# TREX 500XT INSTRUCTION MANUAL 使用說明書

**ALIGN** 

尾軸傳動系統 Torque Tube Drive System

RH50E23XT



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Thank you for purchasing Align products. Please read the manual carefully before installing and be sure to retain the manual for future reference. All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement. Specifications, contents of parts and availability are subject to change, ALIGN RC is not responsible for inadvertent errors in this oublications.

承蒙閣下湖用亞托基姓世界系列產品·福麦謝奮。使用前、資務於戶間本設 明書,相信一定部類於國際來自書之於屬飲。由國安至各保營並的相書, 以做為自任參考。本公司將不對此即稱沙三異動負責。也無法主數據知消費 在任何更新成業動。所有圖片信用於無日的。最后可能因改與而移坐不 同。本說由實內記載的材質、規格或零件包裝之內密物如有異動。請依亞和 官額公為為主生 Thank you for buying ALI CAIN Products. The T-REX 500XT Dominator Helicopter is designed as an easy to use, full featured Helicopter RVC model capable of all forms of rotary flight. Please read the manual carefully before assembling the model, and follow all precautions und recommendations located within the manual. Be sure to retain the manual for future reference, routine maintenance, and tuning. The T-REX 500XT Dominator is a new product developed by ALIOR. It features the best design available on the RIC helicopters market to date, providing flying stability for beginners, full aerobatic capability for advanced filers, and unsurpassed reliability for customer support.

感謝您選擇亞托德島,為了讓您思慕方便的使用T-REX 500XT Dominator 直昇機、讓您詳細的跨騰所這本說明書之後用進行組製以及操作這台直昇機。阿詩齋您 安慰的异常基本的問意,行為也進行跨鄰以及維御的影響,T-REX 500XT Dominator 提出还和自行明整的資產品,不識您是需求飛行應定性的初拳者或是追 宋經統的將行變形者,T-REX 560XT Dominator 蔣尼德學院的選擇。

#### WARNING LABEL LEGEND 標結代表涵義



Do not attempt under any circumstances. 在任何禁止的環境下,請勿答試場作。



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. 因為研究課題操作的問,而使用總統可能告放為第。

#### IMPORTANT NOTES 香栗磐田

RIC helicopters, including the T-REX 500XT Dominator are not toys. RIC helicopter utilize varies high-seeh products an Feehnologies to provide superior performance, improper use of this product can result in serious injury or even death. Please read the result of th

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.

TREES SOUT Dominator 新国国用地的玩具,它想给了TSASAR特及是所設计比较的线料用品,所以现在的使用不需求不断的可以被能或温度需要还完 它一位用之间期的效果不识相。今时就就是自己的企业,可能不可能可是有效的现象。 每年之老约分任何现代,本质风度和抗导解石模型工具用概整的成人或有机器状态的人类在分别等较效的方法是控制了现象的。 用一点所出现金之间所不良但用于中间的现象。

做為本產品的使用者,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 proprigy assemble, setup, and fly your model for the first time. T-REX 50XT Dominator 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 consultations 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 resultine dismage or injure. By the act of use, setup or assembly, the user accepts all resulting liability.

模型商品翻於南高媒件技術且為消耗性之商品,如經新發使用後,會造成不可情況零件損耗,任何使用情況所造成品配有與求不滿度,將無法於保險條件內更接 新品或超貨,如語予經用操作機够短數,本公司全部分公司或代理高指理扶賴指導,特領等件代級服務,對使用格的不盡控用,認定、組款,經次、或請什不 反形流成於機構成響。本公司無法就發及負責,任何便用,設定、組款、模次、或操作不同用造成時,集內表情觀等。使用整義與產化要任。

## SAFETY NOTES 安全注意事項

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- Fly only in safe areas, away from other people. Do not operate R/C aircraft 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 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、直昇機驅高危線性商品,飛行時務必遠離人群,人為組裁不當或機件損壞、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 損傷等不可預期的惠外,講飛行者務必注意飛行安全,並需了解自負疏忽所造成任何惠外之責任。
- 每趙飛行前須仔細檢查,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。

#### LOCATE AN APPROPRIATE LOCATION 遠鮮障礙物及人群

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.



# 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.

維聚電池銀一般在RC使用的鹼性電池、鐵網電池、鐵筒電池上級起來是相對危險的。請嚴格遵守維聚電池說明書之使用注 標事項。不恰當使用鍵聚電池,可能造成火災並偏及生命財產安全, 切勿大震!



# | ○ FORSINGER | 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.

直昇機內惡也是由許多精密的電子等組件組成,所以必須絕對的防止潮濕或水氣,避免在浴室或兩天時使用,防止水氣進 入機與內惡而籌致機件及電子零件故障而引發不可預期的最外!



# ○ FOREINDER 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,請使用亞托達品目錄中的零件,以確保結構的安全。 進棄或於蓋泉與與內場性,雖勿讓數條由,並勿由於安全、法令外其它非法用途。



# ▲ WARNING 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・需複配是否有相可頻率的同好正維行飛行,因為開放相可頻率的發射器將導致自己限他人立即干擾等 外危機・基使機構提供技巧任誉部が制有者一定的環境・製畫團業也獨自操作飛行,需有規劃的人士任労招導・オ可以 投飛行・否則將可能造成不可預期的電外域と・(動庫電腦模束服及老手指導是入門分級の選集)



# ▲ WARNING SAFE OPERATION 安全操作

Do not attempt to grab or make contact with the helicopter while the main blades are in motion and keep your eyes away from the helicopter. During take-off, landing, and flight, be sure to keep the helicopter away from all obstacles. Operators must stand at least 10 meters away from the helicopter to avoid injury caused by loose parts due to improper assembly or any unforeseen dangers. 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.

基据用于机取客行的的直接。就就让将直车想到客间,这上跨直转换。 "这股人实现的,我也就是我们。我们 查到前面,但只见上,"我因此,我们就不是就是有些。"而且因此不同期的对现在,在目录,但是一个方分是要 一定技术要求的产言分享获得,则实验水、某种个证实不管操作,因为是主意感引回答提高,不同在现象的更为是 行,因我也因此是,据据因其解释的经验模型。



# ▲ CAUTION 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, hads, and loose clothing away from the blades. Always fly the model a safe distance from yourself to





# 直昇機主放翼與尾旋翼運轉時會以高轉速下进行,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, 請勿觸臺運轉口的主於翼與星旋翼,並保持安全幹續以養孕活成而終及醫療。

# ▲ CAUTION 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 climatecontrolled, room temperature environment.

空飛機多半是以 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、日關,以避免因高溫而變形甚至熔設 素的可能。













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Transmitter (6-channel or more,helicopter system) 發射器(六勤以上直昇機模式返搜器)









22.2V 6S 2,600~3,300mAh Li-Po Battery x 1 22.2V 6S 2,600~3,300mAh Li-Po 電池 x 1

RCC-300 Intelligent RCC-300 物類型物質性 t Battery Charge

#### ADDITIONAL TOOLS REQUIRED FOR ASSEMBLY 自備工具







[H50195] Swashplate Leveler









Cutter Knife 刀子







Retainer (R48) 缺氧膠 (R48)

# PACKAGE ILLUSTRATION

包裝說明

ALICN

470 Carbon Fiber Blade X 1set 470 敬繼主旋翼 X 1組 Canopy 機器譜、 500HT23 500HC7 500HH18 500HB16 500HB14 500HB15 500HT21 500HT22 500HG3



520MX (1600KV/3527)Brushless Motor x 1 520MX (1600KV/3527) 無別馬達×1 RCE-BL80A Brushless ESC x 1 RCE-BL80A無關定連講連器 x 1

DS530M High Voltage Brushless Servo x 3 DS530M 高配禁制伺服器 x3 DS535M High Voltage Brushless Servo x 1 DS535M 高壓無限伺服器 x 1

# MODEL STANDARD EQUIPMENT DIFFERENCE 標準配備版本說明

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There are many versions of T-REX 500XT Dominator for your choice. The Top Combo includes additional electronics and other equipment. The instruction Manual will refer to the T-REX 500XT Dominator for lockbox. You consider you additional items referenced in the instruction manual or any sparse parts for other T-REX 500XT Dominator version by referring to more product information in this manual or any sparse parts for other T-REX 500XT Dominator version by referring to more product information in this manual.

T-REX 500XT Dominator 系列商品有多種版本可作為選擇,除標準配偶會因應購買的商品 版本而行些徵不同,在絕接、設定上都是一致的,在此我們以 Top Combo 作為操作範列, 般也可依据書面上的商品閱讀來做著其他資施



T-REX 500XT DOMIN	ATOR TOP COMBO STANDA	RD EQUIPMENT T-RE	C 500XT DOMINATOR TOP COMBO	準配備 [RH50E23XT]
Salestink	0		<b>*</b>	
500HC7	500HH18	500HB14	500HB16	500HB15
500HT21	500HT22	500HT23	500HG3	M3x3 Set Screw x2 M3止洩鏡絲 x 2 Motor Pinion Helical Gear 12T x 馬遊船艙 12T x 1
				MER
520MX(1600KV/3527) Brushless Motor x 1 520MX(1600KV/3527) 無測馬達 x 1	RCE-BL80A Brushless ESC x 1 RCE-BL80A 無盈定速調速器 x 1	Microbeast PLUS Flybarless System x 1 無平衡質系統 x 1	DS530M Digital Servo x 3 DS530M 數值伺服器 x 3 DS535M Digital Servo x 1 DS535M 數值伺服器 x 1	470 Carbon Fiber Blade X 1 470 磁線主旋翼 X 1

# 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 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 in out of control.
- 每次飛行前爾先確認所使用的頓率是否會干擾他人,以確保您自身與他人的安全。
- 每少百行前確定你發射器關係的裝置他的需量暴在尼彻百行的影響。
- · 島鄉前確認油門將提票本位於豐仟獻,賴少隨該醋馥,完凍醋馥(IDLF)是本於關閉位置。
- · 蘇陽的必須遵守電源開聯機的程序,開機計復先開放發射器後,再開設接收器電源;關機計億先輔跨接収器後,再關閉發射器電源。不正確的開闢程序可能會 造失控的現象,影響自身與他人的安全,開棄成正確的習慣。
- · 歸機調先確定直昇機的各個動作是否順穩,及方向是否正確,並檢查伺服器的動作是否有干涉或前齒的情形,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聲貌的螺絲與螺帽,確認沒有組裝不完整或網袋的零件,仔細檢查主旋翼是否有損壞,特別是接近主旋翼夾座的即位。損壞或組裝不完整的零件不僅影鐵飛行,更會造成不可預期的危機。注意:每次飛行前的安全檢查、保養、及更換損耗零件,調確實嚴格執行以確保安全。
- · 检查所有的連桿頓是否有點說的情形,過點的連桿頓應先更新,否則將造成直昇機無法提控的危機。

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,可能造成電源接頭敷設而造成失控的危險。

When you see the marks as below, please use relative glue or grease to ensure flying safety. 標有以下符號之組裝步驟,請配合上摩或上油,以確保鎖附零件使用之可靠度。

- CA: Apply small amount of CA Glue to fix. SM : 伊由斯曼斯特爾西定
- ount of CA Glue to fix.
  OIL: Add small amount of OIL. 潤滑油:添加適量潤滑油

Grease: Add small amount of Grease. 潮滑油:添加跨量潮滑油

- · R48: Apply small amount of Anaerobic Retainer to fix. 欽頓摩:使用適量效氣學固定
  - T43: Apply small amount of Thread Lock to fix. 蝦絲膠:使用適量螺絲膠

When assembling ball links, make sure the "A" character faces outside. 各項遊擊製造桿項扣接勢 · " A "字顧朝外 ·

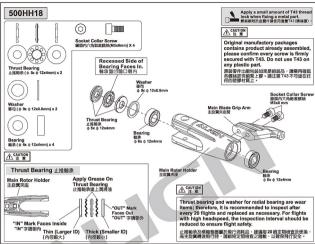


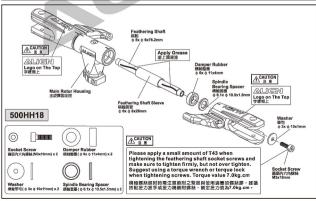
- 1. Anaerobic Retainer (R48)is green penetrating threadlocker and is used to fix the metal tube before assembly at
- temperatures up to +180°C 
  2. Thread Lock(T43) is blue low strength threadlocker and is applied to the small screw(threads) or metal parts
- before assembly to prevent loosening. Ensure to apply only a small amount and wipe surplus off. When disassembling, recommend to heat the metal joint about 15 Seconds.

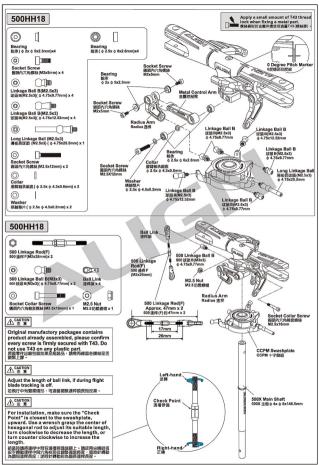
  Screase is kind of fubricant additive which is applied to the one-way bearings or thrust bearing.

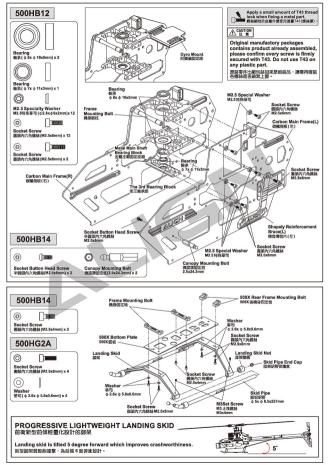
©Based on parts physical attributes, please apply small amount of the relative glue or grease accordingly to prevent

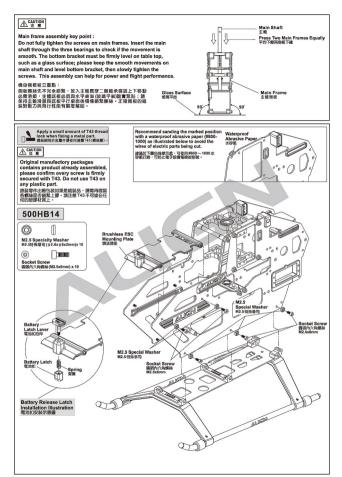
- any parts damage or loosening or unexpected danger happened.
- 1.款氣器(R48)為綠色亮強度快速因化的較氣器,適合於金屬管狀因定用,可耐亮溫至180°C。
  2.嫁絲器(T43)為藍色低強度鎮絲器,適合小型螺絲;使用於金屬內外徑或器合螺絲器,請務必適量使用,必要時聽用手去除多餘器量,故拆卸
- 時可於金屬接合部位熟榜約15秒。 3.润滑油(Grease)為高狀潤滑油,適用於單向輸承或止推輸承。
- ◎上述各類功能膠(油)請依零件層性需求自行準備並斟酌其用量,以達到最佳組裝狀態,避免因使用不當造成零件損壞或不可預期的意外發生。

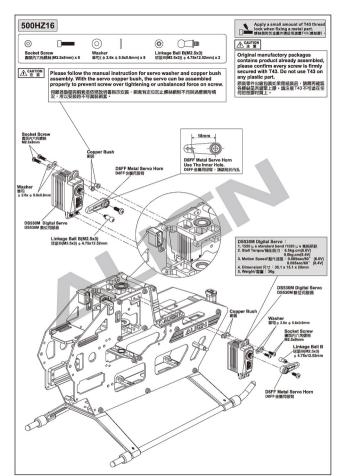


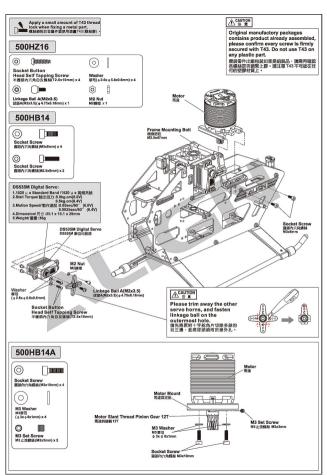


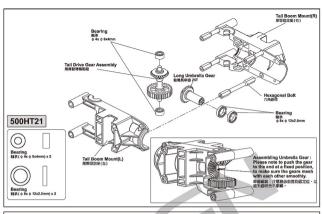


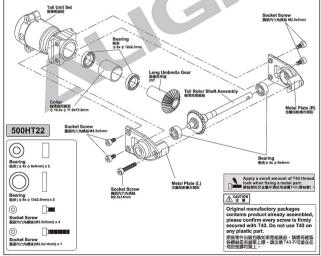


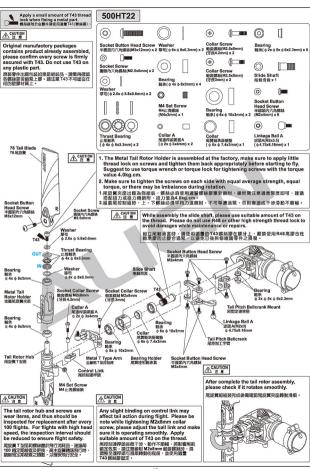


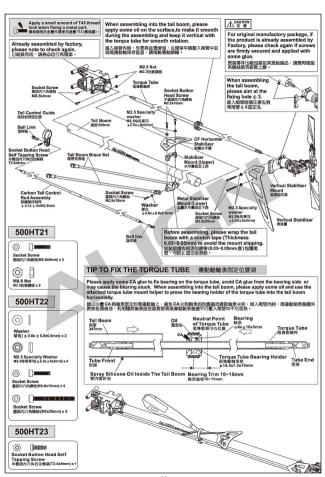


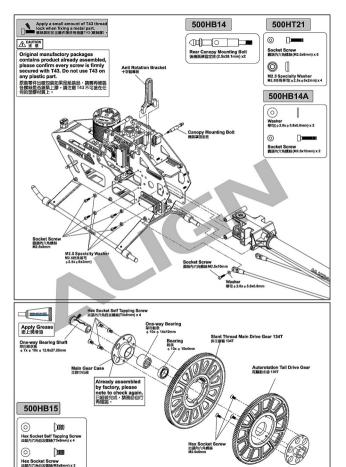


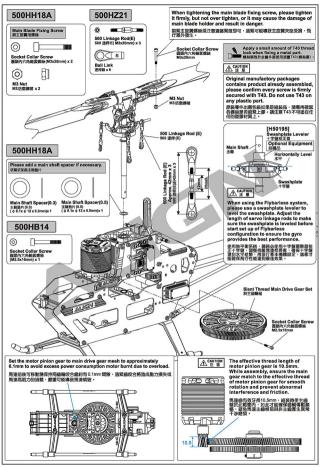












Original manufactory packages

any plastic part.

contains product already assembled, please confirm every screw is firmly secured with T43. Do not use T43 on

所裝零件出廠包裝如果是組裝品,講應再確認 各螺絲是否鋼緊上膠。講注意T43不可途在任 何的塑膠材質上。

A CAUTION 注 第

# A MOUNTING ORIENTATION OF MICROBEAST PLUS MICROBEAST PLUS的安装方向

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建平官網下載專應下載。 http://www.align.com.tw/beastx/

Microbeast PLUS provides 8 different direction choicescan be installed on any position of helicopter.

Microbeast PLUS 提供8種不同方向選擇,可以安裝在機體的任何一個位置。

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



LED指示修款解顯示安裝方向:

Status LED Off Status-LED 烦燥液\*



Status-LED 微 素色图像





Status I FD Purple Status-LED 微紫色



Status LED Red

Status LED Flashing Blue Status-LED 债额色现象

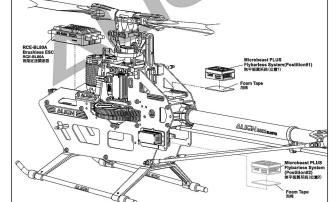


Status LED Flashing Red/Blue Status-LED 個 紅色/藍色同



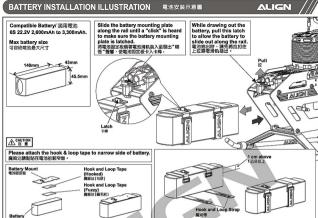
\*Factory Setting \*出廠預設值

Status-LED 煅紅色





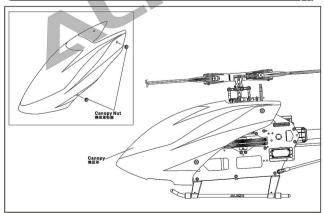
ALIGN

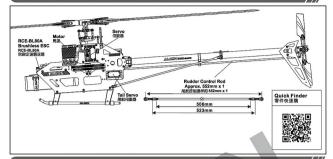


# **CANOPY ASSEMBLY**

機碩置安裝

ALIGN ///





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

ALIGN

MICROBEAST PLUS Flybariess System as ALIGN helicopter standard equipment, must and compatible with ALIGN standard equipment including blades, servos, motor, battery and so on, please refer to flight and setup instruction in this manual.

ALIGN 直昇機使用 MICROBEAST PLUS 無平衡翼系統,須搭配 ALIGN 直昇機標準配件(主旋翼、伺服器、馬達)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 ALION standard aquipment, including electronic equipment & blades, acto, plesses make sure there is a sufficiently large and stable power supply to your helicopter. If there is any abhormal voltage or insufficient power supply, suggest to upgrade the flybarless system to MICROBEAST PLUS NO [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, missassembly, incorrect 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、操作型的直昇機時,如非使用ALIGN標準配件(含電子配件、主旋翼等),購務必確定型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(遷配),以能確保充足、穩定的接收器電源。
- 2.MICROBEAST PLUS/HD使用、設定、接線・誘参照 BEASTX MICROBEAST PLUS/HD 官方說明。
  3.任何電子配件、零年的設定、組装、條次或操作不负所违法的電壓契常、電子零件損壞,即可能造成供電不穩定等問題,每機飛行節損注題 代報納等。3.此時長五毫子保持機能可能可能等的概念。

#### MANUAL LINK 設定操作連結

MICROBEAST PLUS Flybariess System is the latest version out of the factory, please feel at ease using it. You can also link to BEASTX MICROBEAST PLUSHD website to get the latest version and the latest news. MICROBEAST PLUS Flybariess System has available some different versions, such version has different programming and function, please make sure your Microbeast version and read its correct manual carefully before assembly or upgrading, especially you are upgrade from version 13.2X. to V4XXX by ourself, in order to avoid mistake or loss by any misunderstanding, please be sure that you have correct version and follow its setting method accordingly. And please refer to MICROBEAST PLUS V3.2x and V4.2 instruction manual for operating and setting.

MICROBEAST PLUS無平衡實系統,出廠跨主程式已是最新版本。您也可以連結查BEASTX MICROBEAST PLUS/HD它創查詢,隨時更新最新版本及各項機紊點型。認分線本因升級而能定及功能會有所不同,開確定您的認本並再與其態明書、尤其您更由 V3.2.x 升級至 V4.x.x ,關務必深入了頻本之場的數定的途,以免與影而造成很失,生作政定請同時参級V3.2.x 版及V4.2.x 版內 2.0. 因此自由 V3.2.x 升级至 V4.x.x ,以



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講至官網下載專藝下載。 http://www.align.com.tw/beastx/

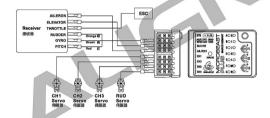


#### PARTS IDENTIFICATION 多銀位名籍

#### MICROBEAST PLUS FLYBARLESS SYSTEM 無平衡貿系統



#### 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. 新組設線方式,開膀遊QR Code 連結至MICROBEAST PLUS說明音。

# **企**CAUTION



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 there is any abnormal voltage or insufficient power supply, suggest to upgrade the flybarless system to MICROBEAST FULN DIO (Optional) for better power back up. Please refer to EBASTX website for MICROBEAST FULNS HO assembly and setup instruction.

安婆、操按您的直昇機時,如非使用 ALIGN 標準配件 (含電子配件、主旋實等),請誘必確定您的供電系統有足夠的供電能力,如發 現電整貨幣、供電不定,建議如于接使用 MICROBEAST PLUS HD 無字的廣系班(強配),以能確保充足、穩定的接收器電源。 MICROBEAST PLUS HD 使用、数定、接接,需要網 MICROBEAST PLUS HO 宣方始明。 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 in order to prevent any accident caused by the motor

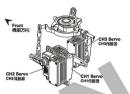
running during the setting. 此道於定只要關除發射器,接上BEC雲道即可維行操作。

注意: 為了安全起見,則定前禮先不要將無劍護漆級以無刷馬達三條線接上,以免國際時段動馬達而發生於歸。

#### SERVO CONFIGURATION 伺服器配置

Following the servo configuration diagram on right, plug the servos to  $\mbox{\rm Gyro.}$ 

請依領右圍圖示的何服然名稱,將何服然接到於螺礁。



# ADJUSTMENTS FOR GYRO AND TAIL NEUTRAL SETTING

陀螺儀與尾翼中立點設定調整

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 resultal point setting.

Note: When connecting to the helicopter power, please do not touch tall rudder stick and inch the helicopter, wait for a second for gry to ce enable, and the rudder serve horin should be 9 had led read to that is central pushed. At it for 3 had to the should be halfway on the tail output shaft. This will be the standard rudder neutral point. After completing this setting, as the call as within back to heading lock mode, with cain at a round 70 %.

發射器內陀螺備設定調腸間模輪混控模式,並將發射器上的感意開闢與陀螺備切至"非鎖定模式"或將陀螺備感度開閉。發射機設定完成後接上直昇 機器潛,所可推行屬數中存點接屬。

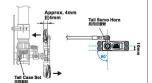
注意:當投上直昇機電源時期勿撥動尾舵搖桿或碰觸機體,待3秒吃螺備朝機完成後,尾伺服臂需與尾伺服器約成90度,尾旋翼控制組須正確置於 尾橫輪約中間位響。問點構運風舵中可點驗定,除定完成後,也除至"變定權式",感像發換70% 左右。

## TAIL NEUTRAL SETTING 尾中立點設定

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

陀螺鐵開機後,在非鎖定模式下,尾伺服器與尾Pitch控制組正確攤置

並且 Pitch控制組未置中肺清調整属控制連桿的長度來修正。



# HEAD LOCK DIRECTION SETTING OF GYRO 陀辉镜鹟定方向設定

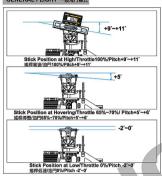
To check the head lock direction of gyro is to move the tail counterclockwise and the tail servo horn will be trimmed counterclockwise. If it trims in the reverse direction, please switch the gyro to "REVERSE".

陀螺纖鎖定方向確認,當手搖尾部反時鐘擺動,尾伺設臂應反時鐘 終下,反向時號切換陀螺攤上"鎖定反向"關關條下。

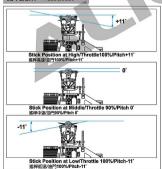


T BULL

#### GENERAL FLIGHT 一般飛行權式



## 3D FLIGHT 3D特技飛行模式



- Pitch range: Approx. 25 degrees.
   If the pitch is set too high, it will result in shorter.
- flight duration and poor motor performance. 3. Setting the throttle to provide a higher speed is preferable to increasing the pitch too high.
- 螺距(Pitch)總行程約25
   過大螺距設定,會導致動力與飛行時間降低。
   動力提昇以較高轉速的設定方式,優於螺距調大的設定。

#### GENERAL FLIGHT 一般飛行模式

	迎門	SEE
5	100%High Speed 100%高速	+9~+11"
4	85%	
3	65%~70%Hovering 65%~70%停懸	+5"
2	40%	
-	0% Low Speed	100 00



Throttle Curve(Hovering Flight)

#### IDLE 1 : SPORT FLIGHT

V	Throttle 由 <sup>2</sup> 9	Pitch
5	90%	+11"
4	85%	
3	80%	+5"
2	85%	



Throttle Curve(Simple Aerobatic Flight) 空中飛行模式油門曲線

#### IDLE 2:3D FLIGHT

	Throttle 细門	Pitch 螺旋	
5	90% High 90%高	+11"	
3	85% Middle 85% Ф	0.	
1	90% Low 90%Œ	-11"	



While pitch set at 0 degree, make sure to set throttle below 85%. 螺距0倍點,油門勿超過85%。

#### RCM-BL520MX MOTOR 無刷馬達

This new Brushless motor developed by the ALIGN POWER RAD TEAM, is packed with the latest, cutting edge technology available today. It features exceptional levels of high-torque power. The 520MX utilizes an 6-pole outrunner stator-rotor and unrivated Mobie extra strong magnets that traditional magnets cannot compare to. Also included is a high temperature, wear-resisting, low friction, double Zz high efficiency bearing. The 520MX will be the most revolutionary motor operating on low current amperage, and delivering high forque to RC models.

由亞和葡力團隊獨家研發出新款的無利馬達,具有壓高扭力特色,採用9槽砂鋼片、6個外轉子以及傳統磁纖無法比機的數纖鍵超強磁纖,搭配高速耐磨的雙 **22**超高效能精密執承設計、電流低、扭力強,將是下一波動革命中的最具代表性的一顆星。





(Unit頭衍:mm)

#### SPECIFICATION 尺寸規格

				A
κν	KV值	1600KV(RPM/V)	Input Voltage 輸入電壓	65
Stator Diameter	定子外徑	35 mm	Stator Thickness 定子高度	27mm
Stator Arms	砂鋼片槽數	9	Magnet Poles 磁纖極數	6
Max Continuous Current	最大持續電流	85A	Max Instantaneous Current 最大瞬間電流	130A(2sec)
Max Continuous Power	最大持續功率	1900W	Max Instantaneous Power 最大瞬間功率	2750W(2sec)
Dimension	尺寸	Shaft 軸 🕁 5x45x71.7mm	Weight 重量	Approx. 267g

## RCE-BL80A BRUSHLESS SPEED CONTROLLER INSTRUCTION MANUAL

無刷頻速器使用說明 本LIGN

#### PRODUCT FEATURES 產品特色



protection

- RCE-BL80A Brushless ESC can be set up by ALIGN ASBOX Multifunction Programmer. So please scan QR code for ALIGN website start downloading for more information: http://www.align.com.tw/download-en/asbox/
- RCE-BL80A無別讀漆器可透過ALIGN ASBOX 多功能設定盒進入參數設定,讀譽描QR Code 連結亞拓網並下載相關資訊;
- http://www.align.com.tw/download-en/asbox/
- High performance microprocessor for excellent motor speed-governing and super soft start-up.
- Microprocessor powered by independent DC regulator has better anti-interference performance, which greatly reduces the risk of losing control.
- DEO (Driving Efficiency Optimization) Technology adopted greatly improves throttle
- response & driving efficiency, reduces ESC temperature.

  New switch-mode BEC with adjustable output voltage ranges from 5V to 8V and
- continuous/peak current of 10A/25A.

  BEC is separated from other circuits of the ESC, it may keep normal output even
- when MOSFET board of the ESC is burnt or breakdown.

  Multiple flight modes: Fixed-wing, Helicopter (Linear Throttle), Helicopter (Elf
- Governor), Helicopter (Store Governor).

  New governor program with adjustable governor parameter P/I brings excellent
- New governor program with adjustable governor parameter P/I brings excellent speed-governing function, keep the propeller revs stability when the load changes dramatically.
- Data logging records the standardized RPM, minimum voltage and maximum temperature of the flight.
- temperature of the flight.

  "Auto restart function" can manually interrupt the auto rotation and quickly restart the motor to avoid crashes caused by incorrect operations.
- Independent output port for RPM (that is: motor speed) signals. Separate programming port for ESC parameter setup through ALIGN ASBOX Multifunction
- Programmer.

  WIFI module for programming the ESC wirelessly with your smart phone (IOS or
- Androld).

  Allow for data checking, ESC programming, speed curve checking, and firmware upgrade online. (ALIGN ASBOX Multifunction Programmer or WIFI Express is
- needed)
  Multiple protections like start-up protection, ESC thermal protection, capacitor thermal protection, over-current protection, overload protection, and throttle signal loss

- 使用高性能微處理器 · 相容多種無別馬達 · 具備優異的定連和 緩放動性能
- 微處理器採用獨立的應壓IC給供電,具有更好的抗干擾能力, 降低失敗的可能性。
- 採用同步整濟驅動效率優化技術(DEO , Driving Efficiency Optimization),油門回避更快,驅動效率更高,電子調達器 資廠更低。
- 使用新的大功率開關挪壓BEC,輸出電壓在5-8V之間可調,瞬 開輸出電流提升至25A。
- BEC模組和電子調速器其他電路相互獨立,當電子調速器功率 极出現鎮線等故障時,最大限度保證BEC正常輸出,提供教機 課金:
- 极出现典数等故障的,最大能度保證BEC正常輸出,提供教機 機會: 與有 "因定異模式/直升機線性油門模式/直升機定速模式/直升 機存储定速模式" 4種飛行模式。
- 使用新的直升機定速程式,定速感度可關,易於操作;具有優 質的定速效果,在負荷急劃變化的情况下,保證螺旋藥轉速穩 定。
- 具有飛行資料記錄功能,可記錄舊次飛行的最低電壓、最高溫 度資料、最大電流、標定轉速。 與有寬火陽弦保護功能,在保護時期內可手數中翻熄火降落過 封立檢練電好取動販應。強企用生時而無趣。
- 程並快速重新放動馬達,發史因天疫而藍機。 具有轉速(RPM)親號輸出介面。
- 具備獨立參數設定介面,用於連接多功能LCD專業程式設計 ALIGN ASBOX 多功能設定會進行參數設定。
- 支援WIFI無線設定,通過手機端(蘋果&安卓)軟體可完成所有 參數投置(需要WIFI機組)。
   支援総上講取、設定電腦參數,查看速度曲線表(存儲模式 下),升級需子續速器固件(需要ALIGNASBOX多功能設定
- 盒或WIFI模組)。 具有放動保護、溫度保護、電管溫度保護、電流保護、適負荷 保護、測門信貸法大保護、輸入電壓異常保護多重保護功能, 而安廷寿電關使用書店

#### SPECIFICATIONS 產品規格

Model	Main Applications	Input Voltage	Cont./Peak Current (10s)	BEC Voltage
型號	應用範圍	輸入電壓	持續/瞬間(10秒)電流	BEC 電壓
	For 450-500 Class Helicopter (Propeller: 380~470mm) 450-500級電動直升機 (業長: 380~470mm)	3~6S LiPo Battery/11.1V~22.2V 3~6S鋰電池/11.1V~22.2V	80A/100A	Switch-mode, 5V~8V Adjustable Voltage (Step: 0.1V),10A/25A Cont./Peak Current 開發機型BEC・輸出電数5V~8V可購供 整備度換0.1V每階)・輸出電流持續 10A・瞬間25A
RCE-BL80A	Throttle Signal/BEC Output Wire/RPM Signal Transmission Wire		Size/Weight	Separate Programming Port
Brushless ESC	油門信號/BEC輸出線/RPM信號傳輸線		尺寸/重量	獨立參數程式設計介面
	White/Red/Black: Throttle Signal Wire; Red/Brown: BEC Output Wire; Yellow: RPM Signal Transmission Wire 白、虹、黑三色成為池門信堂線; 紅、棕二色線為BEC輸出 製:黃色為RPM信號傳輸線		70x38.2x20.4mm / 97g	For connecting ALIGN ASBOX Multifunction Programmer, WIFI module. 用於邊接ALIGN ASBOX多功能設定盒或 WIFI模組

#### **USER GUIDE 使田龄阳零**



The default throttle range of this ESC is from 1100 u.s. to 1940 u.s. so you need to re-calibrate the throttle range when the first time you use this ESC or after you replace the transmitter.

電子調速器的油門行程出廠預設值為1100 µs~1940 µs,當首次使用電子調速器或者更換其他遙控器使用時,均應重新設定油門行程。

#### I.Connections 接線示意圖

RPM Signal Wire(Yellow): plug it into the RPM input channel on the flybarless system. (This wire can be used for provide RPM signal data when using external speed-governing device

BEC Output Wire (Red/Brown): plug it into the battery channel or any unoccupied channel on the receiver. (For better BEC power supply, we recommend plugging this wire into the battery channel or any unoccupied channel on FBL system if the FBL system is permitted.)

Throttle Signal Wire (White/Red/Black): plug it into the throttle channel on the receiver or the corresponding channel on the FBL system, For which channel you should plug it in, it depends on what kind of receiver and FBL system you use. The White wire is for transmitting throttle signals, the Red & Black cables are parallely connected in the BEC output wire, which means BEC voltage output wire and ground cable.



- 🙆 RPM信號線(黃):插入無平衡翼系統轉迹輸入通道;(當使用外部定速時,可使用RPM信號線提供轉速信號輸入。)
- BEC輸出線(紅、棕):選條額外的BEC輸出總据入接收機電池専用通道或任意空間通道。(為獲得更好的BEC供電效果,在無平衡置系統允許的
- 情況下,建議將BEC線插入無平衡實系統的電池專用通道或任意空間通道。) ④ 油門信號線(日、紅、黒):据入接收機油門通道或無平衡質系統對應通道,具體根接收機類型及無副實系統類型而定。其中白線用於傳送油門信號,而紅線和黑線分別並聯在內部BEC的輸出號(即BEC電影輸出線和距線)。

The motor rotates in different direction with different brand ESCs. If the wrong rotating direction happens, please switch any two cables to make the motor rotates in right direction. 中於各品激素子變換級的馬達然動機的不應相同,美發牛轉向鎖螺旋,誘端馬達顯素子浸露的採線杆藥條對調用可。

#### II.Throttle Range Calibration 油門行程校準操作方法

During the ESC/Radio calibration, please set the throttle curve to NORMAL and ensure the corresponding throttle amounts to the maximum throttle endpoint and the minimum throttle endpoint on your transmitter are respectively 100% and 0%

進行油門行程校準時,講將油門曲線設置為NORMAL,並確保遙控器油門最高點對應的油門值為100%,油門最低點對應的油門值為0% Turn on the transmitter Connect the ESC to a battery. The 5 seconds later, the motor will emit two short beeps motor will emit ⊅ 123" indicating and move the throttle indicating the maximum throttle position has been the ESC is powered on normally successfully calibrated and accepted. stick to the top position. 開啟遙控器,將油門打到最 寫數 等待5秒,馬達發出"禪-禪-"雙短嶋音,表示油門最高點校 速成功 電子調速器接電池,馬達鳴叫"H23"提示音,表示供電正常

Move the throttle stick to the bottom position. 1 second later, a short beep will emit indicating the minimum throttle position has been accepted 將油門搖杆推到最低,等待1秒,油門最低點校準成功 The ESC will keep beeping A long beep represents indicating the number of LiPo system is well done, ready to cells you have plugged in. fly. 馬達發出N聲鳴音,表示鋰電池Cell數 馬達發出"彈"一聲長音表示系統準 備放緒,可隨時起發

ALICN

# PLEASE PRACTICE SIMULATION FLIGHT BEFORE REAL FLYING 积行前槽事先熟練雷彩維終飛行

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 flight until 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"

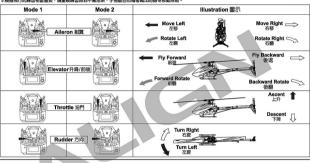
3. The simulation flight practice is very important, please keep practicing until the fingers move naturally when you hear operation orders being call out.

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 的構態的練,以多次發大養鄉上傳教政行,數級及稱方向的場合,並不解的兩海,實現其也可動達的飲料及與動作功方為。

將直昇機放在空曠的地方(確認電源為關閉),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.楼摄飛行的接雲相當重要,踏重複接雲直到不靈思索,手指能自然隨著賊出的指令路動控制。



#### FLIGHT ADJUSTMENT AND NOTICE 飛行脚略與注意

## **A** CAUTION

OCheck if the screws are firmly tightened.

OCheck if the transmitter and receivers are fully charged.

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. 假使飛行場有其心基控飛機,請確認他們的頻率,並告知他們愿正在使用的頻率,相同的頻率會變成于擾傳致失控和大大地增加風險。

#### STARTING AND STOPPING THE MOTOR **路動和停止馬達**

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。

· Check the movement. · 動作確認





ON! Step2 Connect to the helicopter power 接上直层機雷浪

A CAUTION Check if the throttle stick is set at

the lowest position. 確認油門搖桿是在最低的位置。

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

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Mode 1 @Are the rudders moving according to the controls?

◎Follow the transmitter's instruction manual to do a range test.
◎方向舱是否隨著控制方向移動? ○根據發射器證明書準行距離測試。

OFF! Step3

Reverse the above orders to tu 剔閉電源時間依上述操作動作反執行

Mode 2



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 Gyro, resulting in over-corrections.

將直升機置於柔軟地面上,建醬硬地起飛髮架装上避雲整圈。避免升空前腳架與過硬的地面雲動太大反饋至機身上的陀螺備,影響無平衡質系 統升空前過程修正。



# CAUTION

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 Gyro, and will disappear once helicopter lifts off the ground. If manual trim is applied, helicopter will tilt immediately after liftoff.

直昇機載地前,十字盤可能因陀螺鬢受震動的反饋,使十字盤有傾斜的情形,此時請勿刻唐將十盤修正為水平狀態,此現象只要難地升空時立即解除,可平現升空;若刻蔥將十字盤修正為水平時,反而會造成感應器過度修正,一難她即稱任修正方向的危險。

#### 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.
- 調整的先在其中一支主旋翼的翼端,贴上有颜色的贴紙或置上颜色記號,方便雙槳調整辨識。
   楊楊的推起油門搖桿到高點並且停止,在飛機整開地頁前,從飛機劇得觀察主旋翼翻動。
- A. 使我的推动的 15年75月前的假设国际企业等系统的是相同机器,具不需要则象对是如果一定扩展权高或权任定生"要果"的情形符,其必須立刻開整机器)。
- a. When rotating, the blade with higher path means the pitch is too big. Please shorten ball link for regular trim. b. When rotating, the blade with lower path means the pitch is too small. Please lengthen ball link for regular trim.
- a. 從翼轉動時較高軌跡的主旋翼表示螺距(PITCH)過大,請潤短連桿頭修正。 b. 旋翼轉動時較低軌跡的主旋翼表示螺距(PITCH)過小,請潤長達桿頭修正。

# CAUTION # W

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。

在網整軌跡後,確認一下Pitch角度在停旋時應為大約+5~6°。

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. \$5-6\* When hovering.

Color Mark 有標示記號的主旋翼



# FLIGHT ADJUSTMENT AND NOTICE 飛行調整與注意

# FORBIDDEN



©Do not attempt to grab or make contact with the helicopter while the main blades are in motion and keep your eyes away from the helicopter. During take-off, landing, and flight, be sure to keep the helicopter away from all obstacles. Operators must stand at least 10 meters away from the helicopter to avoid injury caused by losos parts due to improors assembly or any unforeseen dangers.

《嚴禁用手抓取達行中的直昇模,並禁止將直昇機對著眼睛,當主旋翼轉動後,或起飛/試飛持,務处適難障礙物,站立位置必需距離 10公尺以上,資单因人為組碎不做当然案件的策,而引發不可隨即的財物及人員指揮。

# A CAUTION

Make sure that no one or obstructions in the vicinity.

©For flying safety, please carefully check if every movement and directions are correct when hovering.

○確認製近地區沒有人和障礙效。

○為了飛行安全,你必須先確認停務時各距操控動作是否正常。

# **企**CAUTION 注意

Do not attempt to fly until you have some experiences with the operation of helicopter. 要禁無約鍊操抑發行經驗者操抑飛行。

#### 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. Keen practicing this action until you control the throttle smoothly.

○當直昇機開始鮮地時,楊楊隆低沖門將發楊陛下。 持續練習發楊從她面 上升和下離古到你譽得油門控制復順。





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

1.Raise the throttle stick slowly.

2. 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.









@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. If the helicopter flies too far away from you, please land the helicopter and move your position behind 10M and continue practicing.

○當直昇機機面質移時,這提低油門並日降落,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。

〇假如直昇機飛離你太遠,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 方向舵操作練響

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 its original position.

1.標備升起油門搖煤。

2.将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. 當你覺得 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,以增加你操控的準確度。

③You can draw a smaller circle when you get more familiar with the actions. ◎當你更加習情操作動作,你可以需更小的關關。



#### STEP 5 DIRECTION CHANGE AND HOVERING PRACTICE 內變百昇機方向和練習停旋

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 right in front of the helicopter. 當你優得STEP1~4點作熟悉了,站在面對直昇機倒邊並繼續接頭STEP1~4。之後,站在直昇機機砸右海雷療步驟練習。











	Problem 狀 況	Cause 原 因	Solution 對 策
Blade Tracking 雙槳平衡	Tracking is Off 雙樂	Pitch linkage rods are not even length PITCH連桿長度調整不平均	Adjust length of ball link. 調整漂桿藥長衰
	Headspeed too low 主旋異傳速偏低	Excessive pitch 主設質的PITCH低高	Adjust ball link to reduce pitch by 4 to 5 degrees. 则整理神濟環境Pitch约+4~5服
Hover		Hovering throttle curve is too low 停懸點油門無線過低	Increase throttle curve at hovering point on transmitter (around 60%) 掮高停懸點油門曲線(約60%)
停懸	Headspeed too high 主政興時速順減	Not enough pitch 主旋翼的PTCH偏低	Adjust ball link to increase pitch by 4 to 5 degrees. 與整連件要調高Pitch的+4~5度
		Hovering throttle curve is too high 伊瑟默治門主統義高	Decrease throttle curve at hovering point o transmitter (around 60%) 調度停懸點油門曲線(約60%)
	Drifting of tail occurs during hovering, or delay of rudder response when centering rudder stick.	Rudder neutral point improperly set 尾中立點設定不當	Reset rudder neutral point 重聚唯中立點
Rudder Response 尾舵反應	停懸問尾翼向某一邊傷移,或撥動方向的 並回復到中立點時,尾翼產生延遲,無法 停頭在所控制位置上。	Rudder gyro gain too low 尾形陀螺偶感度偏低	Increase rudder gyro gain 地加尾舵陀螺條感服
	Tail oscillates (hunting, or wags) at hover or full throttle 停懸或全油門豬尾翼左右來回搖擾。	Rudder gyro gain too high 尾約陀螺值想接值高	Reduce rudder gyro gain 肾低尾胞陀螺磺磺酸

lf above solution does not resolve your issues, please check with experienced pilots or contact your Align dealer. ※在微完以上調整後、仍然無法改善情况時,應立即停止飛行並向有經驗的飛手將跨或連絡您的經銷商。

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## Specifications & Equipment/規格配備:

Length/機身長:935mm

Height/機身高:259mm

Main Blade Length/主旋翼尺寸:470mm

Tail Blade Length/尾旋翼尺寸:69mm Main Rotor Diameter/主旋翼直徑:1054mm

Tail Rotor Diameter/尾旋翼直徑:219mm

Motor Pinion Gear/馬達齒輪:12T

Main Drive Gear/傳動主齒輪:134T

Autorotation Tail Drive Gear/尾傳動主齒:130T

Tail Drive Gear/国翼傳動齒:34T

Drive Gear Ratio/齒輪傳動比:11.17:1:3.82

Flying Weight(without battery)/全配重(不含電池): Approx. 1462g

