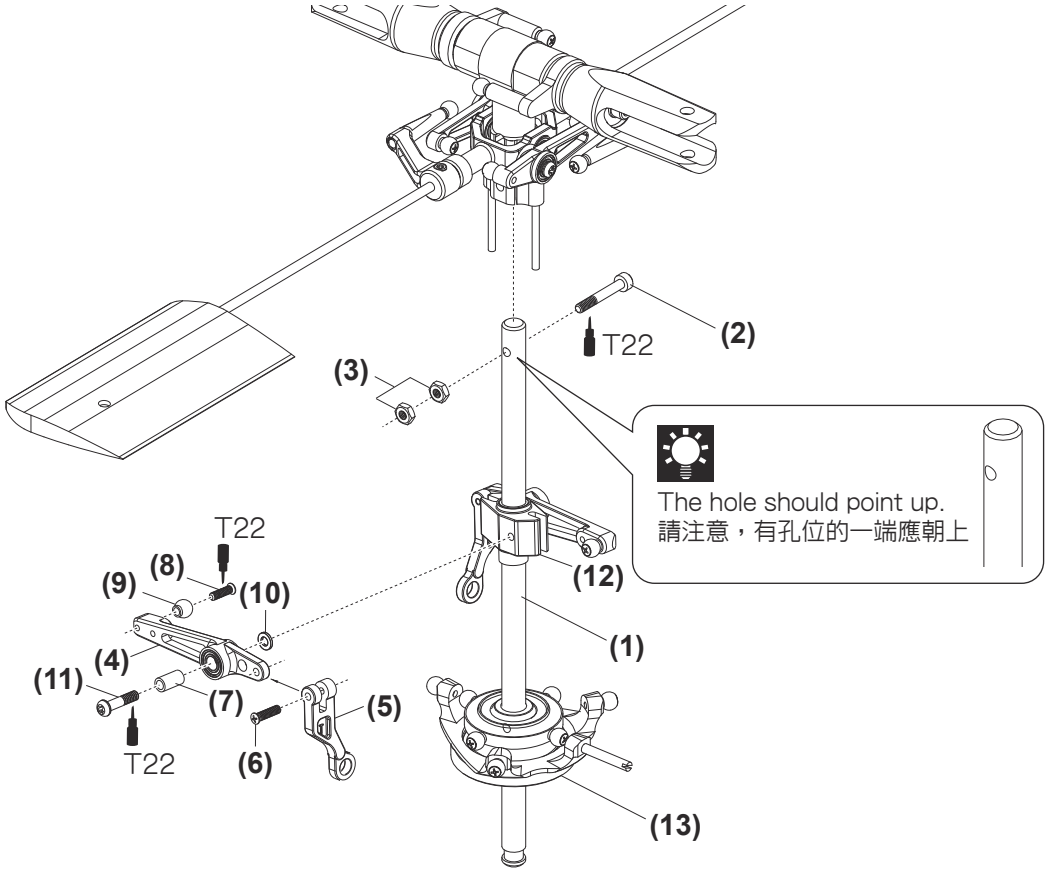
BK1480
COLLAR, d2×D3×5.6t
軸環 d2×D3×5.6t

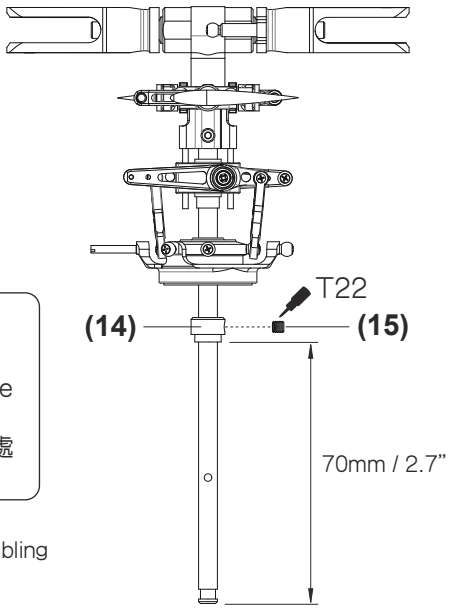
BK1481
FLAT WASHER d2xD3.7x0.5t
墊片 d2xD3.7x0.5t

HNU2-9Z
SHOULDER SCREW M2x9
圓頭十字軸套螺絲 M2×9

HME3-3B
Set Screw M3×3
無頭內六角螺絲 M3×3

Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。





The length from the end of the Min Shaft to the Lock Ring is 70mm/2.7”.
固定套環安裝位置為距離主軸底部約70mm/2.7”處（如圖示）。

Apply threadlocker
使用螺絲防鬆膠

Ensure smooth, non-binding movement when assembling
確認組件靈活度

Bag D LINKAGE ROD INSTALLATION / 連桿組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	BK0932	BALL LINK d3.8x10mm	單頭連接桿	4
2	BK1063	LINKAGE ROD D1.3x7mm	連接桿	3
3	BK0922	BALL LINK d3.8x12mm	單頭連接桿	14

No.	Material No.	Description	名稱	Qty
4	BK1064	LINKAGE ROD 1.3X10mm	連接桿	2
5	BK1066	LINKAGE ROD 1.3x24.5mm	連接桿	2
6	BK1065	LINKAGE ROD 1.3x29mm	連接桿	2

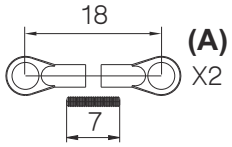

BK0922
Ball Link d3.8x12mm
單頭連接桿


BK0932
Ball Link d3.8x10mm
單頭連接桿

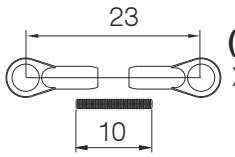
Assemble the Linkage Rods as drawings. The linkage length is measured by the center of the 2 Ball Links. These drawings are printed actual size; you can lay the linkage sets on the left drawings to measure the correct length.
請參考圖示組裝連桿及連桿頭。連桿長度距離的計算應以兩端連桿頭中心點為基準。圖示尺寸與實物相同，您可直接對照左方圖示以快速獲得正確長度。

Scale=1:1
(unit:mm)

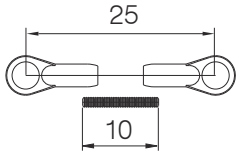
Attach the linkage sets on the main rotor head set.
Please refer below drawing.
參考下圖正確連接連桿組及主旋翼組。



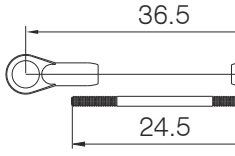
(A) X2



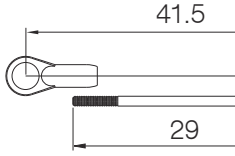
(B) For novice X2 初學者設定



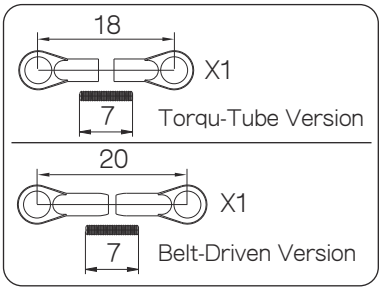
(B) For 3D flying X2 3D飛行設定



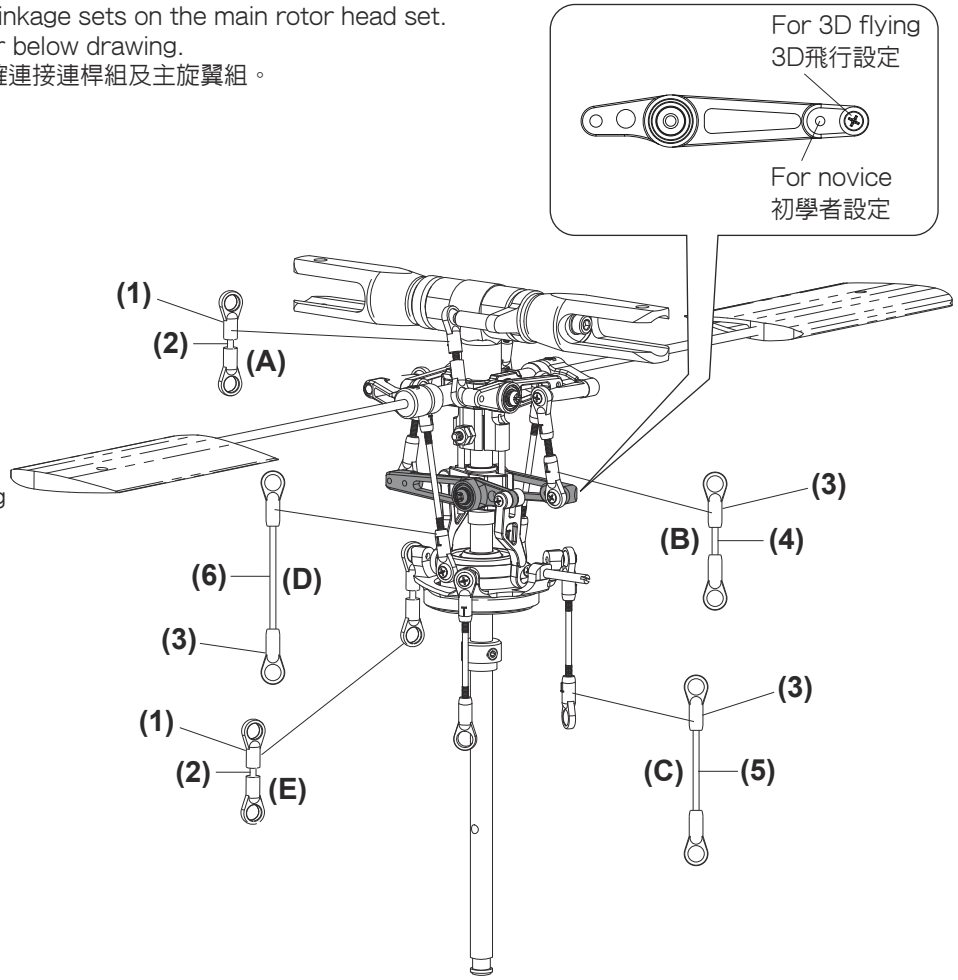
(C) X2

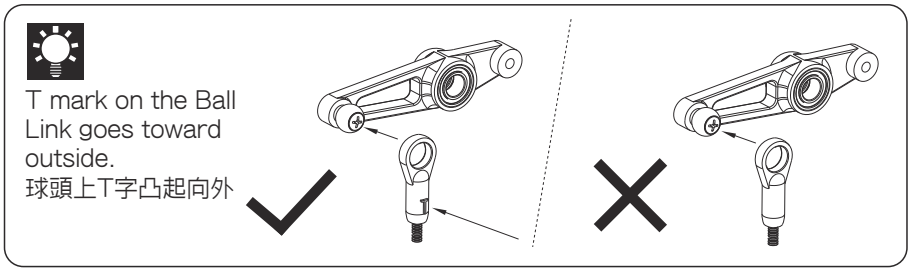


(D) X2



X1 Torqu-Tube Version
X1 Belt-Driven Version
(E)





Bag E+F MAIN FRAME / 本體組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1*	BK1892	CARBON MAIN FRAME	碳纖側板	2
	BK1892-1	CARBON MAIN FRAME	碳纖側板	2
2*	BV1882	UPPER BEARING SET	上軸承座組	1
	BV1882-1	UPPER BEARING SET	上軸承座組	1
3	BV1883	LOWER BEARING SET	下軸承座組	1
4	BK1878	FRONT SERVO TRAY	前伺服機座	2
5*	BK1881	RARE SERVO TRAY	後伺服機座	1
	BK1881-1	RARE SERVO TRAY	後伺服機座	1
6	HSA2-6	BUTTON HEAD SOCKET SCREW, M2X6	半圓頭內六角螺絲, M2X6	16

No.	Material No.	Description	名稱	Qty
7*	BV1897-1	TAIL BEARING FLANGE SET	傘齒輪座組	1
	BV2609	TAIL BEARING FLANGE SET	尾傳動齒軸承座組	1
8*	BV1412	METAL PULLEY SET (14T)	金屬皮帶輪組 (14T)	1
	BV1898	METAL PULLEY SET (14T)	尾曲動軸組	1
9	BK1445	TAIL GEAR 28T	金屬尾驅動齒 28T	1
10	HMY1-5	PIN ø1×5.3	插銷 ø1×5.3L	1
11	HMD2-6	FLAT HEAD PHILLIPS SCREW, M2X6	平頭十字螺絲 M2x6	1
12	HNX2-10B	SOCKET BUTTON HEAD SELF TAPPING SCREW M2x10	半圓頭內六角自攻螺絲M2x10	4

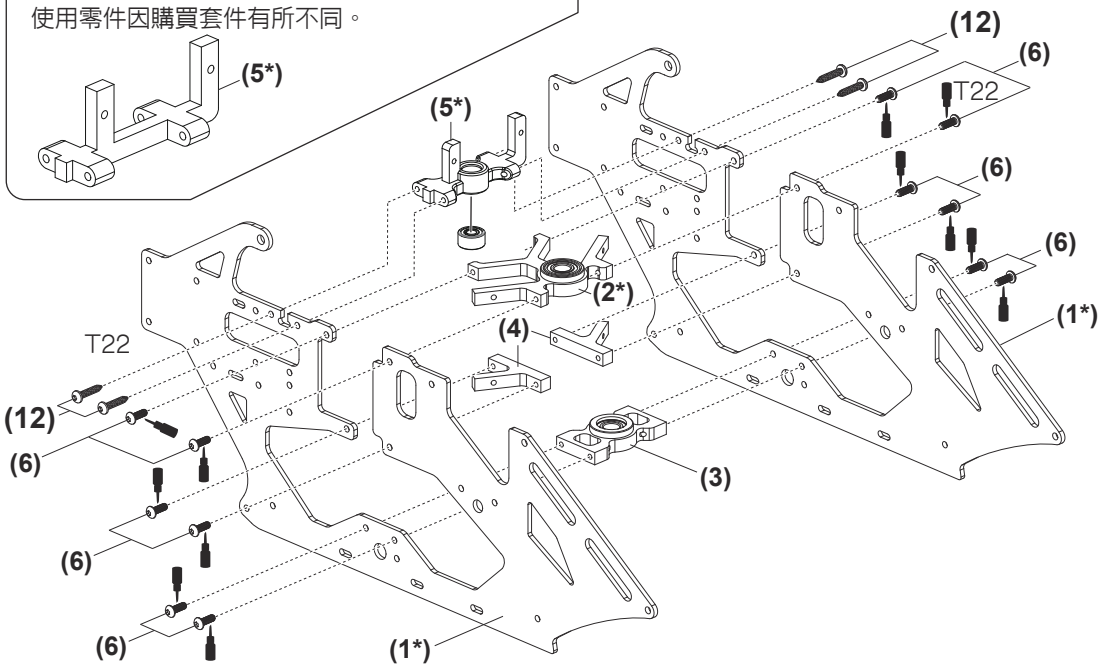
HSA2-6
Button Head Socket Screw, M2x6
半圓頭內六角螺絲

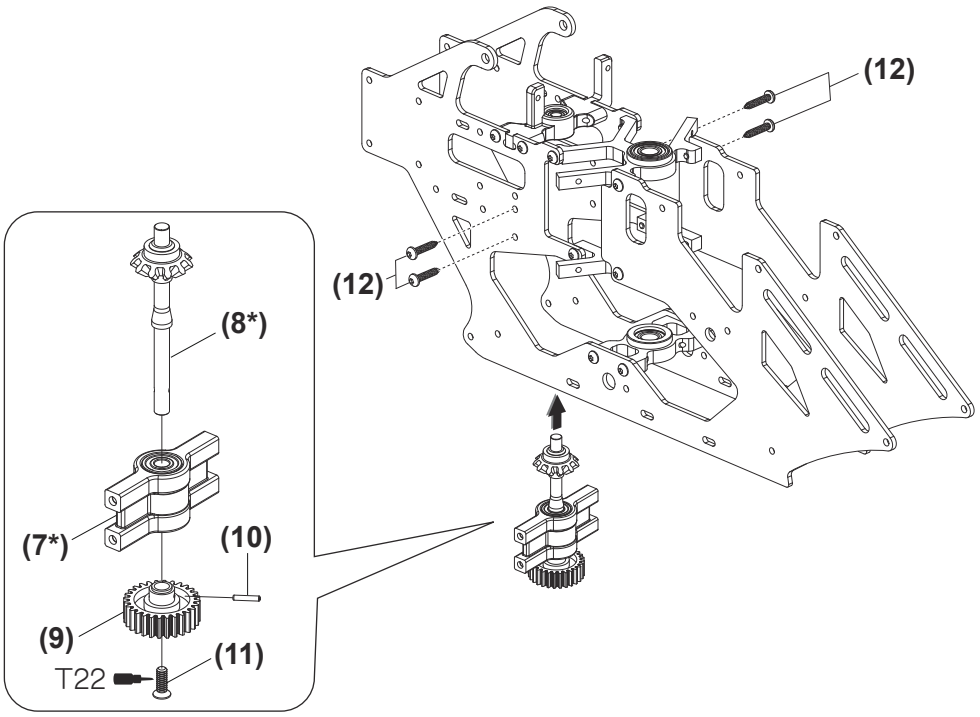
HMY1-5
Pin ø1×5.3
插銷 ø1×5.3L

HMD2-6
Flat Head Phillips Screw, M2x6
平頭十字螺絲M2x6

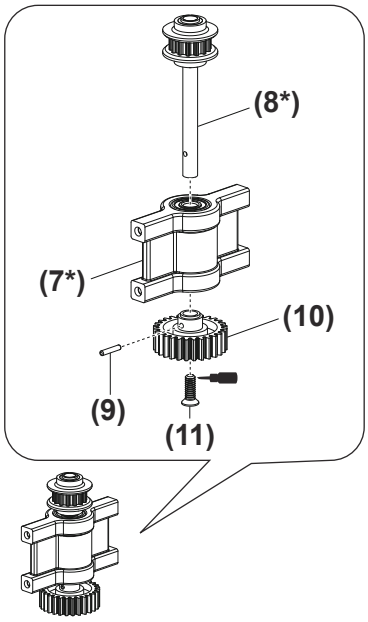
HNX2-10B
Socket Button Head Self Tapping Screw M2×10
半圓頭內六角自攻螺絲M2×10

BELT-DRIVEN VRSION
*available depending on the kit you purchased.
使用零件因購買套件有所不同。





BELT-DRIVEN VRSION
*available depending on the kit you purchased.
使用零件因購買套件有所不同。



Bag G MAIN FRAME / 本體組裝

THUNDER TIGER

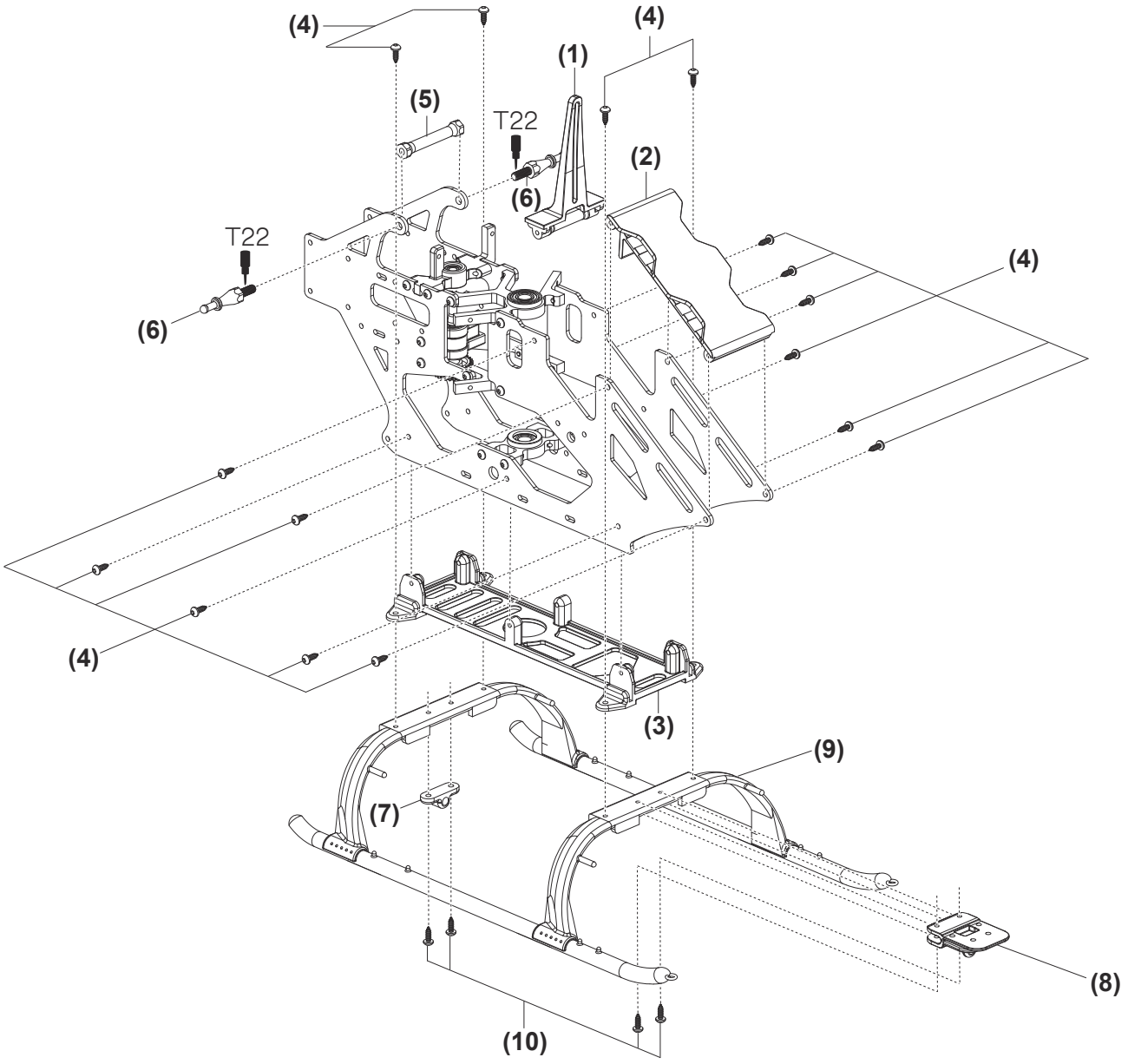
No.	Material No.	Description	名稱	Qty
1	BK2601	ANTI-ROTATION BRACKET	十字盤相位導軌	1
2	BK2604	BATTERY TRAY	電池板	1
3	BK2606	BOTTOM BRACKET	機身底板	1
4	HNX2-6B	SOCKET BUTTON HEAD SELF TAPPING SCREW M2x6	半圓頭內六角自攻螺絲M2x6	12
5	BK1887	STANDOFF SPACER	定位柱	1

No.	Material No.	Description	名稱	Qty
6	BK1888	CANOPY STANDOFF	機殼支柱	2
7	BK2602	ANTENNA HOLDER	天線管座	1
8	BK2603	CANOPY CLIP	機殼固定夾	1
9	BK1473	LANDING SKID (BLACK)	腳架（黑）	1
10	HNX2-6B	BUTTON HEAD SOCKET SCREW, M2x6	半圓頭內六角自攻螺絲M2x6	8

HNX2-6B
Socket Button Head Self Tapping Screw M2×6
半圓頭內六角自攻螺絲M2×6

HME3-3B
Set Screw M3×3
無頭內六角螺絲M3×3

1. Assemble the Battery Tray, Anti-rotation Bracket and Bottom Bracket by Tapping Screws (M2 x 6, #4) as drawing.
2. Assemble the Canopy Standoff & Standoff Spacer on the main frame set, secure tightly with a drop of thrardlocker.
3. Assemble the Landing Skid, Canopy Clip & Antenna Holder as drawing, and then attach the skid set on the main frame set.
1. 參考圖示將電池板、十字盤相位導軌及機身底板以自攻螺絲組裝至側板組。
2. 使用適量防鬆劑將將機殼支柱及定位柱組裝至側板組。
3. 先組裝腳架、機殼固定夾及天線管座，然後再將腳架組安裝至側板組。



Bag H & I MAIN GEAR SET / 主齒輪組裝

THUNDER TIGER

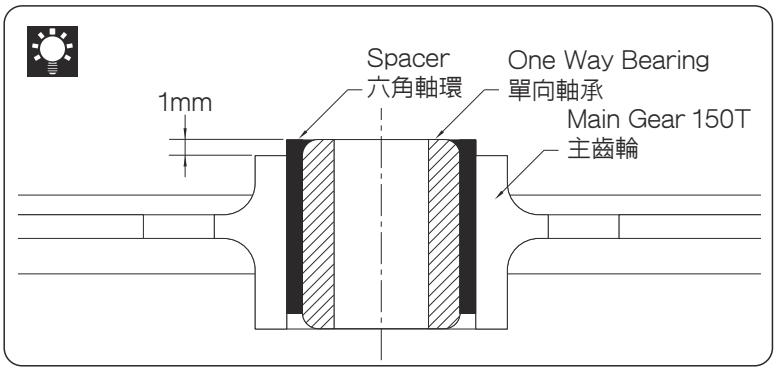
No.	Material No.	Description	名稱	Qty
1	BK0933	AUTOROTATION TAIL DRIVE GEAR	尾驅動輪(124T)	1
2	BV0934	MAIN GEAR (W/BEARING)	主齒輪(含軸承)	1
3	BK0931	FLAT WASHER D6×D10×0.3	單向軸套墊圈 d6×D10×0.3	2
4	BK0930	ONE WAY BEARING SHAFT	單向軸套	1

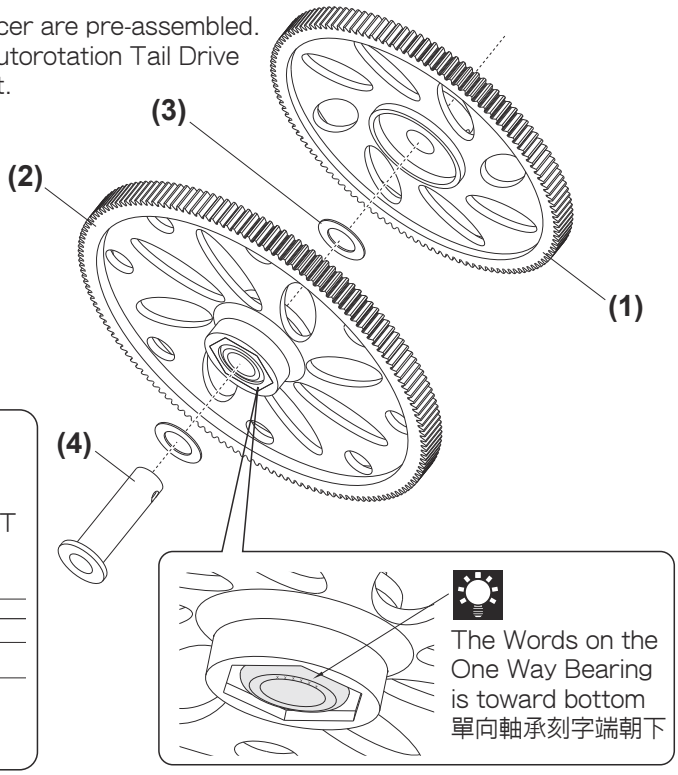
No.	Material No.	Description	名稱	Qty
5	BK1020	MAIN SHAFT LOCK RING	止擋圈	1
6	HME3-3B	SET SCREW M3×3	無頭內六角螺絲M3×3	1
7	HMC2-14B	SOCKET SCREW M2×14	內六角螺絲M2×14	1
8	HML2	M2 NUT	M2螺帽	1



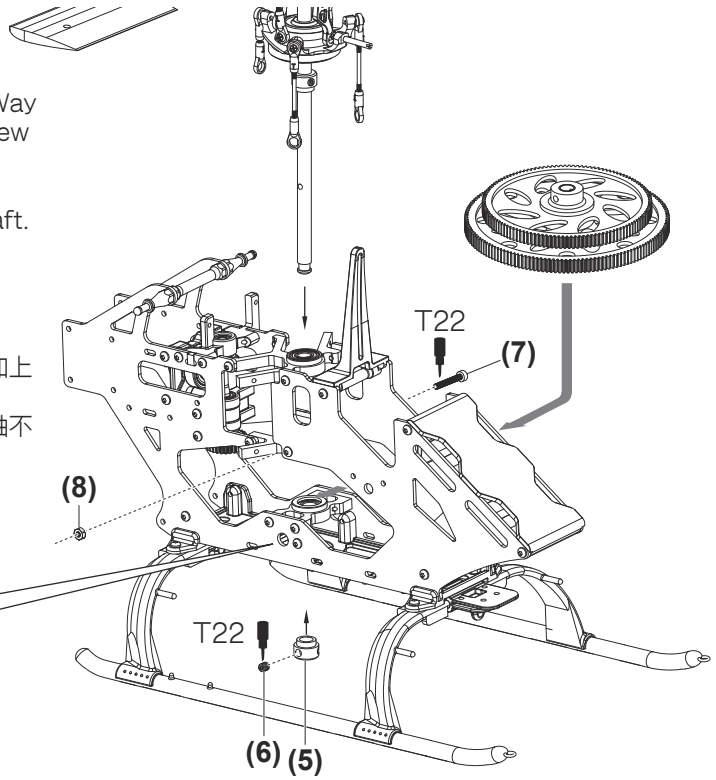


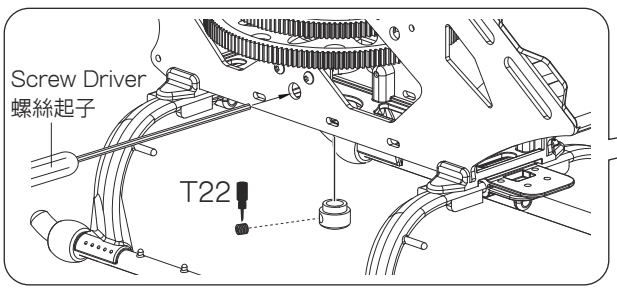
1. The One Way Bearing and the Spacer are pre-assembled.
2. Assemble the Main Gear and the Autorotation Tail Drive Gear with the One Way Bearing Shaft.
1. 單向軸承與墊片原廠已安裝完成。
2. 以單向軸套組合主齒輪與尾驅動齒輪。





1. Slide the main gear set into the main frame set.
2. Insert the Main Shaft into the Upper Bearing Housing, main gear set & Lower Bearing Housing.
3. Line up the holes of the Autorotation Tail Drive Gear, One Way Bearing Shaft & Main Shaft, and then insert the Socket Screw to fix them with a M2 Nut. Add a drop of threadlocker when securing, but do not over tighten.
4. Attach the Main Shaft Lock Ring on the end of the Main Shaft. Secure the ring by a Set Screw with a drop of threadlocker, note there should be no play of the Main Shaft.
1. 將主齒輪組套入側板組中。
2. 將主軸穿過上軸承座、主齒輪組及下軸承座。
3. 對正尾驅動主齒、單向承軸及主軸上孔位後，穿入內六角螺絲並加上螺帽，並使用適量防鬆劑固定。注意! 請勿過度緊迫螺絲!
4. 將止擋環套入主軸尾端，使用適量防鬆膠鎖上，正確安裝時，主軸不會有上下移動之空間。





Bag J TAIL BOOM / 尾管組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1*	BK2628	DRIVE SHAFT SET, d2xD4x359L	驅動軸, d2xD4x359L	1
	BK1073	BELT MXL-3T（413T）	皮帶MXL-3t（413T）	1
2	BK1004-1	TAIL BOOM 356MMX ø14	尾管 356mmx ø14	1
3	HME3-2.5B	SET SCREW M3x2.5	無頭內六角螺絲 M3x2.5	4
4	BK1584	T-PIN d2x12	T型銷 d2x12	2
5	BK1569	TORQUE TUBE END	驅動軸接頭	2
6*	BV2612	METAL TAIL UNIT HOUSING	軸傳金屬尾座	1
	BK1872	METAL TAIL UNIT	金屬尾座	1
7	BK1567	BEVEL GEAR, 11T	傘齒輪, 11T	1

No.	Material No.	Description	名稱	Qty
8*	BV1576	TAIL ROTOR SHAFT	尾旋翼橫軸組	1
	BV0973A	MATEL TAIL ROTOR SHAFT SET	尾旋翼軸組	1
9*	BV2613	METAL TAIL SIDE COVER SET	軸傳金屬尾座側蓋	1
	BV1874	METAL TAIL SIDE COVER- L	金屬尾座側蓋組-左	1
10	HSA3-6	BUTTON HEAD SOCKET SCREW, M3x6	半圓頭內六角螺絲 M3x6	2
11	HSA2-6	BUTTON HEAD SOCKET SCREW, M2x6	半圓頭內六角螺絲 M2x6	3
12	BK1578	SHOCK-AXIS RUBBER WASHER, d8xD11x6	軸傳避震墊圈, d8xD11x6	1
13	HMV840ZZY	BERING, d8xD8xW3	滾珠軸承, d8xD8xW3	1
14	BK1875	TAIL UNIT SPACER	尾座支柱	1
15	HMD2-5B	FLAT HEAD PHILLIPS SCREW, M2X5	平頭十字螺絲 M2x5	6

TORQUE-TUBE VERSION

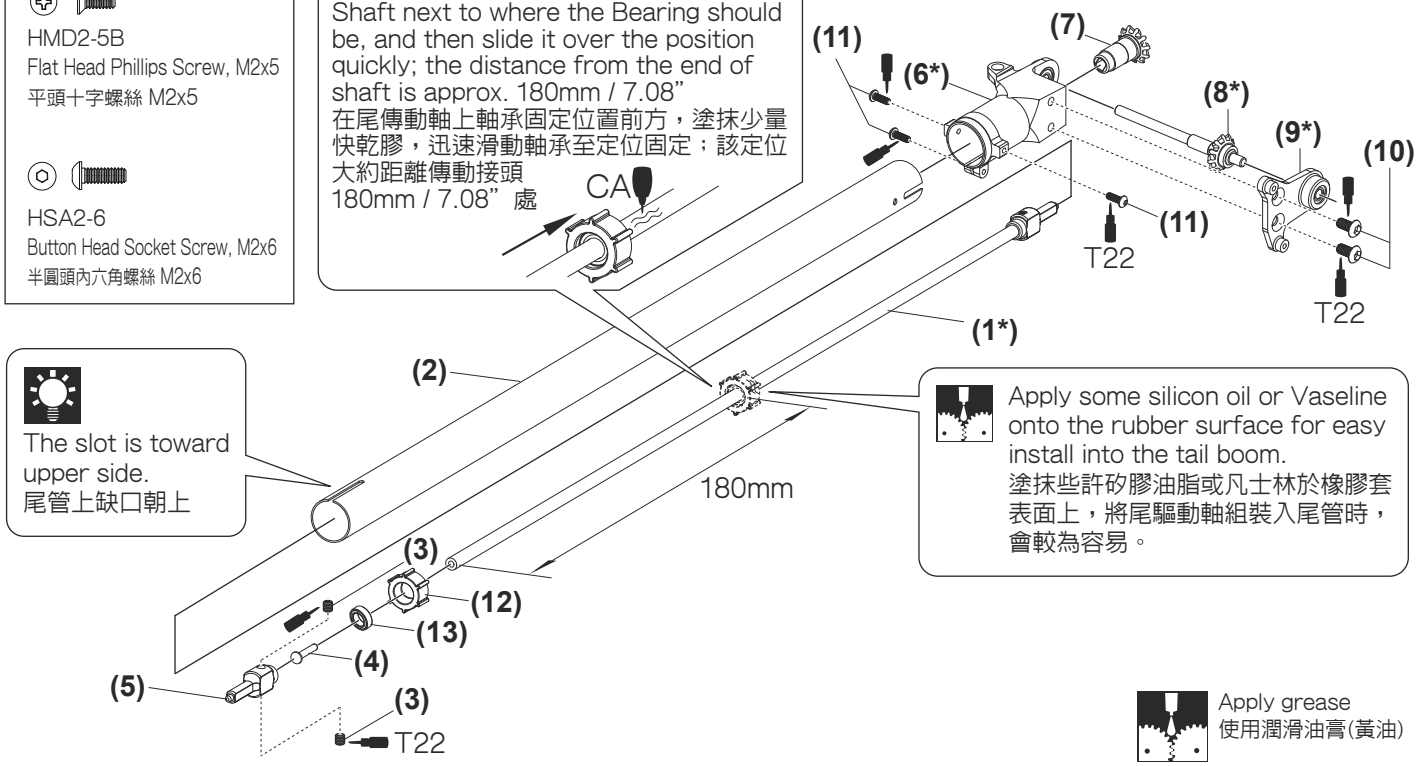
*available depending on the kit you purchased.
使用零件因購買套件有所不同。

Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。

HMD2-5B
Flat Head Phillips Screw, M2x5
平頭十字螺絲 M2x5

HSA2-6
Button Head Socket Screw, M2x6
半圓頭內六角螺絲 M2x6

Add a drop of thin CA glue on the Drive Shaft next to where the Bearing should be, and then slide it over the position quickly; the distance from the end of shaft is approx. 180mm / 7.08"
在尾傳動軸上軸承固定位置前方，塗抹少量快乾膠，迅速滑動軸承至定位固定；該定位大約距離傳動接頭 180mm / 7.08" 處



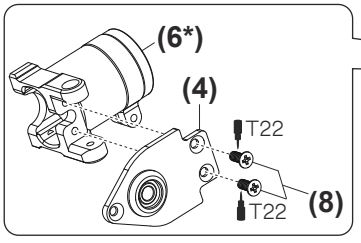
The slot is toward upper side.
尾管上缺口朝上

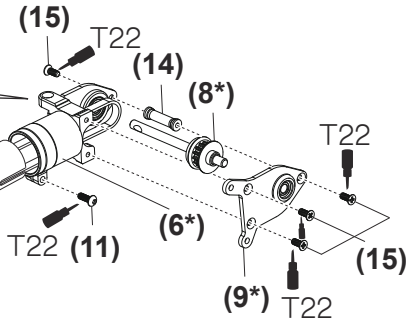
Apply some silicon oil or Vaseline onto the rubber surface for easy install into the tail boom.
塗抹些許矽膠油脂或凡士林於橡膠套表面上，將尾驅動軸組裝入尾管時，會較為容易。

Apply grease
使用潤滑油膏(黃油)

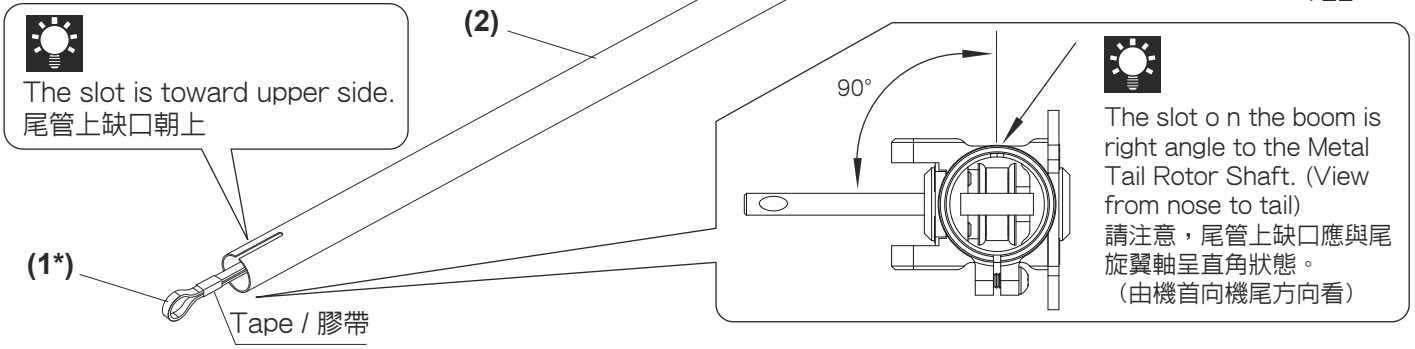
BELT-DRIVEN VERSION

Insert the Belt into the Tail Boom. First tape the belt & insert the end of the belt as shown, and not twist the belt.
將皮帶穿過尾管。用膠帶將皮帶尾端貼合可使皮帶較容易穿過尾管；並請勿扭轉皮帶。





The slot is toward upper side.
尾管上缺口朝上



The slot o n the boom is right angle to the Metal Tail Rotor Shaft. (View from nose to tail)
請注意，尾管上缺口應與尾旋翼軸呈直角狀態。
（由機首向機尾方向看）

Bag K TAIL ROTOR SYSTEM / 尾旋翼機構組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	BK0990	TAIL PITH CONTROL LEVER-1	尾旋翼控制桿-1	1
2	BK0991	TAIL PITH CONTROL LEVER-2	尾旋翼控制桿-2	1
3	BK1203	LINKAGE BALL(⌀3.8)	連接頭 (⌀3.8)	1
4	HSP16-6N	COUNTERSUNK SCREW M1.6x6	圓頭十字螺絲 M1.6x6	1
5	HMV520ZZWY	BALL BEARING, d2xD5xW2.5	滾珠軸承 d2xD5xW2.5	2
6	HNF2-6B	COUNTERSUNK SCREW M2x6	圓頭十字螺絲 M2×6	1
7	BV1421A	METAL TAIL PITH CONTROL SET	金屬尾旋翼攻角控制組	1
8	BK1091	DOUBLE JOINT LEVER	雙關連接桿	1
9	HMC2-16B	SOCKET SCREW M2x16	內六角螺絲 M2x16	2
10*	BV1894	METAL TAIL GRIP SET	金屬尾旋翼轉座組	2
	BV1411	METAL TAIL GRIP SET	金屬尾旋翼轉座組	2

No.	Material No.	Description	名稱	Qty
11	BK1000	TAIL PITCH LINK	尾旋翼連接頭	2
12	HNU2-9Z	SHOULDERED SCREW M2×9	圓頭十字軸套螺絲 M2×9	4
13	BK0972	TAIL ROTOR HUB	尾旋翼固定座	1
14	HMV520ZZWY	BEARING D2×D5×2.5	滾珠軸承 d2×D5×2.5	2
15	BK1080	SAFTY WASHER	墊圈	2
16	HMC2-8B	SOCKET SCREW M2×8	內六角螺絲 M2×8	2
17	BK0961	TAIL ROTOR BLADE	尾旋翼	2
18	HMC2-12B	SOCKET SCREW M2×12	內六角螺絲 M2×12	2
19	HMM2Z	LOCK NUT M2	止鬆螺帽 M2	2

Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。

BK1203
LINKAGE BALL(⌀3.8)
連接頭 (⌀3.8)

HSP16-6N
COUNTERSUNK SCREW M1.6×6
圓頭十字螺絲 M1.6×6

HMF2-6N
COUNTERSUNK SCREW M2×6
圓頭十字螺絲 M2×6

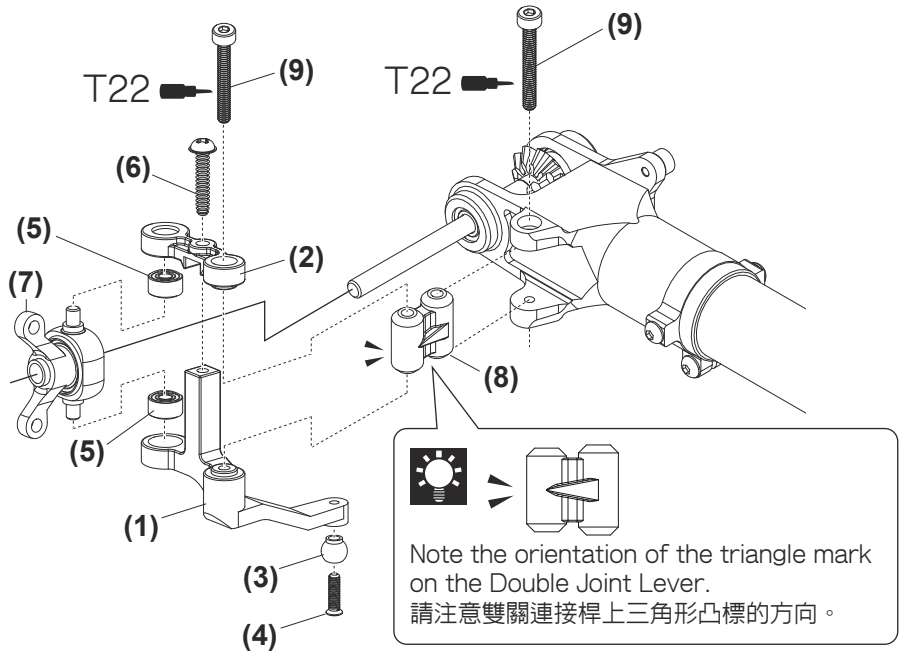
HMC2-16B
SOCKET SCREW M2×16
內六角螺絲 M2×16

HNU2-9Z
SHOULDERED SCREW M2×9
圓頭十字軸套螺絲 M2×9

HMV520ZZWY
BEARING D2×D5×2.5
滾珠軸承 d2×D5×2.5

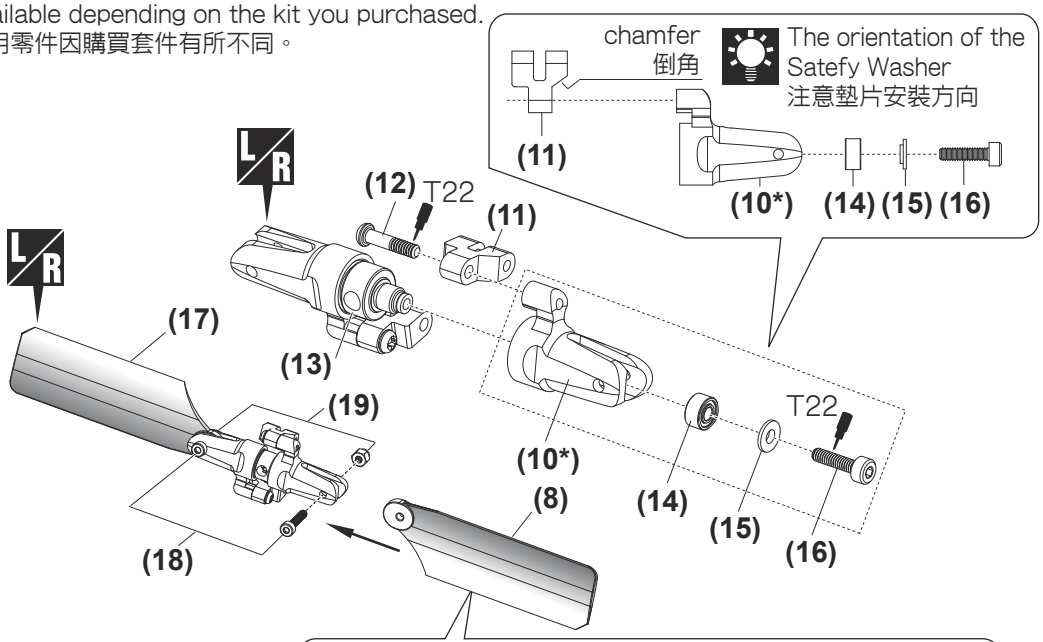
BK1080
SAFTY WASHER
墊圈

HMC2-8B
SOCKET SCREW M2×8
內六角螺絲 M2×8



Note the orientation of the triangle mark on the Double Joint Lever.
請注意雙關連接桿上三角形凸標的方向。

*available depending on the kit you purchased.
使用零件因購買套件有所不同。



Ensure smooth, non-binding movement when assembling
確認組件靈活度

Assemble left and right side the same way
左右側組件相同

Attach the Tail Rotor Blades to the Metal Tail Pitch Housing as drawing. Ensure the leading edges of the blades are toward proper side as shown.
參考圖示將尾旋翼安裝於金屬尾旋翼夾座。請確認旋翼前緣朝向正確方向(如圖示)。

Bag L TAIL ROTOR SYSTEM / 尾旋翼機構組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	HME3-3B	SET SCREW M3×3	無頭內六角螺絲 M3×3	1
2	HNU2-9Z	SHOULDERED SCREW M2×9	圓頭十字軸套螺絲 M2×9	2

No.	Material No.	Description	名稱	Qty
3	BK1501	3D CARBON TAIL FIN	3D碳纖維垂直安定面	1
4	HSA2-6	BUTTON HEAD SOCKET SCREW, M2X6	半圓頭內六角螺絲	2

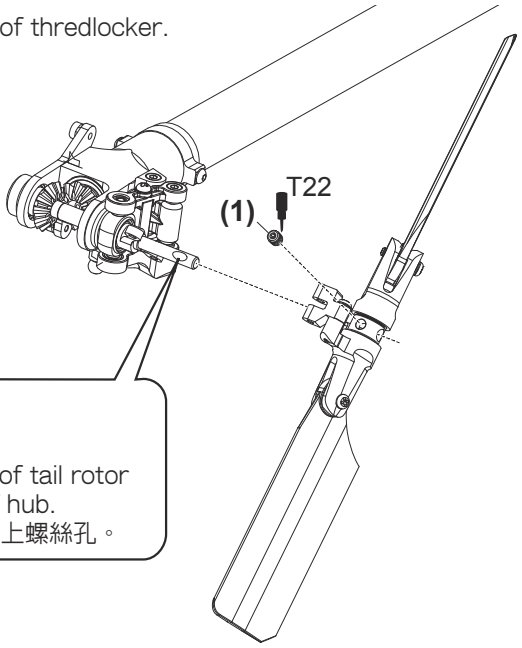
HME3-3B
SET SCREW M3×3
無頭內六角螺絲 M3×3

HNU2-9Z
SHOULDERED SCREW M2×9
圓頭十字軸套螺絲 M2×9

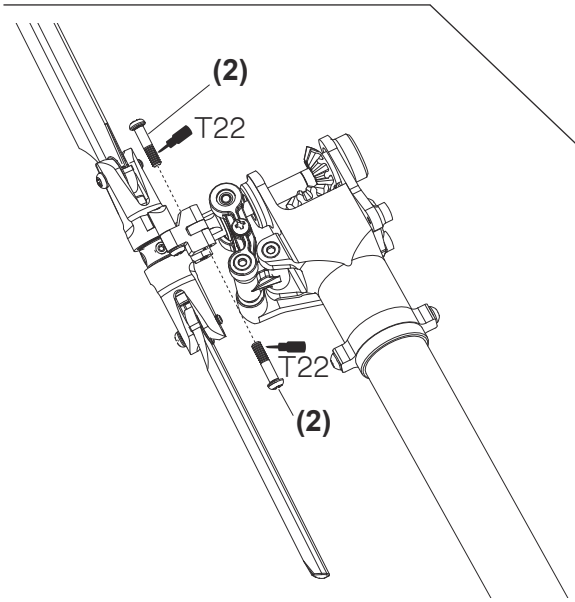
Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。

Step 1 / 步驟一

1. Slide the tail rotor set into the Tail Rotor Shaft. Line the hole up with the concave on the shaft.
2. Secure the tail rotor set tightly by the Set Screw with a drop of threadlocker.
1. 將組裝完成的尾舵控制臂與夾片組安裝至尾橫軸。
2. 無頭內六角螺絲需準確安裝於尾橫軸固定孔位，並使用防鬆膠。



Line up the concave of tail rotor shaft and the hole of hub.
尾橫軸上凹槽對正轉座上螺絲孔。

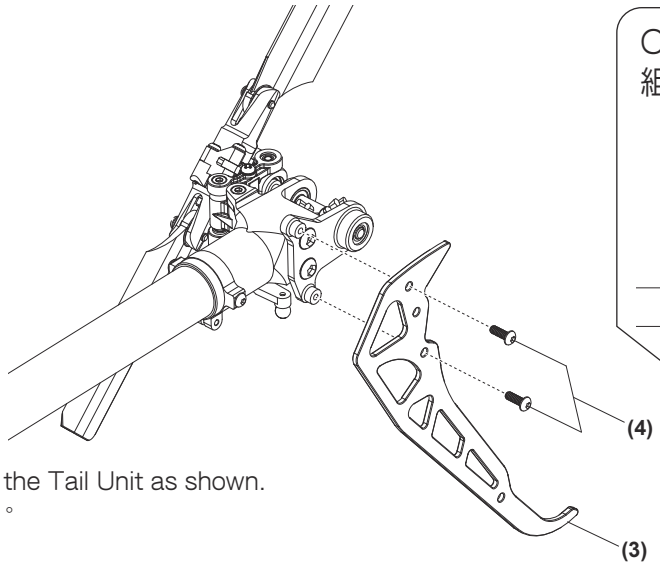


Step 2 / 步驟二

Fit the Tail Pitch Control Links to the Tail Pitch Control Set. Do not over tighten the Socket Screw and ensure the tail linkages run effortlessly.
將控制連桿與控制臂連接，請使用適量螺絲防鬆劑，勿過度鎖緊固定螺絲，並確認機構可以靈活作動。

Ensure smooth, non-binding movement when assembling
確認組件靈活度

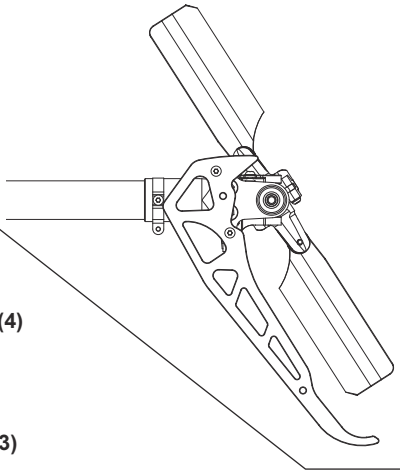
HSA2-6
BUTTON HEAD SOCKET SCREW, M2X6
半圓頭內六角螺絲



Step 3 / 步驟三

Attach the Carbon Tail Fin to the Tail Unit as shown.
將碳纖垂直安定翼固定於尾管座。

Completed View
組裝完成



Bag N TAIL UNIT-TORQUE-TUBE / 尾部總成組裝-軸傳版

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	BK1082	ROD GUIDE	固定環	2
2	HMJ12-6B	TAPPING SCREW M1.2×6	圓頭十字自攻螺絲 M1.2×6	2
3	BK0923	TAIL SERVO TRAY	尾伺服機座	2
4	HNN2-10B	TAPPING SCREW(W/WASHER) M2×10	圓頭墊圈自攻螺絲 M2×10	2
5	HNX2-10B	SOCKET BUTTON HGAD SELF TAPPING SCREW, M2x6	半圓內六角頭自攻螺絲, M2x6	8
6	HMV1060ZZY	BERING, d6xD10xW3	滾珠軸承, d6xD10xW3	1

No.	Material No.	Description	名稱	Qty
7	BK1897-1	FRONT BEVEL GEAR MOUNT	前傘齒輪座	1
8	HMV1370ZZY	BEARING d7XD13xW4	珠軸承, d7xD13xW4	1
9	BK1567	FRONT BEVEL GEAR 11T	傘齒輪 11T	1
10	BK1886	BRACKET SPACER	固定座支柱	2
11	BK2610	TAIL BOOM BRACKET	尾管固定座	1
12	HSA2-6	BUTTON HEAD SOCKET SCREW, M2x6	半圓頭內六角螺絲 M2x6	4

Step 1 / 步驟一

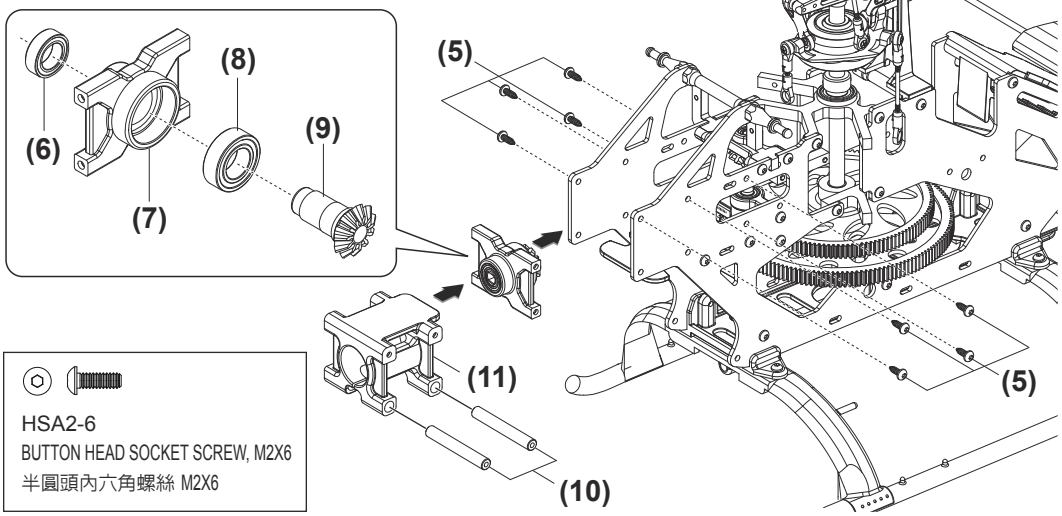
Insert the Bracket Spacers into the Tail Boom Bracket, and then secure into the main frames.
將固定座支柱穿入尾管固定座中後，鎖固於側板上。

HMJ12-6B
TAPPING SCREW M1.2×6
圓頭十字自攻螺絲 M1.2×6

HNN2-10B
TAPPING SCREW(W/WASHER) M2×10
圓頭墊圈自攻螺絲 M2×10

HNX2-10B
SOCKET BUTTON HEAD SELF TAPPING SCREW, M2×10
半圓頭內六角自攻螺絲 M2×10

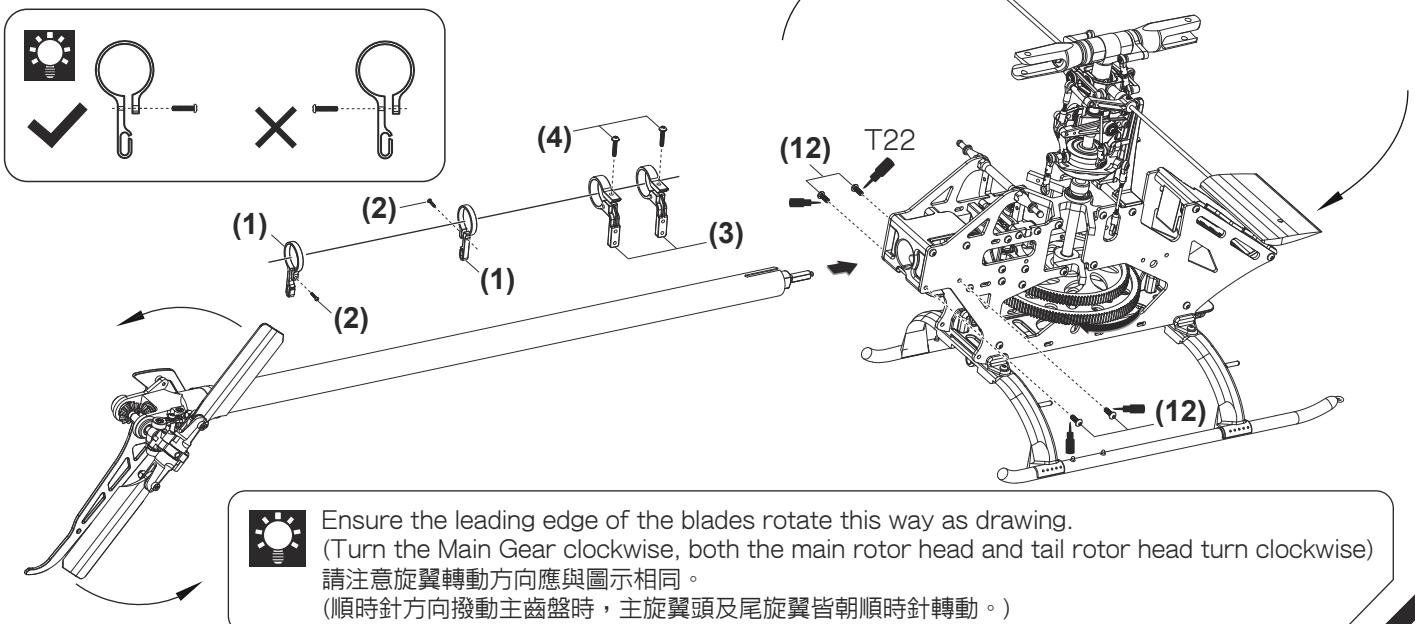
HSA2-6
BUTTON HEAD SOCKET SCREW, M2X6
半圓頭內六角螺絲 M2X6



Step 2 / 步驟二

1. Insert the tail boom through the bracket and push to the end. Check the mess of the front bevel gear set by rotating the main gear set, both main & tail rotor head rotates effortlessly if the mess is proper. Please pull the tail boom a little bit backward if the rotation is not smooth.
2. Tighten the 4 lower Tapping Screws to fix the tail boom on the bracket.

1. 將尾管插入固定座中並推至底。撥動主齒盤組確認前傘齒組齒隙，如齒隙正確則主旋翼及尾旋翼均會順暢轉動。如轉動不順暢，請將尾管稍向後拉，以獲得正確齒隙。
2. 鎖緊下方兩側4顆螺絲，將尾管迫緊於固定座上。



Ensure the leading edge of the blades rotate this way as drawing.
(Turn the Main Gear clockwise, both the main rotor head and tail rotor head turn clockwise)
請注意旋翼轉動方向應與圖示相同。
(順時針方向撥動主齒盤時，主旋翼頭及尾旋翼皆朝順時針轉動。)

Apply threadlocker
使用螺絲防鬆膠

Ensure smooth, non-binding movement when assembling
確認組件靈活度

TORQUE-TUBE

Bag M TAIL UNIT-BELT-DRIVEN / 尾部總成組裝-皮帶版

THUNDER TIGER

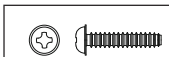
No.	Material No.	Description	名稱	Qty
1	BK1082	ROD GUIDE	固定環	2
2	HMJ12-6B	TAPPING SCREW M1.2×6	圓頭十字自攻螺絲 M1.2×6	2
3	BK0923	TAIL SERVO TRAY	尾伺服機座	2
4	HNN2-10B	TAPPING SCREW(W/WASHER) M2×10	圓頭墊圈自攻螺絲 M2×10	2

No.	Material No.	Description	名稱	Qty
5	BK2610	TAIL BOOM BRACKET	尾管固定座	1
6	BK1886	BRACKET SPACER	固定座支柱	2
7	HNX2-10B	SOCKET BUTTON HEAD SELF TAPPING SCREW, M2×10	半圓頭內六角自攻螺絲 M2×10	4
8	HSA2-6	BUTTON HEAD SOCKET SCREW, M2X6	半圓頭內六角螺絲 M2X6	4



HNX2-10B
SOCKET BUTTON HEAD SELF TAPPING SCREW, M2×10
半圓頭內六角自攻螺絲 M2×10

HSA2-6
BUTTON HEAD SOCKET SCREW, M2X6
半圓頭內六角螺絲 M2X6



HNN2-10B
TAPPING SCREW(W/WASHER) M2×10
圓頭墊圈自攻螺絲 M2×10

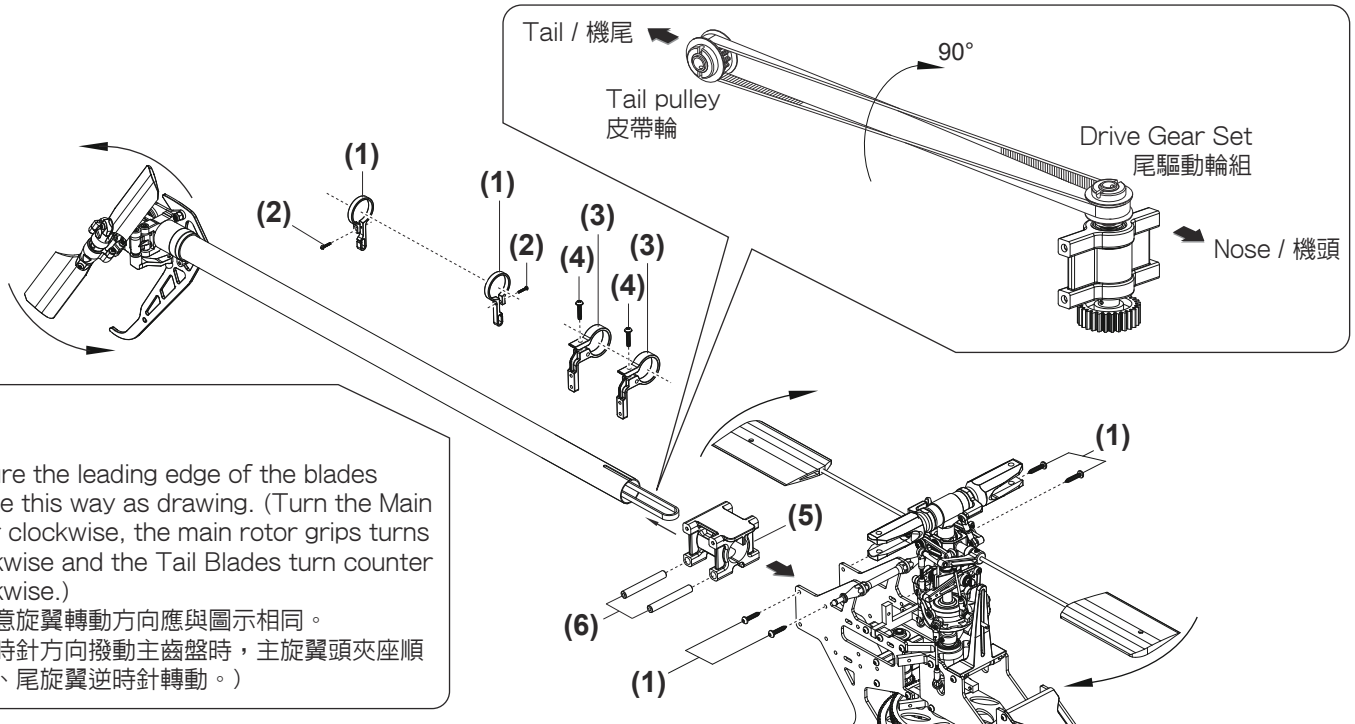


HMJ12-6B
TAPPING SCREW M1.2×6
圓頭十字自攻螺絲 M1.2×6

Step 1 / 步驟一

1. Remove the tap from the end of the belt. Insert the tail unit into the main frame set, twist the belt toward right for 90° and then warp around the pulley.
2. First tighten the 4 upper Tapping Screws（HNN2-10B,#1）to attach the Tail Bracket on the main frame set.

1. 移除皮帶末端膠帶。將尾部套入主側板組中，同時將皮帶向右扭轉90度後，繞過皮帶輪。
2. 先緊鎖上方的兩側4顆螺絲，將尾管固定座固定在主側板組上。

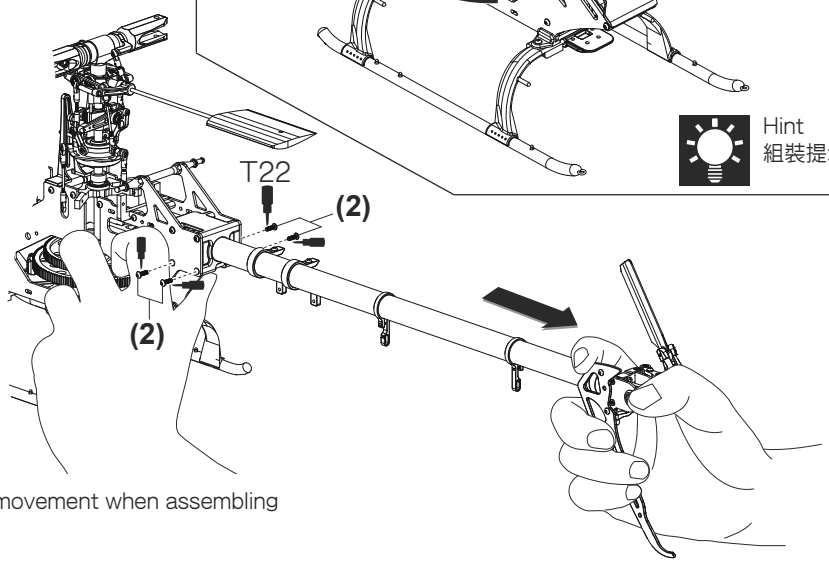


Ensure the leading edge of the blades rotate this way as drawing. (Turn the Main Gear clockwise, the main rotor grips turns clockwise and the Tail Blades turn counter clockwise.)
請注意旋翼轉動方向應與圖示相同。
（順時針方向撥動主齒盤時，主旋翼頭夾座順時針、尾旋翼逆時針轉動。）

Step 2 / 步驟二

1. Pull the Tail Boom out slightly by grasping the Tail Unit with one hand and the main frame set with the other. Adjust until the belt deflects by about 0.2mm (0.08”).
2. Tighten the 4 lower Tapping Screws（HSA2-6B,#2）to fix the Tail Bracket on the main frame set.

1. 一手固定主側板組，另一手握住尾部將尾管向外拉，使皮帶拉緊。適當的皮帶緊度應於推壓皮帶時陷下少於0.2mm(0.08”)。
2. 將下方的兩側4 顆螺絲螺緊，將尾管固定座固定於主側板組。



Hint
組裝提示

Apply threadlocker
使用螺絲防鬆膠

Ensure smooth, non-binding movement when assembling
確認組件靈活度

BELT-DRIVEN

Bag P TAIL SUPPORT / 尾管支撐架組裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	BK1026	BRACKET	尾支撐桿座	1
2	BK1027	ROD ø3×255mm	碳纖棒 ø3×255mm	2
3	BK1025	TAIL SUPPORT ROD END	尾支撐桿接頭	4
4	BK1889	FRAME SPACER	機身支柱	1
5	HMC2-10B	SOCKET SCREW M2×10	內六角螺絲 M2×10	2
6	HMC2-14B	SOCKET SCREW M2×14	內六角螺絲 M2×14	1

No.	Material No.	Description	名稱	Qty
7	HML2	M2 NUT	M2螺帽	1
8	BK1071	TAIL LINKAGE ROD ø1.3	尾拉桿 ø1.3	1
9	BK0922	BALL LINK D3.8x12mm	單頭連接桿 D3.8x12mm	2
10	HSP16-6N	COUNTERSUNK SCREW M1.6×6	圓頭十字螺絲 M1.6×6	1
11	BK1203	LINKAGE BALL (ø3.8)	連接頭 (ø3.8)	1
12	HNN2-10B	TAPPING SCREW(W/WASHER) M2×10	圓頭墊圈自攻螺絲 M2×10	2



HMC2-10B
SOCKET SCREW M2×10
內六角螺絲 M2×10



HMC2-14B
SOCKET SCREW M2×14
內六角螺絲 M2×14



HML2
M2 NUT
M2螺帽



BK0922
BALL LINK D3.8x12mm
單頭連接桿 D3.8x12mm



HSP16-6N
COUNTERSUNK SCREW M1.6×6
圓頭十字螺絲 M1.6×6



BK1203
LINKAGE BALL (ø3.8)
連接頭 (ø3.8)

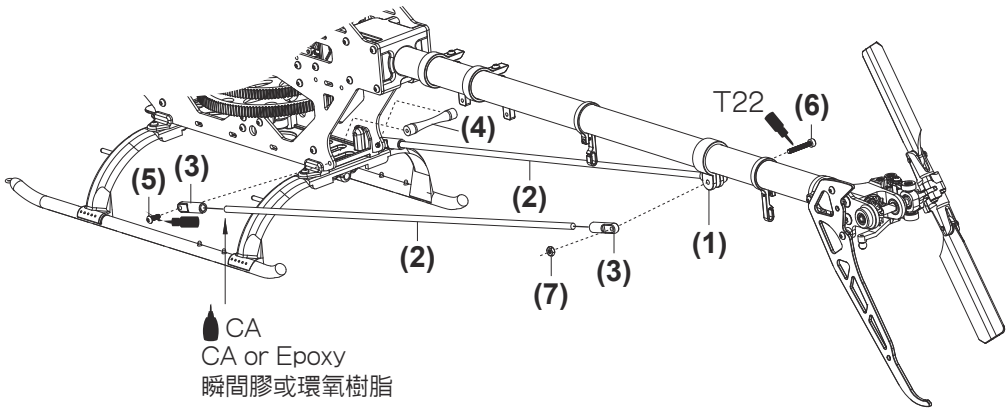


HNN2-10B
TAPPING SCREW(W/WASHER) M2×10
圓頭墊圈自攻螺絲 M2×10

Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。

Step 1 / 步驟一

1. Apply CA or Epoxy when assembling the Tail Support Rod End.
2. Install the Tail Support Bracket and fit the Tail Support Rod.
1. 使用快乾膠接合尾支撐桿接頭與碳纖棒。
2. 將支撐桿座與支撐桿接合。





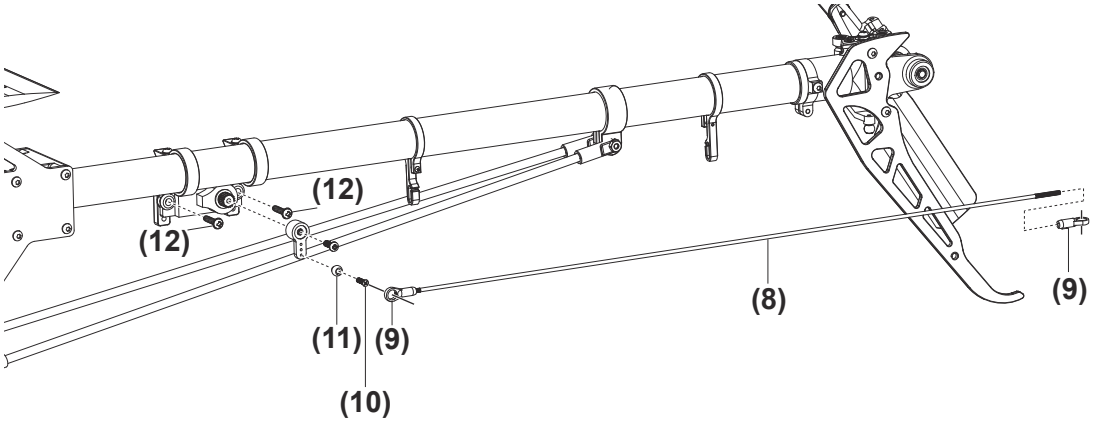
Apply C.A Glue
使用快乾膠黏合



Apply threadlocker
使用螺絲防鬆膠

Step 2 / 步驟二

1. Remove the tail servo wheel prior to attaching the Linkage Ball.
2. For the rudder servo, mount the Linkage Ball at 10.5mm from the center of the servo arm as beginning. Please refer to the manual of your gyro to choose the length of the arm.
3. Secure the servo to the Tail Servo Tray and attach the rod to the servo arm.
1. 從尾舵伺服機上將伺服機擺臂拆下，安裝連桿頭。
2. 將連桿頭安裝於距離擺臂中心位置10.5mm處作為初始設定，建議您參考陀螺儀說明書安裝。
3. 將伺服機安裝於尾舵伺服機固定座，並與連桿連接。



Bag O MOTOR MOUNT / 馬達安裝

No.	Material No.	Description	名稱	Qty
1	BK1890	MOTOR MOUNT	馬達座	1
2	HSA3-5B	SOCKET SCREW M3×5	半圓頭內六角螺絲 M3×5	2
3	HME3-3B	SET SCREW M3×3	無頭內六角螺絲 M3×3	1

No.	Material No.	Description	名稱	Qty
4	BK1009	DRIVE GEAR 13T	驅動齒輪 13T	1
5	HSA2-6	BUTTON HEAD SOCKET SCREW M2X6	半圓頭內六角螺絲 M2x6	4

Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。

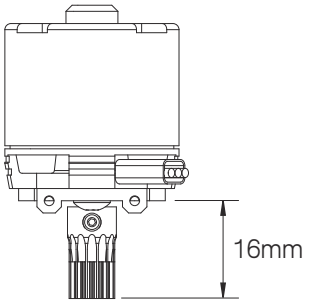
HSA3-5B
SOCKET SCREW M3×5
半圓頭內六角螺絲 M3×5

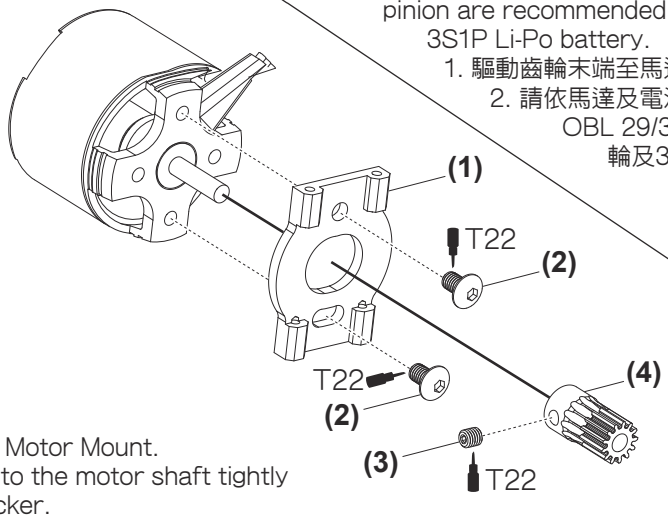
HME3-3B
SET SCREW M3×3
無頭內六角螺絲 M3×3

HSA2-6
BUTTON HEAD SOCKET SCREW M2X6
半圓頭內六角螺絲 M2x6

1. The length from the end of Drive Gear to Motor Mount is 16mm.
2. Please select the Drive Gear based on your motor & battery. The OBL 29/37-10H (No. 2382) Brushless Motor and 13T pinion are recommended for mini Titan V2 with ACE Power 3S1P Li-Po battery.

1. 驅動齒輪末端至馬達座距離為16mm。
2. 請依馬達及電池種類搭配驅動齒輪。使用ACE RC OBL 29/37-10H無刷馬達，建議搭配13T驅動齒輪及3S1P鋰聚電池組。



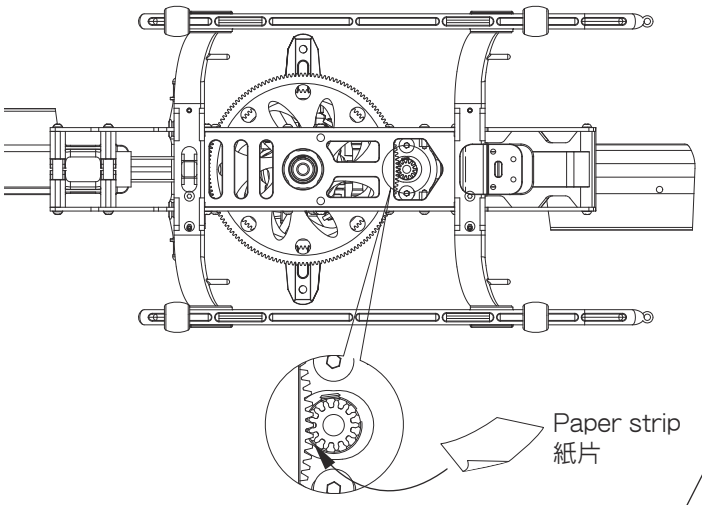


Step 1 / 步驟一

1. Mount the motor to the Motor Mount.
2. Secure the Drive Gear to the motor shaft tightly with a drop of threadlocker.

1. 將馬達固定於馬達固定片上。
2. 使用適量防鬆劑將驅動齒論固定於馬達主軸上。

You can observe the gear mesh from the bottom of Bottom Bracket.
您可從機體底部檢視齒輪間隙。

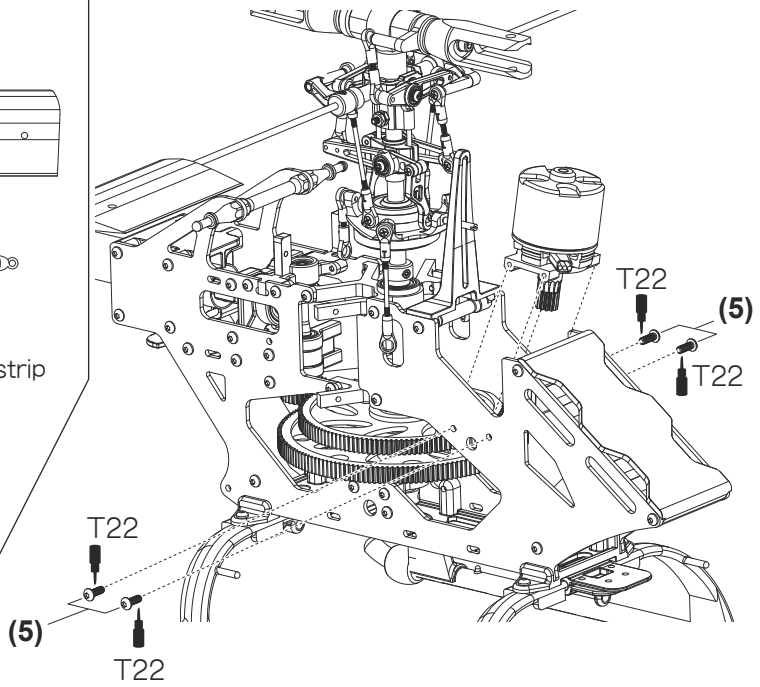


For proper mesh, insert a paper strip between the Pinion and Main Gear, and then push the Motor/Main Gear together. Remove the paper strip.
在驅動齒輪及主齒盤插入一紙片可取得兩者間適當的間隙，完成後請記得抽出紙片。

Step 2 / 步驟二

1. Install the Motor Mount into the main frame.
2. Adjust the mesh between the Main Gear and Drive Gear until there is a small amount of backlash all the way.

1. 將組裝好的馬達座固定於機身。
2. 調整好齒輪間隙之後，確實固定馬達座。

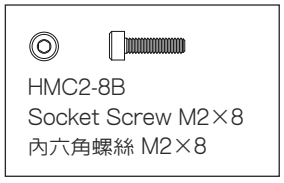


Bag P SERVO INSTALLATION / 伺服機裝配

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	HMC2-8B	SOCKET SCREW M2×8	內六角螺絲 M2×8	6

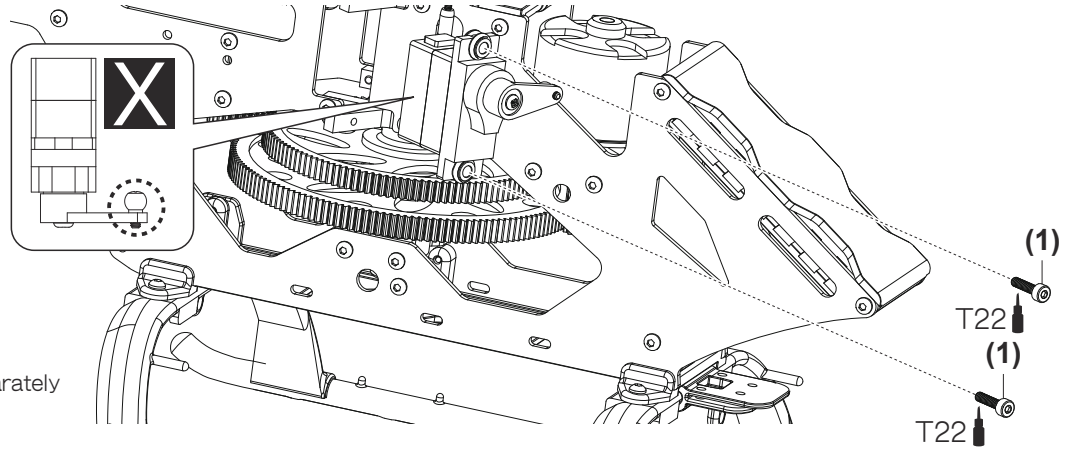
Secure all screws shown on this page with a drop of thredlocker.
本頁顯示之螺絲請使用適量防鬆膠鎖固。



HMC2-8B
Socket Screw M2×8
內六角螺絲 M2×8

Step 1 / 步驟一

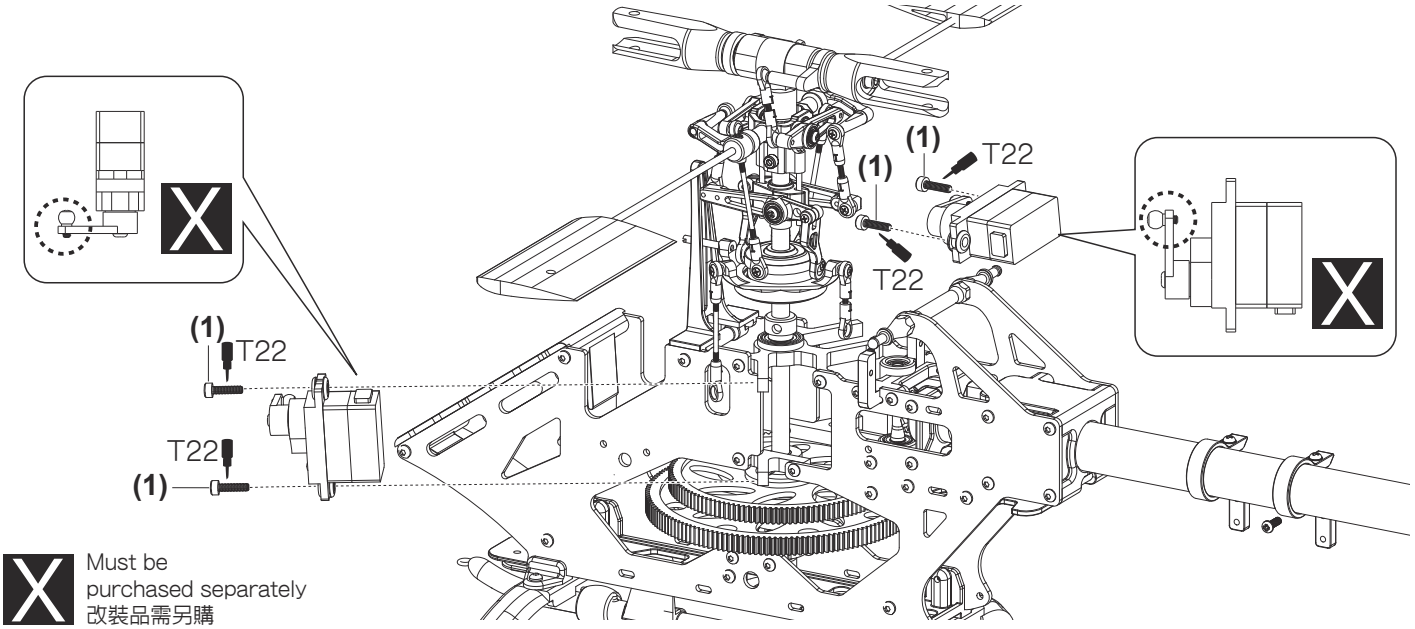
1. Remove the servo wheel prior to attaching the Linkage Ball.
2. Mount the Linkage Ball at 12.5mm from the center of the servo arm.
3. Secure the servo to the right Servo Tray and attach the rod to the servo arm.
1. 從伺服機上將伺服機擺臂拆下，安裝連桿頭。
2. 將連桿頭安裝於距離擺臂中心位置12.5mm處。
3. 將完成連桿頭安裝伺服機安裝於伺服機固定座右側，並與連桿連接。（左右側伺服機擺臂連桿頭朝內）



X Must be purchased separately
改裝品需另購

Step 2 / 步驟二

1. Remove all the servo wheels prior to attaching the Linkage Balls.
2. Mount the Linkage Balls at 12.5mm from the center of the servo arms.
3. Secure the servos to the left and to the back, attach the rods to the servo arms.
1. 從伺服機上將另外兩組伺服機擺臂拆下，安裝連桿頭。
2. 將連桿頭安裝於距離擺臂中心位置12.5mm處。
3. 將完成連桿頭安裝伺服機安裝於伺服機固定座左側與後側，並與連桿連接。（後側伺服機擺臂連桿頭朝外）



X Must be purchased separately
改裝品需另購

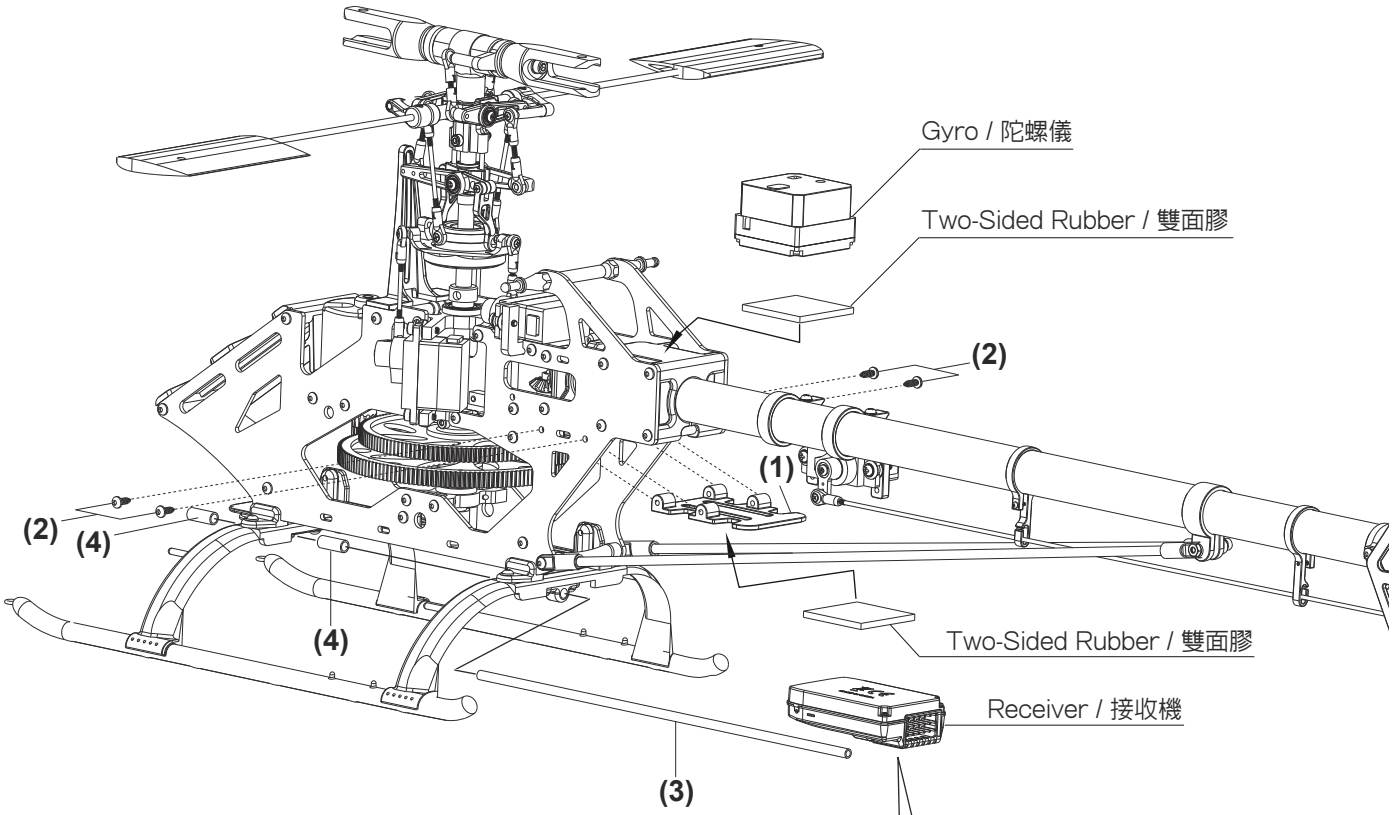
Bag P ELECTRIC DEVICE / 電子設備安裝

THUNDER TIGER

No.	Material No.	Description	名稱	Qty
1	BK2605	RECEIVER TRAY	接收機座	1
2	HNX2-6B	SOCKET BUTTON HEAD SELF TAPPING SCREW, M2×6	半圓頭內六角自攻螺絲 M2×6	4
3	BD1826-B1	ANTENNA TUBE	天線管(黑色)	1
4	BK1088	RUBBER TUBE 10mm	軟管10mm	2

HNX2-6B
SOCKET BUTTON HEAD SELF TAPPING SCREW, M2×6
半圓頭內六角自攻螺絲 M2×6

1. Attach the receiver, gyro to the Main Frame by two-sided rubber.
2. Insert the Antenna Tube and fix it by the Rubber Tube.
1. 使用雙面膠固定接收機、陀螺儀於機體。
2. 安裝天線管並使用軟管固定。



Secure the receiver with straps to prevent it from being ejected.
接收機請用適當束帶固定，以防止飛行中鬆脫。

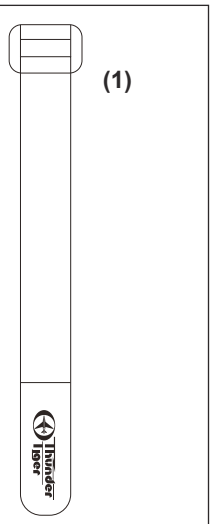
X Must be purchased separately
改裝品需另購

Bag Q CANOPY & MAIN BLADE / 機殼罩及主旋翼

THUNDER TIGER

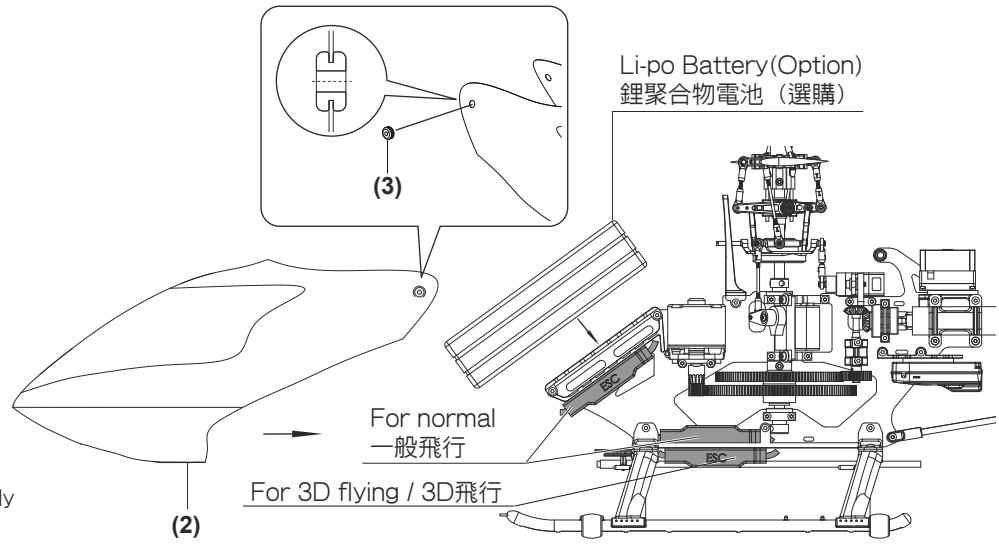
No.	Material No.	Description	名稱	Qty
1	BK1416	VELCRO STRAPE	電池固定束帶	2
2	BV2607-Y	CANOPY	機身	1
3	BK1002	RUBBER GROMMET	機身固定墊圈	2

No.	Material No.	Description	名稱	Qty
4	BK1442	BLADE SPACER	主旋翼墊片	2
5	HMC3-20B	SOCKET SCREW M3×20	內六角螺絲 M3×20	2
6	HMM3Z	M3 NYLON NUT	M3 防鬆螺帽	2

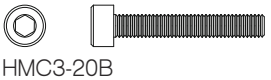


BK1416
VELCRO STRAPE
電池固定束帶

1. Mount the ESC（Option） either between the frames or under the Battery Tray wherever it fits and better cooling.
2. Secure the ESC & Battery（Option） with Velcro Straps to prevent them from being ejected.
1. 速控器（選購）可置放於主側板組內，或電池板下方，以速控器尺寸及散熱效果為主。
2. 使用適當固定束帶固定速控器及電池組（選購），以防止飛行中脫落。



X Must be purchased separately
改裝品需另購



HMC3-20B
SOCKET SCREW M3×20
內六角螺絲 M3×20



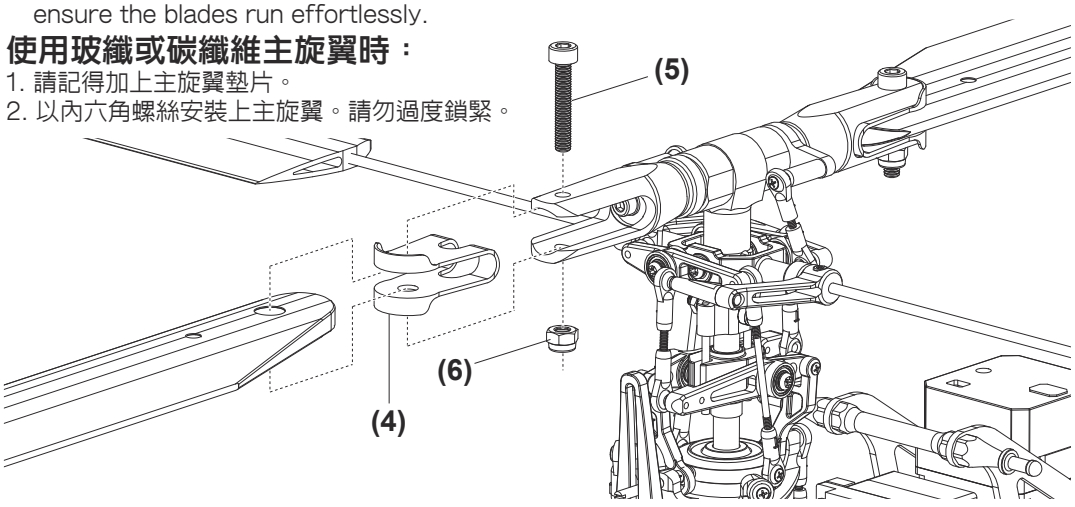
HMM3Z
M3 NYLON NUT
M3 防鬆螺帽

For Fiber-glass(FRP) or Carbon Blades:

1. Remember to attach the Blade Spacer on the grips as drawing.
2. Install the main blades with the Socket Screw (HMC3-20B, #3). Do not over tighten and ensure the blades run effortlessly.

使用玻纖或碳纖維主旋翼時：

1. 請記得加上主旋翼墊片。
2. 以內六角螺絲安裝上主旋翼。請勿過度鎖緊。



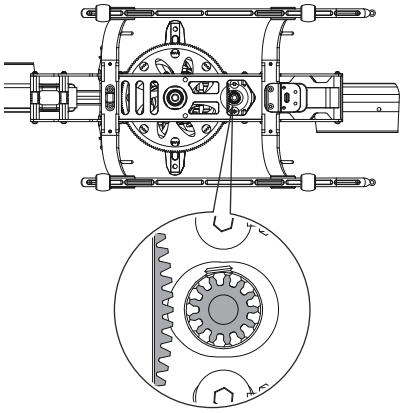
1. You may need to adjust the linkage to ensure the blade tracking. Please refer page 39 “Blade Traking Adjustment”.
2. For safety, we strongly suggest using wood or FRP blades for level flight only, rpm should not exceed 1500. Upgrading to carbon blades for F3C or 3D flying is strongly recommended.
3. For safety the rpm of using carbon blades should not exceed 3200.
1. 您可能必需調整相關的連桿來確保旋翼旋轉軌跡正常。請參閱第39頁“主旋翼軌跡調整”說明。
2. 安全起見，在飛行F3C科目或3D動作時，我們強烈建議您將主旋翼換裝碳纖維槳；木槳或玻纖槳僅適合旋翼轉速不超過1500rpm的一般飛行使用。
3. 安全起見，碳纖維主旋翼轉速請勿超過3200rpm。

RADIO SYSTEM SETUP / 遙控系統設定

THUNDER TIGER

Warning! / 警告!

For safety, please ensure the motor has been deactivated and will not drive the main rotor head before performing following setting processes. You may just unplug 2 of the wires from the motor and the ESC or move the motor with pinion away from the main gear to avoid a rotating rotor head.
安全起見，執行下列設定程序時，請確認馬達不會驅動主旋翼頭。您可拔除馬達與速控器間任兩條連接線，或將馬達驅動齒與主齒盤脫離。

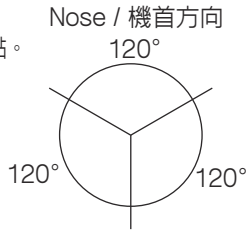


SWASHPLATE TYPE SETTING / 十字盤模式設定

THUNDER TIGER

Before starting, make sure the following preparation is done.
1. Set all trims, knobs, and switches to the neutral and zero position.
2. Reset the radio to its factory preset position.
3. Choose the 120° E-CCPM swashplate control mode.
Please refer your Transmitter manual to find a proper setting.

開始設定之前，請先確認下列注意事項
1. 發射機上所有的調整旋鈕、機構均位於中立點。
2. 重新設定原廠內建數據。
3. 選擇E-CCPM 120° 模式。
請參閱遙控器說明書，進行設定。

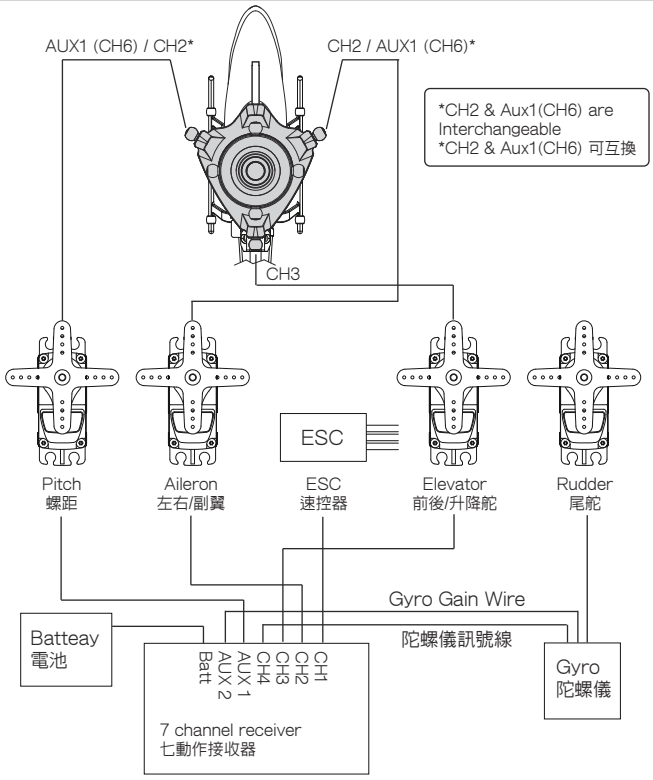


ELECTRIC DEVICE CONNECTION / 電子設備連接說明

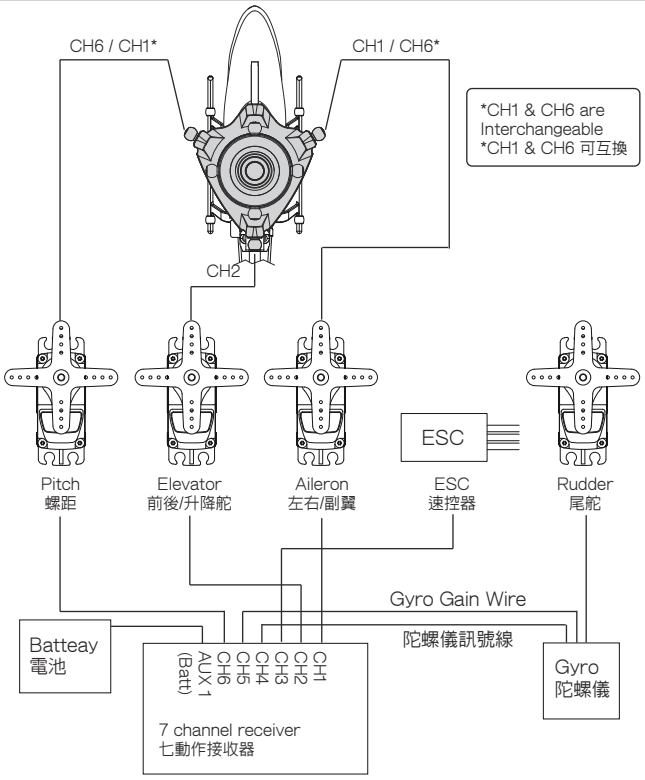
THUNDER TIGER

E-CCPM system requires 3 channel for aileron, elevator and an AUX(for pitch). They are operated together to carry out the rolling, flipping and collective controlling. As a result, the following connecting manner is recommended.
The following chart is the E-CCPM connecting for your reference. Please also consult your radio instruction manual.
E-CCPM系統需要使用三個通路予副翼、升降舵、與螺距（使用AUX通道）。在混控模式下，必須藉由三顆伺服機同時完成動作，因此建議依照下列說明完成伺服機與接收機連結。下列圖示為安裝範例，實際接線方式，請參照您的遙控器使用說明書。

JR Radio Sysym



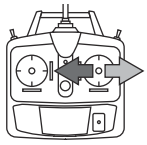
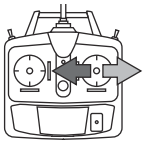
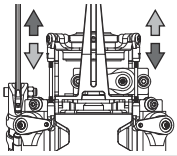
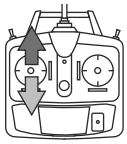
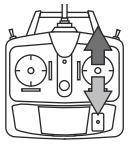
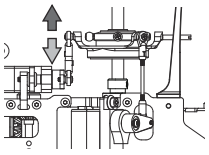
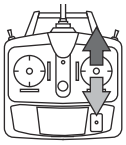
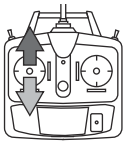
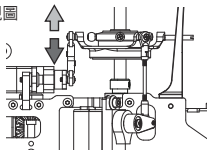
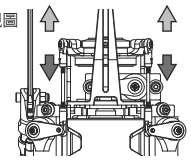
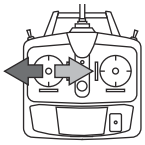
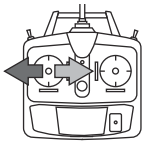
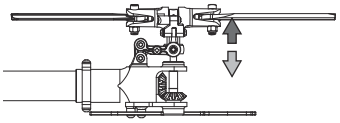
ACE RC / FUTABA / HITEC Radio Sysym



SWASHPLATE & SERVO MOVEMENT SETTING / 十字盤及伺服機動作設定

THUNDER TIGER

As going through these setup procedures, ensure there is none of the controls bind at full travel.
Next, please refer below illustrations to ensure the direction of servo movement and swash mixing settings are correct for the controls properly.
在繼續設定之前，請先確認伺服機及連桿作動皆順暢可達最大作動量。
然後，請參考下表圖示，確認伺服機動作及十字盤混控設定可正確對應撥桿動作。

	Model 1	Model 2	Check Point 機構動作確認
Aileron 副翼			Front View / 前視圖 
Elevator 升降舵			Right View / 右視圖 
Pitch 螺距			Right View / 右視圖  Front View / 前視圖 
Rudder 尾舵			

If the movements of servos or swashplate are not correct, please adjust the servo reverse settings for one or more channels in your Transmitter.
若伺服機或十字盤作動方向不正確，請調整您遙控器上個別的伺服機逆轉功能。

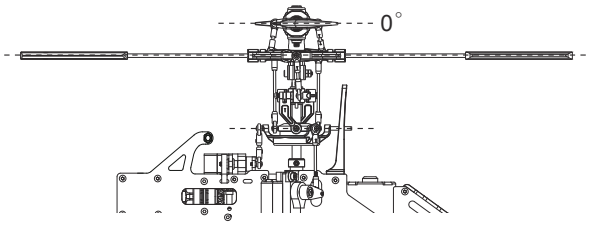
COLLECTIVE PITCH SETTING / 主旋翼螺距設定

THUNDER TIGER

Since you have been setting the lengths of the pushrod as mentioned, the linkage should be centered well as described below.
若您依照前述設定連桿長度，連桿位置將如下述。

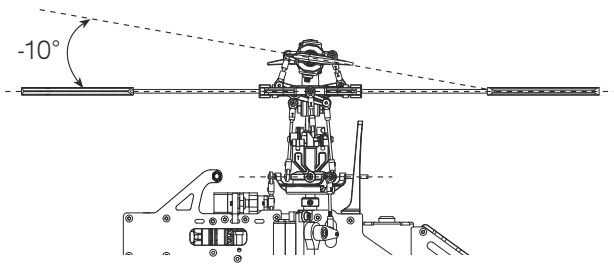
Centering / 中立點

1. The levers should be as the drawing below while centering the collective pitch stick.
2. Parallel the flybar, the main blades should be at 0 degree and the swashplate should be level.
1. 發射機撥桿置於中立點時，升降舵與副翼面應呈現水平狀態（如圖示）
2. 平衡片與主旋翼應呈現平行狀態（0°），十字盤呈現水平。



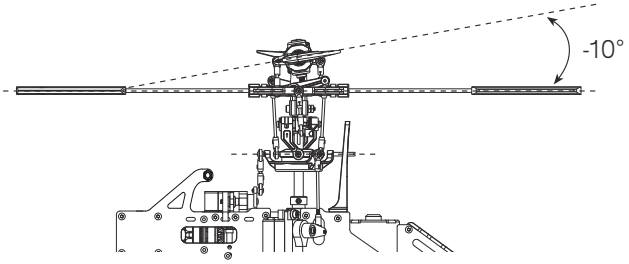
Maximizing / 最大設定角度

1. Place the collective stick at high end.
2. The main blades should be at 10 degree and the swashplate should be level.
1. 將螺距撥桿上推至最高點。
2. 主旋翼相對於平衡桿角度為10°，十字盤呈現水平。



Minimizing / 最小設定角度

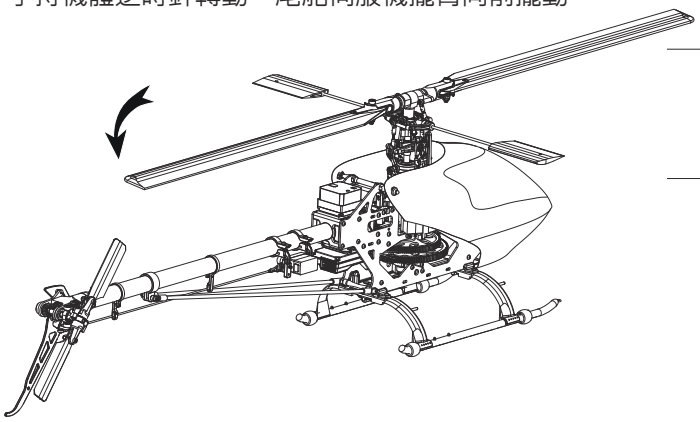
1. Place the collective stick at low end.
2. The main blades should be at 10 degree and the swashplate should be level.
1. 將混控撥桿下推至最低點。
2. 主旋翼相對於平衡桿角度為-10°，十字盤呈現水平。

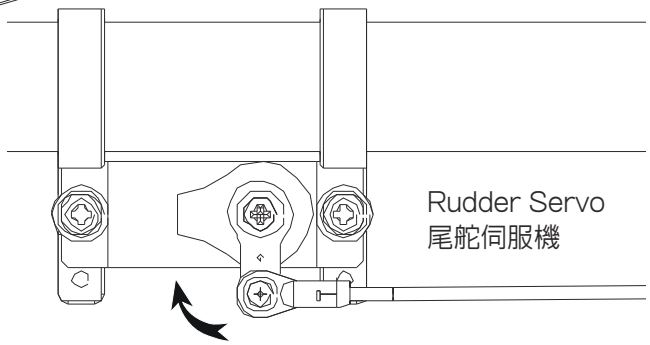


TAIL CONTROL AND GYRO SETUP / 尾舵控制及陀螺儀設定

It is recommended to use a Heading Hold Gyro. With a Heading Hold Gyro, you may not use the trim and the revolution mixing function of tail control.
First, choose the length of the tail servo arm referring to the manual of the Gyro. You may try 10.5mm as the starting setting. Then mount the servo arm for the moment and check the movement of the tail servo:
1. While giving the right rudder control, the servo arm should move forward.
2. Rotate the helicopter with your hand counterclockwise, the servo arm should move forward.

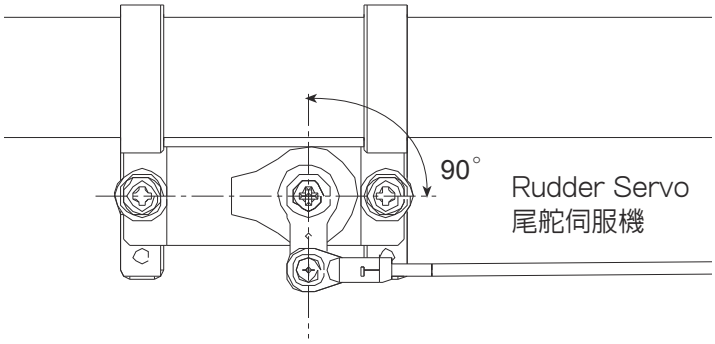
建議使用鎖定式陀螺儀來作為尾舵控制系統，可為您帶來使用與設定上的便利與可靠度。
首先，參考陀螺儀使用手冊來設定尾舵伺服機擺臂長度。建議您可以10.5mm作為初步設定長度。將擺臂固定於伺服機上，並與尾舵拉桿連接。
1. 尾舵控制桿右舵指令，伺服機擺臂向前擺動。
2. 手持機體逆時針轉動，尾舵伺服機擺臂向前擺動。

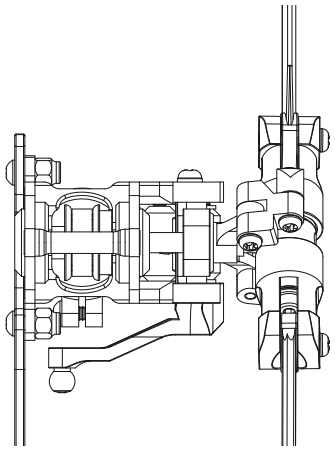




After esuring of moving direction of tail servo, you have to mount the servo arm in the correct position. Please reset the receiver power and do not move the helicopter. While the tail control stick and trim are centered, mount the servo arm vertically. Next, two points may be your concern:
1. The traveling limit of the tail servo may not go beyond the mechanical movement.
2. The tail servo horn should be vertical while the tail rotor are at 0 pitch or with a little offset to the right.(Referring to the drawing below)

確認尾舵伺服機作動方向後，即可將伺服機擺臂安裝於伺服機上。安裝時，記得重新開啟接收機電源且勿移動直昇機。伺服機擺臂須以90°安裝（如圖示）。請確認擺臂位於中立點位置及下列兩點注意事項：
1. 尾舵最大行程量，勿超過尾舵機械行程量。
2. 尾舵伺服機擺臂在中立點時，尾舵螺距應為0°或稍偏向右舵（如圖示）。





Note
1. To find the traveling limit, you have to adjust the Gyro referring to its manual.
2. To adjust the pirouetting speed of the helicopter, please use the "Travel Adjustment" or the "D/R & EXP" function.

注意事項
1. 您可參考陀螺儀說明書，確認尾舵最大行程量。
2. 調整尾舵自旋轉速，請使用行程設定功能（Travel Adjustment）或是（D/R＆EXP）功能調整。

SETTING UP DATA FOR YOUR REFERENCE / 設定參考值

THUNDER TIGER

The following is the setting up data of pitch curve and throttle curve for your reference only. Please ask experienced pilot to help you if you have never done this before.
下列螺距與油門設定數值，僅提供您參考用。如果您是一位新手，建議您可求助於專業雷虎科技經銷商或有經驗的同好以完成設定。

Novice / 初學者

Throttle Curve / 油門曲線

	1	2	3	4	5
Normal	0	45	65	85	100

Pitch Curve / 螺距曲線

	1	2	3	4	5
Normal	40	-	75	-	100

Pitch Angle / 攻角

	1	2	3	4	5
Normal	-2°	-	+5°	-	+10°

Aerobatic Flying / 特技飛行

Throttle Curve / 油門曲線

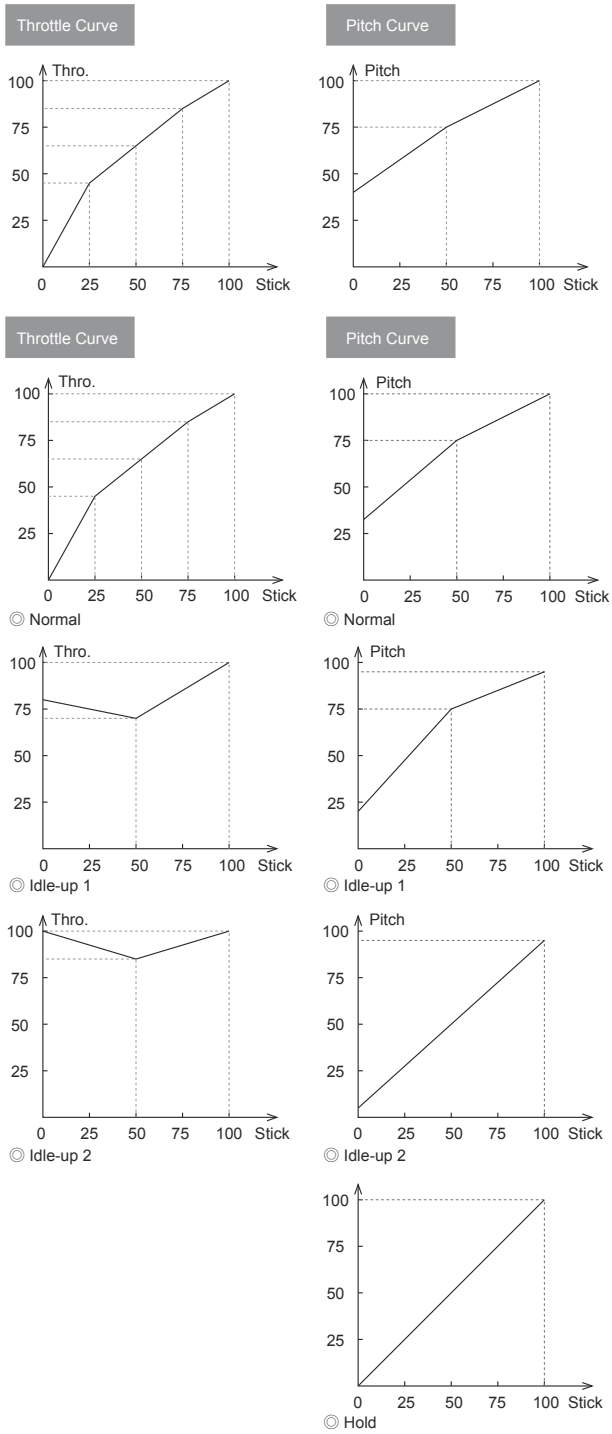
	1	2	3	4	5
Normal	0	45	65	85	100
Idle 1	80	-	70	-	100
Idle 2	100	-	80	-	100

Pitch Curve / 螺距曲線

	1	2	3	4	5
Normal	30	-	75	-	100
Idle 1	20	-	75	-	95
Idle 2	5	-	-	-	95
Hold	0	-	-	-	100

Pitch Angle / 攻角

	1	2	3	4	5
Normal	-4°	-	+5°	-	+10°
Idle 1	-6°	-	+5°	-	+9°
Idle 2	-9°	-	-	-	+9°
Hold	-10°	-	-	-	+10°



⚠ WARNING 警告

1. Too much collective pitch will bring about too much loading to the power and drive system.
2. Too much headspeed will lead to blades (grips) explosion.
3. It's very dangerous for setting the headspeed over the blades (grips) limit.
4. Please do not set the collective pitch to exceed the maximam.

1.過大的聚合螺距設定會使動力及傳動系統超載。
2.過快的主旋翼轉速會造成主旋翼轉座崩裂或射槳。
3.將旋翼轉速設定超過槳片負載極限極端危險!
4.請勿將聚合螺距設定超過最大值。

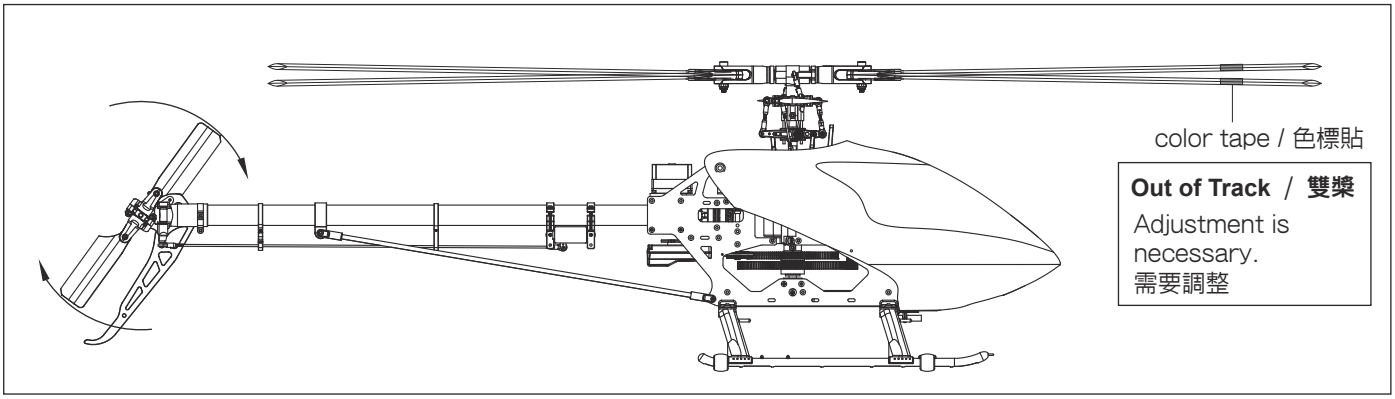
BLADE TRACKING ADJUSTMENT / 主旋翼軌跡調整

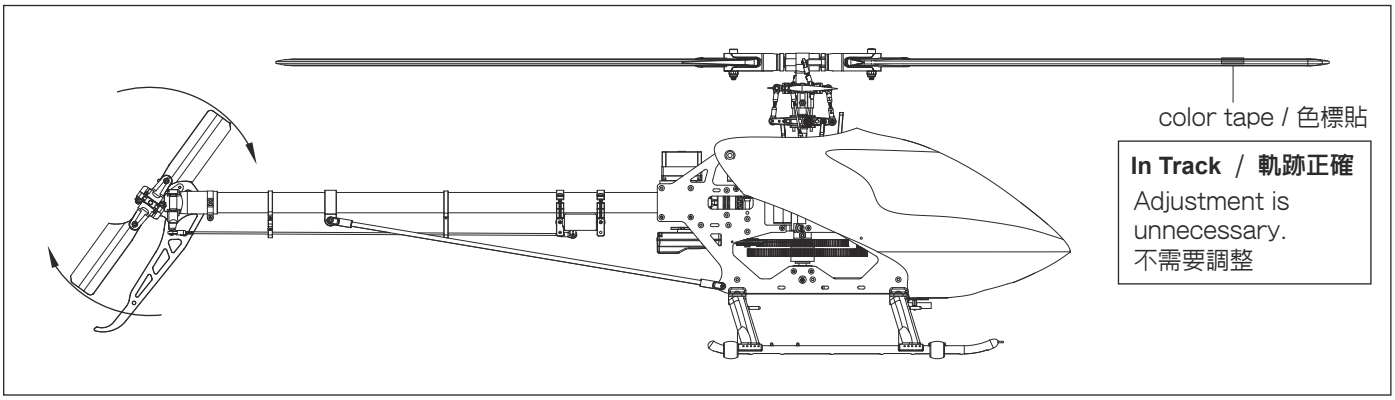
THUNDER TIGER

⚠ CAUTION / 警告

For safety, ensure to keep a safe distance from the helicopter at least 5 meter (15 feet) while making tracking adjustment.

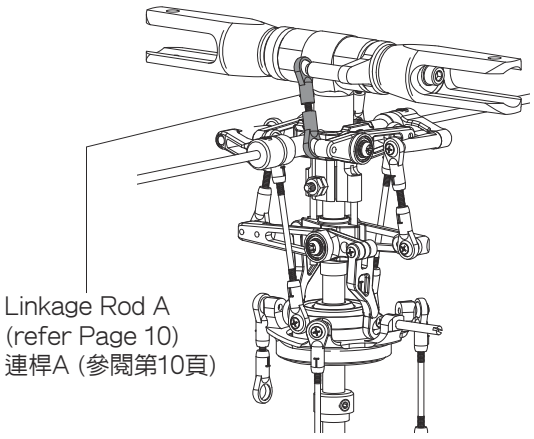
安全起見，進行主旋翼軌跡調整時，請至少與直昇機保持5米（15呎）的安全距離。





1. Use a color tape at the tip of main blades for tracking identification easily.
2. Increase the main blade speed to just before the helicopter lifts-off.
3. Observe which blade appears to be lower than the other, and increase the pitch of the lower blade one turn of the Linkage Rod A (refer Page 10) at a time until each blade runs in track. If both main blades rotate in the same path, it doesn't need to be adjusted.

1. 在主旋翼前端貼上色標可方便辨識軌跡。
2. 提高主旋翼轉速使機體稍懸浮於地面。
3. 觀察兩支旋翼軌跡是否有落差（雙槳），調整軌跡較低旋翼上的連桿A（參閱第10頁）長度，一次調整一圈，直至兩支旋翼軌跡一致。若軌跡一致則無需調整。



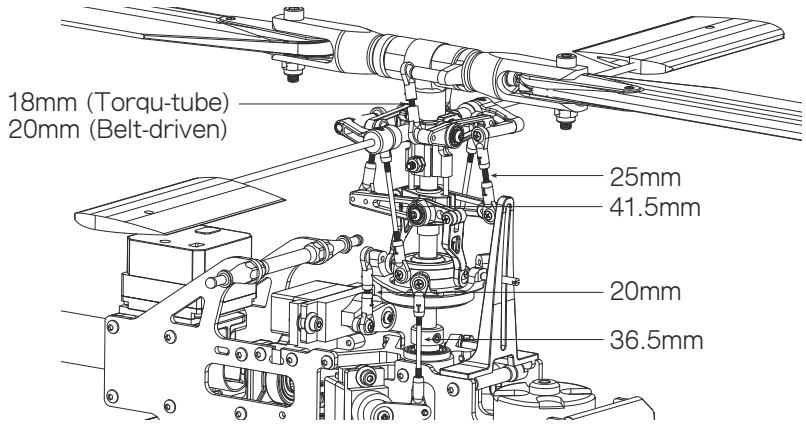
⚠ CAUTION / 警告

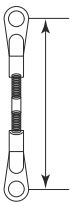
Out of track causes vibration, instability and a loss of power due to additional drag. Please adjust the tracking repeatedly until the blades are in track properly.

旋翼軌跡落差（雙槳）會造成直昇機震動、不平衡及損失動力。請務必進行調整以使旋翼軌跡精準正確。

SETTING UP OF LINKAGE / 連桿設定

The lengths of the linkage rods are recommended as the following:
連桿設定建議長度，請參照下列圖示





The length is measured by the center of the 2 ball links.
以兩端球頭中心點距離長度為連桿長度

The pushrod length above is suitable for beginner and 3D flying. You can use those lengths as the starting setting, and adjust the lengths for your flying style. The lengths of the pushrods are measured from the center of the linkage ball to the center of another.
圖示連桿長度適用於初學者與3D進階飛行。您可在初步設定時依照圖示數據，後續再依照自己的飛行風格改變設定。連桿長度以兩端球頭中心點距離長度為標準。

AFTER FLIGHT CHECKLIST / 飛行後的檢查項目

(1) Check every screw and bolt to make sure none has loosened due to vibration.
(2) Check every rotating and movable part to ensure they still move smoothly and normally.
(3) Clean off the exhaust residue from the muffler, engine, and helicopter.
(4) Check all movable parts, such as gears, ball links, belt, etc. for unusual wear.
(1) 每次飛行後必須詳細的檢查機體的各部位螺絲有無鬆動情形，若發生鬆動必須確實鎖緊再進行下飛行。
(2) 每次飛行後檢查每一個轉動部位（含單頭連接桿）均能順暢的運作。
(3) 排氣管、引擎、直昇機本體必須確實的清潔。
(4) 檢查每一個動作部位，齒輪、球頭、皮帶等是否有不正常磨損。

⚠ Warning! / 警告!

Lack of regular maintenance or apply a wrong type of grease/oil onto the parts may cause damage and model crash, which may cause series injury or death if the model hits people or property.

疏於定期保養，或塗抹不正確類型的潤滑油皆可能損壞零件造成摔機，因而導致人員受傷或財產損失。

USING OF LI-PO BATTERY / 鋰聚電池使用注意事項

The mini Titan V2 is an electric RC helicopter. It is strongly recommended to use Lithium Polymer Battery. Please refer to the following information and precaution:

1. Do use a charger that is designed for Li-Poly batteries only.
2. Do not overcharge the battery over the maximum voltage of 4.2V/per cell.
3. Do not discharge the battery below the minimum voltage of 3.0V/per cell.
4. Do not charge the battery unattended.
5. Do not charge the battery in a flammable circumstance.
6. If you want to store the battery for a long time, store them at 3.8V/per cell.

Please understand the information and precaution above and that you agree to accept the full responsibility of using the battery and any injury caused by the battery. Thunder Tiger and its duly authorized distributors assume no liability for damage that could occur by the improper using of the battery.

強烈建議使用鋰聚合物電池，作為 mini Titan V2 迷你電動直升機動力來源。請依照下列事項正確使用鋰聚合物電池，避免危險發生。

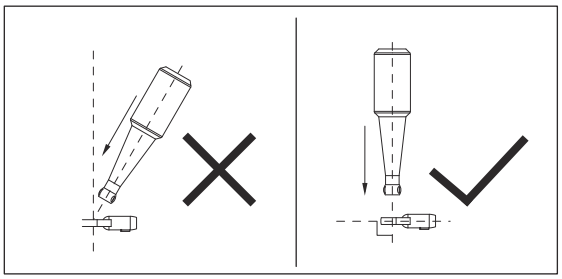
1. 使用鋰聚合物電池專用充電器。
2. 勿過度充電，單一電池最大電壓勿超過4.2V/cell。
3. 勿過度放電，單一電池最低電壓勿低於3.0V/cell。
4. 隨時監測電池充電工作，避免發生危險。
5. 勿暴露於易燃環境中，執行充電事項。
6. 長期儲存電池，請保持單一電池電壓3.8V/cell。

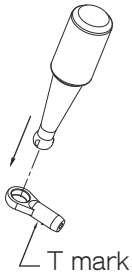
請詳細閱讀並充分了解上述注意事項。並同意對於不當使用電池所造成的意外或傷害，由玩家親負全責。雷虎科技與授權經銷商對於不當使用電池所造成的意外或傷害，不負任何法律上的責任。

Ball Link Reamer (Ø3.8mm) 球頭絞刀 Item No. / 料號：1198

Step 1 / 步驟一

1. Attach the Ball Link to the Reamer.
2. Make sure that the Ball Link is perpendicular to the reamer as shown.
1. 將絞刀與連接頭接觸。
2. 確認絞刀壓入時與連接頭平面垂直。

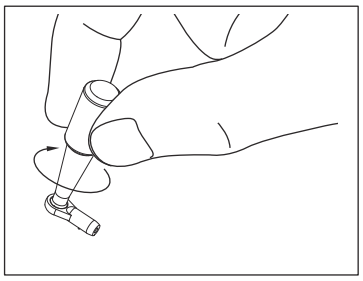


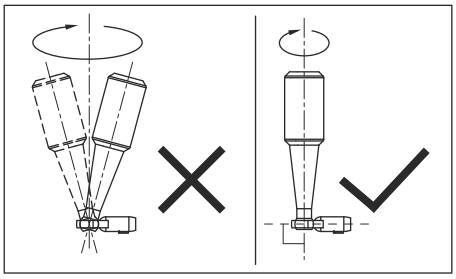


T mark on bottom
T 字符號在下方

Step 2 / 步驟二

1. Turn the Reamer clockwise to trim the inner hole of the Ball Link.
2. Turn the Reamer once at a time and do not over trim the Ball Link.
1. 小心將絞刀以順時針方向旋轉，使連接頭擴孔。
2. 每一次旋轉一圈做確認，以免孔擴太大。





One Way Bearing Releaser 單向軸承退出器 Item No. / 料號：1080

INTRODUCTION 產品簡介

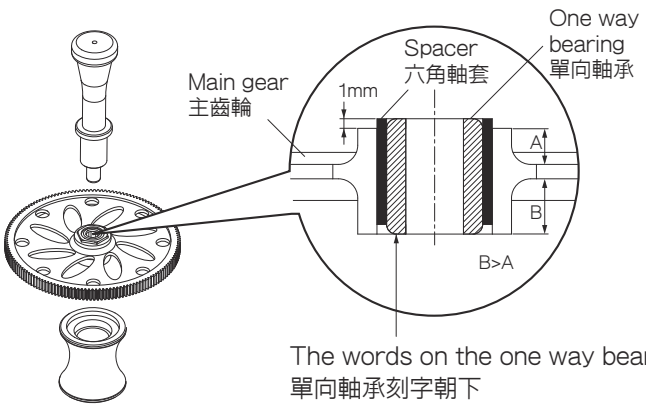
The one Way Bearing Releaser is designed for E325. You can release the one way bearing very easily from the main gear so that you can change the main gear without changing the one way. This saves the maintenance cost indeed.
專為mini Titan E325設計的單向軸承退出器。使用此特殊的治具，您可以輕易地分解與安裝mini Titan E325的主齒盤與單向軸承，且不使單向軸承因組裝不當而損壞。在維修的時候，能夠大幅節省您的花費與時間，是您不可缺的一項維修利器。



FEATURES 特點

- Suitable for mini Titan E325 series helicopter.
- Tools for releasing the one way bearing of the main gear as well as for putting it back in.
- User friendly and easy operation.
- 適合mini Titan E325全系列電動直升機
- 用於分解與安裝主齒盤單向軸承
- 操作簡單、使用容易

RELEASING 分解



The words on the one way bearing is toward bottom.
單向軸承刻字朝下

THUNDER TIGER

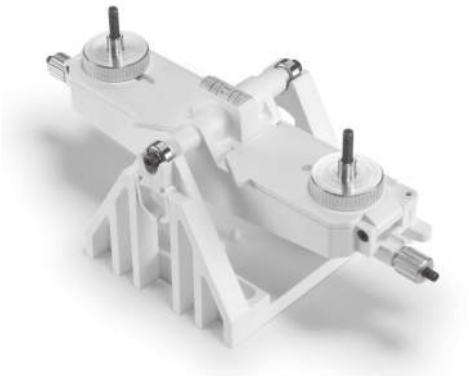
Blade Balancer 主旋翼平衡器

Item No. / 料號：1077

INTRODUCTION 產品簡介

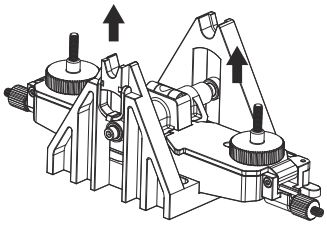
Thunder Tiger Blade Balancer is a multi-function balancer for your blades. You do the balancing job before putting the blades onto the heli so that you get rid of the vibration problem. Please reviewing the manual thoroughly that you grasp the function of the balancer.

雷虎科技主旋翼平衡器，可以進行主旋翼的動、靜平衡量測與調整。我們建議您在使用任何的主旋翼之前，都儘可能地進行主旋翼動、靜平衡調整，以免直昇機實際飛行時發生無可預期的震動。請仔細閱讀並保存此使用說明書，以徹底瞭解該平衡器的功能與使用方式。

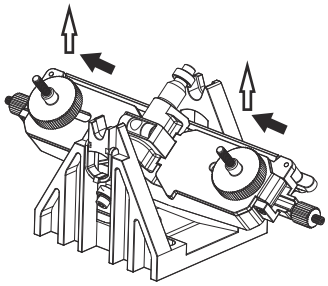


Set up 安裝

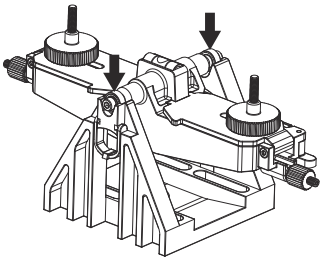
Step 1 / 步驟一

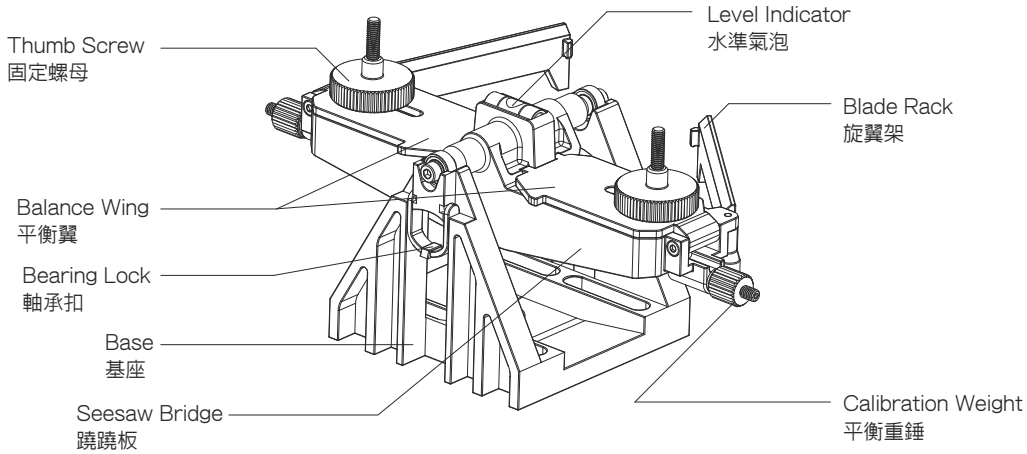


Step 2 / 步驟二



Step 3 / 步驟三





FEATURES 特點

- Multi-function blade balancer.
- The Seesaw Bridge can be unloaded and easy to store.
- Bridge with ball bearing support for accurate balance.
- Bridge with a level for easy adjustment and inspection.
- Bridge with weights for calibration.
- Suitable for static balancing.
- Suitable for dynamic balancing.
- 多功能主旋翼平衡器
- 蹺蹺板可以卸下並收藏於基座內
- 蹺蹺板支承處配有滾珠軸承以達到精準量測要求
- 附有水準氣泡方便調整與觀測
- 附有平衡重錘以作為初始率定
- 可進行動、靜平衡量測

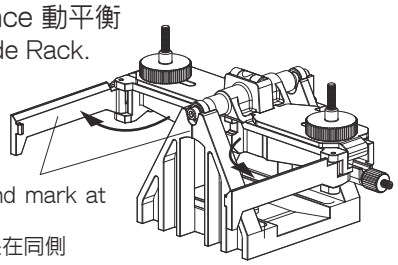
THUNDER TIGER

Blade Balancer 主旋翼平衡器 Item No. / 料號：1077

USERS GUIDE 使用說明

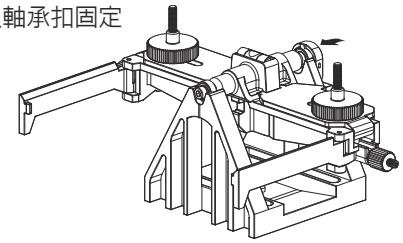
Dynamic Balance 動平衡

1. Open the Blade Rack.
打開旋翼架

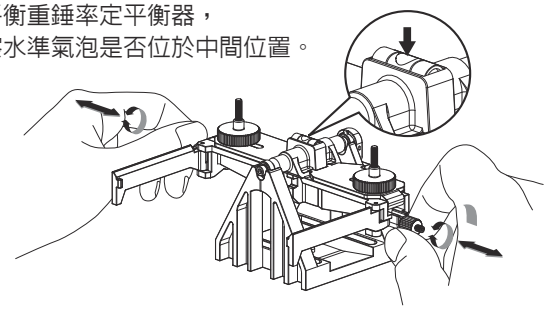


Blade Rack and mark at the same side
旋翼架與記號線在同側

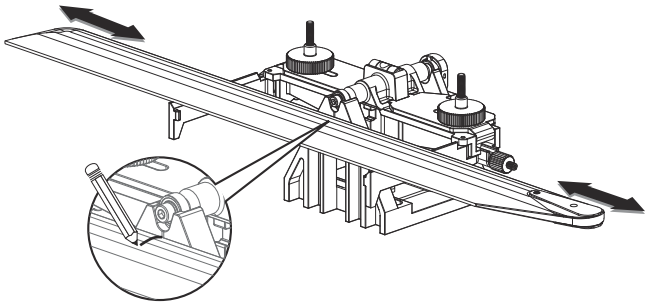
2. Attach the Seesaw Bridge with the Bearing Lock.
將蹺蹺板以軸承扣固定



3. Use the Calibration Weight to reset the bridge and make sure the bridge is leveled via inspecting the level.
使用平衡重錘率定平衡器，
並觀察水準氣泡是否位於中間位置。

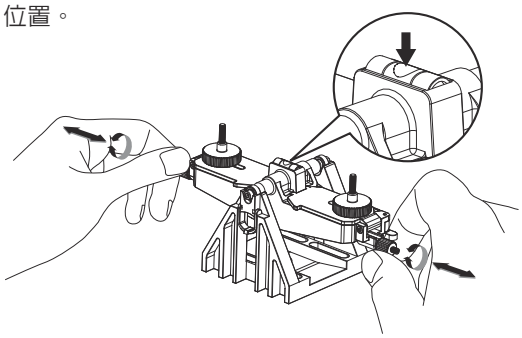


4. Place the blade on the rack then you can mark the C.G. when the bridge is leveled.
將旋翼置於旋翼架上尋找重心，並在重心位置上作記號。

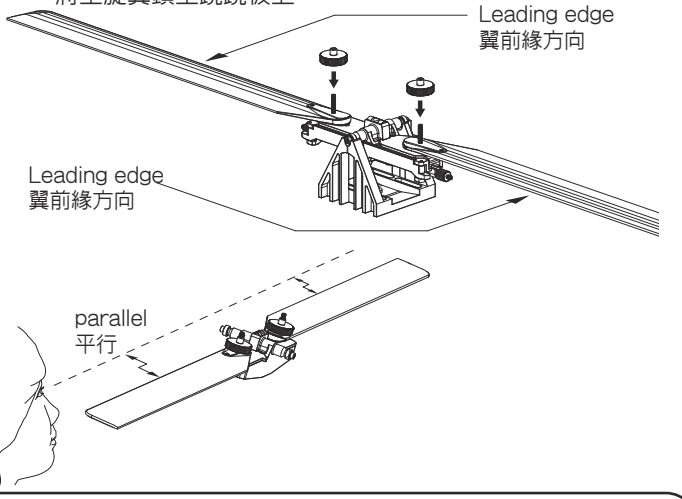


Static Balance 靜平衡

1. Use the Calibration Weight to reset the bridge and make sure the bridge is leveled via inspecting the level.
使用平衡重錘率定平衡器，並觀察水準氣泡是否位於中間位置。



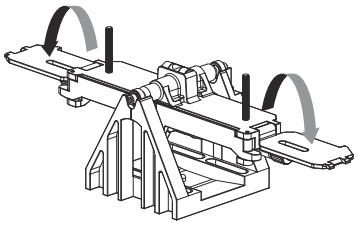
2. Put the blades on the Seesaw Bridge and secure them with the Thumb Screw.
將主旋翼鎖至蹺蹺板上。

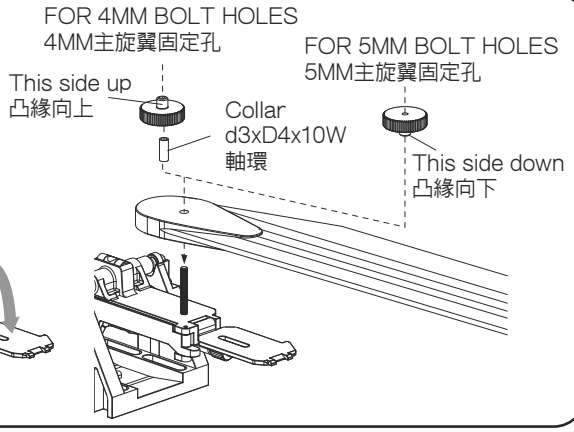


3. Pull the blades all the way straight so that you can check the weight of the blades and do the balancing.
確定兩主旋翼呈一直線以進行靜平衡調整。

NOTE / 注意事項

- For blades length above 550mm, please open the Balance Wing.
- For 4mm bolt holes, please use the collar included.
- For 5mm blot holes, please turn over the Mounting Cap.
- 量測550mm以上主旋翼，請打開平衡翼。
- 4mm的主旋翼固定孔，請使用內附的軸套。
- 5mm的主旋翼固定孔，請將固定螺母倒轉。



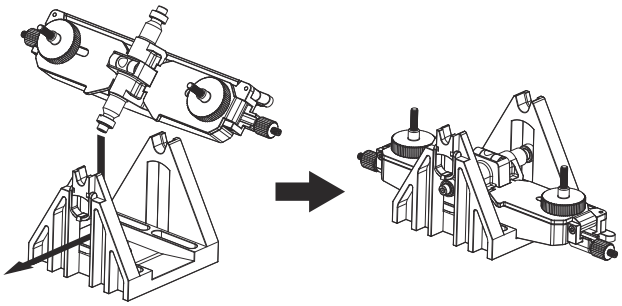


THUNDER TIGER

Blade Balancer 主旋翼平衡器 Item No. / 料號：1077

STORAGE 攜帶與收藏

The Seesaw Bridge can be put inside the base for easy storage.
蹺蹺板可以卸下並收藏於基座內



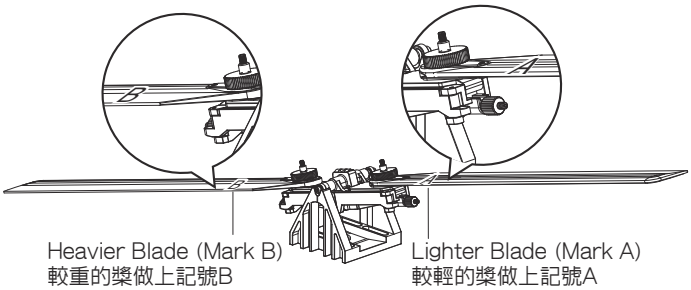
RECOMMENDED BALANCING PROCESS 平衡執行流程

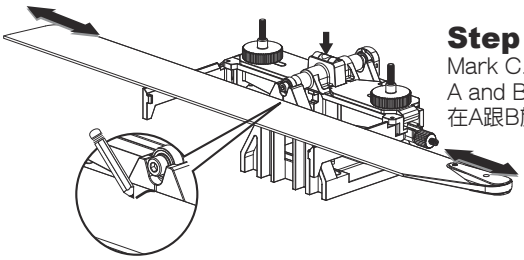
The following is the recommended balancing process to correct the position of the C.G. as well as balancing the weight of the blades.
請參考以下流程修正主旋翼重心位置，同時針對旋翼重量進行平衡。

1. Please do the “Static Balance” first and find out which blade is lighter than the other. The lighter blade is supposed to be the object to be adjusted. （Mark A）
   請執行靜平衡量測，並選取較輕的旋翼作為調整對象（做上記號A）。

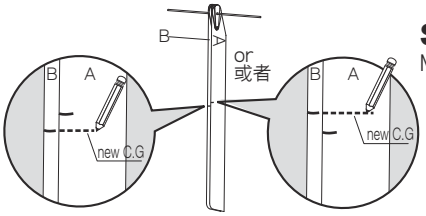
2. Proceed with the “Dynamic Balance” and check the C.G. position of both blades. Adjust the C.G. position of the lighter blade（A） as illustration. Make sure the C.G. position of the lighter blade is the same as the heavier one.
   針對較輕的旋翼（A）進行重心位置調整，目的在使兩旋翼的重心位於相同位置。

3. After adjusting the C.G., please do the “Static Balance” again. It is recommended to use the sticker on the new C.G. position of the lighter blade. Please note that the C.G. position won’t be changed after static balance.
   再度進行旋翼的靜平衡重量調整，目的在使兩旋翼的重量相同。請注意配重貼紙必須貼在新的重心位置上，避免重心位置再度改變。



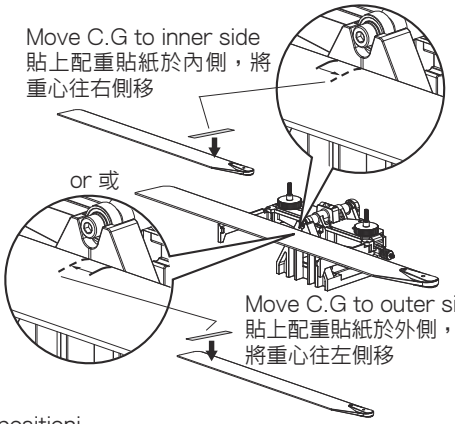


Step 1 / 步驟一
Mark C.G position of A and B blades
在A跟B旋翼上做重心的記號

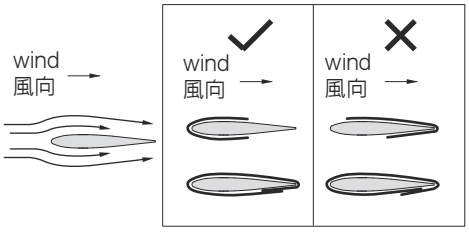


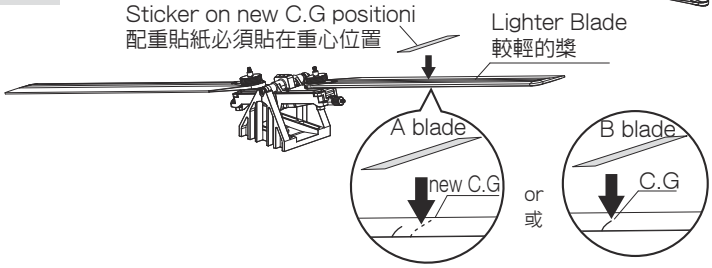
Step 2 / 步驟二
Mark new C.G position on A blade
（Same position with B blade）
在A旋翼上標示新重心記號
（與B重心相同位置）

Step 3 / 步驟三
Change C.G to new postion by sticker
使用配重貼紙將旋翼重心移至新位置
（與B重心相同位置）



NOTE / 注意事項
Please note how to use the sticker to balance the blade. It may be easily lifted off if you don’t tape it correctly as illustrated.
請注意配重貼紙的使用方式，若配重貼紙的貼法錯誤，將很容易在飛行中被撕離旋翼表面。





THUNDER TIGER

Training Gear 直昇機練習架 Item No. / 料號：1079

INTRODUCTION 產品簡介

For novice consideration, the Thunder Tiger Training Gear is the best learning partner. It protects the heli from the possibilities of turning over, and makes the heli survive from certain mistakes.
雷虎科技的直昇機練習架，適用於全系列電動直昇機。在練習飛行的過程中，它能有效地防止直昇機轉倒，並將直昇機重落地時可能產生的損傷減至最低，是初學者最好的學習輔助工具。

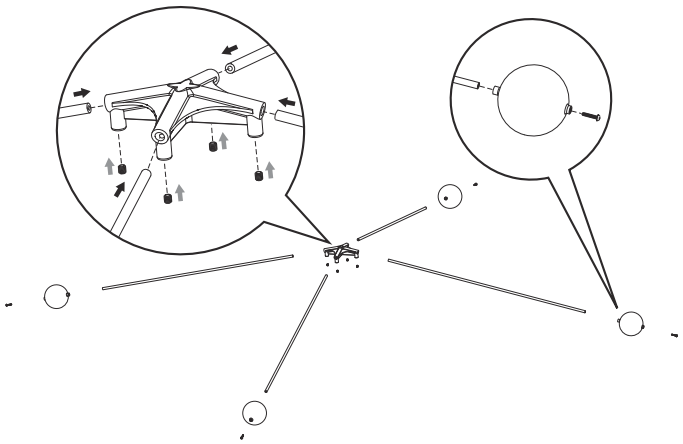


FEATURES 特點

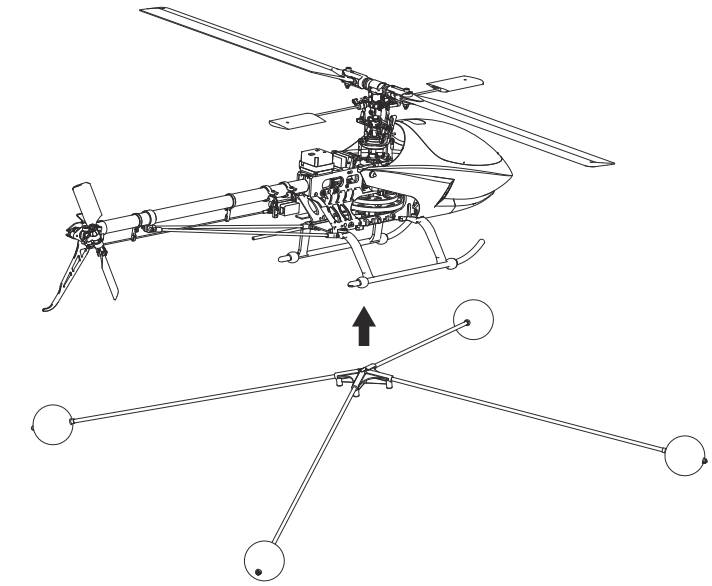
- Protect the helicopter from turning over.
- Easy installation.
- 防止直昇機轉倒、重落地
- 組裝簡單、易於攜帶收藏

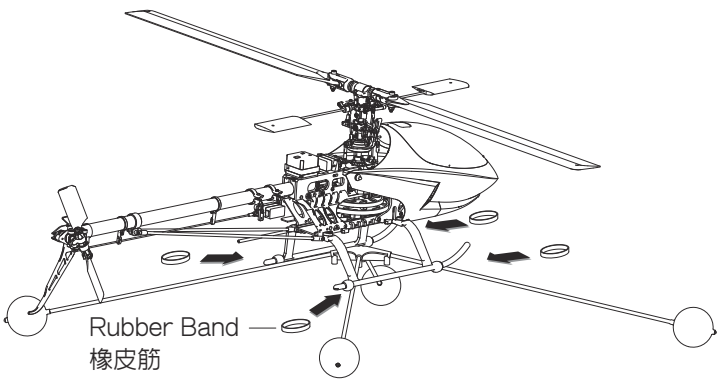
ASSEMBLY 組裝

1. Assemble the Training Gear.
   依圖示組裝練習架。

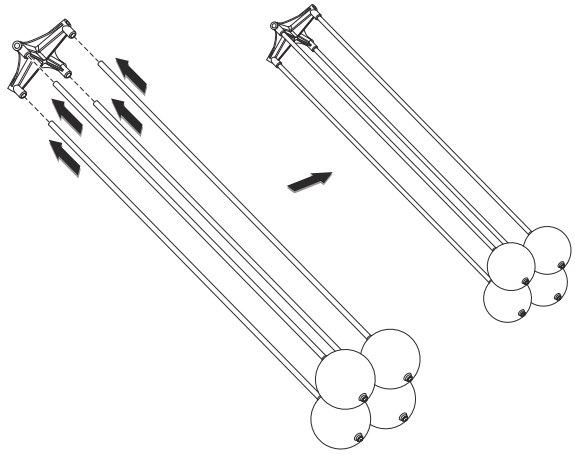


2. Attach the Training Gear to the heli’ s skid with rubber band.
   使用零件包內所附之橡皮筋將練習架固定至直升機腳架之下。





STORAGE 攜帶與收藏



ACE RC T3AC Balance Charger for Li-Po Battery
T3AC平衡功能鋰電池專用充電器

Item No. / 料號：2536



The ACE RC T3AC BALANCE CHARGER is specifically-designed for charging 2-cell and 3-cell Li-Po battery packs. The compact-size charger features built-in switch adaptor for input power source and individual cell balancing function for safe charging.

ACE RC T3AC是2至3片式鋰電池專用充電器，具備高安全性之分壓充電及平衡功能，並內建變壓轉換，迷您體積中的強大的功能絕非其他市售充電產品可比擬！

Specification 基本規格:

規格摘要	規格
Power supply voltage 母電源電壓	110-240V AC
Cell count range 適用電池片數	2-3cells
Max. charge current 最大充電電流	3×650mA
Dimension approx 尺寸	100×60×35mm
Weight approx 重量	180g



Connect to 2-Cell Li-Po Battery
連接 2-Cell 鋰電池(7.4V)

Connect to 3-Cell Li-Po Battery
連接 3-Cell 鋰電池(11.1V)

Charger LED Status 充電器LED狀態說明:

Operational mode display 使用狀態顯示方式	via 3 LEDs
Power on 開啟電源時	Orange (1 second) / 橘燈（停留1秒）
Stand By 待機狀態	Green / 綠燈
Charging 充電中	Red / 紅燈
Full 完成充電	Green / 綠燈
Fault 失敗	Flashing / 快閃燈號

* Re-Plug the AC Plug and Battery if faults.
顯示失敗燈號時，請重新安插AC電源插頭及電池。

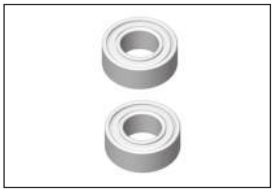
Caution 注意事項：

1. ONLY for 2-cell & 3-cell Li-Po battery.
2. Proceed with charging in a safe environment.
3. DO NOT charge while the battery is still warm.
4. DO NOT charge an expanded or damaged battery.
5. Keep the charger away from humidity.

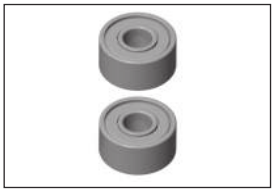
1. 限用於2或3片式鋰電池組。
2. 請於安全環境中進行充電。
3. 電池仍處於發熱狀態時，請勿充電。
4. 電池發生膨脹或受損，請勿充電。
5. 請勿於潮溼環境中使用。

SPARE PARTS / 零件包

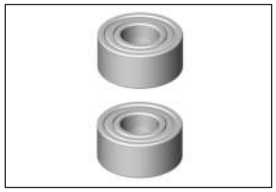
THUNDER TIGER



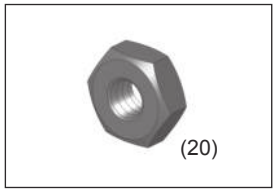
PV0048
BALL BEARING, d4xD8xW3(2)
軸承組, d4xD8xW3(2)



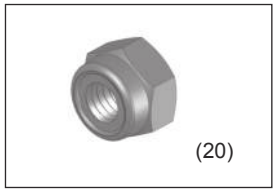
PV0049
BALL BEARING, d3xD8xW4(2)
軸承組, d3xD8xW4(2)



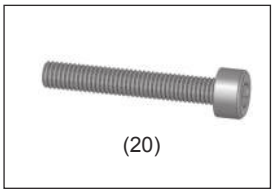
PV0059
BALL BEARING, d5xD11xW5(2)
軸承組, d5xD11xW5(2)



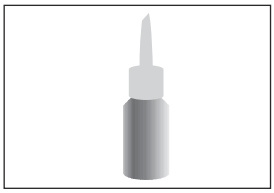
PV0234
NUT(20), M2
六角螺帽(20),M2



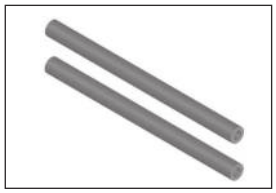
PV0236
LOCK NUT(20), M3
止鬆螺帽(20), M3



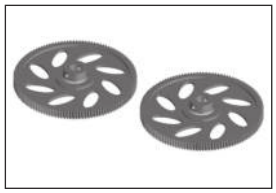
PV0257
SOCKET SCREW(20), M3x20
內六角螺絲, M3x20



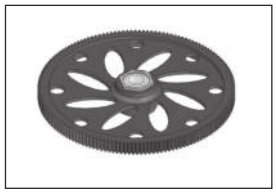
PV0268
LOCTITE, #262
高強度防鬆膠(紅色), #262



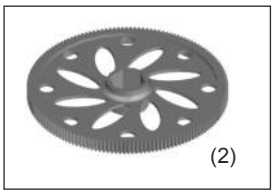
PV0707
FEATHERING SHAFT(2)
主旋翼固定軸(2)



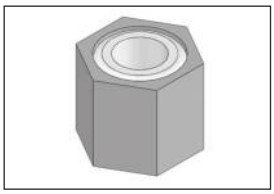
PV0722
AUTOROTATION TAIL DRIVE GEAR
尾驅動輪(124T)



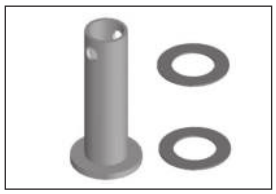
PV0723
MAIN GEAR (W/BEARING)
主齒輪(含軸承)



PV0724
MAIN GEAR ONLY 150T(2)
主齒輪 150T(2)



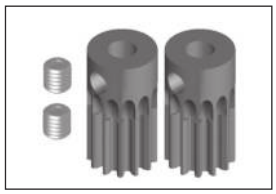
PV0725
MAIN GEAR HEX DRIVE HUB
主齒輪六角驅動套



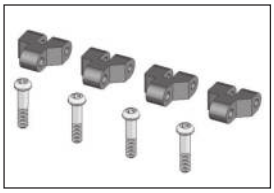
PV0726
ONE WAY SHAFT
單向軸套組



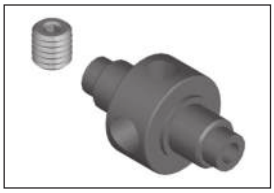
PV0727
MAIN SHAFT LOCK RING(2)
止擋圈(2)



PV0729
PINION 13T
驅動齒輪 13T



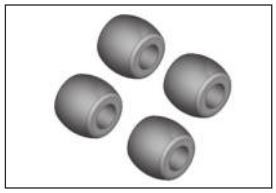
PV0739
TAIL PITCH CONTROL LINK
尾旋翼連接頭



PV0741
TAIL ROTOR HUB
尾旋翼固定座



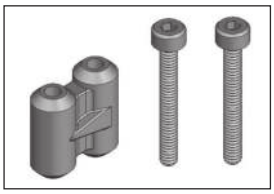
PV0742
TAIL ROTOR
尾旋翼組



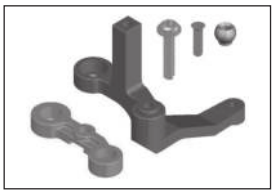
PV0746
SKID DAMPER
腳架墊圈



PV0747
TAIL SERVO TRAY
尾伺服機座



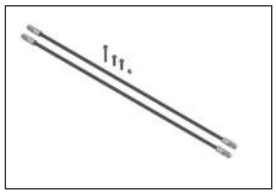
PV0748
DOUBLE JOINT LEVER
雙關連接桿



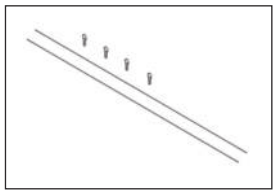
PV0749
TAIL PITCH CONTROL LEVER SET
尾旋翼控制桿



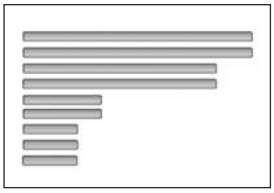
PV0751
TAIL SUPPORT BRACKET
尾支撐桿座



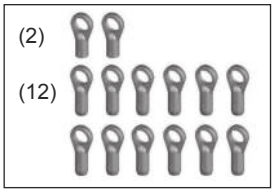
PV0752
TAIL SUPPORT
尾支撐桿組



PV0753
TAIL LINKAGE ROD
尾拉桿組



PV0754
LINKAGE ROD SET
連接桿組



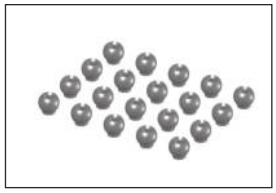
PV0755
BALL LINK, ⌀3.8
單頭連接桿, ⌀3.8



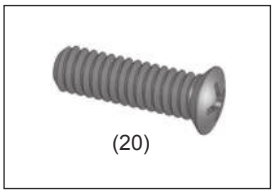
PV0759
BLADE HOLDER
小型主旋翼固定架



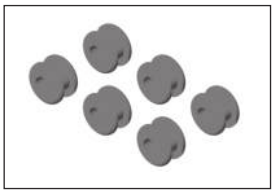
PV0762
TAIL ROD GUIDE
固定環



PV0763
LINKAGE BALL ⌀3.8(20)
連接頭 ⌀3.8(20)



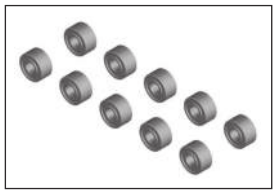
PV0764
COUNTER SCREW, M1.6x6(20)
圓頭十字螺絲, M1.6x6(20)



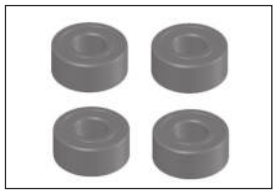
PV0765
CANOPY MOUNT RUBBER
機頭罩固定墊圈



PV0769
THRUST BEARING(2), d4xD9x4
止推軸承組, d4xD9xW4



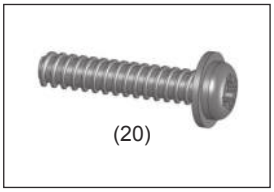
PV0770
BEARING(10), d2xD5x2.5t
滾珠軸承, d2xD5xW2.5



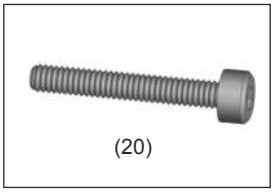
PV0771
BEARING(4), d4xD9x4t
滾珠軸承, d4xD9xW4

SPARE PARTS / 零件包

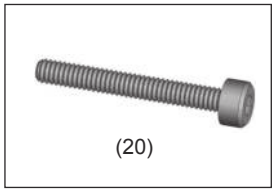
THUNDER TIGER



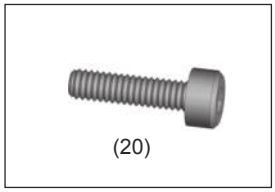
PV0773
TAPPING SCREW (W/WASHER), M2x10
圓頭墊圈自攻螺絲, M2x9



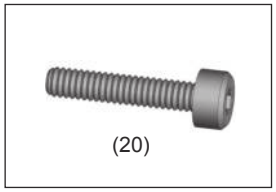
PV0775
SOCKET SCREW(20), M2x14
內六角螺絲, M2x14



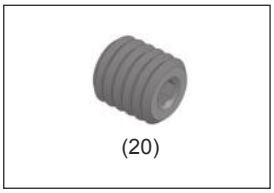
PV0776
SOCKET SCREW(20), M2x16
內六角螺絲, M2x16



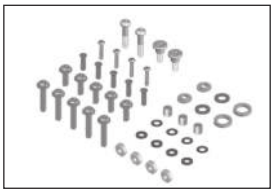
PV0777
SOCKET SCREW(20), M2x8
內六角螺絲, M2x8



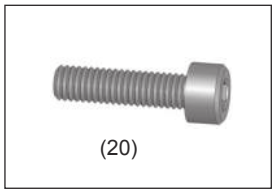
PV0778
SET SCREW(20),M2x10
內六角螺絲, M2x10



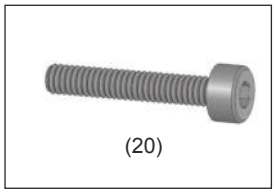
PV0780
SET SCREW(20),M3x3
無頭內六角螺絲, M3x3



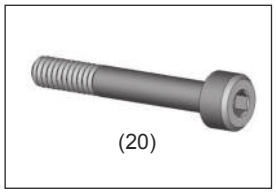
PV0781
SCREW BAG
螺絲包



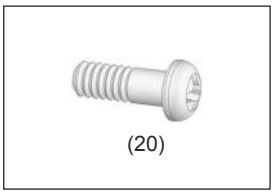
PV0783
SOCKET SCREW(20),M2.6x8
內六角螺絲, M2.6x8



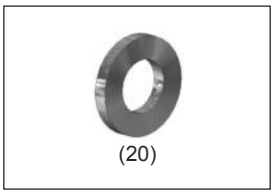
PV0784
SOCKET SCREW(20), M2x12
內六角螺絲, M2x12



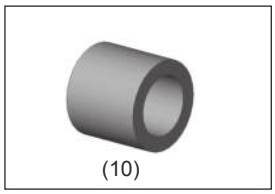
PV0785
SOCKET SCREW(20), M2x14
半牙內六角螺絲, M2x14



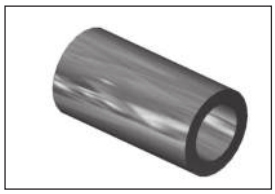
PV0786
SHOULDERED SCREW(20), M2x6
圓頭軸套螺絲(20), M2X6



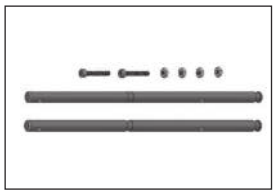
PV0787
FLAT WASHER(20), d2xD3.7x0.5t
墊片(20), d2xD3.7x0.5t



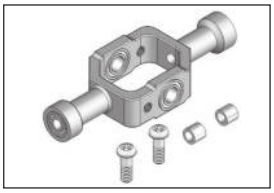
PV0788
COLLAR(10), d2xD3x2.5t
軸環(10), d2xD3x2.5t



PV0789
COLLAR(10), d2xD3x5.6t
軸環(10), d2xD3x5.6t



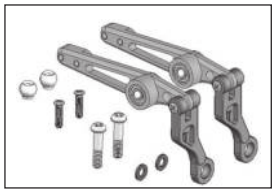
PV0802
HARDENED MAIN SHAFT
高強度主軸



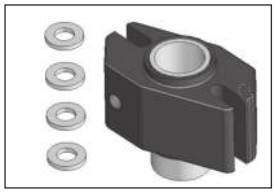
PV0804
METAL SEESAW HUB
金屬穩定桿固定座



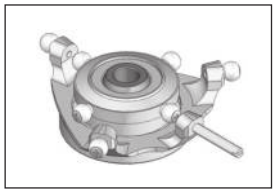
PV0805
METAL MIXING LEVER
金屬控制搖臂



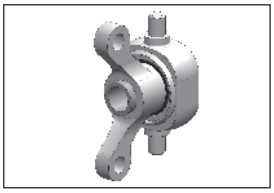
PV0807
METAL FLYBAR COLLECTIVE LEVER
金屬穩定翼控制臂



PV0808
METAL WASHOUT BASE
金屬控制臂座



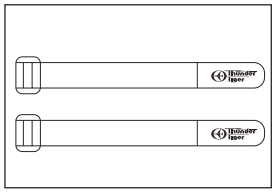
PV0809
METAL SWASHPLATE
金屬十字盤組



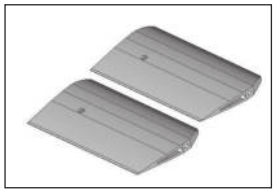
PV0820
METAL TAIL PITCH CONTROL SET
金屬尾旋翼控制組



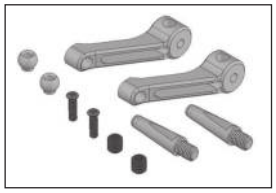
PV0829
ROTOR SPACER
(FOR 5mm BLADE ROOT)
主旋翼墊片



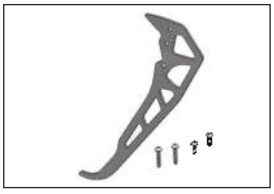
PV0835
VELCRO
電池固定束帶



PV0837
3D FLYBAR PADDLE
3D穩定翼



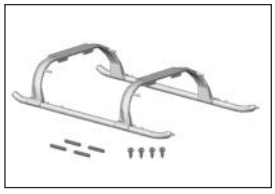
PV0838
METAL FLYBAR CONTROL ARM
金屬穩定翼轉臂



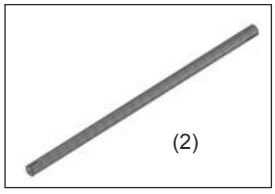
PV0842
3D CARBON TAIL FIN
3D碳纖維垂直安定面



PV0844
SUS FLYBAR ROD
不鏽鋼穩定桿



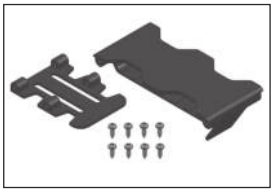
PV0903
LANDING SKID(BLACK)
腳架（黑色）



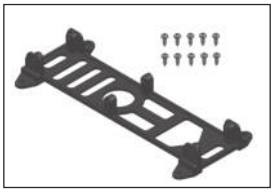
PV1156
TAIL BOOM,356mmx⌀14mm
尾管,356mmx⌀14mm



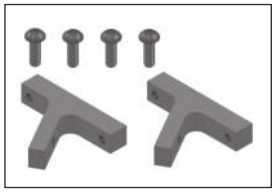
PV1224
PHASING CONTROL & BRACKET SET
導軌夾扣零件組



PV1225
BATTERY & RECEIVER TRAY SET
電裝固定座零件組



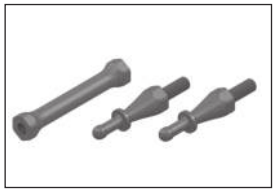
PV1226
BASE PLATE
機身底板



PV1227
METAL FRONT SERVO TRAY SET
金屬前伺服機座組



PV1229
METAL LOWER BEARING BLOCK
金屬下軸承座



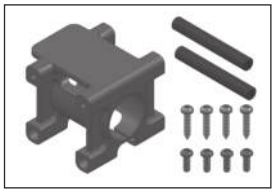
PV1231
CANOPY POST
機殼支柱

SPARE PARTS / 零件包

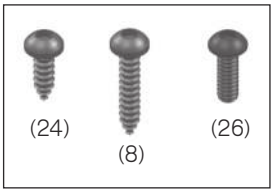
THUNDER TIGER



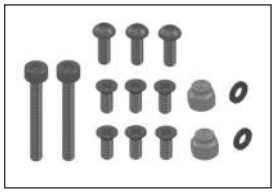
PV1232
FRAME SPACER
機身支柱



PV1234
TAIL BOOM BRACKET
尾管固定座



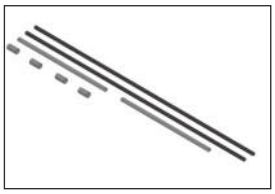
PV1235
BUTTON HEAD SOCKET SCREW SET
M2半圓頭螺絲組



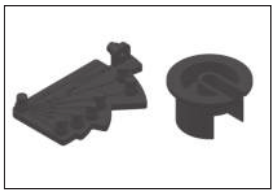
PV1239
SCREW PACK FOR TAIL UNIT
尾座螺絲組



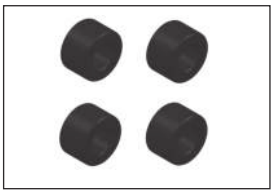
PV1240
MOTOR MOUNT
馬達座



PV1241
ANTENNA TUBE SET
天線管組



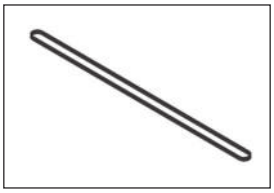
PV1245
LINKAGE METER & LEVEL TOOL SET
量測工具



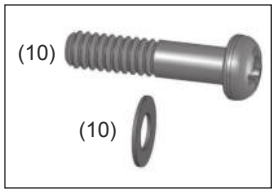
PV1246
DAMPER（65°）
避震墊圈（65°）

EXCLUSIVE SPARE PARTS BELT-DRIVEN / 皮帶版專用零件包

THUNDER TIGER



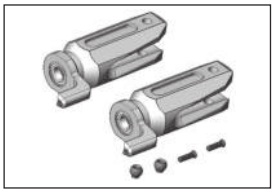
PV0735
TAIL DRIVE BELT, MXL413T
時規皮帶, MXL413T



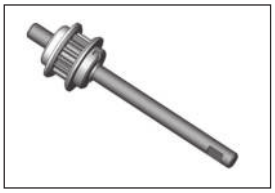
PV0774
SHOULDERED SCREW, M2x9
圓頭十字軸套螺絲, M2x9



PV0801
METAL M. ROTOR HUB
金屬旋翼固定座組



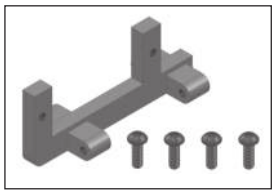
PV0803
METAL ROTOR GRIP
金屬旋翼轉座



PV0814
METAL PULLEY
金屬尾旋翼軸組



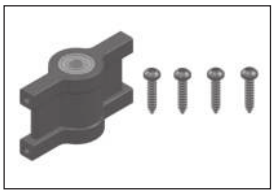
PV0823
M. TAIL P. HOUSING
金屬尾旋翼轉座



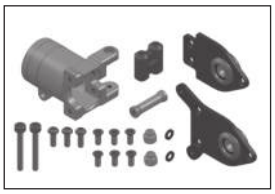
PV1228
REAR SERVO TRAY
後伺服機座



PV1230
UPPER BEARING BLOCK
上軸承座



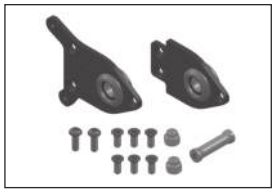
PV1233
TAIL BEARING FLANGE
尾傳動齒軸承座



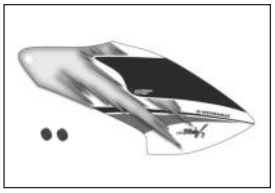
PV1236
METAL TAIL UNIT SET
金屬尾座組



PV1237
METAL TAIL UNIT
金屬尾座



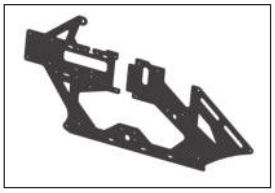
PV1238
METAL TAIL SIDE COVER SET
金屬尾座側蓋組



PV1244-Y
FRP CANOPY(YELLOW)
玻纖機殼(黃色)



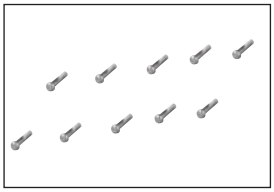
PV1247
METAL PULLEY SET
金屬皮帶輪組



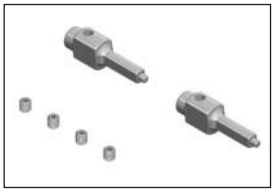
PV1267
CARBON MAIN FRAME
碳纖側板

EXCLUSIVE SPARE PARTS-TORQUE-TUBE / 軸傳板專用零件包

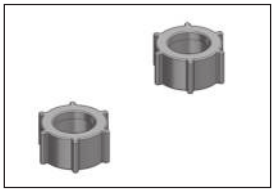
THUNDER TIGER



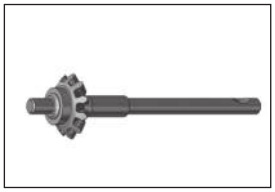
PV1081
TAIL ROTOR GRIP SCREW
尾旋翼夾片螺絲組



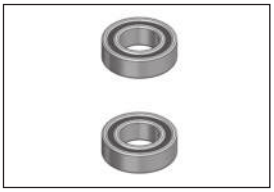
PV1154
TORQUE TUBE END
傳動軸接頭



PV1157
SHAFT DAMPER d8xD11x6
軸傳避震墊圈 d8xD11x6



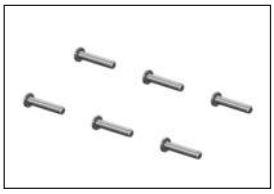
PV1159
TAIL ROTOR SHAFT SET
金屬尾旋翼橫軸組



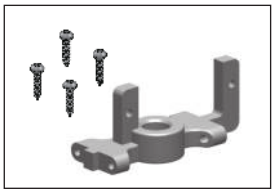
PV1160
BEARING d7xD13xW4
滾珠軸承 d7xD13xW4



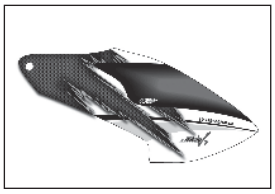
PV1161
BEARING d6xD10xW3
滾珠軸承 d6xD10xW3



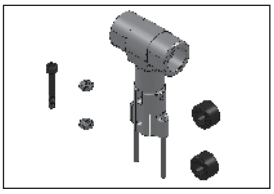
PV1164
T PIN d2x12
T型銷 d2x12



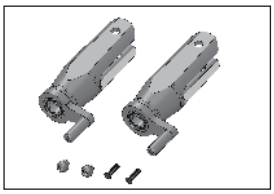
PV1228-1
METAL REAR SERVO TRAY
金屬後伺服機座



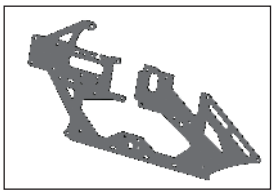
PV1244-C
FRP CANOPY(CORBON)
玻纖機殼(碳纖)



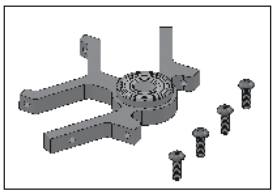
PV1269
METAL MAIN ROTOR HUB
金屬旋翼固定座組



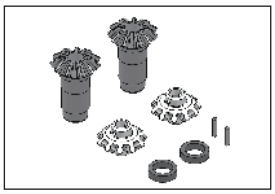
PV1270
METAL MAIN ROTOR GRIP SET
金屬主旋翼轉座組



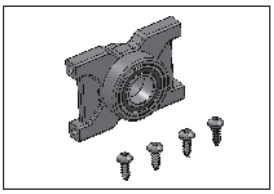
PV1271
CARBON MAIN FRAME
碳纖側板



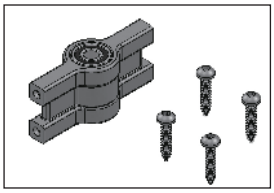
PV1272
METAL UPPER BEARING BLOCK
金屬上軸承座



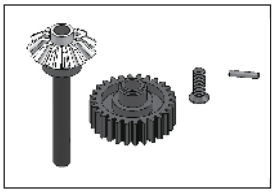
PV1273
BEVEL GEAR SET
傘齒輪組



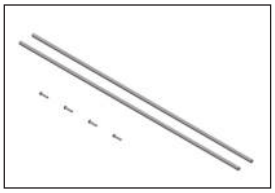
PV1274
FRONT BEVER GEAR MOUNT SET
前傘齒輪座組



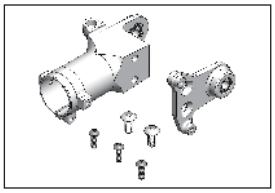
PV1275
TAIL BEARING FLANGE
尾傳動齒軸承座



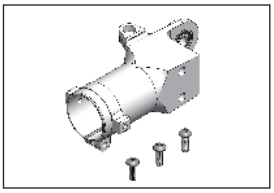
PV1276
FRONT TAIL DRIVE GEAR SET
前尾驅動齒輪組



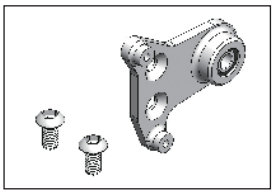
PV1277
DRIVE SHAFT SET
驅動軸組



PV1278
METAL TAIL CASE SET
金屬尾座組(含側蓋)



PV1279
METAL TAIL CASE
金屬尾座



PV1280
METAL TAIL SIDE COVER
金屬尾座側蓋組



PV1281
METAL TAIL ROTOR GRIP SET
金屬尾旋翼轉座組

SPARE PARTS LIST / 零件包表格

THUNDER TIGER

No.	Description	中文名稱	Part No.	Description	中文名稱	Qty	Index Page
PV0048	Ball Bearing Set	軸承組	HMV840ZZY	Ball Bearing, d4xd8xw3	滾珠軸承 d4xD8xW3	2	8,14
PV0049	Ball Bearing Set	軸承組	HMV830ZZY	Ball Bearing, d3xd8xw4	滾珠軸承 d3xD8xW4	2	11
PV0059	Ball Bearing Set	軸承組	HMV1150ZZSY	Ball Bearing, d5xd11xw5	滾珠軸承 d5xD11xW5	2	11
PV0234	Nut Set	六角螺帽組	HML2	Nut, M2	六角螺帽 M2	20	9,13,19
PV0236	Lock Nut Set	止鬆螺帽組	HMM3Z	Lock Nut, M3	止鬆螺帽 M3	20	23
PV0257	Socket Screw Set	內六角螺絲組	HMC-20B	Socket Screw, M3x20	內六角螺絲 M3x20	20	23
PV0268	Loctite #262	螺絲防鬆劑(紅),#262	BV0450	Threadlocking(Red),3g	螺絲防鬆劑(紅),3g	1	-
PV0707	Feathering Shaft	固定軸	BK0906	Feathering Shaft	固定軸	2	8
PV0722	Autorotation Tail Drive Gear	尾驅動輪,124T	BK0933	Autorotation Tail Drive Gear, 124T	尾驅動輪 124T	2	13
PV0723	Main Gear (W/bearing)	主齒輪(含軸承)	BV0934	Main Gear (W/bearing)	主齒輪(含軸承)	1	13
PV0724	Main Gear Only	主齒輪	BK0934	Main Gear	主齒輪	1	13
PV0725	Metal Gear Hex Drive Hub	主齒輪六角驅動套	BV0935	Hex Drive Hub Set	主齒輪六角內管組	1	13
PV0726	One Way Shaft Set	單向軸套組	BK0930	One Way Shaft	單向軸套組	1	13
			BK0931	One Way Shaft Washer	單向軸套墊圈	2	13
PV0727	Metal Shaft Lock Ring Set	止擋環組	BK1020	Metal Shaft Lock Ring	止擋環	2	9,13
			HME3-3B	Set Screw, M3x3	無頭內六角螺絲 M3x3	2	9,13
PV0729	Pinion Set	驅動齒輪組	BK1009	Drive Gear, 13T	驅動齒輪 13T	2	20
			HME3-3B	Set Screw, M3x3	無頭內六角螺絲 M3x3	2	20
PV0739	Tail Pitch Control Link	尾旋翼連接頭	BK1425	Tail Pitch Link	尾旋翼連接頭	4	15
			HNU2-9Z	Shouldered Screw, M2x9	圓頭十字軸套螺絲 M2x9	4	15
PV0741	Tail Rotor Hub Set	尾旋翼固定座組	BK0972	Tail Rotor Hub	尾旋翼固定座	1	15
			HME3-3B	Set Screw, M3x3	無頭內六角螺絲 M3x3	1	15
PV0742	Tail Rotor Set	尾旋翼組	BK0961	Tail Rotor Blade	尾旋翼	2	15
PV0746	Skid Damper Set	腳架墊圈組	BK1038	Skid Damper	腳架墊圈	4	15
PV0747	Tail Servo Tray Set	尾伺服機座組	BK0923	Tail Servo Tray	尾伺服機座	2	17,18
			HNN2-10B	Tapping Screw W/washer	墊圈自攻螺絲	2	17,18
PV0748	Double Joint Lever Set	雙關結連桿組	BK1091	Double Joint Lever	雙關結連桿	1	15
			HMC2-16B	Socket Screw, M2x16	內六角螺絲 M2x16	2	15
PV0749	Tail Pitch Control Lever Set	尾旋翼控制桿	BV0990	Metal Pitch Control Lever-1	尾旋翼控制桿-1	1	15
			BV0991	Metal Pitch Control Lever-2	尾旋翼控制桿-2	1	15
			BK1203	Link Ball, φ3.8	連接頭φ3.8	1	15
			HNN2-10B	Tapping Screw W/Washer, M2x10	墊圈自攻螺絲 M2x10	1	15
			HSP16-6N	Counter Screw, M1.6x6	圓頭十字螺絲 M1.6x6	1	15
PV0751	Tail Support Bracket Set	尾支撐桿座組	BK1026	Tail Support Bracket	尾支撐桿座	1	19
			HMC2-16B	Socket Screw, M2x16	內六角螺絲 M2x16	1	19
PV0752	Tail Support Rod Set	尾支撐桿組	BK1025	Tail Support Rod End	尾支撐桿接頭	2	19
			BK1027	Rod, Φ3x255mm	碳纖棒 φ3x255mm	2	19
			HMC2-16B	Socket Screw, M2x16	內六角螺絲 M2x16	1	19
			HNN2-10B	Tapping Screw W/washer	墊圈自攻螺絲	2	19
PV0753	Tail Linkage Rod Set	尾拉桿組	BK0922	Ball Link, D3.8x1.3mm	單頭連接桿 D3.8x1.3mm	4	19
			BK1071	Tail Linkage Rod, Φ1.3	尾拉桿 φ1.3	2	19
PV0754	Linkage Rod Set	連接桿組	BK0163	Linkage Rod, D1.3x7mm	連接桿 D1.3x7mm	3	10
			BK1064	Linkage Rod, D1.3x10mm	連接桿 D1.3x10mm	2	10
			BK1065	Linkage Rod, D1.3x29mm	連接桿 D1.3x29mm	2	10
			BK1066	Linkage Rod, D1.3x24.5mm	連接桿 D1.3x24.5mm	2	10
PV0755	Ball Link Set	單頭連接桿組	BK0922	Ball Link, D3.8x12mm	單頭連接桿 D3.8x12mm	12	10
			BK0932	Ball Link, D3.8x10mm	單頭連接桿 D3.8x10mm	2	10
PV0759	Blade Holder	小型主旋翼固定架	BK1043	Blade Holder	小型主旋翼固定架	1	*
PV0762	Tail Rod Guide Set	固定環組	BK1082	Rod Guide	固定環	2	17,18
			HMJ12-6B	Tapping Screw, M1.2x6	自攻螺絲, M1.2x6	2	17,18
PV0763	Link Ball Set	連接頭組	BK1203	Link Ball, φ3.8	連接頭, φ3.8	20	6,7,8,9,15,19
PV0764	Counter Screw Set	圓頭十字螺絲組	HSP16-6N	Counter Screw, M1.6x6	圓頭十字螺絲, M1.6x6	20	6,7,8,9,15,19
PV0765	Canopy Mount Rubber	機頭罩固定墊圈	BK1002	Silicon Grommer	固定墊圈	6	23
PV0769	Thrust Bearing Set	止推軸承組	HMX0409Y	Thrust Bearing, D4xd9xw4	止推軸承, d4xD9xW4	2	8

SPARE PARTS LIST / 零件包表格

THUNDER TIGER

No.	Description	中文名稱	Part No.	Description	中文名稱	Qty	Index Page
PV0770	Ball Bearing Set	軸承組	HMV520ZZWY	Ball Bearing, d2xd5xw2.5	滾珠軸承, d2xD5xW2.5	10	15
PV0771	Bearing	滾珠軸承組	HMV940ZZY	Bearing, d4xD9xW4	滾珠軸承, d4xD9xW4	4	9
PV0773	Tapping Screw	圓頭墊圈自攻螺絲組	HNN2-10B	Tapping Screw, M2x10	墊圈自攻螺絲	20	17,18,19
PV0775	Socket Screw Set	內六角螺絲組	HMC2-14B	Socket Screw, M2x14	內六角螺絲, M2x14	20	13,19
PV0776	Socket Screw Set	內六角螺絲組	HMC2-16B	Socket Screw, M2x16	內六角螺絲, M2x16	20	15
PV0777	Socket Screw Set	內六角螺絲組	HMC2-8B	Socket Screw, M2x8	內六角螺絲, M2x8	20	15,21
PV0778	Socket Screw	內六角螺絲組	HMC2-10B	Socket Screw, M2x10	內六角螺絲, M2x10	20	19
PV0780	Set Screw Set	無頭內六角螺絲組	HME3-3B	Set Screw, M3x3	無頭內六角螺絲, M3x3	20	7,9,12,13,16,20
PV0781	Screw Pack	螺絲包	BK0919	Washer, d2xD3.8X0.5t	墊片, d2xD3.8X0.5t	4	-
			BK0920	Washer, d2xD3.8X0.2t	墊片, d2xD3.8X0.2t	4	-
			BK1079	Collar, d4xD7	軸環, d4xD7	2	-
			BK1080	Washer	墊圈	2	-
			HME3-3B	Set Screw, M3x3	無頭內六角螺絲, M3x3	3	7,9,12,13,16,20
			HMJ12-6B	Tapping Screw, M1.2x6	自攻螺絲, M1.2x6	4	17,18
			HML2	Nut, M2	六角螺帽, M2	4	9,19
			HMO26	Washer	墊片	2	8
			HNN2-10B	Tapping Screw w/Washer	墊圈自攻螺絲	5	17,18
			HNN2-6B	Tapping Screw w/Washer	墊圈自攻螺絲	5	-
			HNU2-9Z	Shouldered Screw, M2x9	圓頭十字軸套螺絲, M2x9	2	6,9,15,16
			HNV2-6Z	Flat Shouldered Screw, M2x9	扁頭十字軸套螺絲, M2x9	2	-
			HSP16-6N	Counter Screw, M1.6x6	圓頭十字螺絲, M1.6x6	5	6,7,8,9,15,19
PV0783	Socket Screw	內六角螺絲組	HMC26-8B	Socket Screw, M2.6X8	內六角螺絲,M2.6x8	20	8
PV0784	Socket Screw	內六角螺絲組	HMC2-12B	Socket Screw, M2X12	內六角螺絲,M2x12	20	15
PV0785	Socket Screw Set	半牙內六角螺絲組	BK1086	Socket Screw(S), M2x14	半牙內六角螺絲, M2x14	20	9
PV0786	Shouldered Screw Set	圓頭軸套螺絲組	HNU2-6Z	Shouldered Screw, M2x6	圓頭十字軸套螺絲, M2x6	20	6
PV0787	Washer Pack	墊片包	BK1481	Washer, d2xD3.7X0.5t	墊片, d2xD3.7X0.5t	20	6,9
PV0788	Collar Pack	軸環包	BK1456	Collar, d2xD3x2.7t	軸環, d2xD3x2.7t	10	6
PV0789	Collar Pack	軸環包	BK1480	Collar, d2xD3x5.6t	軸環, d2xD3x5.6t	10	6,9
PV0802	Hardened Main Shaft Pack	高強度主軸包	BK1086	Socket Screw, M2x14	半牙內六角螺絲, M2x14	2	9
			BK1502	Hardened Main Shaft	高強度主軸	2	9
			HML2	Nut, M2	六角螺帽, M2	4	9
PV0804	Metal Seesaw Hub Set	金屬穩定桿固定座組	BK1456	Collar, d2xD3x2.7t	軸環, d2xD3x2.7t	2	6
			BV1403	Metal Seesaw Hub	金屬穩定桿固定座	1	6
			HNU2-6Z	Shouldered Screw, M2x6	圓頭十字軸套螺絲, M2x6	2	6
PV0805	Metal Mixing Lever Set	金屬控制搖臂組	BK1203	Link Ball, φ3.8	連接頭, φ3.8	4	6
			BK1480	Collar, d2xD3x5.6t	軸環, d2xD3x5.6t	2	6
			BK1481	Flat Washer, d2x3.7x0.5t	墊片, d2x3.7x0.5t	2	6
			BV1404	Metal Mixing Lever	金屬控制搖臂	2	6
			HNU2-9Z	Shouldered Screw, M2x9	圓頭十字軸套螺絲, M2x9	2	6
			HSP16-6N	Counter Screw, M1.6x6	圓頭十字螺絲 M1.6x6	4	6
PV0807	Metal Flybar Collective Lever Set	金屬穩定翼控制臂組	BV1406	Metal Flybar Control Lever	金屬穩定翼控制臂	2	9
			BK1203	Link Ball, φ3.8	連接頭φ3.8	2	9
			BK1480	Collar, d2xD3x5.6t	軸環 d2xD3x5.6t	2	9
			BK1481	Washer, d2xD3.7X0.5t	墊片 d2xD3.7X0.5t	2	9
			HNU2-9Z	Shouldered Screw, M2x9	圓頭十字軸套螺絲 M2x9	2	9
			HSP16-6N	Counter Screw, M1.6x6	圓頭十字螺絲 M1.6x6	2	9
PV0808	Metal Washout Base Set	金屬控制臂座組	BV1405	Metal Washout Base	金屬控制臂座	1	9
			BK1481	Washer, d2xD3.7X0.5t	墊片 d2xD3.7X0.5t	4	9
PV0809	Metal Swashplate	金屬十字盤	BV1419A	Metal Swashplate	金屬十字盤	1	9
PV0820	Metal Tail Pitch Control Set	金屬尾旋翼控制組	BV1421A	Metal Tail Pitch Control Set	金屬尾旋翼攻角控制組	1	15
PV0829	Rotor Spacer	主旋翼墊片	BK1442	Rotor Spacer	3D版穩定翼（綠色）	2	23
PV0835	Velcro Strape	電池固定束帶	BK1416	Velcro Strape	電池固定束帶	2	23
PV0837	3D Flyabare Paddle Set	3D版穩定翼組	BK1413	3D Flyabare Paddle (Green)	3D版穩定翼（綠色）	2	7
PV0838	Metal Flyabar Control Arm Set	金屬穩定翼轉座組	BK1203	Link Ball, φ3.8	連接頭φ3.8	2	7

SPARE PARTS LIST / 零件包表格

THUNDER TIGER

No.	Description	中文名稱	Part No.	Description	中文名稱	Qty	Index Page
			BK1499	Metal Flyabar Control Arm-1	金屬穩定翼轉座-1	2	7
			BK1500	Metal Flyabar Control Arm-2	金屬穩定翼轉座-2	2	7
			HME3-3B	Set Screw, M3x3	無頭內六角螺絲 M3x3	2	7
			HSP16-6N	Counter Screw, M1.6x6	圓頭十字螺絲 M1.6x6	2	7
PV0842	3D Carbon Tail Fin Set	3D碳纖維垂直安定面組	BK1501	3D Carbon Tail Fin	3D碳纖維垂直安定面	1	16
			HNN2-10B	Tapping Screw w/Washer,M2×10	墊圈自攻螺絲	2	16
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	2	16
PV0844	SUS Flyabar Rod	不鏽鋼穩定桿	BK1410-1	SUS Flyabar Rod	不鏽鋼穩定桿	2	7
PV0903	Landing Skid Set	腳架組	BK1473	Landing Skid	腳架	1	12
			BK1615	Landing Skid Damper	腳架墊圈	4	*
			HNX2-6B	Socket Button Head Self Tapping Screw, M2×6	半圓頭內六角自攻螺絲 M2×6	4	12
PV1156	Tail Boom	尾管	BK1004-1	Tail Boom, 356mm xφ14mm	尾管, 365mm×φ14mm	1	14
PV1224	Phasing Control & Bracket Set	導軌夾扣零件組	BK2601	Anti-rotation Bracket	十字盤相位導軌	1	12
			BK2602	Antenna Holder	天線管座	1	12
			BK2603	Canopy Clip	機殼固定夾	8	12
			HNX2-6B	Socket Button Head Self Tapping Screw, M2×6	半圓頭內六角自攻螺絲 M2×6	6	12
PV1225	Battery & Receiver Tray Set	電裝固定座零件組	BK2604	Battery Tray	電池板	1	12
			BK2605	Receiver Tray	接收機座	1	12
			HNX2-6B	Socket Button Head Self Tapping Screw, M2×6	半圓頭內六角自攻螺絲 M2×6	8	12
PV1226	Base Plate	機身底板	BK2606	Bottom Bracket	機身底板	1	12
			HNX2-6B	Socket Button Head Self Tapping Screw, M2×6	半圓頭內六角自攻螺絲 M2×6	10	12
PV1227	Metal Front Servo Tray Set	金屬前伺服機座組	BK1878	Front Servo Tray	前伺服機座	2	11
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲 M2x6	4	11
PV1229	Metal Lower Bearing Block	金屬下軸承座	BV1883	Lower Bearing Set	下軸承座組	1	11
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲 M2x6	4	11
PV1231	Metal Canopy Post	金屬機殼支柱	BK1887	Standoff Spacer	定位柱	1	12
			BK1888	Canopy Standoff	機殼支柱	2	12
PV1232	Metal Frame Spacer	金屬機身支柱	BK1889	Frame Spacer	機身支柱	2	19
			HMC2-10B	Socket Screw, M2x10	內六角螺絲 M2x10	4	19
PV1234	Tail Boom Bracket	尾管固定座	BK2610	Tail Boom BRACKET	尾管固定座	1	17
			BK1886	Bracket Spacer	固定座支柱	2	17
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	4	17
			HNX2-10B	Socket Button Head Self Tapping Screw, M2×10	半圓頭內六角自攻螺絲, M2×10	4	17
PV1235	Button Head Socket Screw Set	M2半圓頭螺絲組	HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	26	11,14,16,17,18,20
			HNX2-6B	Socket Button Head Self Tapping Screw, M2×6	半圓頭內六角自攻螺絲, M2×6	24	12,22
			HNX2-10B	Socket Button Head Self Tapping Screw, M2×10	半圓頭內六角自攻螺絲, M2×10	8	11,18
PV1239	Screw Pack For Tail	尾座螺絲組	BK1481	Flat Washer d2xD3.7x0.5t	墊片 d2xD3.7x0.5t	2	6,9
			HMC2-16B	Socket Screw, M2x16	內六角螺絲 M2x16	2	15
			HMD2-5B	Cross Screw, M2x5	平頭十字螺絲, M2x5	6	14
			HMM2Z	Lock Nut, M2	止鬆螺帽, M2	2	15
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲 M2x6	3	11,14,16,17,18,20
PV1240	Motor Mount	馬達座	BK1890	Motor Mount	馬達座	1	20
			HSA3-5B	Socket Screw, M3×5	半圓頭內六角螺絲, M3×5	2	20
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	4	20
PV1241	Antenna Tube Set	天線管組	BD1826-B1	Antenna Tube	天線管(黑色)	2	22
			BK1088	Rubber Tube 10mm	軟管10mm	4	22
			BK1885	Oil Tube, 100mm	耐熱油管100mm	2	22
			BK1002	Rubber Grommet	機身固定墊圈	2	23
PV1245	Linkage Meter & Level Tool Set	量測工具	BK2608	Swash Level Tool	十字盤定位器	1	-
			BK2611	Linkage Meter	連桿檢測器	1	-
PV1246	Damper	避震墊圈	BK1900	Flap Damper, 65	避震墊圈 65	4	8

EXCLUSIVE SPARE PARTS LIST BELT-DRIVEN / 皮帶版專用零件包表格

THUNDER TIGER

No.	Description	中文名稱	Part No.	Description	中文名稱	Qty	Index Page
PV0735	Tail Drive Belt	皮帶	BK1073	Belt, MXL-3t 413T	皮帶MXL-3t 413T	1	14
PV0774	Shouldered Screw	圓頭十字軸套螺絲	BK1481	Washer, Φ2xΦ3.7x0.5t	螺絲墊片, φ2xφ3.7x0.5t	10	6
			HNU2-9Z	Shouldered Screw, M2x9	圓頭軸套螺絲, M2x9	10	6
PV0801	Metal Main Rotor Hub	金屬旋翼固定座組	BK0918	Washer, d4xD7.8X0.1mm	墊片 d4xD7.8X0.1mm	6	8
			BK1900	Damper, 65	避震墊圈 65	2	8
			BK1086	Socket Screw, M2x14	半牙內六角螺絲 M2x14	1	9
			BV1408	Metal Main Rotor Hub Set	金屬主旋翼固定座組	1	6
			HML2	Nut, M2	六角螺帽, M2	1	9
PV0803	Metal Rotor Grip Set	金屬旋翼轉座組	BK1203	Link Ball,φ3.8	連接頭	2	8
			BV1402	Metal Rotor Grip	金屬主旋翼固定座	2	8
			HSP16-6N	Counter Screw, M1.6x6	圓頭十字螺絲 M1.6x6	2	8
PV0814	Metal Pulley Set	金屬尾旋翼軸組	BV0973A	Metal Tail Rotor Shaft Set	金屬尾旋翼軸組	1	14
PV0823	Metal Tail Pitch Housing Set	金屬尾旋翼轉座組	BV1411	Metal Tail Pitch Housing	金屬尾旋翼轉座	2	15
			BK1481	Washer, Φ2xΦ3.7x0.5t	螺絲墊片, φ2xφ3.7x0.5t	2	-
			HNU2-9Z	Shouldered Screw, M2x9	圓頭十字軸套螺絲 M2x9	2	15
PV1230	Upper Bearing Block	上軸承座	BV1882	Upper Bearing Set	上軸承座組	1	11
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲 M2x6	4	11
PV1233	Tail Bearing Flange	尾傳動齒軸承座	BV2609	Tail Bearing Flange Set	尾傳動齒軸承座組	1	11
			HNX2-10B	Socket Button Head Self Tapping Screw, M2×10	半圓頭內六角自攻螺絲 M2×10	4	11
PV1236	Metal Tail Unit Set	金屬尾座組	BK1872	Metal Tail Unit	金屬尾座	1	14
			BV1873	Metal Tail Side Cover- Right	金屬尾座側蓋-右	1	14
			BV1874	Metal Tail Side Cover- Left	金屬尾座側蓋-左	1	14
			BK1875	Tail Unit Spacer	尾座支柱	1	14
			BK1091	Double Joint Lever	雙關連接桿	1	15
			HMD2-5	Flat Head Phillips Screw, M2x5	平頭十字螺絲 M2x5	6	14
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲 M2x6	3	14
			HMC2-16B	Socket Screw, M2×16	內六角螺絲 M2×16	2	15
			HMM2Z	Luck Nut, M2	M2止鬆螺帽	2	15
			BK1481	Flat Washer, d2xD3.7x0.5t	墊片 d2xD3.7x0.5t	2	-
PV1237	Metal Tail Unit	金屬尾座	BK1872	Metal Tail Unit	金屬尾座	1	14
			BK1091	Double Joint Lever	雙關連接桿	1	15
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲 M2x6	1	14
			HMC2-16B	Socket Screw, M2×16	內六角螺絲 M2×16	2	15
			BK1481	Flat Washer, d2xD3.7x0.5t	墊片 d2xD3.7x0.5t	2	-
PV1238	Metal Tail Side Cover Set	金屬尾座側蓋組	BV1873	Metal Tail Side Cover- Right	金屬尾座側蓋-右	1	14
			BV1874	Metal Tail Side Cover- Left	金屬尾座側蓋-左	1	14
			BK1875	Tail Unit Spacer	尾座支柱	1	14
			HMD2-5	Flat Head Phillips Screw, M2x5	平頭十字螺絲 M2x5	6	14
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	2	14
			HMM2Z	Luck NUT, M2	止鬆螺帽	2	15
PV1244-Y	FRP Canopy(Yellow)	玻纖機殼(黃色)	BV2607-Y	Caonpy(Yellow)	機身(黃色)	1	23
			BK1002	Rubber Grommet	機身固定墊圈	2	23
PV1247	Metal Pulley Set	金屬皮帶輪組	BV1412	METAL Pulley Set (14T)	金屬皮帶輪組 (14T)	1	11
			BK1445	Tail gear, 28T	金屬尾驅動齒 28T	1	11
			HMY1-5	Pin, ø1×5.3	插銷 ø1×5.3L	1	11
			HMD2-6	Flat Head Phillips Screw, M2x6	平頭十字螺絲 M2x6	1	11
PV1267	Carbon Main Frame(1)	碳纖側板(單片)	BK1892	Carbon Main Frame	碳纖側板	1	11

EXCLUSIVE SPARE PARTS LIST TORQUE-TUBE / 軸傳版專用零件包表格

THUNDER TIGER

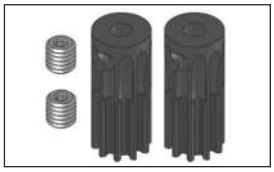
No.	Description	中文名稱	Part No.	Description	中文名稱	Qty	Index Page
PV1081	Tail Rotor Grip Screw	尾旋翼夾片螺絲組	HNU2-9Z	Shouldered Screw ,M2x9	圓頭軸套螺絲 ,M2x9	10	8
PV1154	Torque Tube End Set	傳動軸接頭組	BK1569	Torque Tube End	驅動軸接頭	2	15
			HME3-3B	Set Screw, M3x3	無頭內六角螺絲	4	14
PV1157	Shaft Damper Set	軸傳避震墊圈組	BK1578	Shock-axis Washers	軸傳避震墊圈, d8xD11x6	2	14
PV1159	Tail Rotor Shaft Set	尾旋翼橫軸組	BV1576	Tail Rotor Shaft	尾旋翼橫軸	1	14
PV1160	Bearing Set	滾珠軸承組	HMV1370ZZY	Bearing, d7xD13xW4	滾珠軸承, d7xD13xW4	2	14
PV1161	Bearing Set	滾珠軸承組	HMV1060ZZY	Bearing, d6xD10xW3	滾珠軸承, d6xD10xW3	2	14
PV1164	T Pin Set	T型銷組	BK1584	T Pin, d2x12	T型銷, d2x12	6	14
PV1228-1	REAR SERVO TRAY	後伺服機座	BK1881-1	Rare Servo Tray	後伺服機座	1	11
			HMV830ZZY	Bearing, d3xD8xW4	滾珠軸承, d3xD8xW4	1	11
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	1	11
PV1244-C	FRP Canopy(C)	玻纖機殼(碳纖)	BV2607-C	Caonpy(Carbon)	機身(碳纖)	1	23
PV1269	Metal Main Rotor Hub	金屬旋翼頭固定座組	BK1086	Socket Screw(S) M2x14	內六角螺絲, M2X14 半牙	1	9
			BK1900	Flap Damper	避震墊圈	2	8
			BV2615	Matel Main Rotor Hub Set	金屬主旋翼固定座組	1	6
			HML2	Nut, M2	六角螺帽, M2	2	9
PV1270	Metal Mail Rotor Grip Set	金屬主旋翼轉座組	BK1203	Link Ball, Φ3.8	球頭	2	8
			BV1893	Metal Rotor Grip	金屬主旋翼轉座組	2	8
			HSP16-6N	Counter Screw, M1.6x6	圓頭十字螺絲	2	8
PV1271	Carbon Main Frame(1)	碳纖側板(單片)	BK1892-1	Carbon Main Frame	碳纖側板	1	13
PV1272	Upper Bearing Block	上軸承座組	BV1882-1	Upper Bearing Set	上軸承座組	1	11
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	4	11
PV1273	Bevel Gear Set	傘齒輪組	BK1566	Bevel Gear (A), 11T	傘齒輪A, 11T	2	14
			BK1567	Bevel Gear(B), 11T	傘齒輪B, 11T	2	14
			BK1573	Flange Rings	輪緣套環	2	14
			HMY1-4.8	Pin, φ1x4.8	插銷, φ1x4.8L	2	14
PV1274	Front Bevel Gear Mount Set	傘齒輪座組	BK1897-1	Front Bevel Gear Mount	傘齒輪座組	1	17
			HMV1370ZZY	Bearing, d7xD13xW4	滾珠軸承, d7xD13xW4	2	17
			HNX2-10B	Socket Button Head Self Tapping Screw, M2x10	半圓頭內六角自攻螺絲	4	17
PV1275	Tail Bearing Flange Set	尾傳動齒軸承座組	BV1896-1	Tail Bearing Flange Set	尾傳動齒軸承座組	1	11
			HNX2-10B	Socket Button Head Self Tapping Screw, M2x10	半圓頭內六角自攻螺絲	4	11
PV1276	Front Tail Drive Gear Set	前尾驅動齒輪組	BV1898	Tail Drive Gear Shaft	尾驅動軸組(軸傳)	1	11
			HMD2-6B	Flat Phillips Screw, M2x6	平頭十字螺絲, M2x6	1	11
			HMY1-5	Ping Φ1x5.3mm	軸承滾針, Φ1x5.3mm	1	11
PV1277	Drive Shaft Set	驅動軸組	BK1584	T Ping	T型銷	4	14
			BK2628	Drive Shaft, d2xd4x359L	驅動軸, d2xD4x359L	2	14
PV1278	Metal Tail Case Set	軸傳金屬尾座組(含側蓋)	BV2612	Metal Tail Case Set	軸傳金屬尾座組	1	14
			BV2613	Metal Tail Side Cover Set	軸傳金屬尾座側蓋組	1	14
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	3	14
			HSA3-6	Button Head Socket Screw, M3x6	半圓頭內六角螺絲, M3x6	2	14
PV1279	Metal Tail Case	軸傳金屬尾座	BV2612	Metal Tail Unit Housingt Set	軸傳金屬尾座組	1	14
			HSA2-6	Button Head Socket Screw, M2x6	半圓頭內六角螺絲, M2x6	3	14
PV1280	Metal Tail Side Cover Set	軸傳金屬尾座側蓋	BV2613	Metal Tail Side Cover Set	軸傳金屬尾座側蓋組	1	14
			HSA3-6	Button Head Socket Screw, M3x6	半圓頭內六角螺絲, M3x6	2	14
PV1281	Metal Tail Rotor Grip Set	金屬尾旋翼轉座組	BV1894	Metal Tail P. Housing Set	金屬尾旋翼轉座組	2	15
			HMC2-12B	Socket Screw, M2x12	內六角螺絲, M2x12	2	15
			HMM2Z	Lock Nut, M2	止鬆螺帽, M2	2	15

OPTION PARTS / 選配零件

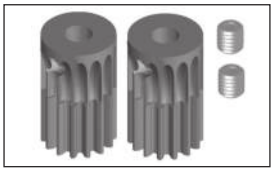
THUNDER TIGER



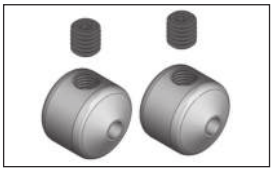
PV0706
FLAP DAMPER(70°)
避震墊圈(70°)



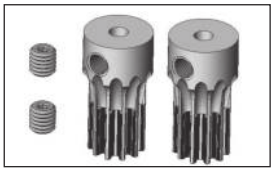
PV0730
PINION 10T(2)(FOR 2.3mm SHAFT)
驅動齒輪 10T



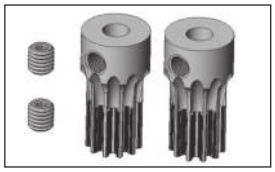
PV0731
PINION 15T
驅動齒輪 15T



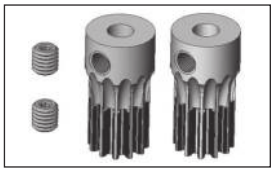
PV0828
SETTING WEIGHT
重錘



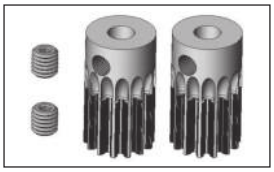
PV0830
PINION 11T (d2.3)
驅動齒輪11T (d2.3)



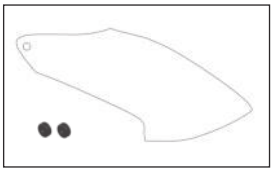
PV0831
PINION 11T (d3.17)
驅動齒輪 11T(d3.17)



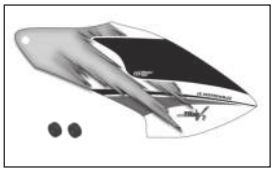
PV0832
PINION 12T
驅動齒輪 12T



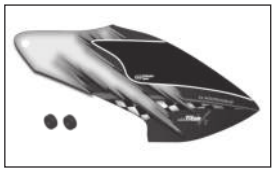
PV0833
PINION 14T
驅動齒輪 14T



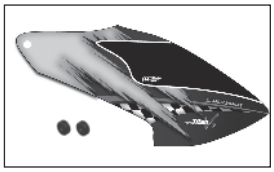
PV1244
FRP CANOPY(UNPAINTED WHITE)
玻纖機殼



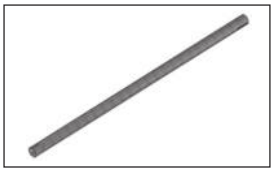
PV1244-G
FRP CANOPY(GREEN)
玻纖機殼(綠色)



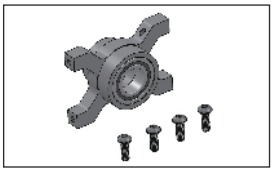
PV1244-LY
FRP CANOPY(BLUE/YELLOW)
玻纖機殼(藍/黃)



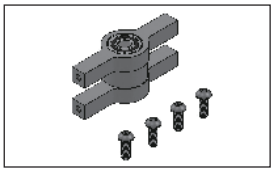
PV1244-LG
FRP CANOPY(BLUE/GREEN)
玻纖機殼(藍/綠)



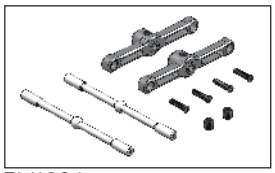
PV0825-T
CARBON TAIL BOOM
碳纖維尾管



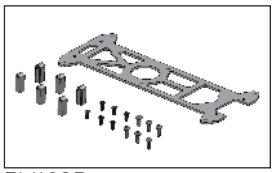
PV1282
METAL FRONT GEAR MOUNT SET, 4713
金屬前傘齒輪座組, 4713



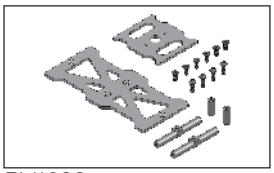
PV1283
METAL BEARING FLANGE, 4173
金屬尾傳動齒輪承座, 4713



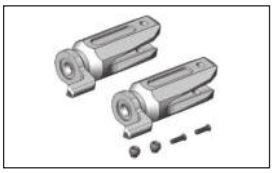
PV1284
METAL STABILIZER CONTROL CAGE
金屬穩定翼控制框



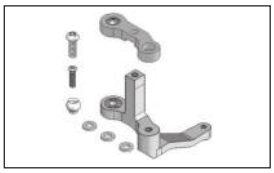
PV1285
CARBON BASE PLATE
機身底板



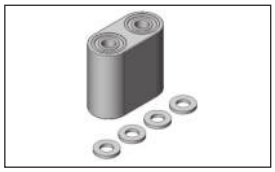
PV1286
CARBON BATTERY & RECEIVER TRAY SET
電裝固定座零件組



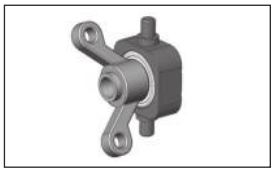
PV0803-R
METAL ROTOR GRIP ,RED
金屬主旋翼轉座 ,紅



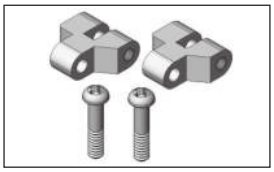
PV0818
METAL TAIL PITCH LEVER
金屬尾旋翼控制桿



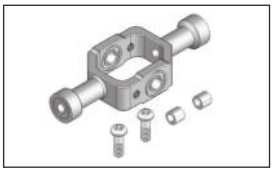
PV0819
METAL DOUBLE JOINT LEVER
金屬連接桿



PV0820
METAL TAIL PITCH CONTROL SET
金屬尾旋翼攻角控制組



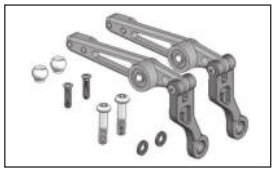
PV0821
METAL TAIL PITCH LINK
金屬尾旋翼連接頭



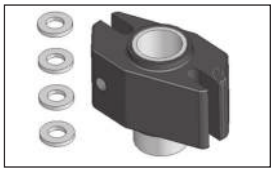
PV0804-R
METAL SEESAW HUB ,RED
金屬穩定桿固定座 ,紅



PV0805-R
METAL MIXING LEVER, RED
金屬控制搖臂 ,紅

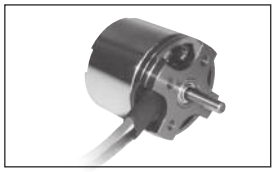


PV0807-R
METAL FLYBAR CONTROL LEVER ,RED
金屬穩定翼控制臂組 ,紅



PV0808-R
METAL WASHOUT BASE ,RED
金屬控制臂座 ,紅

POWER & ELECTRONICS / 動力及電子配件



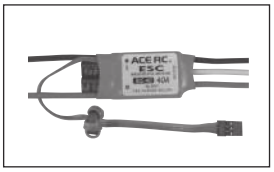
2381
BL. MOTOR, OBL 29/35-10H
無刷馬達, OBL 29/37-10H



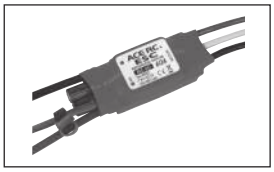
2382
BL. MOTOR, OBL 29/37-10H
無刷馬達, OBL 29/37-10H



2147
Outrunner Brushless motor, OBL29/40-10H
外轉無刷馬達, OBL29/40-10H



8041-H
SPEED CONTROL, ACE BLC-40
無刷速控器, ACE BLC-40



8026-H
SPEED CONTROL, ACE BLC-60
無刷速控器, ACE BLC-60

POWER & ELECTRONICS / 動力及電子配件

THUNDER TIGER



AQ0843
TG6100M GYRO W/E-CCPM MIXER
TG6100M 陀螺儀含混控版



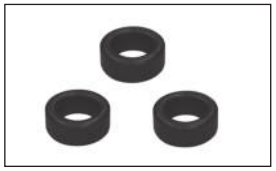
8072
TG6000 GYRO
TG6000 鎖定式陀螺儀



8073
TG6000GYRO W/C0915 SERVO
TG6000 陀螺儀+尾舵伺服機



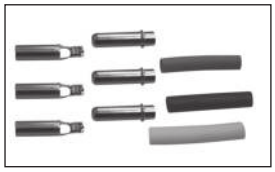
8079
TG7200 HEADING LOCK GYRO
TG7200 鎖定式電子陀螺儀



AQ0835
ANTI-INTERFERENCE RING
防磁環



AQ0836
GOLD CONNECTORS(3.5mm)
鍍金端子(3.5mm)



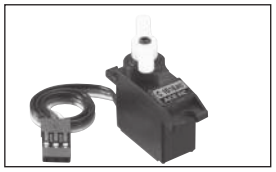
AQ0837
GOLD CONNECTORS(4mm)
鍍金端子(4mm)



8117
ACE MICRO SERVO,C1016
迷你伺服機, C1016



8131
ACE MICRO SERVO,C0915
迷你尾舵伺服機, C0915



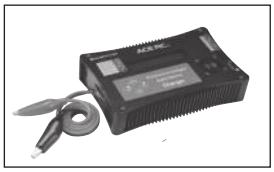
8139
ACE MICRO SERVO,C1016MG
迷你尾舵伺服機, C1016MG



2536 / 2536-E / 2536-U
T3AC BALANCE CHARGER
T3AC 平衡鋰電充電器



2537 / 2537-E / 2537-U
T6AC DIGITAL BALANCE CHARGER
T6AC雙輸入智能充放電器



2538
T6 DIGITAL BALANCE CHARGER
T6 雙輸入智能充放電器

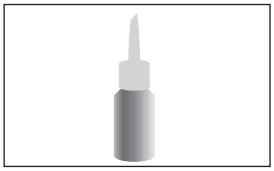


2532
Li-Po BATTERY E-CHARGER ELC 4
鋰電池充電器 ELC 4



2814
LI-PO BATT,3S1P/2200mAh/25C
鋰電池, 3S1P/2200mAh/25C

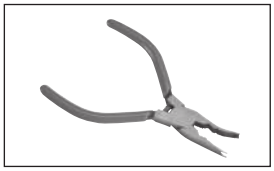
ACCESSORY / 其他相關產品



PV0760
ANAEROBICS RETAINER, R48
缺氧膠, R48



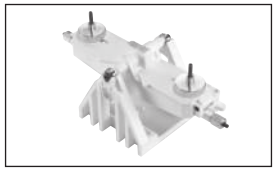
PV1242
VELCRO STRAPE
新式魔鬼粘束帶



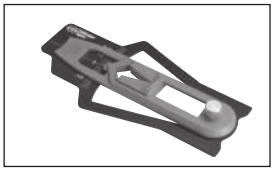
1075
BALL LINK PLIERS(D3.8mm)
連桿專用鉗（D3.8mm）



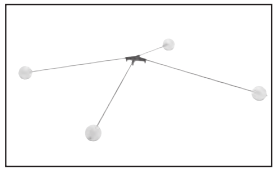
1076
BALL LINK WRENCH
單頭連桿鈑手



1077
BLADE BALANCER
主旋翼平衡器



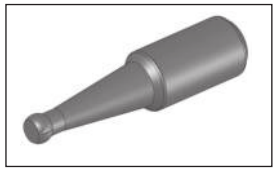
1078
PITCH GAUGE
螺距尺



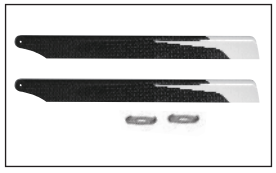
1079
TRAINING GEAR
練習架



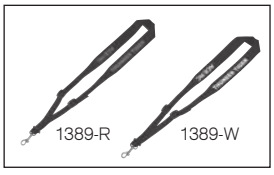
1080
ONE WAY BEARING RELEASER
單向軸承退出器



1198
BALL LINK REAMER
球頭絞刀 (3.8mm)



3897
CARBON ROTOR BLADE,325mm
碳纖主旋翼組, 325mm



1389-W(White)
1389-R(Red)
NECK STRAP
發射機吊帶(白色、紅色)



1197
14 IN 1 SCREWDRIVER SET
14 合1小型板手工具組



PV0268
LOCTITE #262 / T22
高強度防鬆劑(紅色) #262



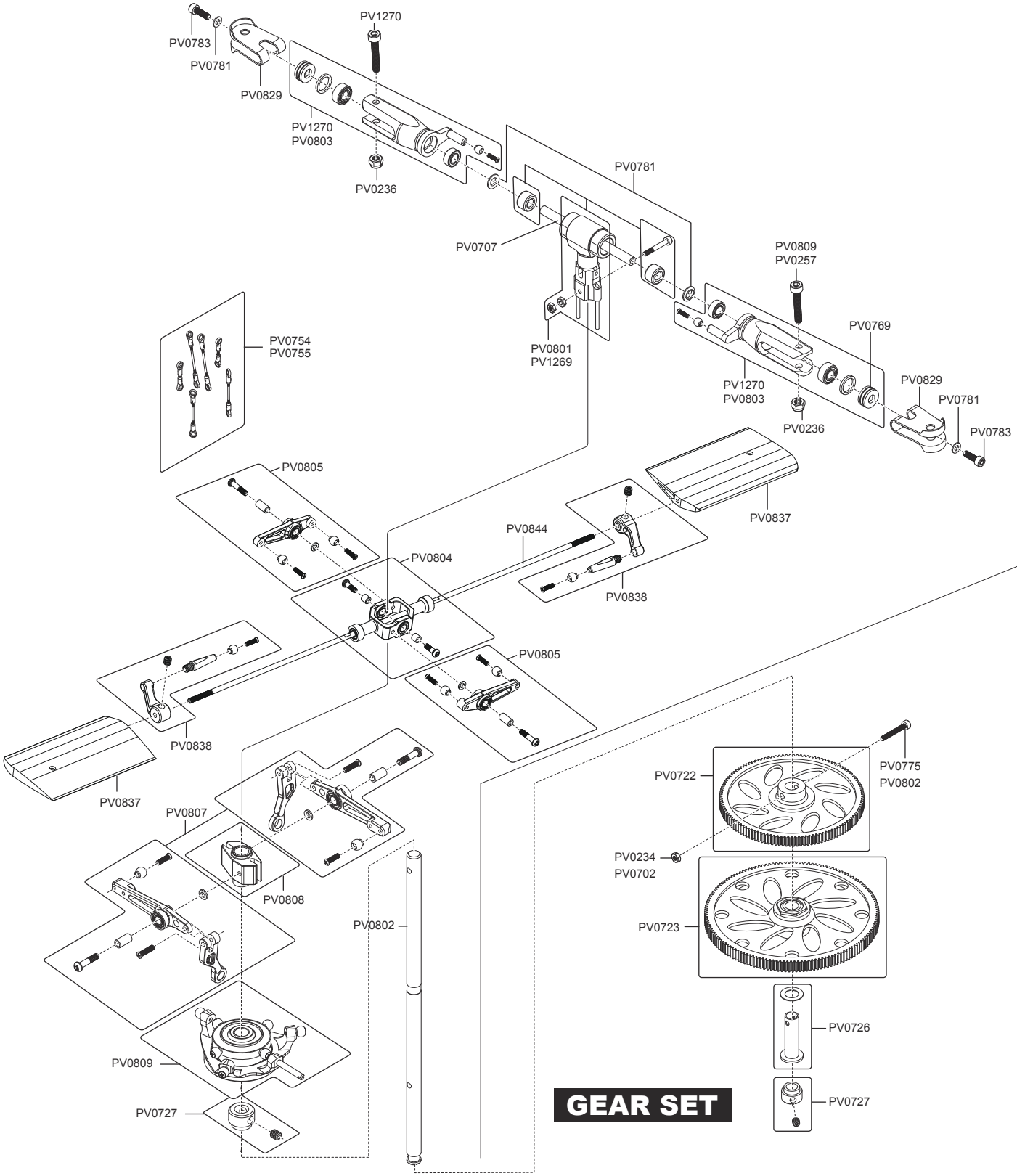
PV0270
GREASE (FOR BEARING)
止推軸承潤滑脂(黑色)



PV0517
ONEWAY BEARING GREASE
單向軸承油脂,R50/90

THUNDER TIGER

MAIN ROTOR HEAD

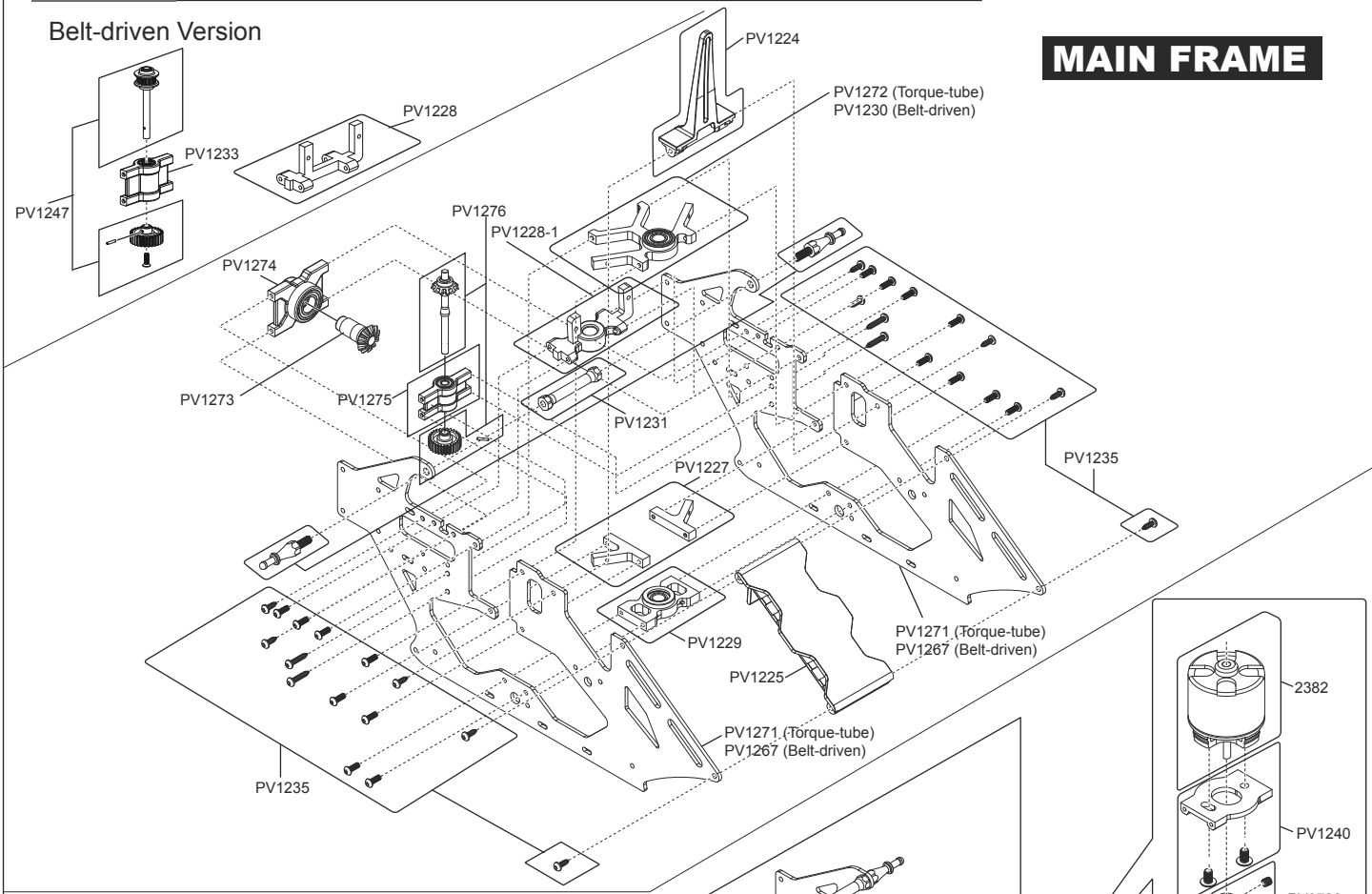


EXPLODED VIEW / 爆炸圖檢索

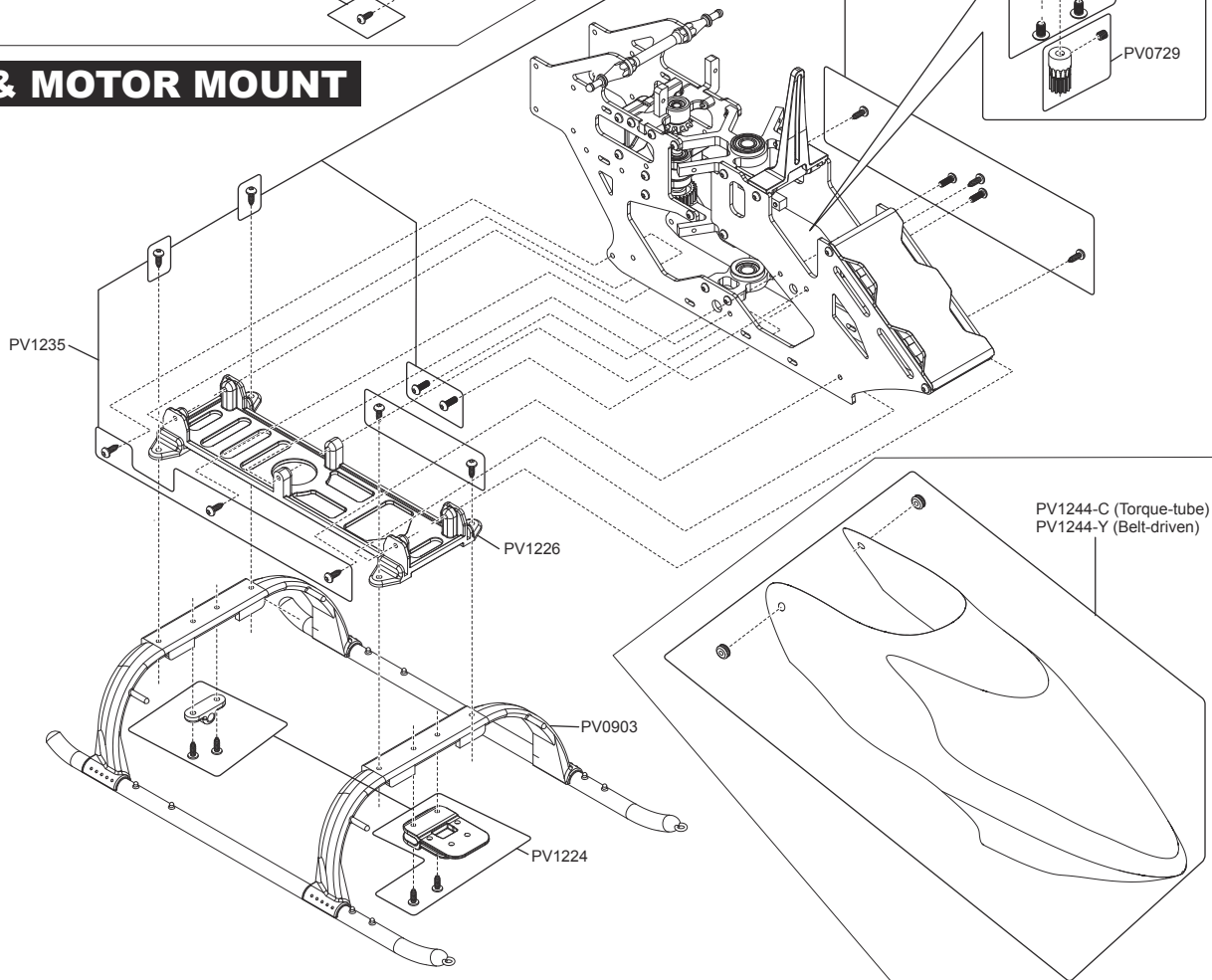
THUNDER TIGER

Belt-driven Version

MAIN FRAME

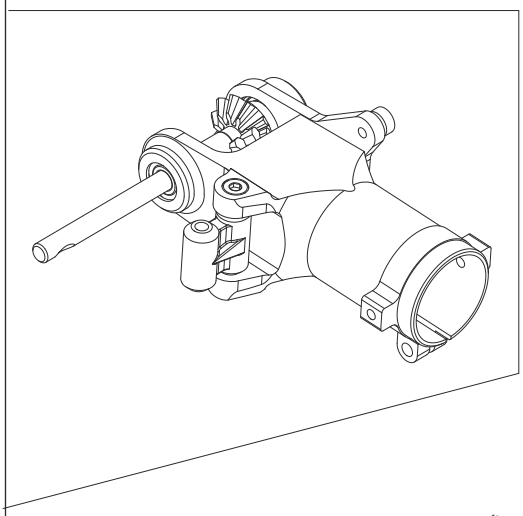


SKID & MOTOR MOUNT



CANOPY

THUNDER TIGER

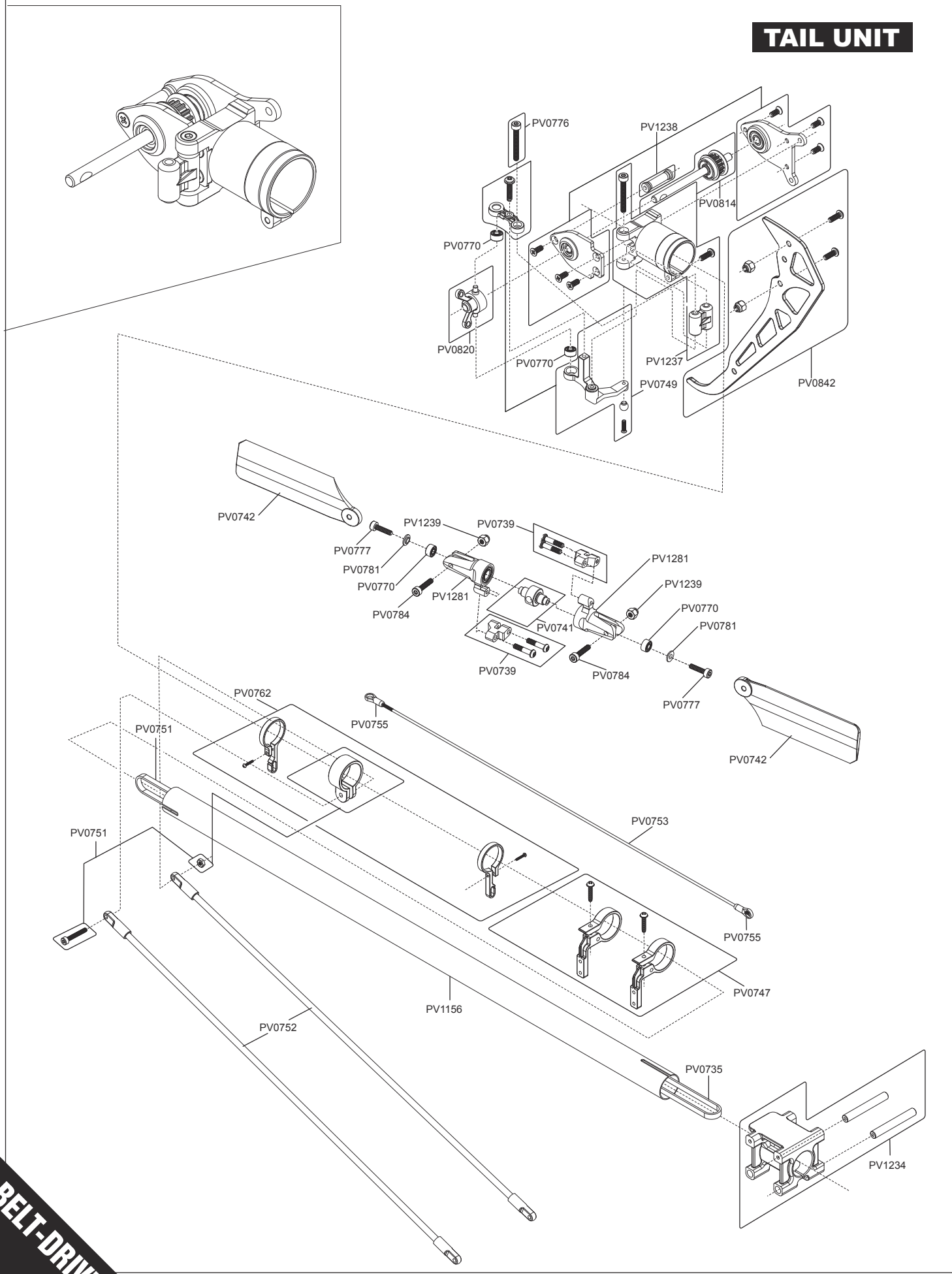


TAIL UNIT

TORQUE-TUBE

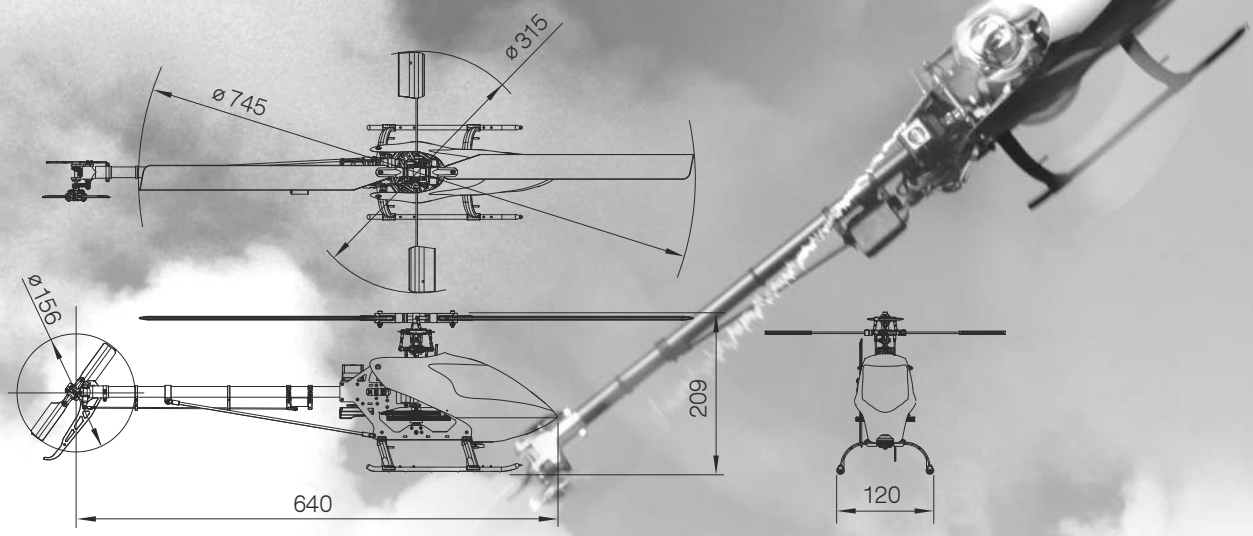
THUNDER TIGER

TAIL UNIT



BELT-DRIVEN

mini Titan V2 SERIES



SPECIFICATION / 規格表

Product Name	產品名稱	mini Titan V2	mini Titan V2 SE
Item No.	產品料號	4712	4713
Transmission System	傳動系統	Belt-driven / 皮帶傳動	Torque-tube / 軸傳動
Length	總長	640 mm (25.19”)	
Width	總寬	120mm (4.72”)	
Height	總高	209mm (8.2”)	
Main Rotor Length / Diameter	主旋翼長度/迴轉直徑	325 mm (12.79”) / 745 mm (28.46”)	
Tail Rotor Length / Diameter	尾旋翼長度/迴轉直徑	59 mm (2.32”) / 156mm (6.14”)	
Main Gear / Pinion	主齒盤/驅動齒數	150T / 13T (standard), 11~15T (option)	
Gear Ratio (E:M:T)	齒輪比 (E:M:T)	1:11.5:4.4 (standard)	
Full Equipped Weight w/o Batt.	全配重量不含電池	625-gram (22.04oz)	635-gram (22.4oz)

FEATURES / 特色

UNIQUE FEATURES for TORQUE-TUBE VERSION

1. Efficient torque tube drive system for crisp rudder response and 100% power transfer
2. Newly designed, lightweight machined metal tail case
3. Upgraded carbon main frames & servo mounts for the most brands of servos
4. Newly designed, lightweight metal main rotor head & tail grips

MUTUAL FEATURES

1. Super Rigid Carbon Frame & CNC Machined Aluminum Construction
2. Slim & Aerodynamic Pre-Painted Fiberglass Canopy
3. One-piece Low Gravity Molded Skid /Integrated Antenna Holder
4. One-piece Reinforced Carbon Main Frame (1.5mm)
5. Integrated One-piece High-positioned Battery & ESC Tray
6. Adjustable Bell-Hiller Mixing Ratio
7. One-piece Machined Aluminum Mast Block /Servo Mount
8. Metal & Carbon Light Tail Case/ Metal Grips
9. Canopy With Integrated Heat Sink For Efficient Thermal Dissipation
10. Equipped With Lightweight Paddles for 3D (4.4gr)

軸傳版專屬特點

1. 高效率尾傳動系統
2. 全新設計輕量化金屬尾座
3. 新版碳纖側板及伺服機座，可適用主流伺服機
4. 全新設計輕量化金屬主旋翼組及尾旋翼夾片

共通特點

1. 高剛性碳纖維及金屬結構主體
2. 原廠塗裝完成玻纖材質機頭罩
3. 一體式低重心腳架及天線組
4. 單片式強化碳纖維主側板
5. 整合式高置電池座及速控器座
6. 可調式混控比率旋翼頭組設計
7. 一體式金屬主軸軸承座及伺服機座
8. 金屬/碳纖維輕量化尾殼/金屬夾片
9. 高效率散熱孔設計機頭罩
10. 標準搭配3D版輕量化平衡翼

manufactured by THUNDER TIGER
http://www.thundertiger.com
JK0240