ALIGN

TREX 700NDFC INSTRUCTION MANUAL

使用說明書

RH70N07XT



Combo

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Thank you for buying ALIGN products. The T-REX 700N DFC is the latest technology in Rotary RC models. Please read this manual carefully before assembling and flying the new T-REX700N DFC helicopter. We recommend that you keep this manual for future reference regarding tuning andmaintenance.

承蒙閣下選用**亞拓遙控世界**系列產品,謹表謝意。進入遙控世界之前必須告訴您許多相關的知識與注意事項,以確保您能夠在學習的過程中較得心應手。 在開始操作之前,請務必詳閱本說明書,相信一定能夠給您帶來相當大的幫助,也請您妥善保管這本說明書,以作為日後參考。



Thank you for buying ALIGN Products. The T-REX 700N DFC Helicopter is designed as an easy to use, full featured Helicopter R/C model capable of all forms of rotary flight. Please read the manual carefully before assembling the model, and follow all precautions and recommendations located within the manual. Be sure to retain the manual for future reference, routine maintenance, and tuning. The T-REX 700N DFC is a new product developed by ALIGN. It features the best design available on the R/C helicopters market to date, providing flying stability for beginners, full aerobatic capability for advanced filers, and unsurpassed reliability for customer support.

感謝您選購亞拓產品,為了讓您容易方便的使用 T-REX 700N DFC 直昇機,請您詳細的閱讀完這本說明書之後再進行組裝以及操作這台直昇機,同時請您 妥善的保存這本說明書,作為日後進行調整以及維修的參考。 T-REX 700N DFC 是由亞拓自行研發的新產品,不論您是需求飛行穩定性的初學者或是追求性能的飛行愛好者, T-REX 700N DFC 將是您最佳的選擇。

WARNING LABEL LEGEND 標誌代表涵義

0	FORBIDDEN	
0	禁	止

Do not attempt under any circumstances. 在任何禁止的環境下,請勿嘗試操作。



Mishandling due to failure to follow these instructions may result in damage or injury. 因為疏忽這些操作說明,而使用錯誤可能造成財產損失或嚴重傷害。



Mishandling due to failure to follow these instructions may result in danger. 因為疏忽這些操作說明,而使用錯誤可能造成危險。

IMPORTANT NOTES 重要聲明

R/C helicopters, including the T-REX 700N DFC are not toys. R/C helicopter utilize various high-tech products and technologies to provide superior performance. Improper use of this product can result in serious injury or even death. Please read this manual carefully before using and make sure to be conscious of your own personal safety and the safety of others and your environment when operating all ALIGN products. Manufacturer and seller assume no liability for the operation or the use of this product. This product is intended for use only by adults with experience flying remote control helicopters at a legal flying field. After the sale of this product we cannot maintain any control over its operation or usage.

As the user of this product, you are solely responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

T-REX 700N DFC 遙控直昇機並非玩具,它是結合了許多高科技產品所設計出來的休閒用品,所以商品的使用不當或不熟悉都可能會造成嚴重傷害甚至死亡,使用之前請務必詳讀本說明書,勿輕忽並注意自身安全。注意上任何遙控直昇機的使用,製造商和經銷商是無法對使用者於零件使用的損耗異常或組裝不當所發生之意外負任何責任,本產品是提供給有操作過模型直昇機經驗的成人或有相當技術的人員在旁指導於當地合法遙控飛行場飛行,以確保安全無虞下操作使用,產品售出後本公司將不負任何操作和使用控制上的任何性能與安全責任。

作為本產品的使用者,您,是唯一對於您自己操作的環境及行為負全部的責任之人。

We recommend that you obtain the assistance of an experienced pilot before attempting to fly our products for the first time. A local expert is the best way to properly assemble, setup, and fly your model for the first time. The T-REX 700N DFC requires a certain degree of skill to operate, and is a consumer item. Any damage or dissatisfaction as a result of accidents or modifications are not covered by any warrantee and cannot be returned for repair or replacement. Please contact our distributors for free technical consultation and parts at discounted rates when you experience problems during operation or maintenance. As Align Corporation Limited has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

模型商品屬於需高操作技術且為消耗性之商品,如經拆裝使用後,會造成不等情況零件損耗,任何使用情況所造成商品不良或不滿意,將無法於保固條件內更換 新品或退貨,如遇有使用操作維修問題,本公司全省分公司或代理商將提供技術指導、特價零件供應服務。對使用者的不當使用、設定、組裝、修改、或操作不 良所造成的破損或傷害,本公司無法控制及負責。任何使用、設定、組裝、修改、或操作不良所造成的破損、意外或傷害,使用者應承擔全部責任。

2.SAFETY NOTES 安全注意事項

ALIGN

▲ CAUTION 注意

- Fly only In safe areas, away from other people. Do not operate R/C alreaft within the vicinity of homes or crowds of people. R/C aircraft are prone to accidents, failures, and crashes due to a variety of reasons including, lack of maintenance, pilot error, and radio interference. Pilots are responsible for their actions and damage or injury occurring during the operation or as of a result of R/C aircraft models.
- Prior to every flight, carefully check rotorhead spindle shaft screws and tail blade grip screws, linkage balls and screws, ensure they are firmly secured.
- · 遙控模型飛機、直昇機屬高危險性商品,飛行時務必遠離人群,人為組裝不當或機件損壞、電子控制設備不良,以及操控上的不熟悉、都有可能導致飛行失控損傷等不可預期的意外,請飛行者務必注意飛行安全,並需了解自負疏忽所造成任何意外之責任。
- · 每趟飛行前須仔細檢查, 主旋翼夾座橫軸螺絲、尾旋翼夾座螺絲, 以及機身各部位球頭、螺絲, 確實上膠鎖緊才能升空飛行。

○ FORBIDDEN 禁止

LOCATE AN APPROPRIATE LOCATION 遠離障礙物及人群

R/C helicopters fly at high speed, thus posing a certain degree of potential danger. Choose a legal flying field consisting of flat, smooth ground without obstacles. Do not fly near buildings, high voltage cables, or trees to ensure the safety of yourself, others and your model. For the first practice, please choose a legal flying field. Do not fly your model in inclement weather, such as rain, wind, snow or darkness.

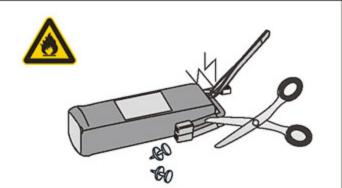
直昇機飛行時具有一定的速度,相對的也潛在著危險性,場地的選擇也相對的重要,請需遵守當地法規到合法遙控飛行場地飛行。務必選擇在空曠合法專屬飛行場地,並必須注意周遭有沒有人、高樓、建築物、高壓電線、樹木等等,避免操控的不當造成自己與他人財產的損壞。 請勿在下雨、打雷等惡劣天候下操作,以確保本身及機體的安全。



○ FORBIDDEN 禁止

NOTE ON LITHIUM POLYMER BATTERIES 鋰聚電池注意事項

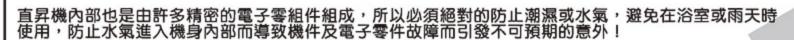
Lithium Polymer batteries are significantly more volatile than alkaline or Ni-Cd/Ni-MH batteries used in RC applications. All manufacturer's instructions and warnings must be followed closely. Mishandling of Li-Po batteries can result in fire. Always follow the manufacturer's instructions when disposing of Lithium Polymer batteries. 鋰聚電池跟一般在RC使用的鹼性電池、鎳鎘電池、鎳氫電池比較起來是相對危險的。請嚴格遵守鋰聚電池說明書之使用注意事項。不恰當使用鋰聚電池,可能造成火災並傷及生命財產安全,切勿大意!



S FORBIDDEN 禁止

PREVENT MOISTURE 遠離潮濕環境

R/C models are composed of many precision electrical components. It is critical to keep the model and associated equipment away from moisture and other contaminants. The introduction or exposure to water or moisture in any form can cause the model to malfunction resulting in loss of use, or a crash. Do not operate or expose to rain or moisture.





○ FORBIDDEN 禁止

PROPER OPERATION 勿不當使用本產品

Please use the replacement of parts on the manual to ensure the safety of instructors. This product is for R/C model, so do not use for other purpose.

請勿自行改造加工,任何的升級改裝或維修,請使用亞拓產品目錄中的零件,以確保結構的安全。請確認於產品限界內操作,請勿過載使用,並勿用於安全、法令外其它非法用途。

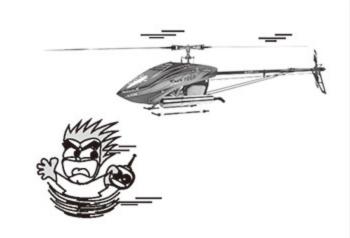


↑WARNING 警告

OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT 避免獨自操控

Before turning on your model and transmitter, check to make sure no one else is operating on the same frequency. Frequency interference can cause your model, or other models to crash. The guidance provided by an experienced pilot will be invaluable for the assembly, tuning, trimming, and actual first flight or unforeseen danger may happen. (Recommend you to practice with computer-based flight simulator.)

至飛行場飛行前,需確認是否有相同頻率的同好正進行飛行,因為開啟相同頻率的發射器將導致自己與他人立即干擾等意外危險。遙控飛機操控技巧在學習初期有著一定的難度,要盡量避免獨自操作飛行,需有經驗的人士在旁指導,才可以操控飛行,否則將可能造成不可預期的意外發生。(勤練電腦模擬器及老手指導是入門必要的選擇)



MARNING 警告

SAFE OPERATION 安全操作

Operate this unit within your ability. Do not fly under tired condition and improper operation may cause in danger. Never take your eyes off the model or leave it unattended while it is turned on. Immediately turn off the model and transmitter when you have landed the model.

請於自己能力內及需要一定技術範圍內操作這台直昇機,過於疲勞、精神不佳或不當操作,意外發生風險將可能會提高。不可在視線範圍外進行,降落後也請馬上關掉直昇機和遙控器電源。



⚠CAUTION 注意

ALWAYS BE AWARE OF THE ROTATING BLADES 遠離運轉中零件

During the operation of the helicopter, the main rotor and tail rotor will be spinning at a high rate of speed. The blades are capable of inflicting serious bodily injury and damage to the environment. Be conscious of your actions, and careful to keep your face, eyes, hands, and loose clothing away from the blades. Always fly the model a safe distance from yourself and others, as well as surrounding objects.

直昇機主旋翼與尾旋翼運轉時會以高轉速下進行,在高轉速下的旋翼會造成自己與他人在身體上或環境上的嚴重損傷,請勿觸摸運轉中的主旋翼與尾旋翼,並保持安全距離以避免造成危險及損壞。



↑CAUTION 注意

KEEP AWAY FROM HEAT 遠離熱源

R/C models are made of various forms of plastic. Plastic is very susceptible to damage or deformation due to extreme heat and cold climate. Make sure not to store the model near any source of heat such as an oven, or heater. It is best to store the model indoors, in a climate-controlled, room temperature environment.

遙控飛機、直昇機多半是以 PA 纖維或聚乙烯、電子商品為主要材質,因此要盡量遠離熱源、日曬,以避免因高溫而變形甚至熔毀損壞的可能。



RADIO TRANSMITTER AND ELECTRONIC EQUIPMENT REQUIRED FOR ASSEMBLY 自備遙控及電子設備



Transmitter (6channel or more, Helicopter system) 發射機(七動以上直昇機模 式遙控器)



Standard size throttle servo (minimum speed 0.10 sec/60 , torque 3kg.cm or higher)

油門用標準伺服器(速度:0.10秒/60度以内,扭力:3kg.cm以上)



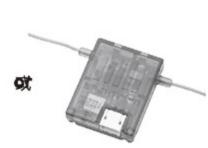
DS655 Digital Servo x 1 DS655 數位伺服器 x 1



DS615 Digital Servo x 3 DS615 數位伺服器 x 3



Receiver(6-channel or more) 接收機(七動以上)



Remote Receiver 衛星天線



90-120 Muffler 90-120 高效加速管



Engine Starter 啓動器



Fuel Pump 加油器



Engine Fuel 引擎燃油



91H 引擎

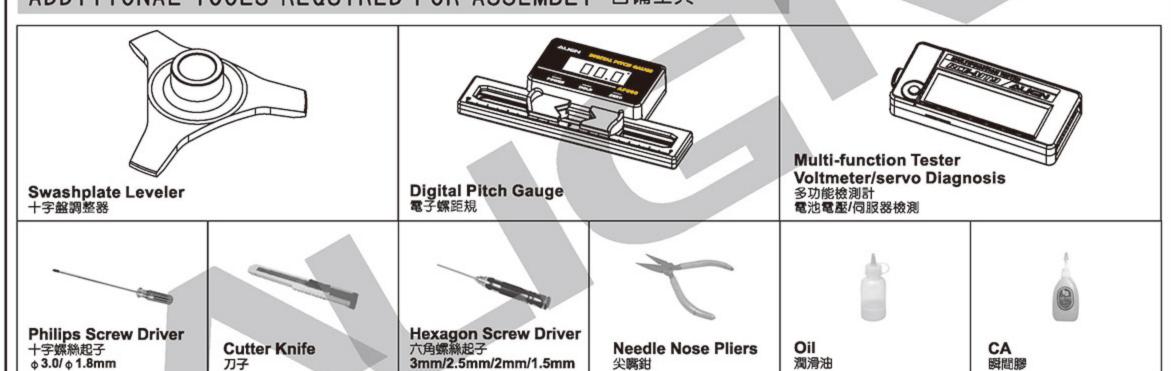


91HP 引擎

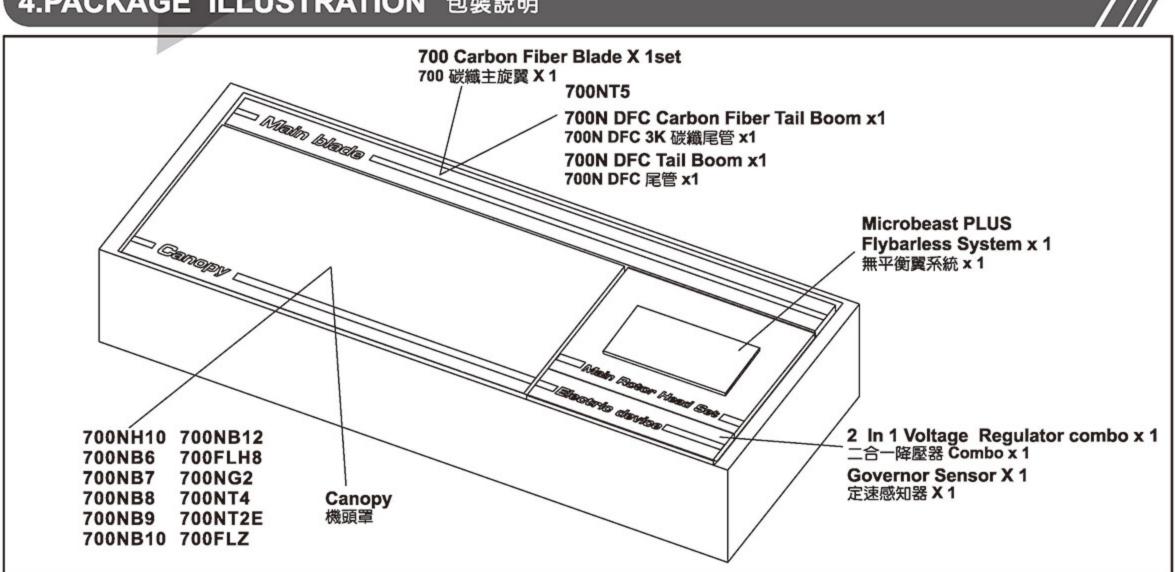


ALIGN 91H Engine ALIGN 91HP Engine ALIGN 105HP Engine 105HP 引擎

ADDITIONAL TOOLS REQUIRED FOR ASSEMBLY 自備工具



4.PACKAGE ILLUSTRATION 包裝說明





CAREFULLY INSPECT BEFORE REAL FLIGHT 請嚴格執行飛行前之檢查義務

- · Before flying, please check to make sure no one else is operating on the same frequency for the safety.
- Before flight, please check if the batteries of transmitter and receiver are enough for the flight.
- · Before turn on the transmitter, please check if the throttle stick is in the lowest position. IDLE switch is OFF.
- · When turn off the unit, please follow the power on/off procedure. Power ON- Please turn on the transmitter first, and then turn on receiver. Power OFF- Please turn off the receiver first and then turn off the transmitter. Improper procedure may cause out of control, so please to have this correct habit.
- · Before operation, check every movement is smooth and directions are correct. Carefully inspect servos for interference and broken gear.
- · Check for missing or loose screws and nuts. See if there is any cracked and incomplete assembly of parts. Carefully check main rotor blades and rotor holders. Broken and premature failures of parts possibly cause resulting in a dangerous situation.
- · Check all ball links to avoid excess play and replace as needed. Failure to do so will result in poor flight stability.
- · Check if the battery and power plug are fastened. Vibration and violent flight may cause the plug loose and result out of control.
- ·每次飛行前應先確認所使用的頻率是否會干擾他人,以確保您自身與他人的安全。
- 每次飛行前確定您發射器與接收器電池的電量是在足夠飛行的狀態。
- · 開機前確認油門搖桿是否位於最低點,熄火降落開關,定速開關(IDLE)是否於關閉位置。
- · 關機時必須遵守電源開關機的程序, 開機時應先開啟發射器後, 再開啟接收器電源; 關機時應先關閉接收器後, 再關閉發射器電源。不正確的開 關程序可能會造失控的現象,影嚮自身與他人的安全,請養成正確的習慣。
- · 開機請先確定直昇機的各個動作是否順暢,及方向是否正確, 並檢查伺服器的動作是否有干涉或崩齒的情形, 使用故障的伺服器將導致不可預期 的危險。
- ·飛行前確認沒有缺少或鬆脫的螺絲與螺帽,確認沒有組裝不完整或損毀的零件,仔細檢查主旋翼是否有損壞,特別是接近主旋翼夾座的部位。損 壞或組裝不完整的零件不僅影嚮飛行,更會造成不可預期的危險。注意:每次飛行前的安全檢查、保養、及更換損耗零件,請確實嚴格執行以 確保安全。
- · 檢查所有的連桿頭是否有鬆脫的情形,過鬆的連桿頭應先更新,否則將造成直昇機無法操控的危險。
- ·確認電池及電源接頭是否固定牢靠,飛行中的震動或激烈的飛行,可能造成電源接頭鬆脫而造成失控的危險。

STANDARD EQUIPMENT 標準配備 700NC2 700NH10 700NB6 700NB7 700NB8 700NB9 700NB10 700NB12 700FLH8 700NG2 700NT4 700NT2E B6T 2 In 1 Voltage **Beastx Governor** Microbeast PLUS 700 Carbon Regulator x 1 Fiber Blades x 1 Sensor x 1 Flybarless System x 1 無平衡翼系統 x 1 Beastx 定速器感應器 x 1 B6T 二合一降壓器 x 1 700 碳纖主旋翼 x 1 700NT5 700FLZ

When you see the marks as below, please use glue or grease to ensure flying safety.

標有以下符號之組裝步驟,請配合上膠或上油,以確保使用之可靠度。

CA: Apply CA Glue to fix.

R48 : Apply Anaerobics Retainer to fix.

T43 : Apply Thread Lock to fix.

OIL: Add Grease. CA:使用瞬間膠固定

R48:使用金屬管狀固定缺氧膠固定

T43:使用螺絲膠 OIL:添加潤滑油

When assembling ball links, make sure the "A" character faces outside.

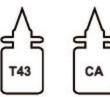
各項塑膠製連桿頭扣接時,A字請朝外。





Green

綠色









T43 Glue width : approx. 1mm

T43上膠寬度約1mm

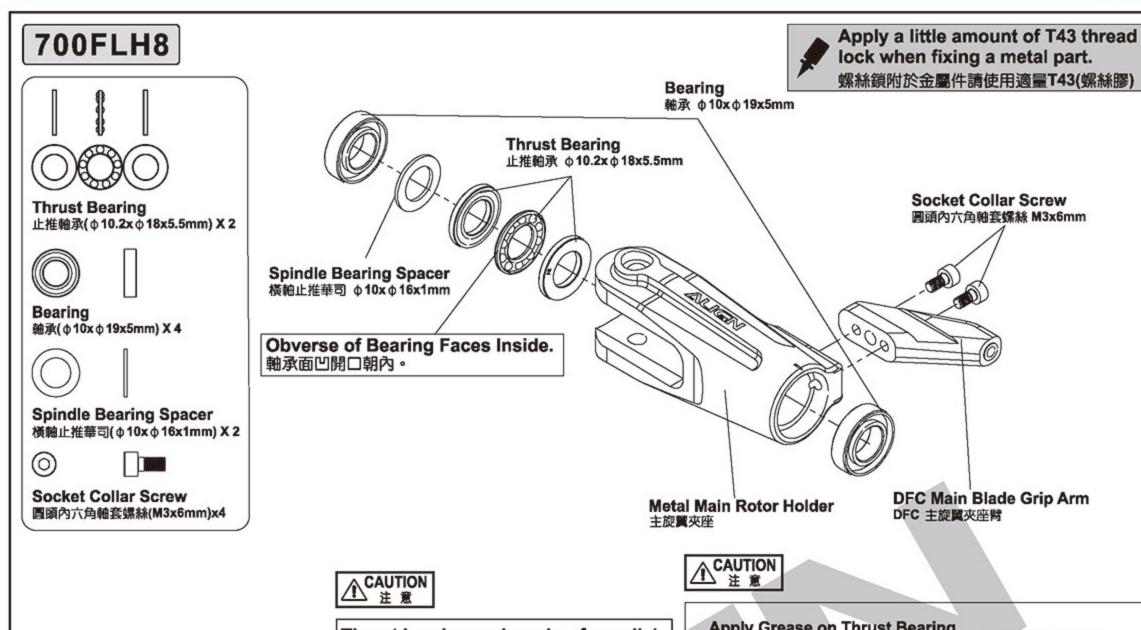
R48 metal tubular adhesive (eg. Bearings). T43 thread lock, apply a small amount on screws or metal parts and wipe surplus off. When disassembling, recommend to heat the metal joint about 15 Seconds. (NOTE: Keep plastic parts away from heat.)

R48 為強力金屬管狀(如軸承)接著劑,T43為螺絲膠,膠合螺絲或金屬內外徑請務必 少量使用,必要時請用手去除多餘膠量,欲拆卸時可於金屬接合部位熱烤約15秒。 (注意!塑膠件避免接近熱源)

Grease

潤滑油

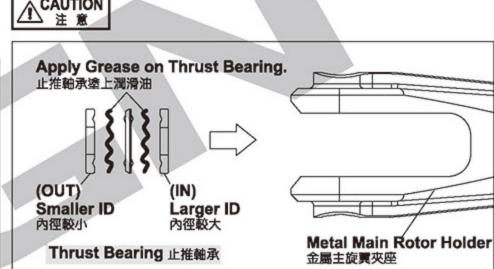


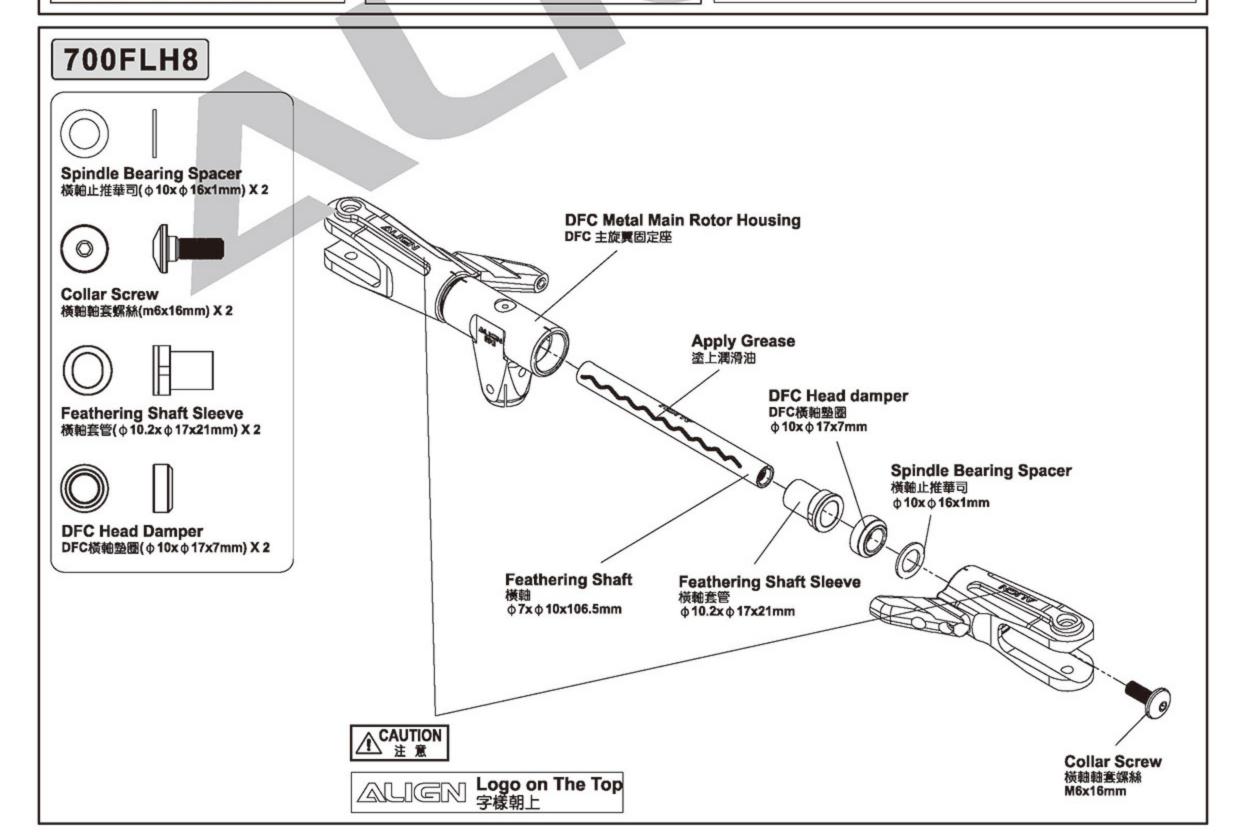


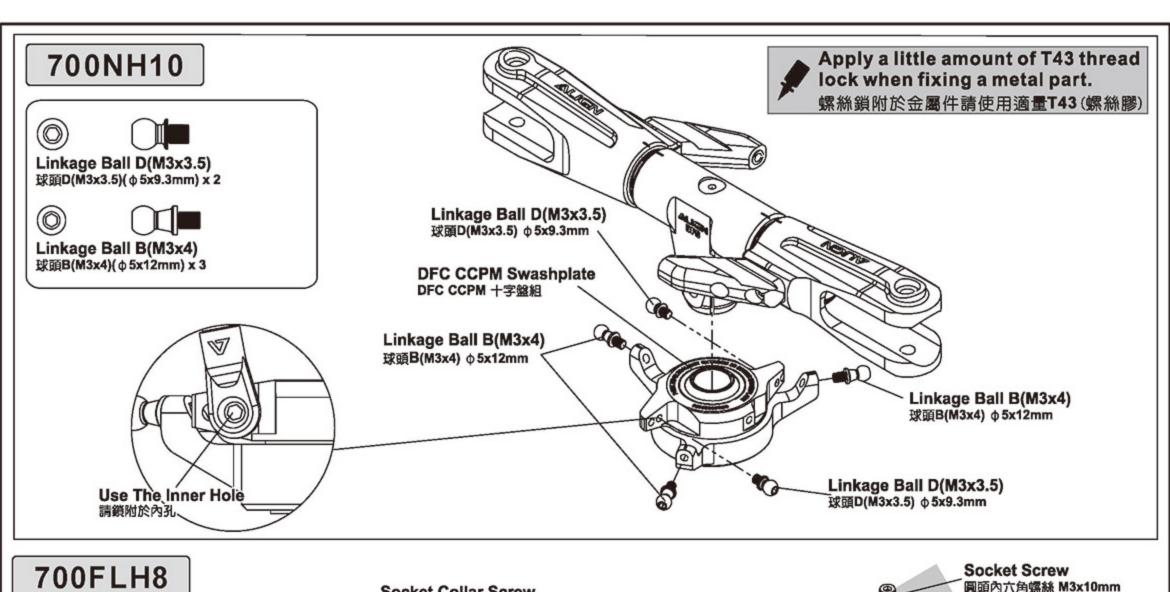
CAUTION 注意

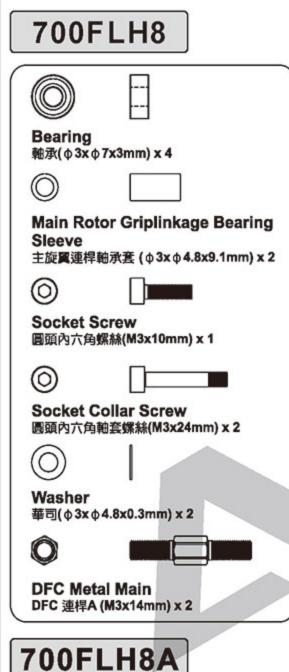
Already assembled by Factory. Before flying, please check if the screws are fixed with glue. 原敵組裝完成品,每一次飛行前請先 確認螺絲是否已上膠不會鬆動。 Thrust bearing and washer for radial bearing are wear items, and thus should be inspected for replacement after every 20 flights. For flights with high headspeed, the inspection interval should be reduced to ensure flight safety.

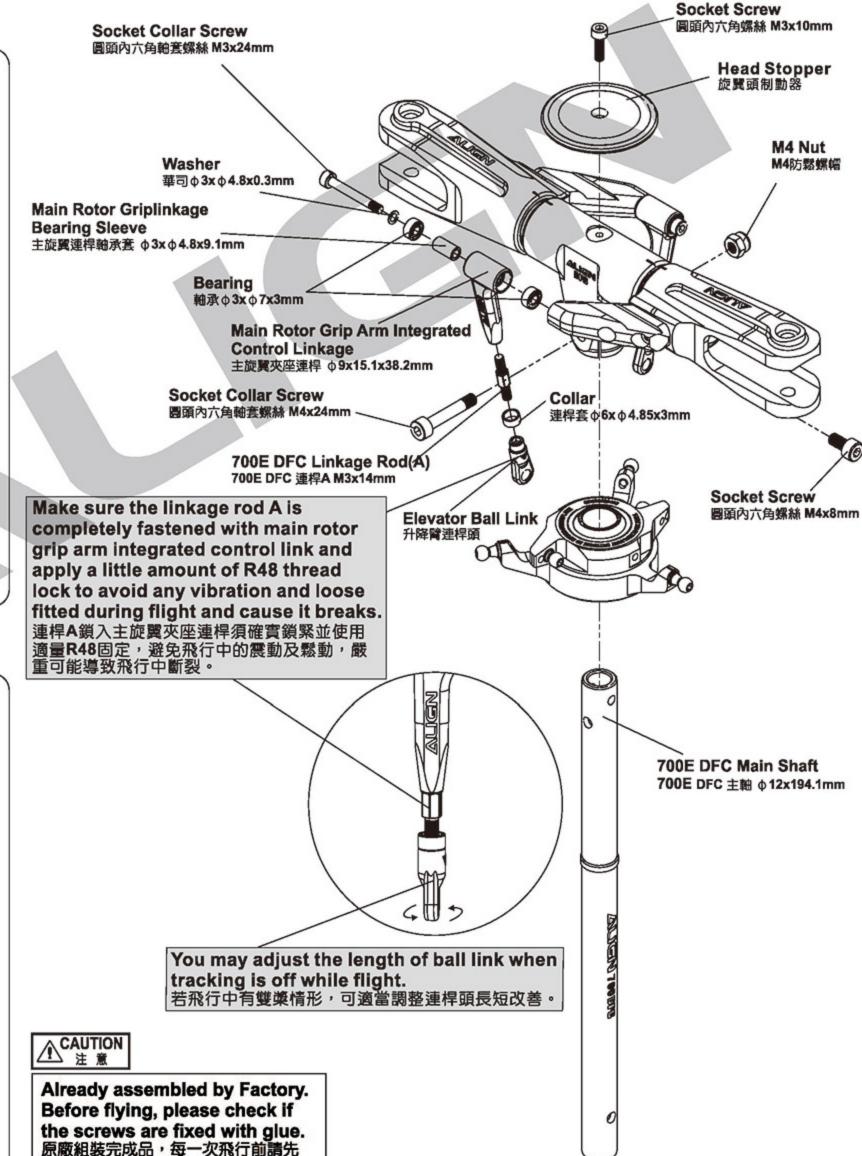
止推軸承及橫軸墊圈屬於飛行消耗品,建議每 20趟定期檢查及更換,高主旋翼轉速飛行時, 請縮短定期檢查之趟數,以確保飛行安全。







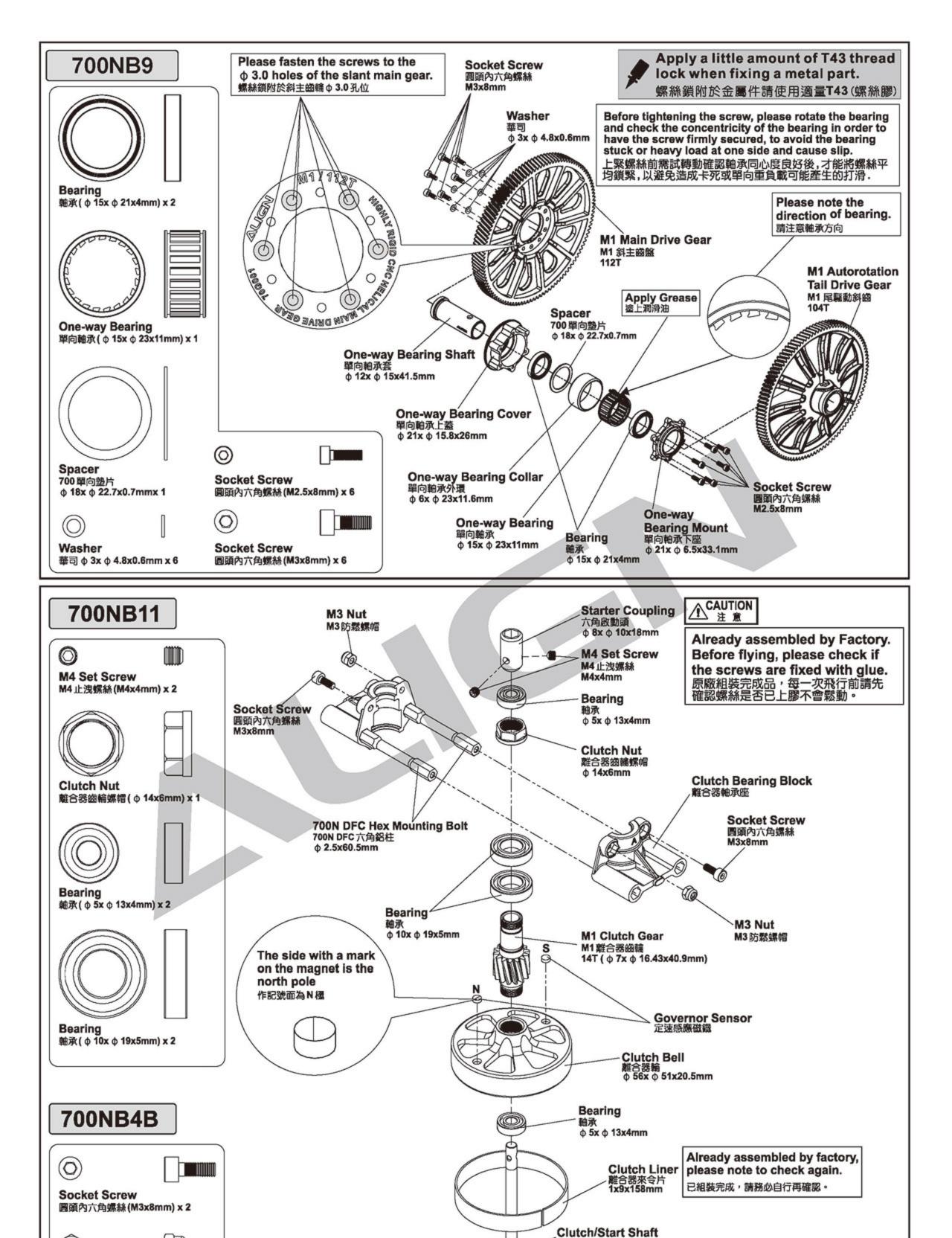




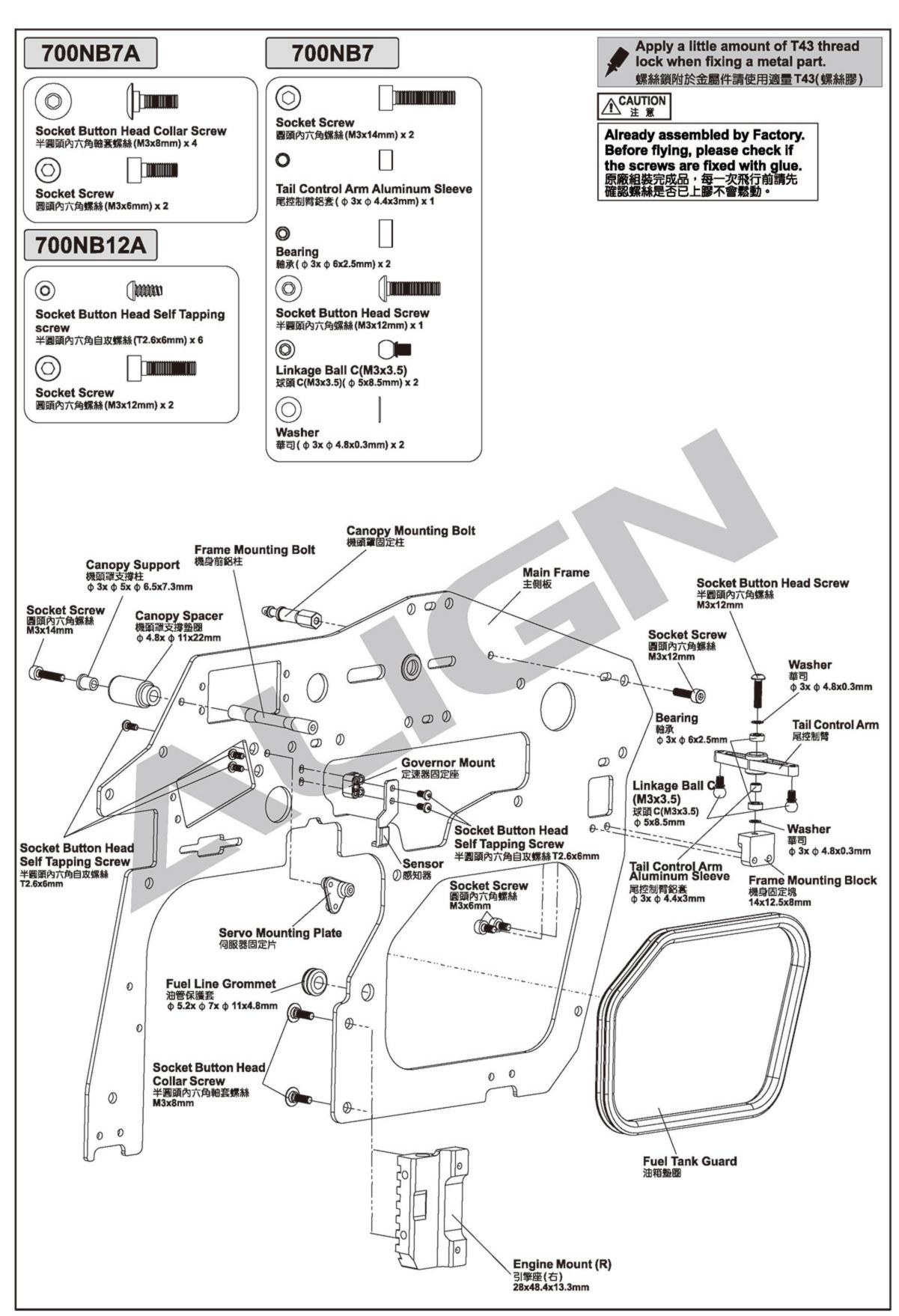
Elevator Ball Link

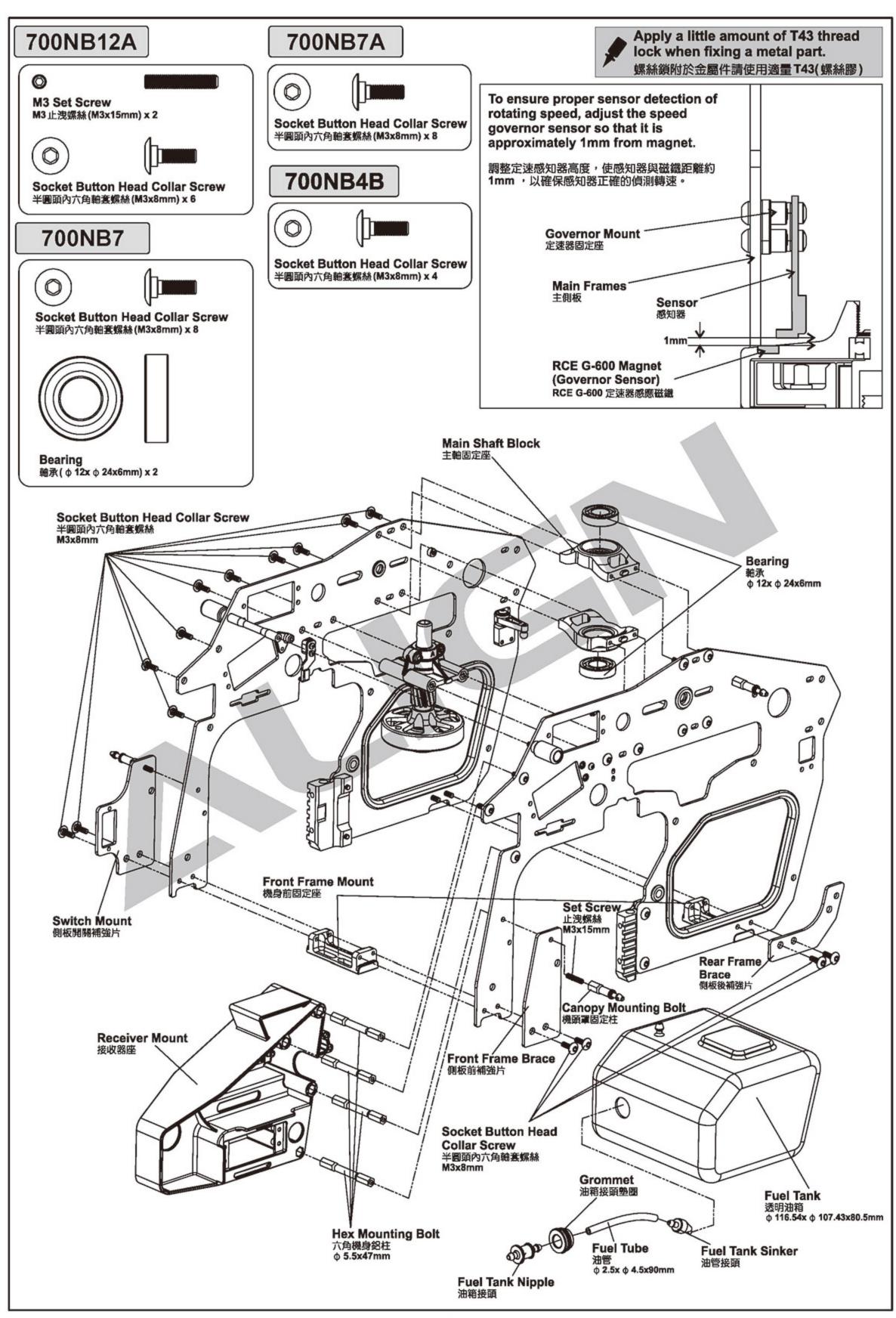
升降臂連桿頭 x 2

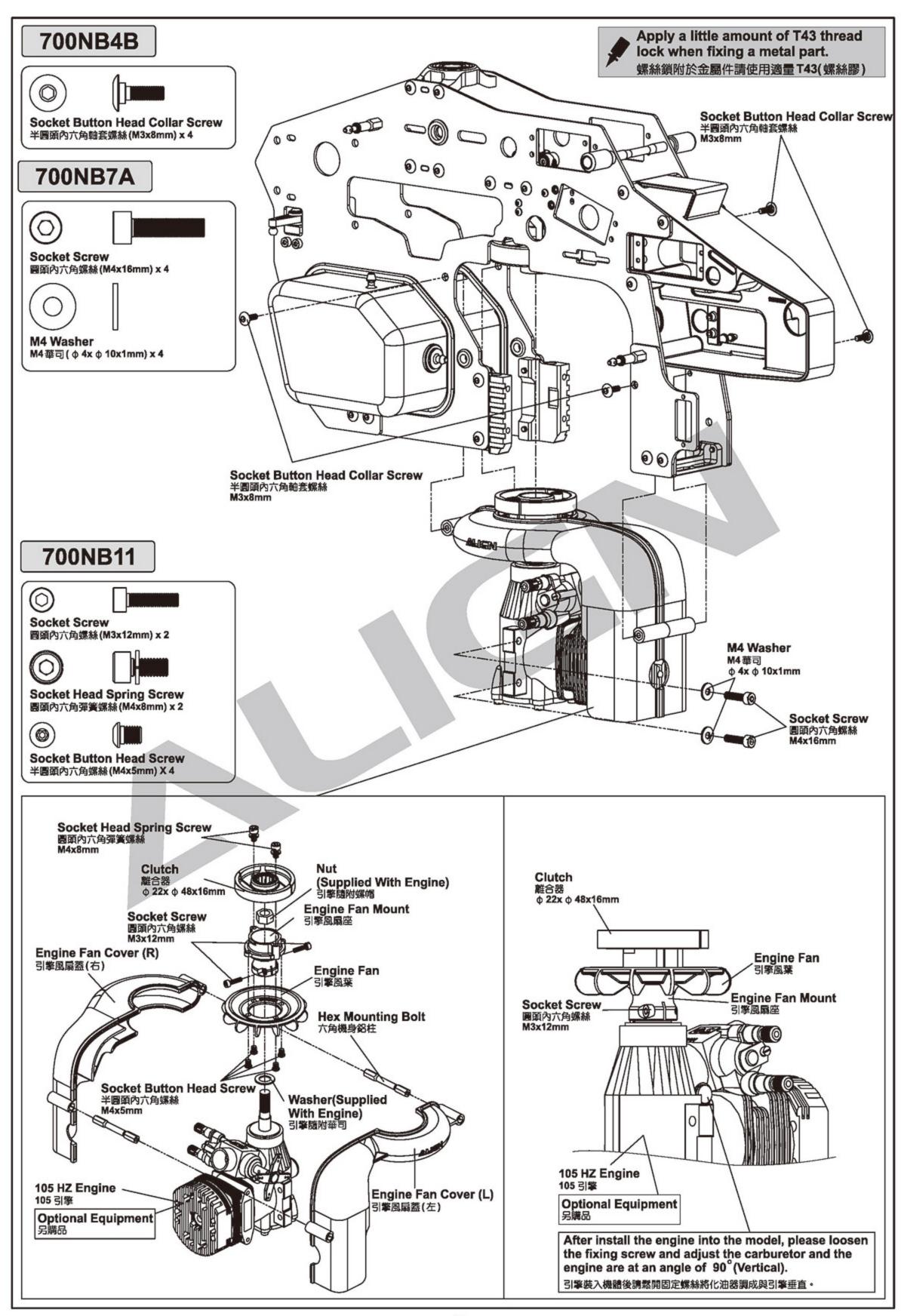
 (\circ)



M3 Nut M3防鬆螺帽 x 2 啟動軸 Ф 12x Ф 5x82mm

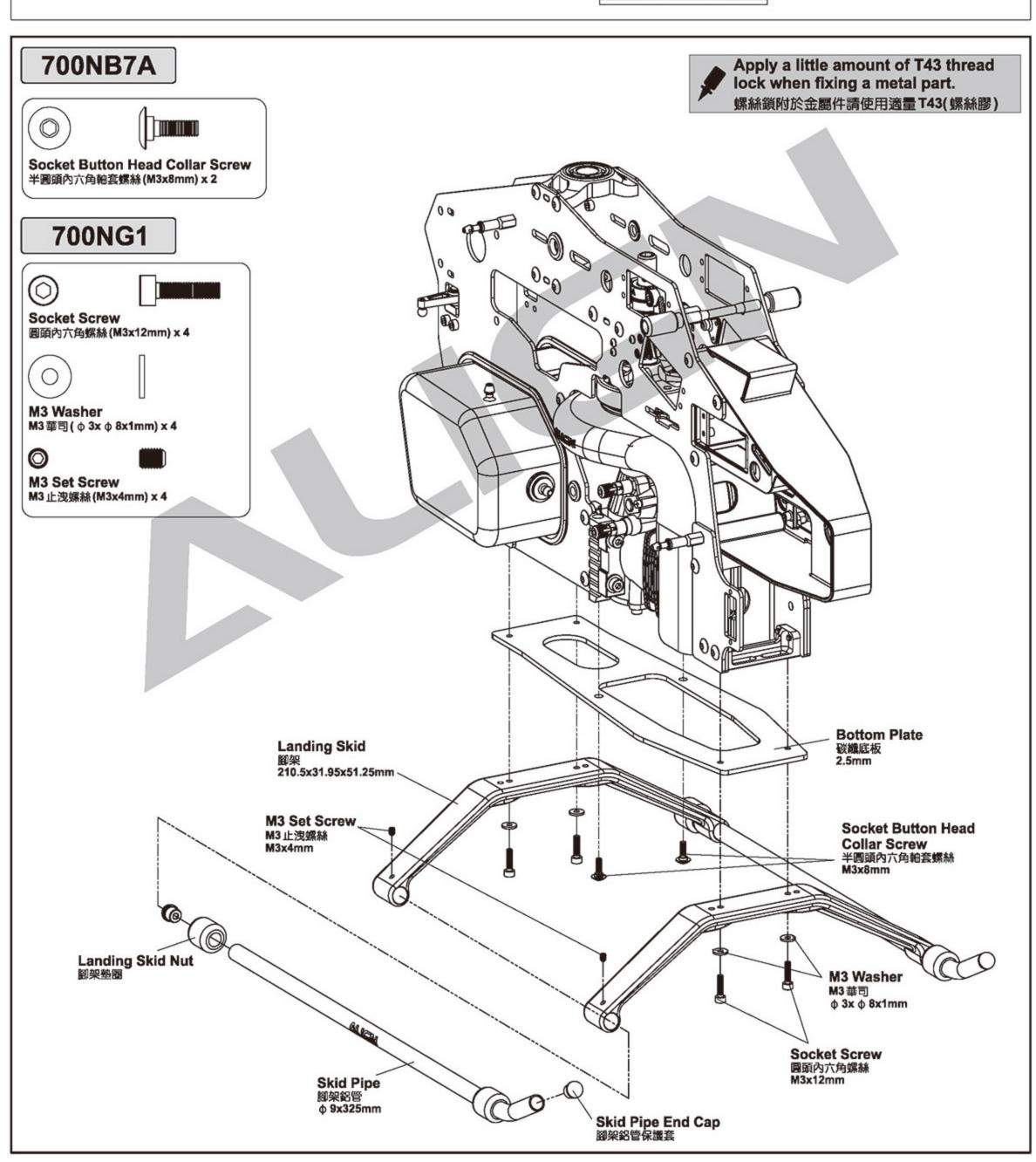


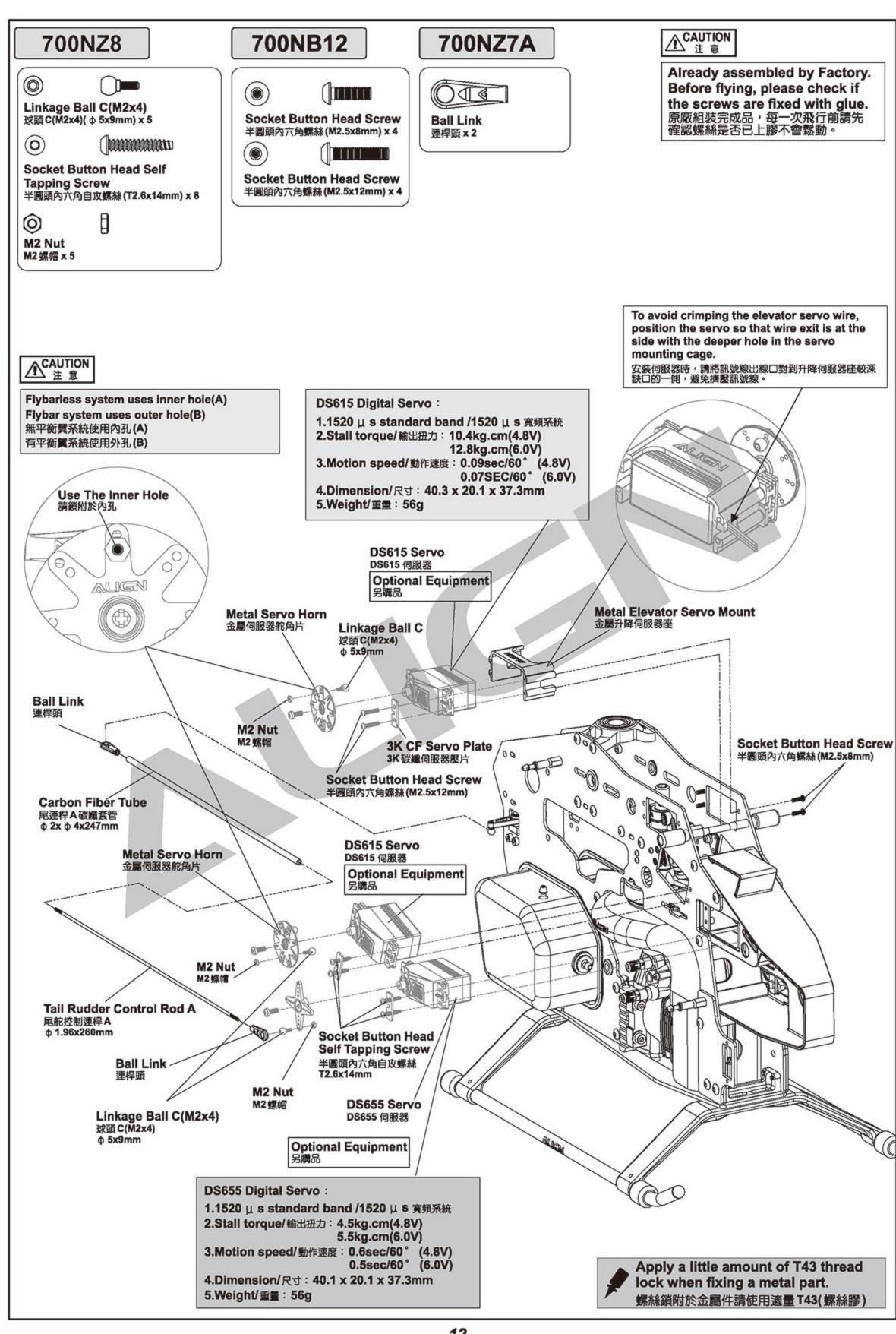


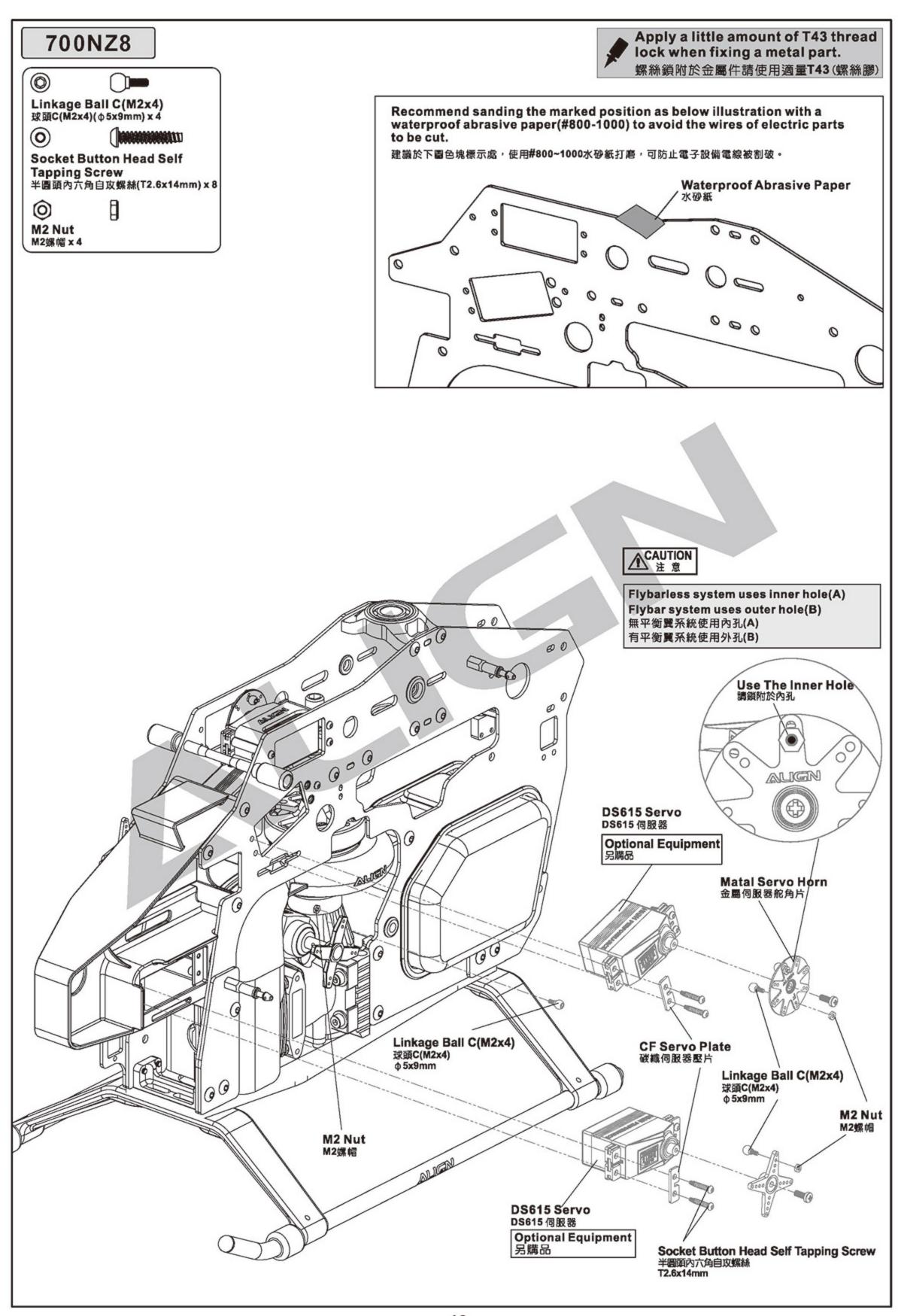


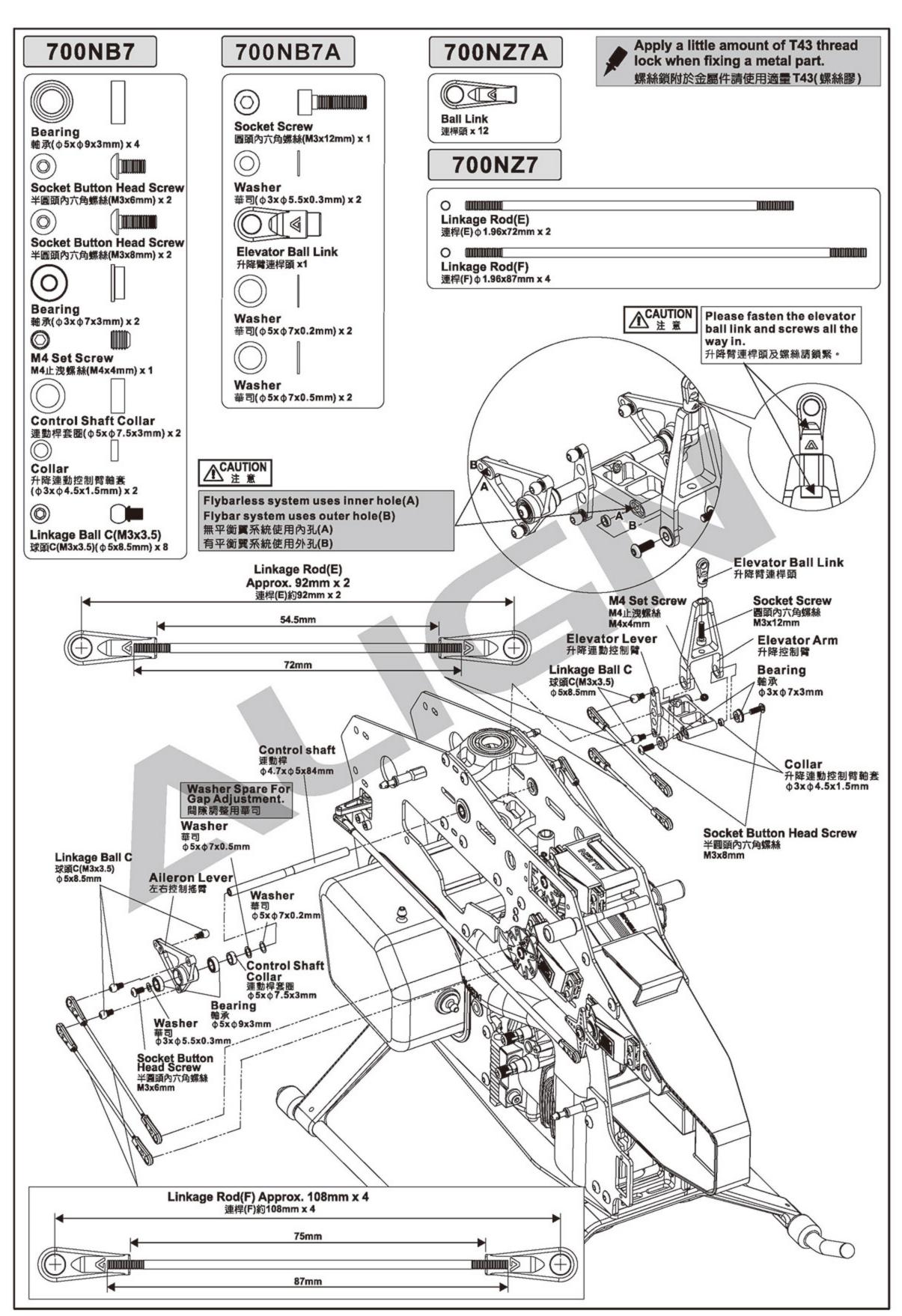


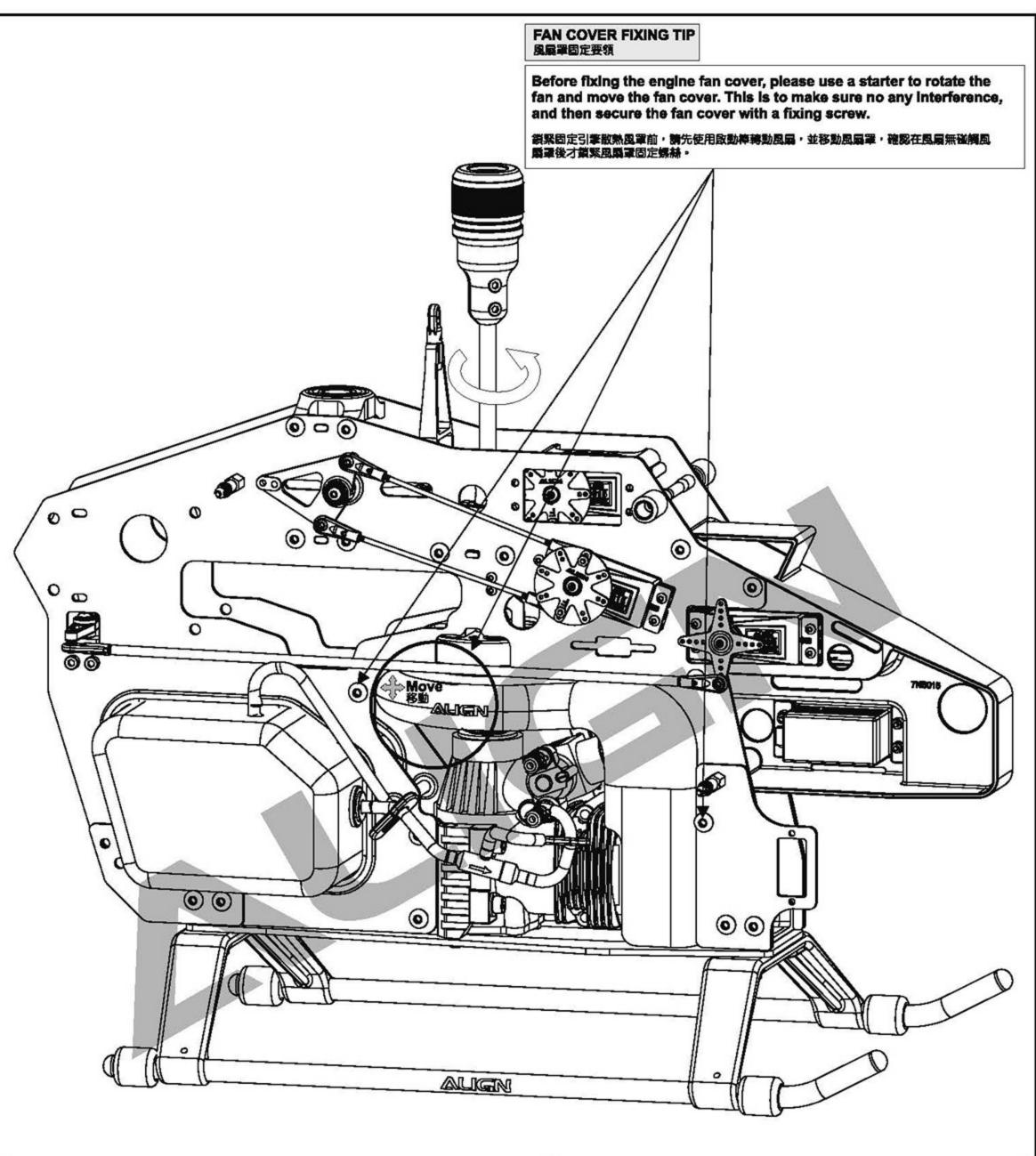
有顯著幫助。

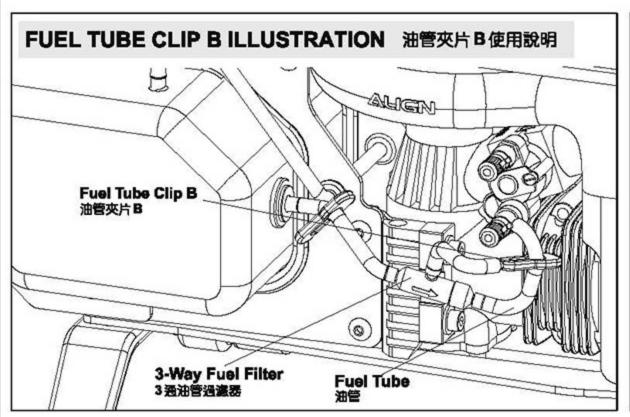


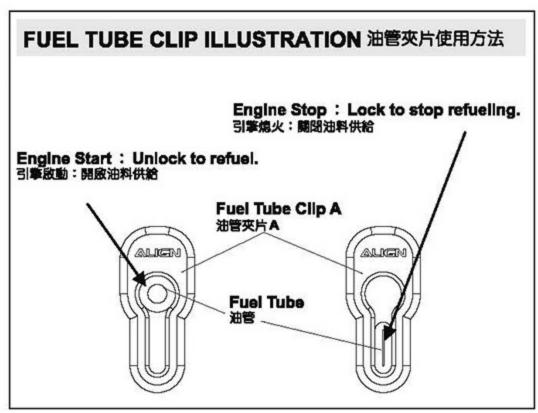


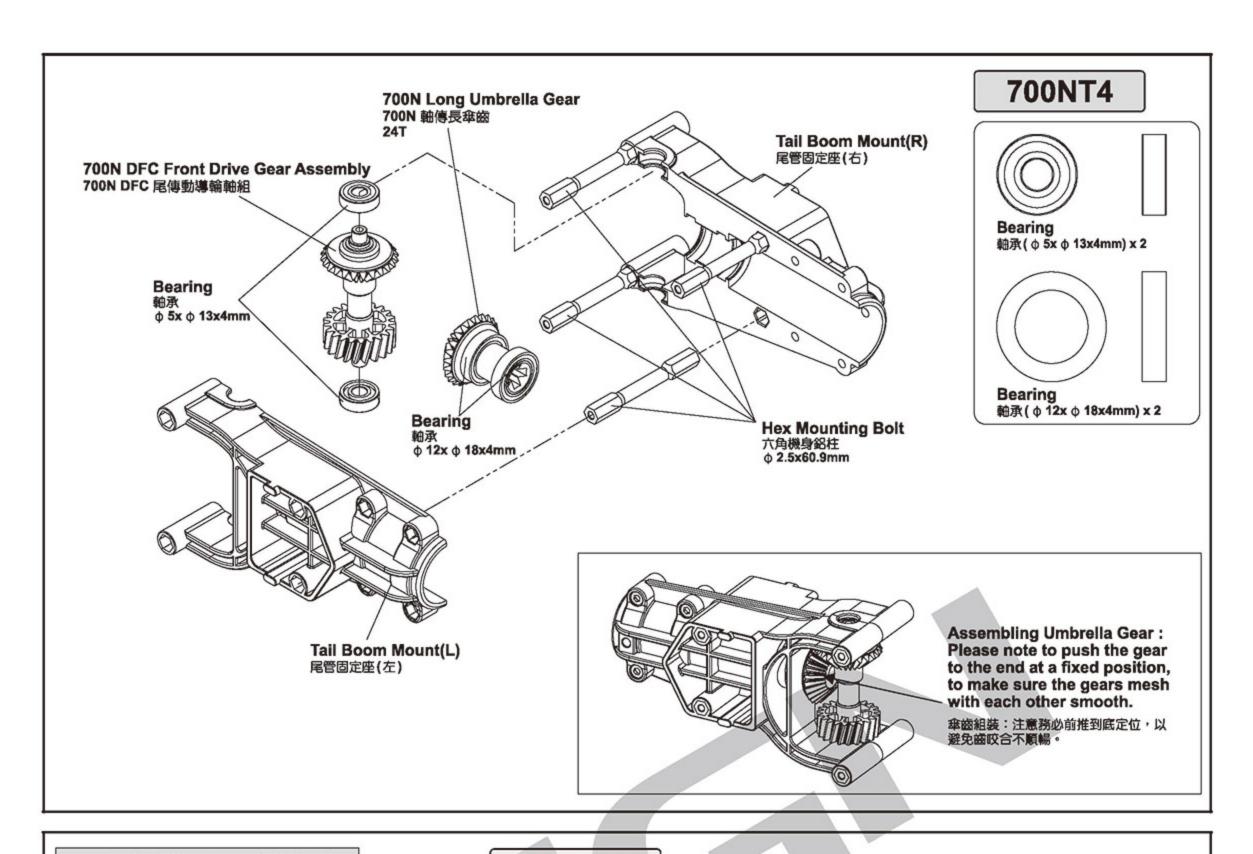


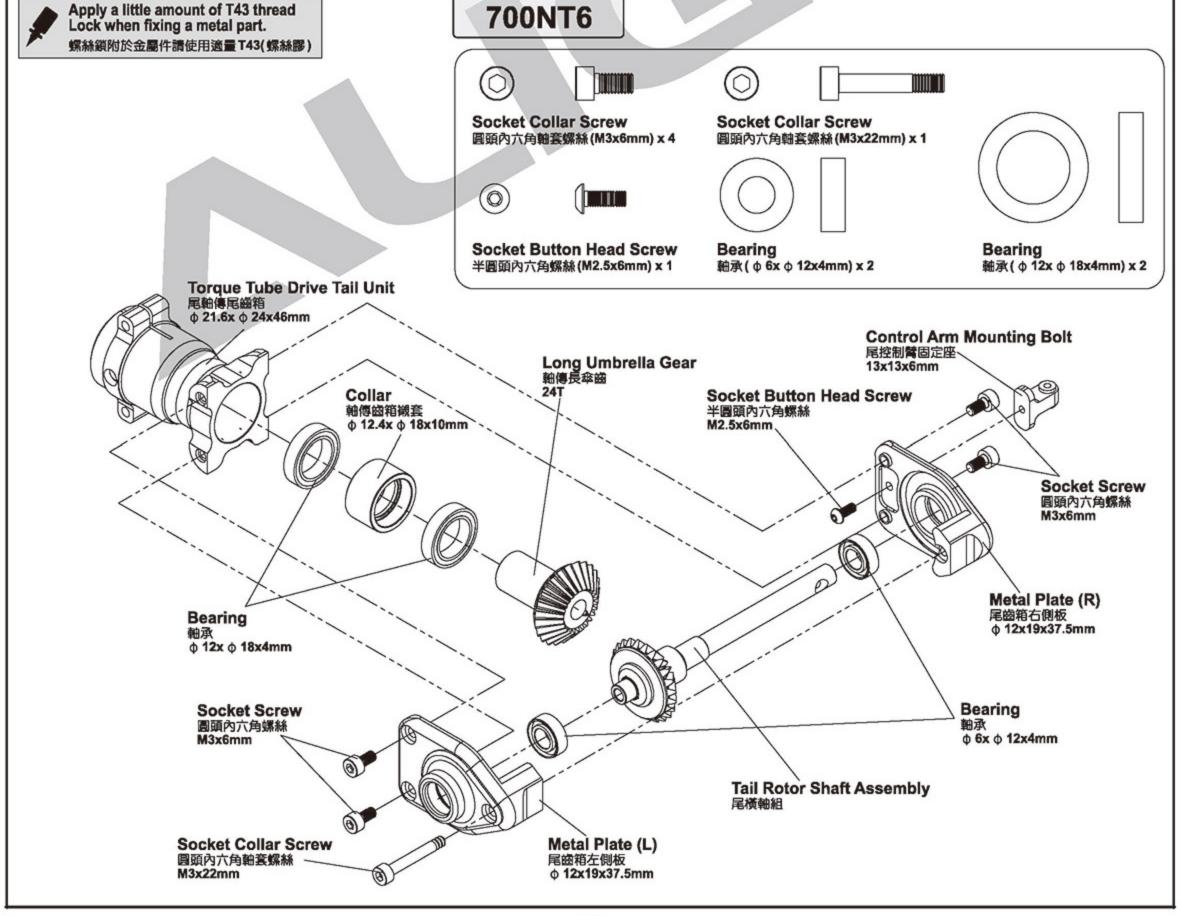


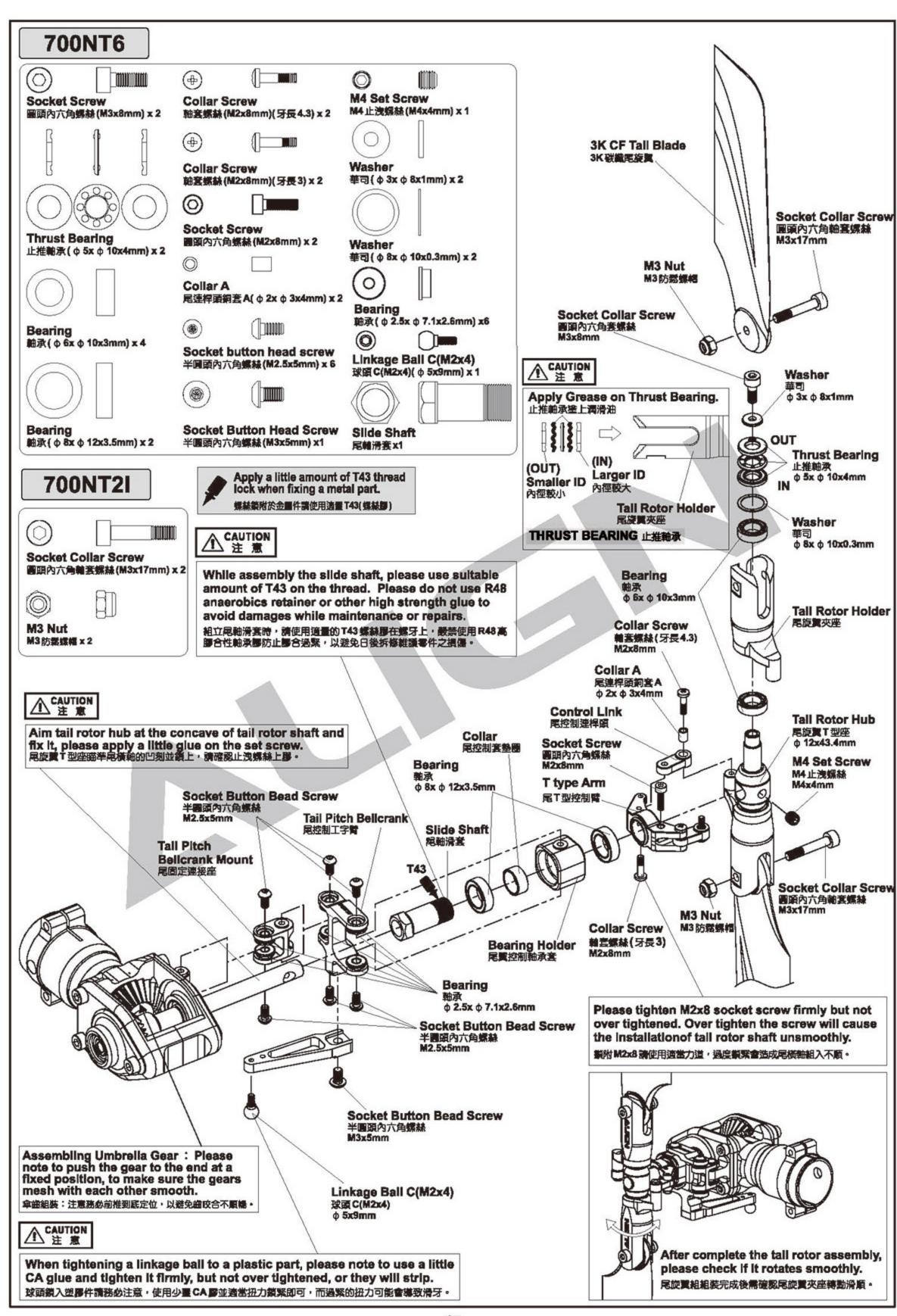


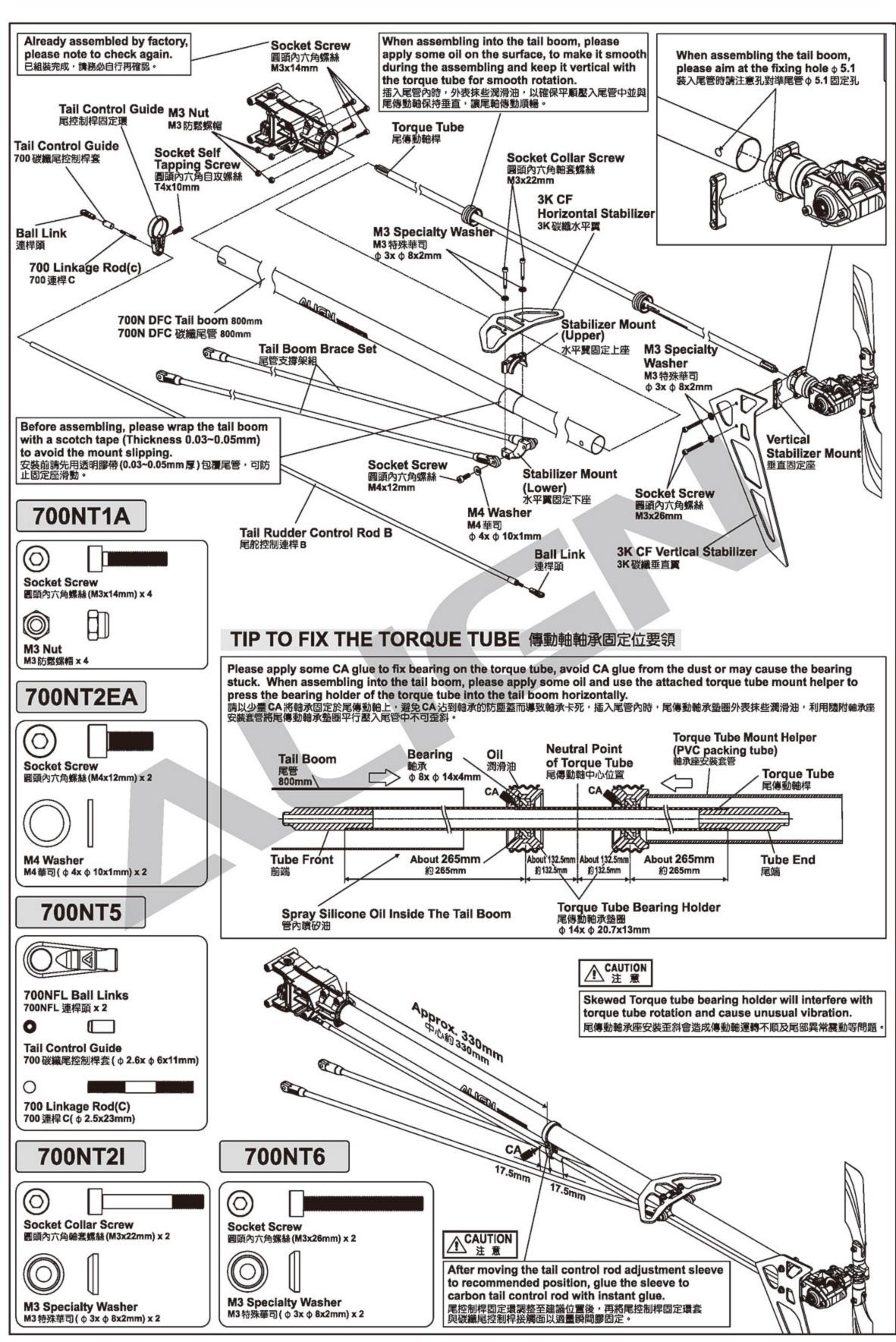


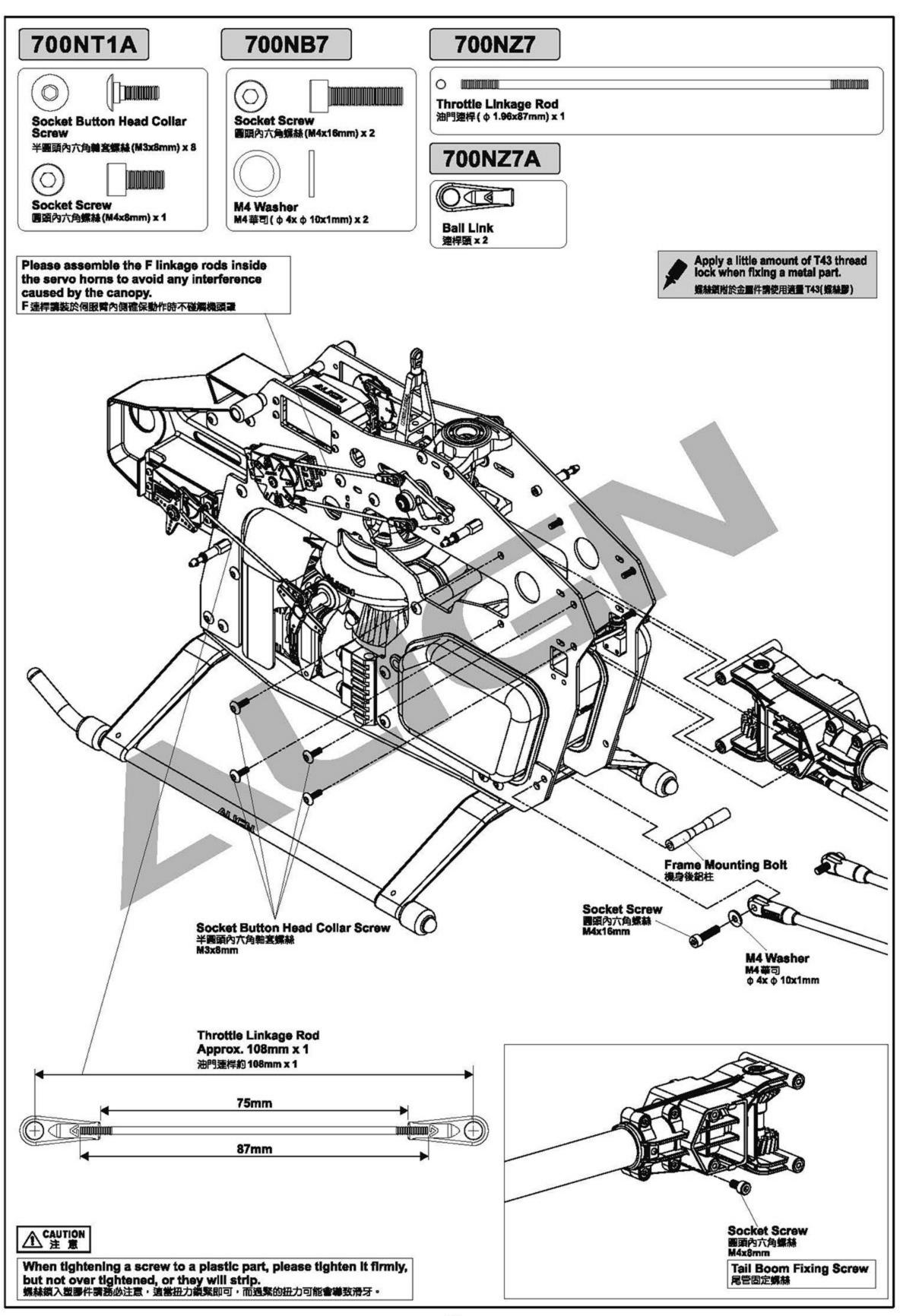


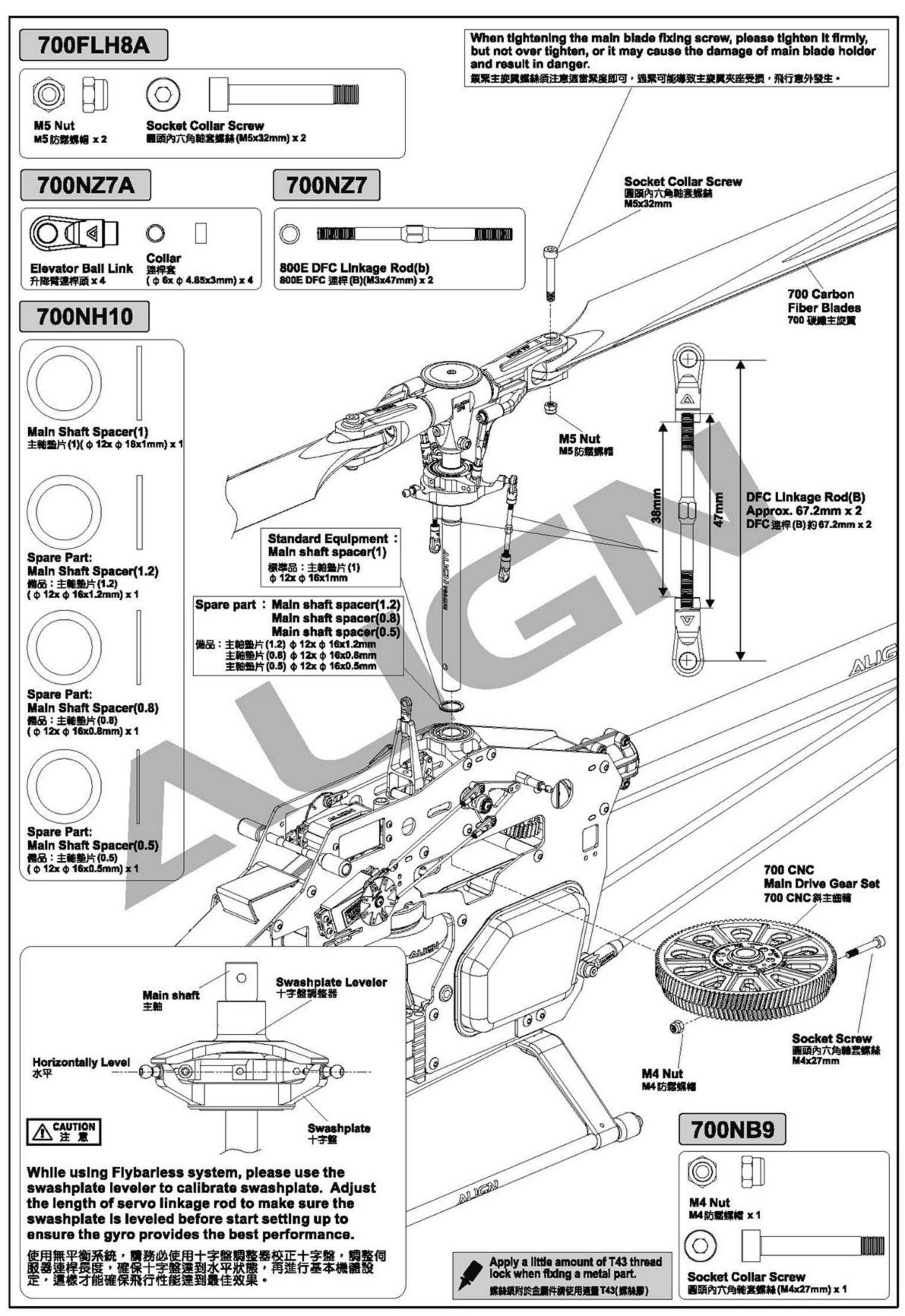


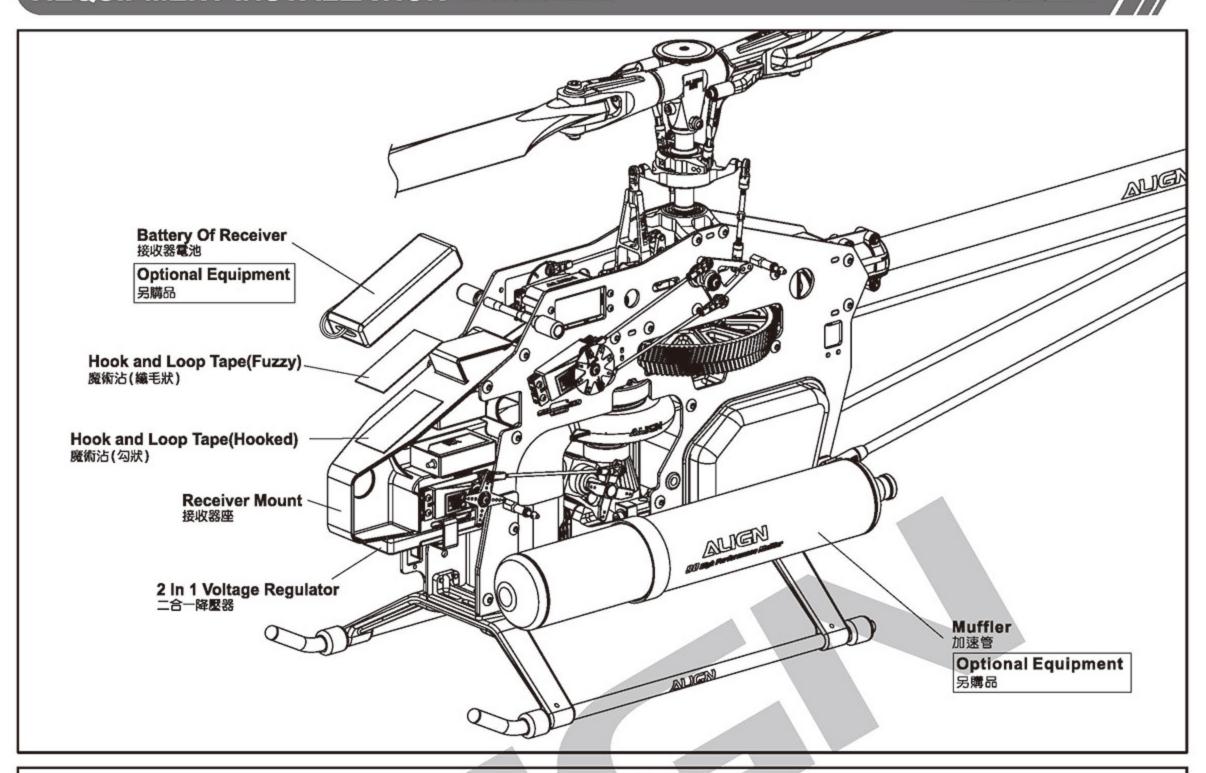


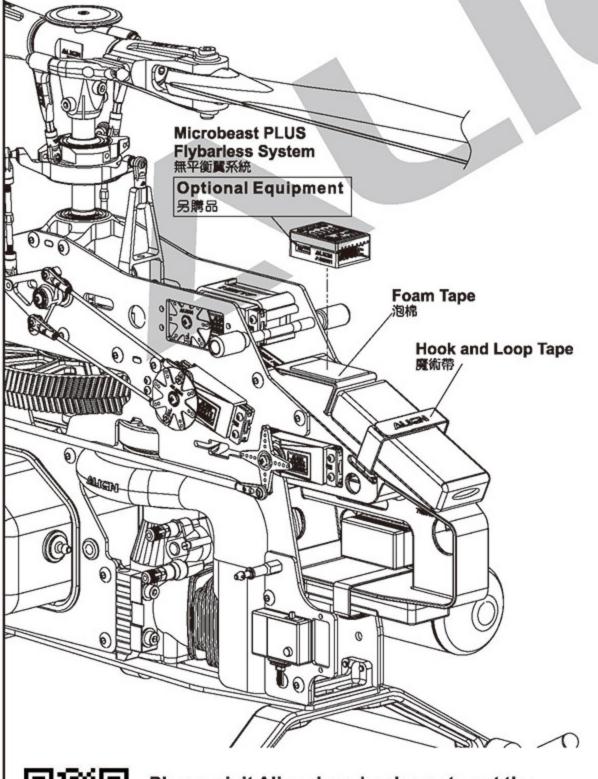












Please visit Align download area to get the completed instruction manual at Align website.

更多詳細的設定操作說明請至官網下載專區下載。 http://www.align.com.tw/beastx/

CAUTION 注意

A MOUNTING ORIENTATION OF MICROBEAST PLUS MICROBEAST PLUS的安裝方向

The Microbeast PLUS unit can be mounted in nearly all possible orientations. The only restriction is that the plug connectors have to point in or against flying direction and the egdes of the unit must be parallel to the rotation axis.

You have to choose whether MICROBEAST PLUS is mounted horizontally (printed surface 90 degrees to the main shaft) or vertically (printed surface in parallel with the main shaft).

Microbeast PLUS可以安裝在機體的任何位置。唯一的限制是接線口必須和飛行方向一致。

您可以選擇水平安裝(印刷面與主軸呈垂直**90**度)、或垂直安裝 (印刷面與主軸呈平行)。

THE COLOR OF THE STATUS-LED SHOWS THE CURRENTLY SELECTED ORIENTATION:

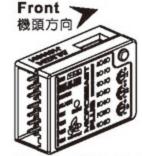
LED指示燈狀態顯示安裝方向:

Status-LED	Mounting orientation	
Status-LED燈	安裝方向	
Blue	Horizontal (Flat)*	
藍色	水平(平)*	
Red	Vertical(on The Side)	
紅色	垂直(側面)	

*Factory Setting *出廠預設値



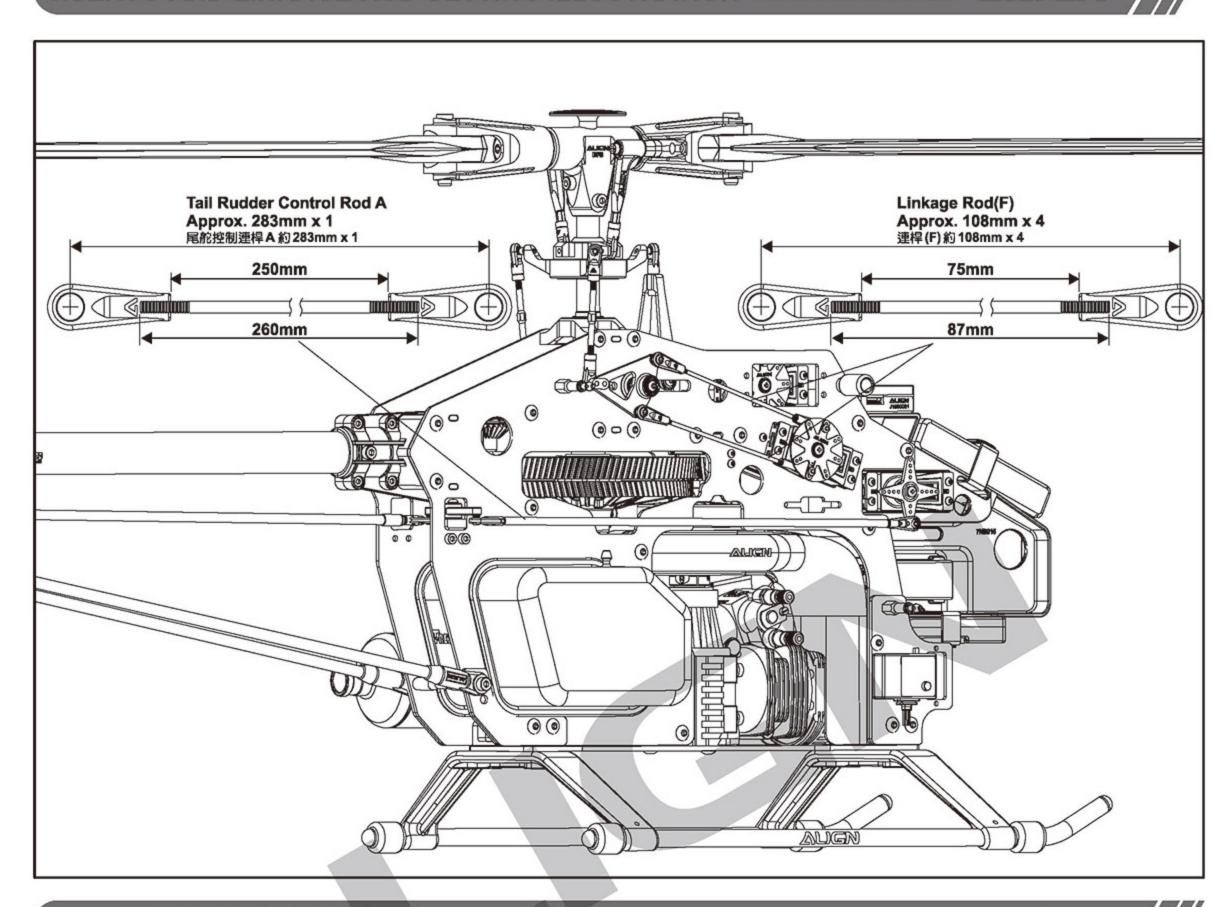




Status-LED: Red Status-LED燈: 紅色

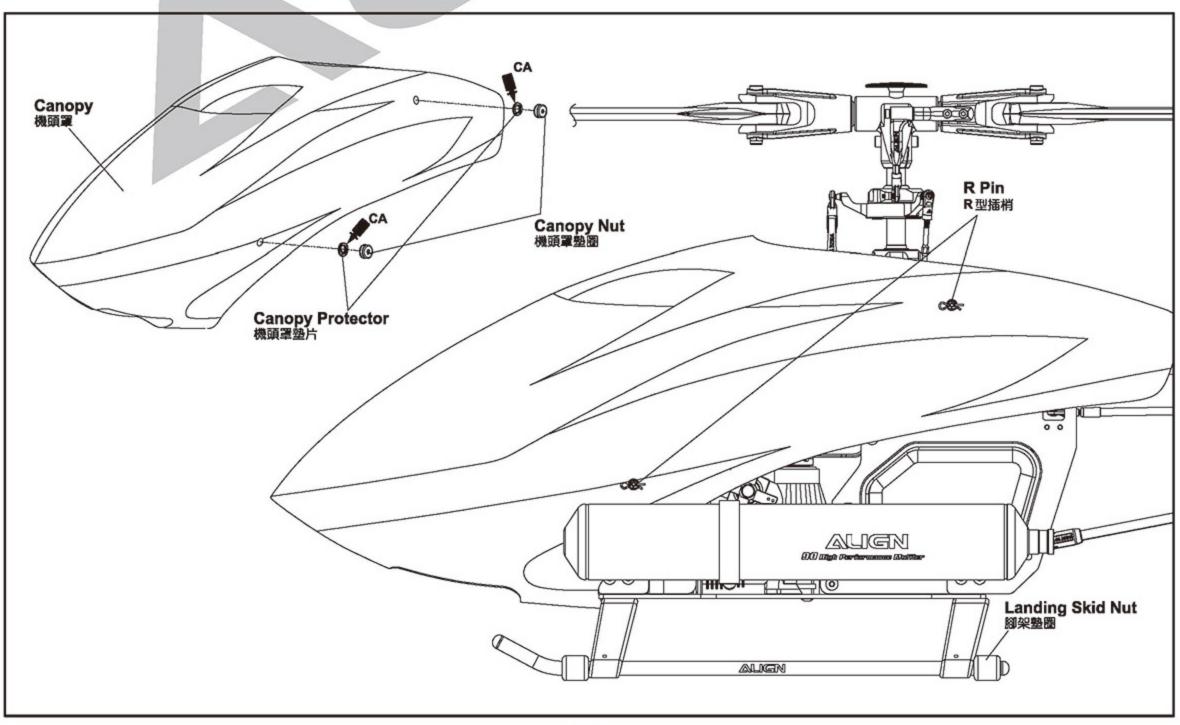
8.SERVO AND LINKAGE ROD SETTING ILLUSTRATION 伺服器與連桿設定視圖 **ムLIGN**

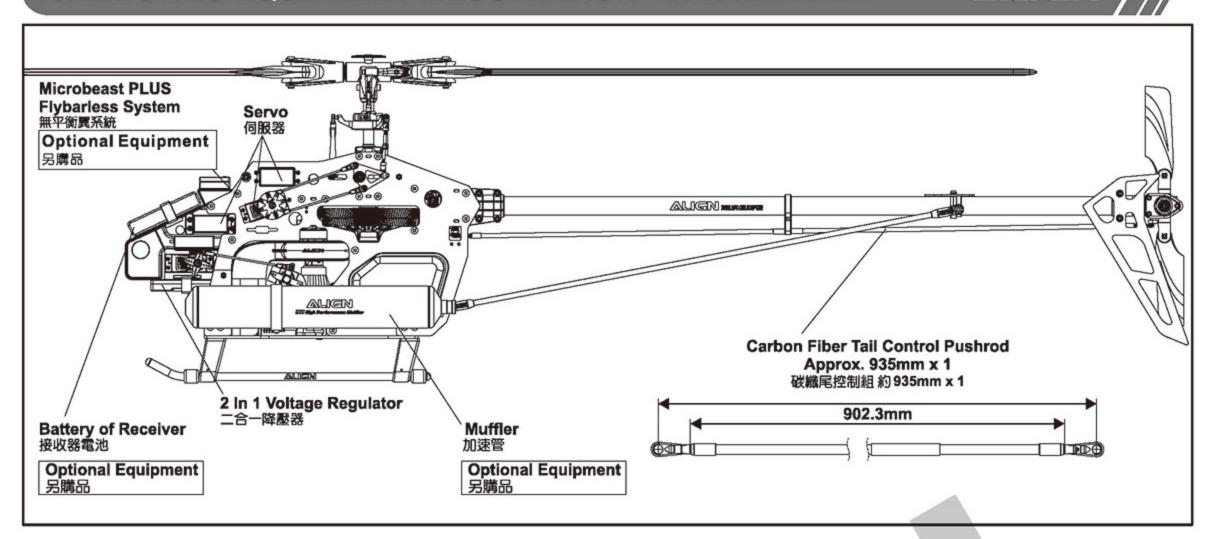




9.CANOPY ASSEMBLY 機頭罩安裝

ALIGN ///





11.MICROBEAST PLUS FLYBARLESS MANUAL 無平衡翼系統使用說明

ALIGN

ALIGN helicopter must equip with Flybarless System, please refer to ALIGN Helicopter standard equipment for flight and setup instruction in this manual.

ALIGN helicopter須搭配無平衡翼系統,請使用ALIGN直昇機標準配件與飛行操作、設定指示。

USER NOTICE 使用注意事項



- 1.If assembling and operating the helicopter without using ALIGN standard equipment, including electronic equipment & blades...etc, please make sure there is a sufficiently large and stable power supply to your helicopter. If any abnormal voltage or insufficient power supply, suggest to upgrade the flybarless system to MICROBEAST PLUS HD (Optional) for better power back up.
- 2.Please refer to BEASTX MICROBEAST PLUS/HD website for MICROBEAST PLUS/HD assembly and setup instruction.
- 3.Any over use, incorrect setup, assembly, modification or misuse will lead to abnormal voltage, electronic devices damage, structural interference, and insufficient power supply. Make sure to carefully check every assembly and setup refer to the manual instruction prior to every flight to prevent any unforeseen danger.
- 1. 安裝、操控您的直昇機時,如非使用ALIGN標準配件(含電子配件、主旋翼等),請務必確定您的供電系統有足夠的供電能力,如發現電壓異常、供電不足,建議您升級使用MICROBEAST PLUS HD無平衡翼系統(選配),以能確保充足、穩定的接收器電源。
- 2.MICROBEAST PLUS/HD使用、設定、接線,請參照 BEASTX MICROBEAST PLUS/HD官方說明。
- 3.任何電子配件、零件的設定、組裝、修改或操作不良所造成的電壓異常、電子零件損壞,即可能造成供電不穩定等問題,每趟飛行前須注意仔細檢查,防止機件及電子零件故障而引發不可預期的意外。

MANUAL LINK 設定操作連結

If you use MICROBEAST PLUS Flybarless System for ALIGN helicopter, make sure to update to the latest version and news. Please refer to V3.2.x and V4.1.5 instruction manual for operating and setting. Or you can also link to BEASTX MICROBEAST PLUS/HD website for more information.

提醒您,若使用MICROBEAST PLUS無平衡翼系統時,請務必隨時更新最新版本及各項最新訊息。操作設定請同時參照V3.2.x版及V4.1.5版使用說明書。您也可以連結至BEASTX MICROBEAST PLUS/HD官網查詢。



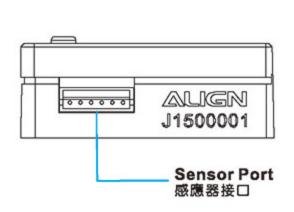
Please visit Align download area to get the completed instruction manual at Align website.

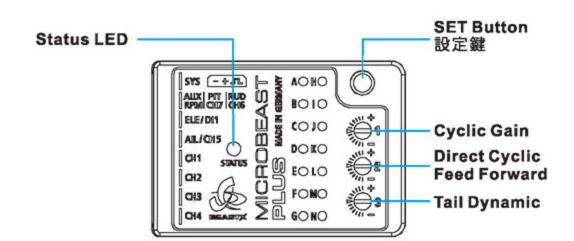
更多詳細的設定操作說明請至官網下載專區下載。 http://www.align.com.tw/beastx/



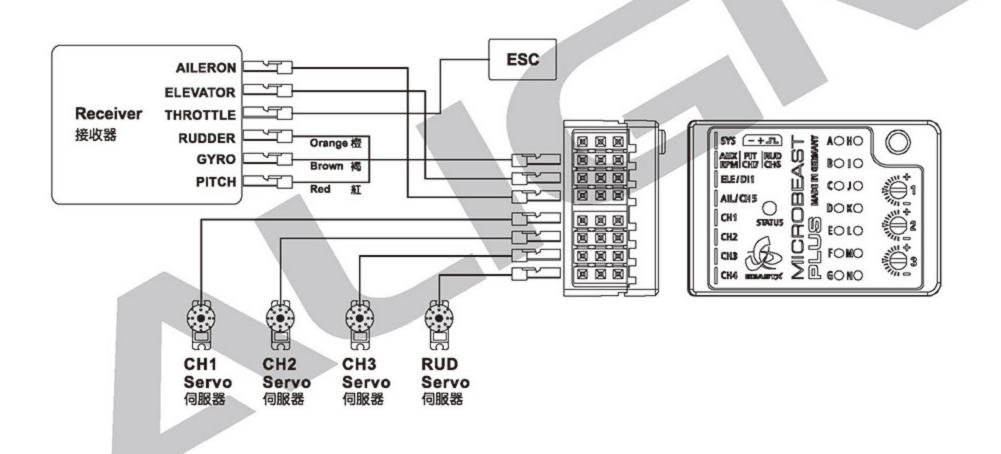
PARTS IDENTIFICATION 各部位名稱

MICROBEAST PLUS FLYBARLESS SYSTEM 無平衡翼系統





MICROBEAST PLUS FLYBARLESS SYSTEM WIRING DIAGRAM 無平衡翼系統接示意圖





For detail connectivity, please scan QR Code then follow MICROBEAST PLUS manual.

詳細接線方式,請掃描QR Code 連結至MICROBEAST PLUS說明書。

企AUTION 注意



MICROBEAST PLUS HD Flybarless System(Optional) MICROBEAST PLUS HD無平衡翼系統(選配)

If assembling and operating the helicopter without using ALIGN standard equipment, including electronic equipment & blades...etc, please make sure there is a sufficiently large and stable power supply to your helicopter. If any abnormal voltage or insufficient power supply, suggest to upgrade the flybarless system to MICROBEAST PLUS HD (Optional) for better power back up. Please refer to BEASTX website for MICROBEAST PLUS HD assembly and setup instruction.

安裝、操控您的直昇機時,如非使用 ALIGN 標準配件 (含電子配件、主旋翼等),請務必確定您的供電系統有足夠的供電能力,如發現電壓異常、供電不足,建議您升級使用 MICROBEAST PLUS HD 無平衡翼系統 (選配),以能確保充足、穩定的接收器電源。MICROBEAST PLUS HD 使用、設定、接線,請參照 MICROBEAST PLUS HD 官方說明。



To set this option is to turn on the transmitter and connect to BEC power.

Note: For the safety, please do not connect ESC to the brushless motor before the setting in order to prevent any accident caused by the motor running during the setting.

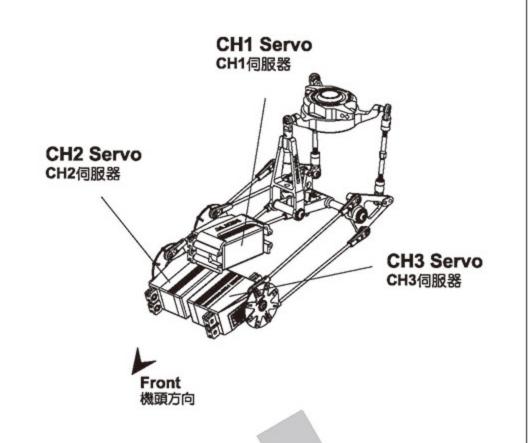
此項設定只要開啟發射器,接上BEC電源即可進行操作。

注意: 為了安全起見,設定前請先不要將無刷調速器與無刷馬達三條線接上,以免調整時啟動馬達而發生危險。

SERVO CONFIGURATION 伺服器配置

Following the servo configuration diagram on right, plug the servos to Gyro.

請依照右圖圖示的伺服器名稱,將伺服器接到陀螺儀。



13.ADJUSTMENTS FOR GYRO AND TAIL NEUTRAL SETTING 陀螺儀與尾翼中立點設定調整 🕰 LICEN

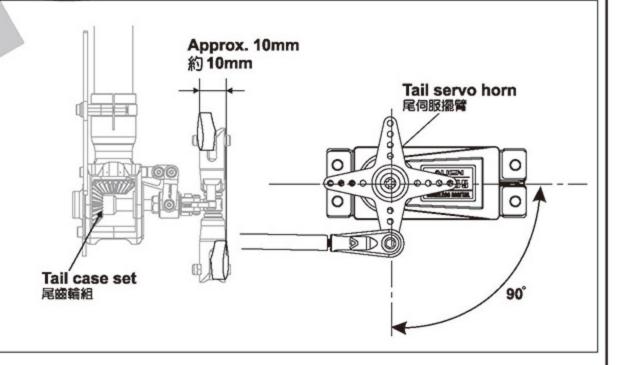
Turn off Revolution mixing(RVMX) mode on the transmitter, then set the gain switch on the transmitter and the gyro to non-Head lock mode, or disable gain completely. After setting the transmitter, connect the helicopter power and proceed with rudder neutral point setting. Note: When connecting to the helicopter power, please do not touch tail rudder stick and the helicopter, wait for 3 seconds for gyro to enable, and the rudder servo horn should be 90 degrees to the tail servo. Tail pitch slider should be half way on the tail output shaft. This will be the standard rudder neutral point. After completing this setting, set the gain switch back to heading lock mode, with gain at around 70%.

發射器內陀螺儀設定請關閉根軸混控模式,並將發射器上的感度開關與陀螺儀切至"非鎖定模式"或將陀螺儀感度關閉。發射器設定完成後接上直昇機電源,即可進行尾舵中立點設置。注意:當接上直昇機電源時請勿撥動尾舵搖桿或碰觸機體,待3秒陀螺儀開機完成後,尾伺服臂需與尾伺服器約成90度,尾旋翼控制組須正確置於尾橫軸約中間位置,即為標準尾舵中立點設定,設定完成後,切換至"鎖定模式",感度設約70%左右。

TAIL NEUTRAL SETTING 尾中立點設定

After the gyro is enable and under non-Head lock mode, correct setting position of tail servo and tail pitch assembly is as photo. If the tail pitch assembly is not in the middle position, please adjust the length of rudder control rod to trim.

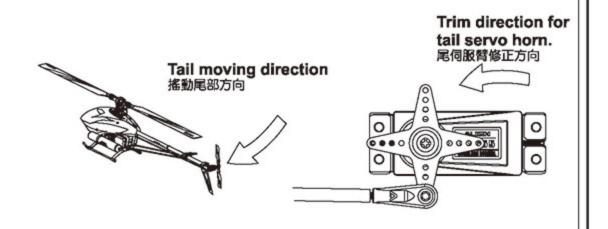
陀螺儀開機後,在非鎖定模式下,尾伺服器與尾 Pitch控制組正確擺置位置。若尾 Pitch控制組未置中時請調整尾控制連桿的長度來修正。



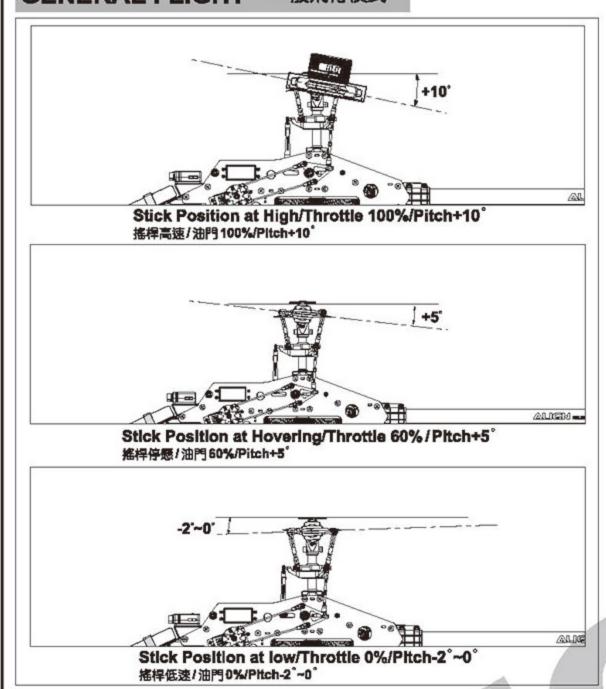
HEAD LOCK DIRECTION SETTING OF GYRO 陀螺儀鎖定方向設定

To check the head lock direction of gyro is to move the tail clockwise and the tail servo horn will be trimmed counterclockwise. If it trims in the reverse direction, please switch the gyro to "REVERSE".

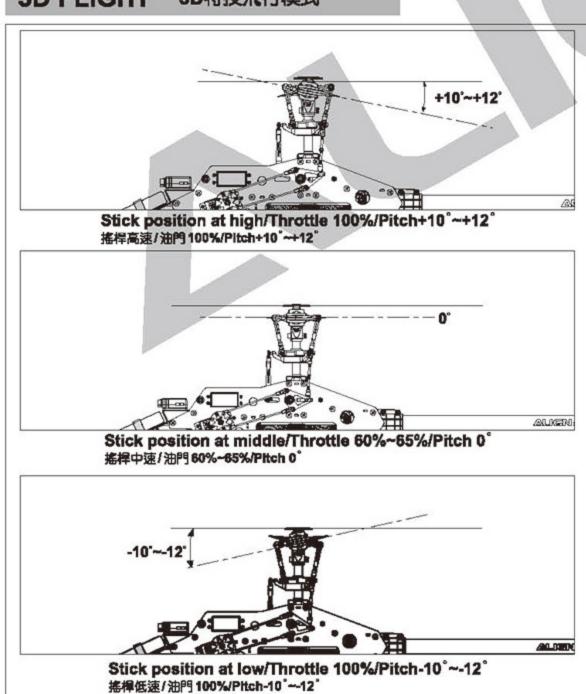
陀螺儀鎖定方向確認,當手搖尾部順時鐘擺動,尾伺服臂應反時鐘修 正,反向時請切換陀螺儀上"鎖定反向"開關修正。



GENERAL FLIGHT 一般飛行模式



3D FLIGHT 3D特技飛行模式



▲ CAUTION 注意

1.Pitch range : Approx ± 15 degrees.

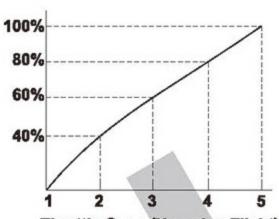
2.Hint : Do not exceed \pm 14 degrees pitch range. Doing so may cause motor overload and binding of certain head components.

1. 螺距 (Pitch) 總行程約 ± 15°

2.建議:螺距設定勿超過±14°,過大螺距設定,可能導致引擎過載及旋翼頭旋轉干涉。

GENERAL FLIGHT 一般飛行模式

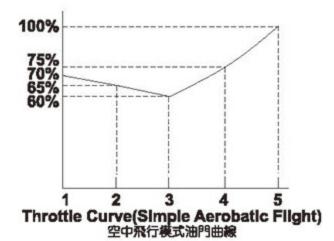
Throttle 油門		Pltch 螺距
5	100%High Speed 100%高速	+10°
4	80%	
3	60%Hovering 60%停懸	+5"
2	40%	
1	0% Low Speed 0% 低速	-2'~0'



Throttle Curve(Hovering Flight) 停懸模式油門曲線

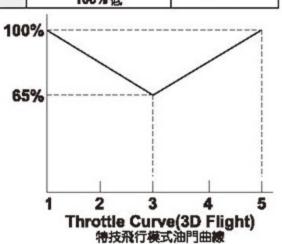
IDLE 1 : SPORT FLIGHT

Throttle 油門		Pitch 螺距	
5	100%	+10*~+12*	
4	75%		
3	60%	+5"	
2	65%	52 0	
1	70%	-5°	

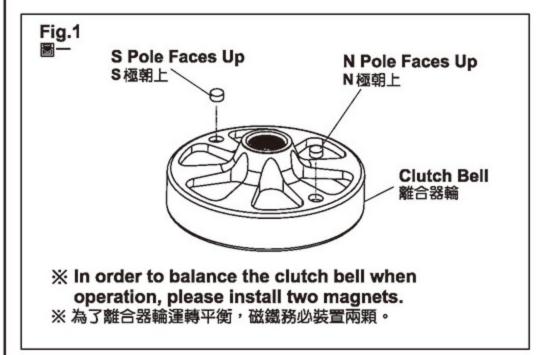


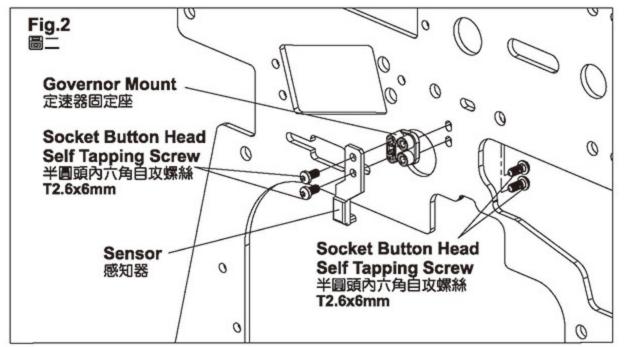
IDLE 2: 3D FLIGHT

	The state	Para J.
Throttle 油門		Pitch 螺距
5	100% High 100%高	+10'~+12'
3	60%~65% Middle 60%~65% 中	0°
1	100% Low	-10'~-12'



INSTRUCTION 安裝使用說明





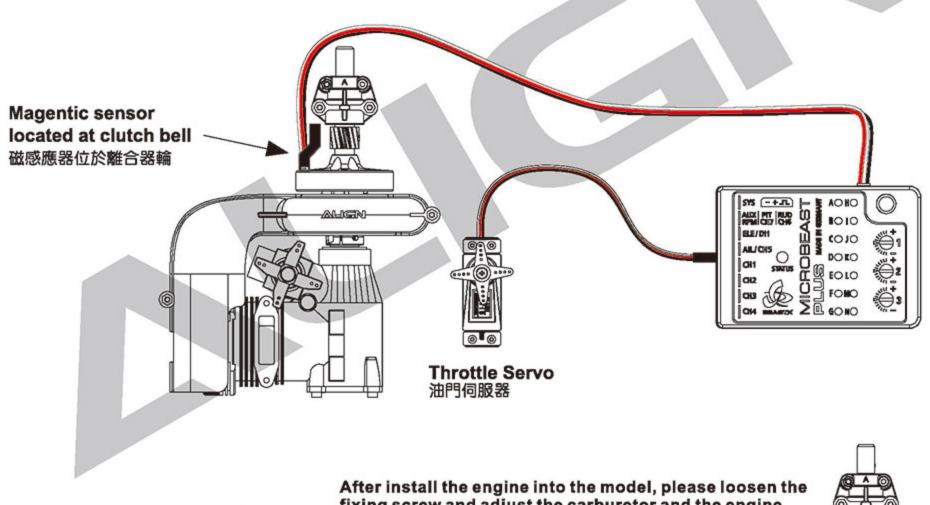
NOTE: The safty RPM is up to 16000rpm for OS90 engine.

註: OS90引擎安全轉速上限16000rpm。

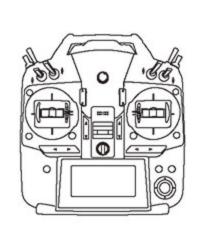
↑CAUTION 注意

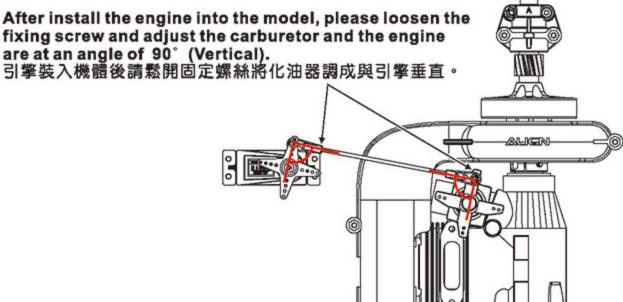
Combustion Drive System (Nitro/Gas), Particularly when using sensors for combustion engines check for correct polarity of the sensor power supply on the adapter cable.

燃燒驅動系統(引擎),當感應器使用在引擎直昇機時,請特別注意感應器電源供應與連接線的極性是否正確。



Throttle at mid stick position 油門遙桿在中間







For transmitter throttle curve setup, please refer to Microbeast PLUS (V4.x.x) manual, Nitro Mode setup on page 30.

Manual download: http://www.align.com.tw/manuals/flybarless/

遙控器的油門曲線數據,請參考 Microbeast PLUS 無平衡翼系統 (V4.x.x專用)說明書內第30頁/引擎模式調整,完整的說明書請至官網下載專區下載。

http://www.align.com.tw/manuals/flybarless/



FEATURES 功能說明

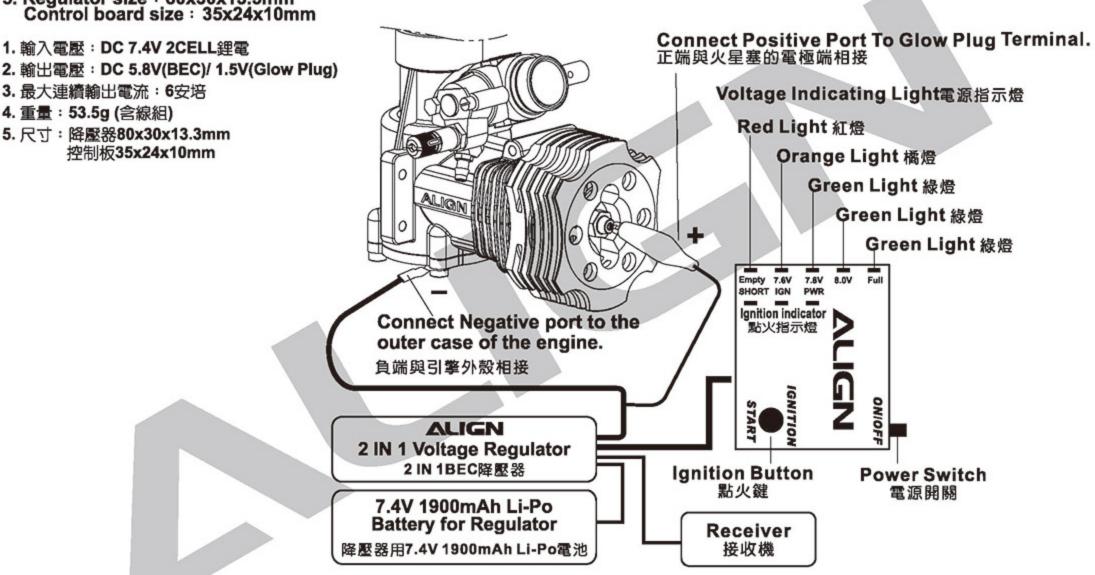
- 1. Due to the unique 2 in 1 design, the regulator's functions provide power to the receiver, servos, and the internal glow plug ignition system that does not require you to remove the clip lead.
- 2. The linear regulator design results in no interference to the receiver. The required input power may only consist of a 2 cell Li-ion or a Li-Poly battery.
- 3. When the integrated power switch is moved to the on position, the voltage indicating LED's and ignition indicating LED's will illuminate displaying thestatus of the battery voltage, and of the plug ignition function.
- 1.獨特的二合一設計,除了具備(BEC)降/穩壓系統,以提供接收器與伺服器電源的功能外,還內建一組火星塞的點火裝置,省去傳統電夾插拔的麻煩。
- 2.本產品採用線性設計,輸入電源為2CELL的Li-ion或Li-Poly電池,其優點為不會像交換式設計的BEC會產生干擾接收器的情形,免於摔機的恐懼。
- 3.具備電源開關、電壓指示燈及點火指示燈功能,可由燈號判定電池殘量與火星塞的點火狀態。

SPECIFICATIONS 產品規格/配件

1. Input Voltage: DC 7.4V 2 cell Lithium or Li-Poly battery

2. Output Voltage : DC 5.8V(BEC)/ 1.5V(Glow Plug)

3. Max. Continuous Current : 6A
4. Weight : 53.5g (including wires)
5. Regulator size : 80x30x13.3mm



INSTRUCTION 安裝使用說明

Receiver and Servo Voltage Regulating Functions:

- 1. The Auto-detecting voltage LED's will display a series of lights when turned on. If the entire five-light array is illuminated then the battery is fully charged. When the voltage drops below 7.6V the three green lights will turn off. USE CAUTION: Once the green lights are no longer illuminated the battery can only be safely used for a single flight. When only the single red LED is lit, DO NOT ATTEMPT TO OPERATE THE MODEL. The battery voltage has been drained too low, and must be recharged before its next use.
- 2. It is important to note that not all servos are designed to operate on 6 volts, such as Futaba servo models 9241, 9251, 9253, 9254, 9255, 9256 and other digital servo are not capable of handling 6V. Please check with the manufacturing specifications of the servo before attempting to operate. A separate 5.1V inline voltage Step-Down may be purchased and is recommended for use between the gyro and the tail servo, and any servos that are not designed to handle 6V. Please note that some servos are designed for running on 6V and may not require a voltage step-down.

接收器與伺服機電源部份:

- 1. 本產品具電壓指示功能,當接入充飽的電池時五顆指示燈全亮,表示電池在Full電量充足狀態下:使用中當電壓降低至7.6V時(3顆綠燈熄滅),尚可完成單趙飛行即須對電池充電或更換新電池:而如果僅亮紅燈時表示Empty電量不足,不應該再使用喔!
- 2. 部份的伺服器如:Futaba9241,9251,9253,9254,9255,9256等,此類型的伺服器不適合於較高的電壓下操作,所以使用此類型的伺服器時請另外加裝5.1V降壓調整器於陀螺儀與尾舵伺服器間,避免伺服器損壞;規格標示准許 6V輸入的伺服器則不須使用調整器。

Glow Plug Ignition System Functions:

- 1. Start by connecting the wires using the included diagram as a reference. Once completed connect the battery and move the power switch to the on position. Depress the "START" button on the control board. The green and the orange lights will illuminate. When this happens the glow plug is being ignited for a period of 15 seconds. After 15 seconds, the control board will stop igniting the glow plug. If the engine has not yet been started, the process can be repeated by simply repressing the "START" button. The Ignition system is designed to automatically shut off once the engine starts running. To ensure that the system is operating properly, check to make sure that the orange and green lights have shut off once the engine starts running. In the event that the lights are still illuminated once the engine is running, it may be necessary to remove the lead clip from the engine.
- If the orange light is not illuminated after pressing "START" then this means that the glow plug is not being ignited. Please check to see if the element of the glow plug has burned out, or if the lead clip is not properly connected to the glow plug.
- 3. If the Glow plug is short-circuited or the lead clip has contacted the outer case of the engine, the red (SHORT) light will be illuminated approx. 1 second after pressing the "START" button. If the "SHORT" light illuminates the system will automatically shut off the power to the output leads.
- NOTE: Please use double-sided foam tape or hook & loop tap to fix the regulator on the helicopter. Please do not tighten the wires of regulator hard to avoid the wires loose or broken caused by the vibration during the operation of the helicopter.

火星塞點火器部分:

- 1. 依接線示意圖完成接線後,開客電源開關,接著按下控制電路板上的"START"鍵,此時點火指示燈的綠燈與橘燈同時亮起,表示火星塞已正常點火中,每次點火時間約為15秒,15秒後自動關閉,如需再次點火時,則再按一次"START"鍵;由於點火狀置會自動關閉,所以引擎啓動後,確認橘色、綠色指示燈於15秒後熄滅,即不須將鱷魚夾移除。
- 2. 若按下"START"鍵時,橘燈不亮,表示火星塞未正常點火,請檢查火星塞加熱線圈是否開路損壞,或是鹽魚夾未確實夾在火星塞電極端上。
- 3. 如果火星塞發生短路或是鱷魚夾(電源正端)與引擎外殼接觸時,當按下"START"鍵,紅色(SHORT)指示燈會亮起,約1秒後熄滅並隨即關閉電源輸出,請檢查火星塞是否損壞或檢查鱷魚夾是否接觸到引擎外殼。

注意:請使用泡綿雙面膠或魔術沾將降壓器與直昇機固定,降壓器的各線組請勿繃緊固定,以免直昇機運轉時因震動造成接頭鬆脫或斷線。

17.FLIGHT ADJUSTMENT AND SETTING 飛行動作調整與設定

ALIGN/

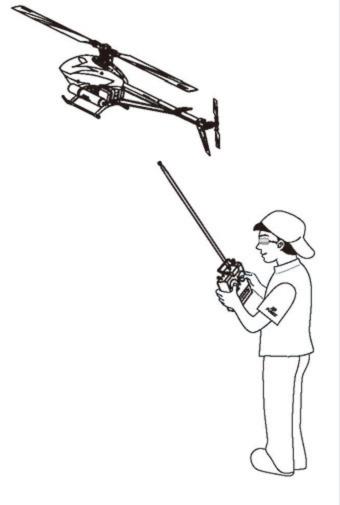
PLEASE PRACTICE SIMULATION FLIGHT BEFORE REAL FLYING 飛行前請事先熟練電腦模擬飛行

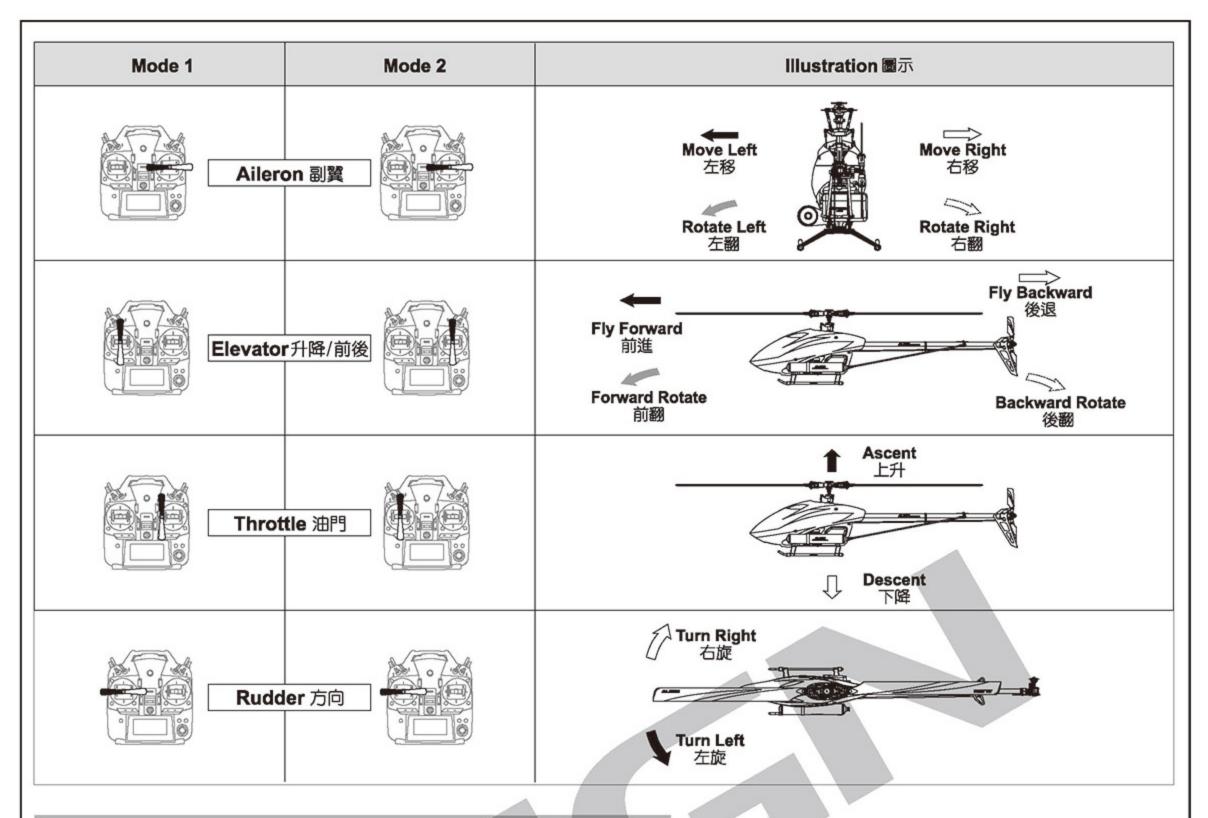
A safe and effective practice method is to use the transmitter flying on the computer through simulator software sold on the market. Do a simulation flightuntil you familiarize your fingers with the movements of the rudders, and keep practicing until the fingers move naturally.

- 1. Place the helicopter in a clear open field (Make sure the power OFF) and the tail of helicopter point to yourself.
- 2. Practice to operate the throttle stick(as below illustration) and repeat practicing "Throttle high/low", "Aileron left/right", "Rudder left/right", and "Elevator up/down".
- 3. The simulation flight practice is very important, please keep practicing until the fingers move naturally when you hear operation orders being call out.

在還沒瞭解直昇機各動作的操控方式前,嚴禁實機飛行,請先進行電腦模擬飛行的練習,一種最有效、最安全的練習方式,就是透過市面販售的模擬軟體,以遙控器在電腦上模擬飛行,熟悉各種方向的操控,並不斷的重複,直到手指可熟練的控制各個動作及方向。

- 1. 將直昇機放在空曠的地方(確認引擎為熄火狀態),並將直昇機的機尾對準自己。
- 2. 練習操作遙控器的各搖桿(各動作的操作方式如下圖),並反覆練習油門高/低、副翼左/右、升降舵前/後及方向舵左/右操作方式。
- 3. 模擬飛行的練習相當重要,請重複練習直到不需思索,手指能自然隨著喊出的指令移動控制。



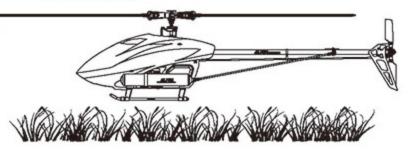


FLIGHT ADJUSTMENT AND NOTICE 飛行調整與注意



- OCheck if the screws are firmly tightened.
- OCheck if the transmitter and receivers are fully charged.
- ◎再次確認→螺絲是否鎖固?
- ◎發射器和接收器電池是否足夠。

- When arriving at the flying field.
- 當抵達飛行場





↑CAUTION 注意

If there are other radio control aircraft at the field, make sure to check their frequencies and tell them what frequency you are using. Frequency interference can cause your model, or other models to crash and increase the risk of danger.

假使飛行場有其他遙控飛機,請確認他們的頻率,並告知他們你正在使用的頻率,相同的頻率會造成干擾導致失控和大大地增加風險。

ENGINE START PREPARATION 引擎啓動事前準備

Separate the fuel tube and the joint and start to refuel. Please be careful to avoid the dust entering the tube. When the fuel tank is full, please stop refueling and reconnect the tube and the joint.

將油管與其接頭分離,並開始補給燃料。請小心避免灰塵砂粒進入管子内。當油箱已滿,請停止補給燃料並再將管子和接頭接合。







Mode 1

Mode 2

企AUTION 注意

First check to make sure no one else is operating on the same frequency. Then place the throttle stick at lowest position and turn on the transmitter.

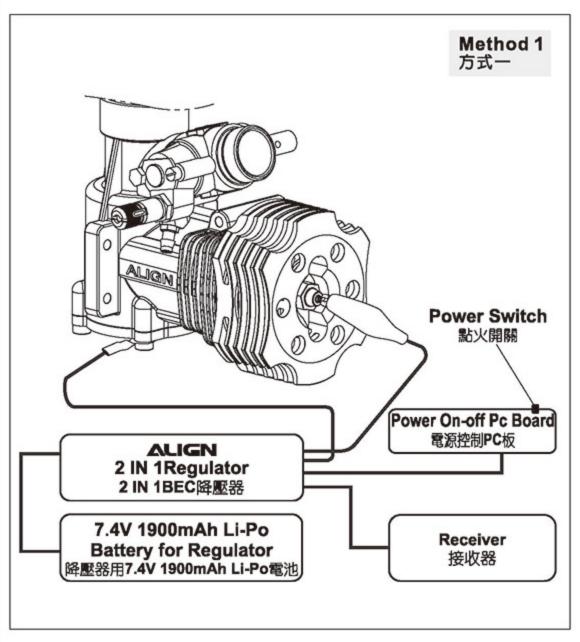
首先確認附近沒有其他相同頻率的使用,然後打開發射器將油門搖桿推到低點。

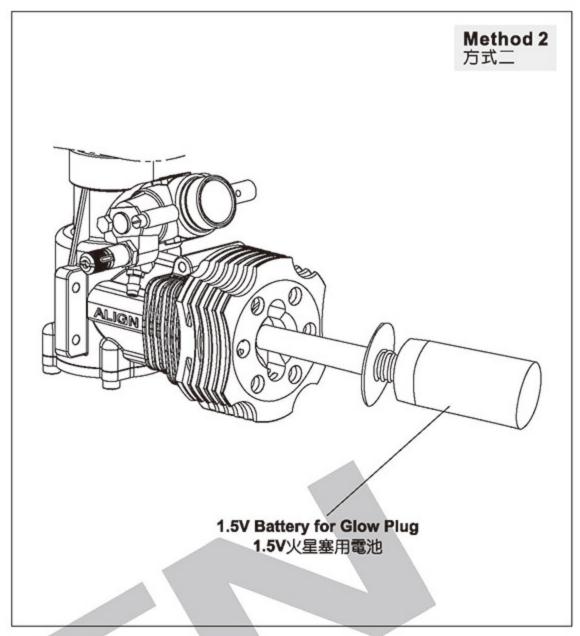
↑CAUTION 注意

Check if the throttle stick is set at the lowest position and check if engine throttle is at low speed.

確認油門搖桿是在最低的位置,並確認引擎油門置於低速。

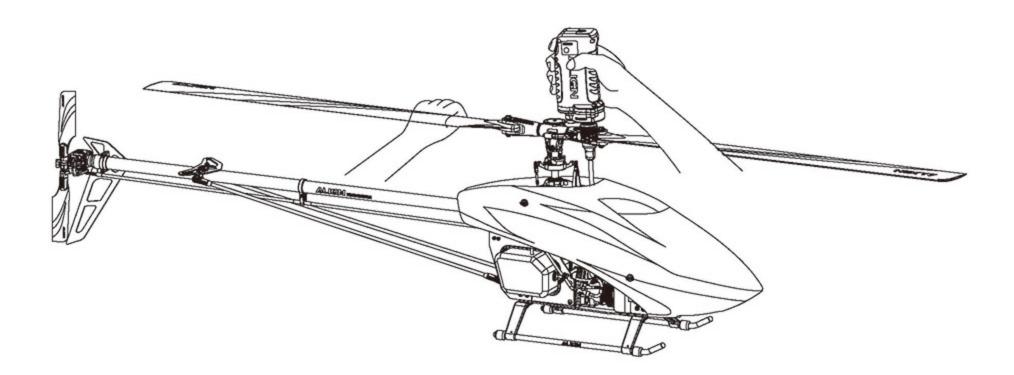
GLOW PLUG IGNITION METHOD 火星塞點火方式





ENGINE START AND STOP 引擎啓動和熄火

- 1. Connect the battery to the starter and check the rotation direction. Insert the starter shaft into the starter completely.
- 2. Tightly hold the main rotor head, and insert the starter shaft into the starter coupling. Then turn the starter to start the engine.
- 3. When the engine starts, stop the starter and remove it from the starter coupling. Please keep holding the main rotor head tightly.
- 4. Hold the main rotor head tightly, and turn off the power of glow plug or remove the power.
- 5. Still hold the main rotor head tightly, turn throttle trim at the lowest position, and keeping engine in lowest regular running.
- 6. If you want to stop the engine, please set the throttle trim (beside the throttle stick) at the lowest position. If the engine cannot stop, please put the Fuel Clip into lock position to stopping refueling.
- 1. 將啓動電池連接到啓動器並確認其轉動方向。將啓動軸完全插入啓動器。
- 2. 緊緊抓住主旋翼頭部,將啟動軸插入引擎啟動頭並以啟動器啟動引擎。
- 3. 當引擎啓動後,停止啓動器並將啓動頭上的啓動器移開。請保持繼續緊抓住主旋翼頭部。
- 4. 仍然緊抓住主旋翼頭部,將火星塞點火電池關閉或移開。
- 5. 仍然緊抓住主旋翼頭部,請保持油門於最低點時,引擎能保持於低怠速下正常運轉。
- 6. 欲將引擎熄火時,只需將油門搖桿旁的油門微調調至最低即可:如果引擎仍無法停止,請將油管夾片推至鎖定位置,關閉油料供給。



This procedure is best performed on soft surfaces such as grass. The use of rubber skid stopper is recommended on hard surface to prevent vibration feedback from the ground to flybarless sensors, resulting in over-corrections.

將直升機置於柔軟地面上,建議硬地起飛腳架裝上避震墊圈。避免升空前腳架與過硬的地面震動太大反饋至機身上的無平衡翼感應器,影響無平衡翼 系統升空前過度修正。

Rubber Skid Stoppers Installed

装上避震墊圈



If swashplate should tilt prior to lift off, do not try to manually trim the swashplate level. This is due to vibration feedback to the sensor, and will disappear once helicopter lifts off the ground. If manual trim is applied, helicopter will tilt immediately after lift off.

直昇機離地前,十字盤可能因感應器受震動的反饋,使十字盤有傾斜的情形,此時請勿刻意將十盤修正為水平狀態,此現象只要離地升空時立即解除, 可平穩升空;若刻意將十字盤修正為水平時,反而會造成感應器過度修正,一離地即偏往修正方向的危險。

MAIN ROTOR ADJUSTMENTS 主旋翼雙槳平衡調整

- 1. Before adjusting, apply a red piece of tape on one blade, or paint a red stripe with a marker or paint to identify on blade.
- 2. Raise the throttle stick slowly and stop just before the helicopter lifts-off ground. Look at the spinning blades from the side of the helicopter.
- 3. Look at the path of the rotor carefully. If the two blades rotate in the same path, it does not need to adjustment. If one blade is higher or lower than the other blade, adjust the tracking immediately.
- 1. 調整前先在其中一支主旋翼的翼端, 貼上有顏色的貼紙或畫上顏色記號, 方便雙槳調整辨識。
- 2. 慢慢的推起油門搖桿到高點並且停止,在飛機離開地面前,從飛機側邊觀察主旋翼轉動。
- 3. 仔細觀察旋翼軌跡(假如兩支旋翼移動都是相同軌跡,則不需要調整;可是如果一支旋翼較高或較低產生"雙槳"的情形時,則必須立刻調整軌跡)。
- A. When rotating, the blade with higher path means the pitch too big. Please shorten DFC ball link for regular trim.
- B. When rotating, the blade with lower path means the pitch too small. Please lengthen DFC ball link for regular trim.
- A. 旋翼轉動時較高軌跡的主旋翼表示螺距(PITCH)過大,請調DFC連桿頭修正。
- B. 旋翼轉動時較低軌跡的主旋翼表示螺距(PITCH)過小,請調DFC連桿頭修正。

▲ CAUTION 注意

Tracking adjustment is very dangerous, so please keep away from the helicopter at a distance of at least 10m.

調整軌跡非常危險,請於距離飛機最少10公尺的距離。

Incorrect tracking may cause vibrations. Please repeat adjusting the tracking to make sure the rotor is correctly aligned. After tracking adjustment, please check the pitch angle is approx. 5° when hovering.

不正確的旋翼軌跡會導致震動,請不斷重複調整軌跡,使旋翼軌跡精準正確。 在調整軌跡後,確認一下Pitch角度在停旋時應為大約5°。

Color Mark 有標示記號的主旋翼

FLIGHT ADJUSTMENT AND NOTICE 飛行調整與注意

- Ouring the operation of the helicopter, please stand approximately 10m diagonally behind the helicopter.
- ◎ 飛行時,請站在直昇機後方10公尺。

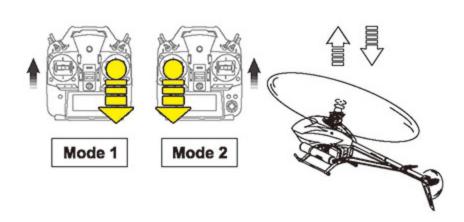
▲ CAUTION 注意

- Make sure that no one or obstructions in the vicinity.
- O For flying safety, please carefully check if every movement and directions are correct when hovering.
- 確認鄰近地區沒有人和障礙物。
- 為了飛行安全,您必須先確認停懸時各項操控動作是否正常。

CAUTION Do not attempt until you have some experiences with the operation of helicopter. 嚴禁無熟練操控飛行經驗者操控飛行。

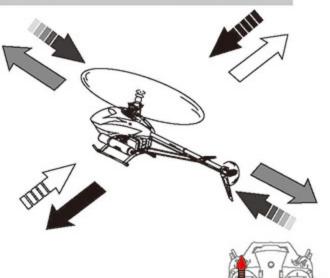
STEP 1 THROTTLE CONTROL PRACTICE 油門控制練習

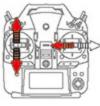
- When the helicopter begins to lift-off the ground, slowly reduce the throttle to bring the helicopter back down. Keep practicing this action untilyou control the throttle smoothly.
- ◎ 當直昇機開始離地時,慢慢降低油門將飛機降下。 持續練習飛機從地面上升和下降 直到你覺得油門控制很順。



STEP 2 AILERON AND ELEVATOR CONTROL PRACTICE 副翼和升降控制練習

- Raise the throttle stick slowly.
- Move the helicopter in any direction back, forward, left and right, slowly move the aileron and elevator sticks in the opposite direction to fly back to its original position.
- 1. 慢慢升起油門搖桿。
- 2. 使直昇機依指示:移動向後/向前/向左/向右,慢慢的反向移動副翼和升降搖桿並 將直昇機開回到原來位置。







Mode 1

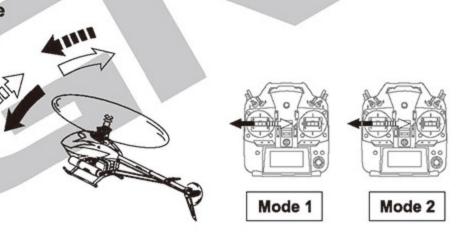
Mode 2

企AUTION 注意

- O If the nose of the helicopter moves, please lower the throttle stick and land the helicopter. Then move your position diagonally behind the helicopter 10m and continue practicing.
- O If the helicopter flies too far away from you, please land the helicopter and move your position behind 10m and continue practicing.
- ◎ 當直昇機機頭偏移時,請降低油門並且降落,然後移動自己的位置到直昇機的正後方10公尺再繼續練習。
- ◎ 假如直昇機飛離您太遠,請先降落直昇機,並到直昇機後10公尺再繼續練習。

STEP 3 RUDDER CONTROL PRACTICING 方向舵操作練習

- 1. Slowly raise the throttle stick.
- 2. Move the nose of the helicopter to right or left, and then slowly move the rudder stick in the opposite direction to fly back to ts original position.
- 1. 慢慢升起油門搖桿。
- 2. 將直昇機機頭移動左或右, 然後慢慢反向移動方向舵搖桿並將直昇機飛回原本位置。



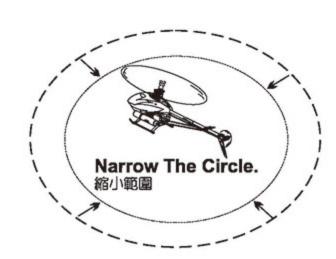
STEP 4

After you are familiar with all actions from STEP1 to 3, draw a circle on the ground and practice within the circle to increase your accuracy.

You can draw a smaller circle when you get more familiar with the actions.

當您覺得 STEP1~3 動作熟悉了,在地上畫圈圈並在這個圈圈的範圍內練習飛行,以增加您操控的準確度。

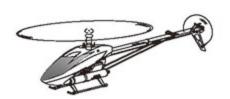
◎ 當您更加習慣操作動作,您可以畫更小的圈圈。



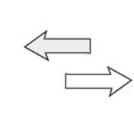
STEP 5 DIRECTION CHANGE AND HOVERING PRACTICE 改變直昇機方向和練習停懸

After you are familiar with STEP1 to 4, stand at side of the helicopter and continue practicing STEP1 to 4. Then repeat the STEP1 to 4 by standing in front of the helicopter.

當您覺得STEP1~4動作熟悉了,站在面對直昇機側邊並繼續練習STEP1~4。之後,站在直昇機機頭前方重複步驟練習。











18.TROUBLESHOOTING 飛行中狀況排除



	Problem 狀 況	Cause 原 因	Solution 對 策
Blade Tracking 雙槳平衡	Tracking is Off 雙槳	Pitch linkage rods are not even length PITCH連桿長度調整不平均	Adjust length of DFC ball link. 調整DFC連桿頭長度
	Headspeed too low 主旋翼轉速偏低	Excessive pitch 主旋翼的PITCH偏高	Adjust DFC ball link to reduce pitch by 4 to 5 degrees. Hovering headspeed should be around 1700~1800RPM. 調整DFC連桿頭調低Pitch約+4~5度 (停懸時主旋翼需為約1700~1800RPM)
Hover		Hovering throttle curve is too low 停懸點油門曲線過低	Increase throttle curve at hovering point on transmitter (around 60%) 調高停懸點油門曲線(約60%)
停懸	Headspeed too high 主旋翼轉速偏高	Not enough pitch 主旋翼的PITCH偏低	Adjust DFC ball link to increase pitch by 4 to 5 degrees. Hovering headspeed should be around 1700~1800RPM. 調整DFC連桿頭調高Pitch約+4~5度 (停懸時主旋翼需為約1700~1800RPM)
		Hovering throttle curve is too high 停懸點油門曲線過高	Decrease throttle curve at hovering point on transmitter (around 60%) 調低停懸點油門曲線(約60%)
Rudder Response 尾舵反應	Drifting of tail occurs during hovering, or delay of rudder response when centering rudder stick. 停懸時尾翼向某一邊偏移,或撥動方向舵並回復到中立點時,尾翼產生延遲,無法停頓在所控制位置上。	Rudder neutral point improperly set 尾中立點設定不當	Reset rudder neutral point 重設尾中立點
		Rudder gyro gain too low 尾舵陀螺儀感度偏低	Increase rudder gyro gain 增加尾舵陀螺儀感度
	Tail oscillates (hunting, or wags) at hover or full throttle 停懸或全油門時尾翼左右來回搖擺。	Rudder gyro gain too high 尾舵陀螺儀感度偏高	Reduce rudder gyro gain 降低尾舵陀螺儀感度

If above solution does not resolve your issues, please check with experienced pilots or contact your Align dealer. ※在做完以上調整後,仍然無法改善情況時,應立即停止飛行並向有經驗的飛手諮詢或連絡您的經銷商。

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Specifications & Equipment/規格配備:

Length/機身長:1361mm Height/機身高:385mm

Main Blade Length/主旋翼長:700mm

Main Rotor Diameter/主旋翼直徑:1582mm

Tail Rotor Diameter/尾旋翼直徑:281mm

Engine Pinion Gear/引擎主齒:14T

Autorotation Tail Drive Gear/尾驅動主齒:104T

Drive Gear Ratio/齒輪傳動比:8:1:4.95(E:M:T)

Fuel Tank Capacity /油箱容量:660cc.

Flying Weight/全配重:Approx. 4.2kg

