# **ALIGN**

# 使用說明書

RH70E23XT RH70F25XT



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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 Illustrative 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 publications.

承蒙閣下選用亞拓遙控世界系列產品,謹表謝意。使用前,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, 以做為日後參考。本公司將不對此印刷物之異動負責,也無法主動通知消費 者任何更新或異動。所有圖片僅用於展示目的。產品可能因改良而有些不 同。本說明書內記載的材質、規格或零件包裝之內容物如有異動,請依亞拓 官網公告為主。

Thank you for buying ALIGN Products. For further usage and assembling, please read T-REX 700X Dominator instruction manual carefully. Be sure to retain the manual for future reference, routine maintenance, and tuning. The T-REX 700X Dominator is a new product developed by ALIGN. It not only provides flying stability for beginners, but also full aerobatic capability for advanced filers. T-REX 700X Dominator is the best helicopter and best choice for your form.

感謝能選關定托差品,為了讓您容易方便的使用 T-REX 700X Dominator 直昇機,講您詳細的剛護完這本說明書後再進行甜養以及操作,同時謂您更善保存作為 日後進行調整以及維修的参考 - T-REX 700X Dominator 還由亞拓自行奇強的斯查岛,不論您是需求飛行機定性的初季者或是追求性能的飛行變好者。 T-REX 700X Dominator 基際經濟終中候

## WARNING LABEL LEGEND 標誌代表涵義



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. 因為確認複數學作物與,而使用鍵線可能強成財產指生物器管備書。



Mishandling due to failure to follow these instructions may result in danger. 因為疑念這些操作說明,而使用錯認可能造成保險。

## IMPORTANT NOTES 重要發明

RIC helicopters, including the T-REX 700X Dominator are not toys. RIC helicopter stille available, high-steh products and technologies to provide superior profromance, improper use of this products and stell in service injury or even death. Please read this manual carefully before using and sease were to be conscious of your personal safety and the safety of others and your newtonement when poertiag all ALIOS products. Manufacturer and selfer issuem on lability for the operation or there use of this product is intended for use only by adults with experience flying remote control lepicopters at a legal flying field. After the sale of this product manufacturer and selfer cannot maintain any ocontrol over tis operation.

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.

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金部的責任之人。

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 700X 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 consultation and parts 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.

## SAFETY NOTES 安全注意事項

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#### ▲ CAUTION 注意

RIC helicopters and airplanes require highly attention and cautions. Fly only in safe areas, away from other people. Do not
operate RIC aircraft within the vicinity of homes or crowds of people. RIC 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 RIC aircraft models.

 Prior to every flight, carefully check rotor head spindle shaft screws and tail blade grip screws, linkage balls and screws, ensure they are firmly secured.

- 施克提·加热· 克耳·機關在您就在他名。所付海肠心臟亂人甚一人為相稱不常認與性利潤。 電子於助設備不良,以及接從上的不熟悉、都有可能等致飛行失控 頂傷等不必預期的應外,填稿行者防心注意飛行安全,並順了解自負無忽所造成任何應分之實生 - 德周殊行衛務使于上世漢東之機轉越縣、紀世漢史機議林,以及與身各都已证策,領赫、橫貫上聯陳某才能升空飛行。 COCATE AN APPROPRIATE LOCATION 遠離障礙物及人群

R/C helicopters fly at high speed, thus posing a certain 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. Do not fly your model in inclement weather, such as rain, wind,

直昇機飛行時具有一定的速度,也潛在著危險性,場地的選擇非常重要,謂遵守當地法規,並在空襲合 法事屬飛行場地飛行,汪應局適用沒有人、本需查。建築物、高壓電線、樹木等等,是兔不蕾的操控造成 自己具他人用產的損壞。調勿在下傳、打雷等姿会大揆下操作,以傳保本身及機能的安全。



○ FOREIGDEN 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. Always follow closely the manufacturer's instructions and warnings when disposing of Lithium Polymer batteries. Mishandling of Li-Po batteries can result in fire.

鍵聚電池跟一般在RC使用的鹼性電池、鏡網電池、鏡橋電池比較起來是相對危險的。讀嚴格遵守鍵聚電池說明書之使用注意事項。不恰當使用鍵聚電池,可能造成火災並屬及生命財產安全,切勿大意!



○ FCREIDDEN PREVENT MOISTURE 遠離潮濕環境

snow or darkness.

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. Do not operate

or expose to rain or moisture. The exposure to water or moisture in any form can cause the model to malfunction resulting in loss of use, or a crash.

直昇機內部也是由許多精密的電子零組件組成,所以必須絕對的防止溯蔣或水氣,避免在浴室或兩天時 使用,防止水氣排入機身內無而僅較操性及應子零性內險而可發不可預期的簡似!



○FOREIDDEN 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 RIC model, so do not use for other purpose. 请勿自行及造加工。任何的什么改变或道德,请您用见还是品目数中的专件,以简保託簿的更多。请商股产是品级用外操作,都分选载使用,並勿用依安全、法令外真它非法用途。



▲ WARNING OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT 遊免獨自操控

Before turning on your model and transmitter, check to make sure no oneelse 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 unforced danger may happen. (Recommend you to practice with computer-based flight simulator.)

至賴行場所行前,需義認思各有相同類似的與於正性行所行,因為與於何周頻率的發發機就導致自己 與他人工即計學等頭外包點。並把於賴維接技巧在學習的兩百者一定的發展,要重量是來與自接外 行,需用翻動的人士在我排導,才可以被控飛行,否則將可能造成不可預期的度外發生。(動獎電腦模 擬聚及老手那種是入門包裹的現實)



## ▲ WARNING 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,通於疲勞、精帥不佳或不當操作,意外發生風 發將可能會提高。不可在親線範圍外進行,降落後也讓馬上賴掉直昇機和遙抄經彙源。



# ↑ CAUTION ALWAYS BE AWARE OF THE ROTATING BLADES 遠鮮運輸中零件

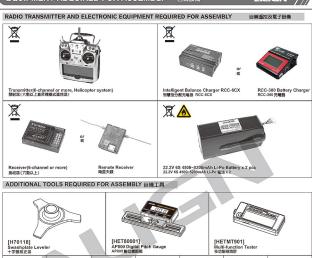
During the operation of the helicopter, the main rotor and tail rotor will be spinning at a high rate of speed. The blades are capable of inflicting serious bodily injury and damage to the environment. Be conscious of your actions, and careful to keep your face, eyes, hands, and loose clothing away from 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 第上的嚴重语信,這勿斷損害額由的主報擊與尿症擊,並保持安全短難以發色洪底台級及指信。



## ↑ CAUTION KEEP AWAY FROM HEAT 遠離熟源





# Cutter Knife 刀子 PACKAGE ILLUSTRATION 包裝說明

Philips Screw Driver

Hexagon Screw Driver

六角螺絲起子

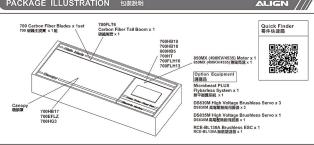
2mm/1.5mm

3mm/2.5mm/

# ALIGN

潤滑油

野門屋



Needle Nose Pliers

There are many versions of T-REX 700X Dominator for your choice. The Super Combo includes additional electronics and other equipment. The Instruction Manual will refer to the T-REX 700X Dominator Super Combo. You may purchase any additional items referenced in the instruction manual or any spare parts for other 700X Dominator version by referring to more product information in this manual.

T-REX 700X Dominator 系列商品有多種版本可作為選擇,除標準配 佛會因您購買的商品版本而有些微不同,在組裝、設定上都是一致







## 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 battery capacity of transmitter and receiver are enough for the flight.
- Before turn on the transmitter, please check if the throttle stick is at the bottom position. Autorotation and 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 to prevent unexpected danger due to broken servos.
- 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
- · 每次飛行前應先確認所使用的頻率要否會干擾他人,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。
- · 驗機前確認油門總經是否位於最低點,熄火降落開闢,定速開闢(IDLE)是否於關閉位置。
- · 脉横的必須遵守電源開幕機的程序,開機時應先開股發射器後,再開股接收器電源;關機的應先關閉接收器後,再關閉發射器電源。不正確的開幕程序可能會 造失控的現象,影響自身與他人的安全,請義成正確的習慣。
- · 開機關先確定直昇機的名偶動作是否順編,及方向是否正確,並給查伺服器的動作是否有干涉或稍縮的情形,使用故障的伺服器格構致不可預期的危險。 · 飛行前確認沒有缺少或點說的螺絲娛螺帽,確認沒有組終不完整或捐毀的零件,仔細總查主說實是否複編壞,特別是接近主說實來應的館位。損壞或組終不完
- 整的零件不僅影響飛行,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。
- 檢查所有的連桿領是否有緊急的情形,過緊的連桿頭應先更新,否則將造成直昇機無法操控的危險。
   確認需過及看受核系是否因定定機,系行力的電影或等別如飛行,可能透磁需等域級壓壓層而完成生物的危險。

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

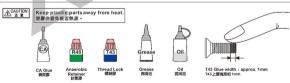
- OIL: Add small amount of OIL. 潤滑油:添加適量潤滑油



control

- R48:Apply small amount of Anaerobic Retainer to fix. 的知识 (中国海南部城隍园)中
  - Grease: Add small amount of Grease.
     満滑油:添加適量潤滑油
- T43: Apply small amount of Thread Lock to fix. 螺絲膠:使用適量螺絲膠

When assembling ball links, make sure the "A" character faces outside. 各国贸易数债权函扣按捺,"A "学额额外。

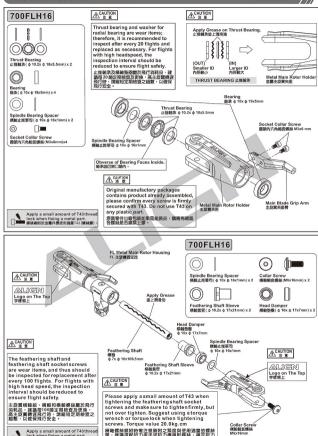


- Anaerobic Retainer (R48) is green penetrating threadlocker and is used to fix the metal tube before assembly at temperatures up to +180°C •
- 2. Thread Lock(T43) is blue low strength threadlocker and is applied to the small screw(threads) or metal parts before assembly to prevent loosening. Ensure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

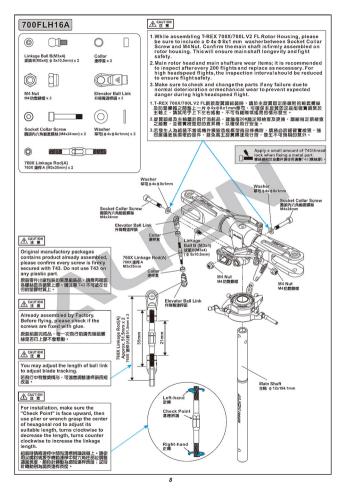
- 1.缺氧器(R48)為綠色高強度快速固化的缺氧器,適合於金屬管狀固定用,可耐高溫至180°C。
  2.螺絲器(T43)為藍色低強度擴絲器,適合小型螺絲;使用於金屬內外徑或膠合螺絲時,請務必適量使用,必要時請用手去除多餘器量,欲拆卸
- 時可於金屬接合部位熟締約 15 秒。 3.润滑油 (Grease) 為舊狀潤滑油,適用於單向輸承或止推輸承。
- ② 上述名類功能關(油)建位零件量件需求自行達權並設制其用量,以達到長佳組裝款幣,發免因使用不當造成零件指表或不可預期的意外發生。

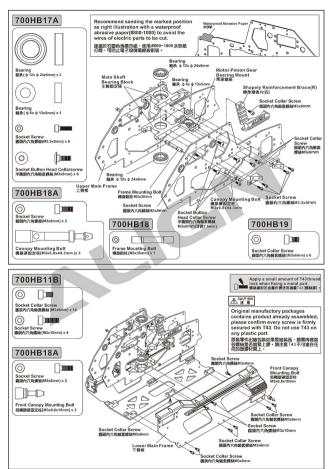
lock when fixing a metal part. 國籍翻散於命國件類停用海圈T43(螺絲器)



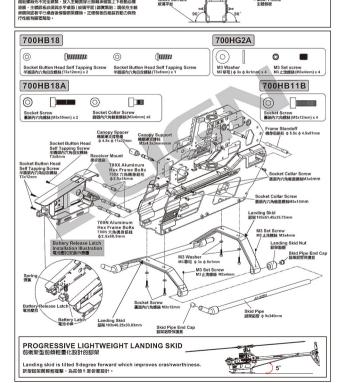
值 为20.0kg.cm。

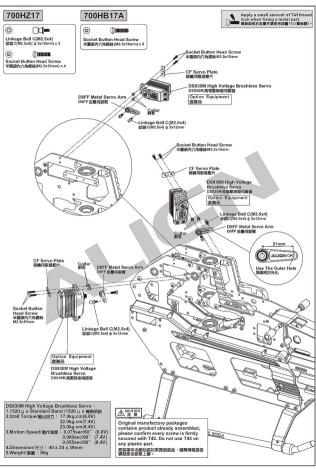
## 700FLH16 Apply a small amount of T43thread lock when fixing a metal part. 螺絡器附於金屬件調使用證實T43(螺絲膠) Bearing Bearing 飽汞( \$ 3x \$ 7x3mm) x 4 記录( \$2x \$5x2.3mm) x 4 Original manufactory packages contains product already assembled. please confirm every screw is firmly Washer Ψα5Πer Collar 華司(φ3xφ4.8x0.3mm) x 2 指臂軸承被裏(φ3xφ4.8x1.5mm) x 2 secured with T43. Do not use T43 on any plastic part. 原裝零件出廠包裝如果是組裝品,請需再確認 各類結是否領緊上膠。請注意 T43 不可塗在任 何的的際材質上。 700FLH13 (O) 700N Linkage Ball B(M3x4) 700N 設備 B(M3x4)( ф 5x12mm) x 6 Long Linkage Ball (M3x4) 導板長球頭 (M3x4) ( φ 5x29mm) x 1 700FLH16A Socket screw 圆頭內六角螺絲(M2x5mm) x 4 Socket Screw 問頭內六角螺絲(M3x12mm) x 2 Bearing Milk & 2x & 5x2.3mm 0 Degree Pitch Marke Radius Arm Socket Screw 圓頭內六角螺絲 M2x5m Collar Web or a **樹質帕承収**套(φ3xφ4.8x1.5 Bearing 野承 女3x 女7x3mm Control / 控制階 700N Linkage Ball B(M3x4) 華司 ф 3x ф 4.8x0.3mm Socket Screw 質面內六角螺絲 M3x12mm Long Linkage Ball (M3x4) 湯板侵球頭(M3x4) φ 5x29mm CCPM Swashplate CCPM 十字盤組 Use The Outer Hole 請網附於外孔

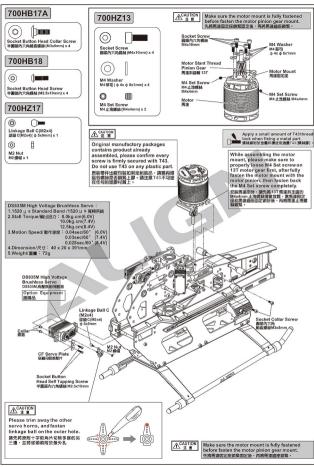






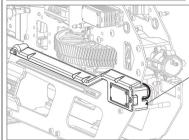






## SERVO WIRING ILLUSTRATION

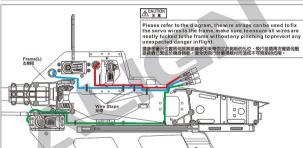
88.翠缤绵云音画

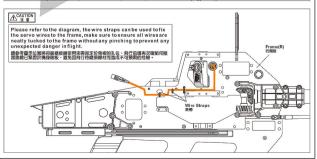


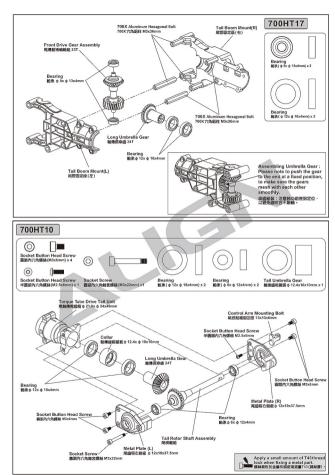
## INNOVATIVE SERVO EMBEDDED MOUNT 獨劇伺服器嵌入式基库

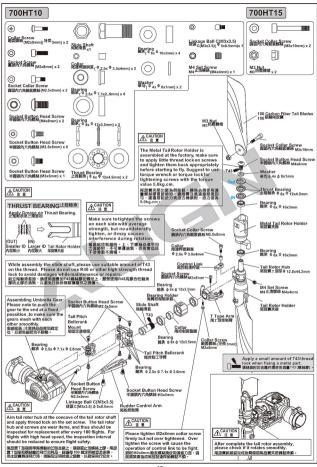
Servo mount manufactured using the latest composite material technology to integrate carbon fiber and POM (polyacetal), which efficiently strengthen its protective function and reduces abrasion of signal wires.

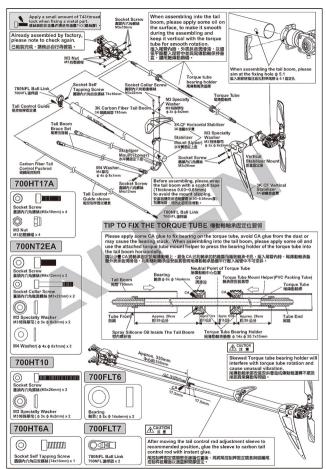
採用複合材質技術將碳纖板與POM塑鋼材質運用於伺服器 率,有效增強保護效果並降低飄號線的廳指。

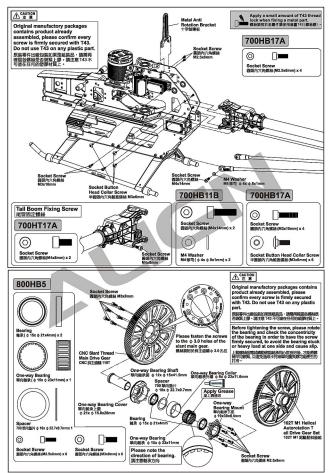


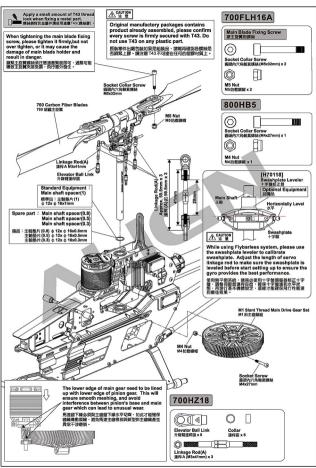


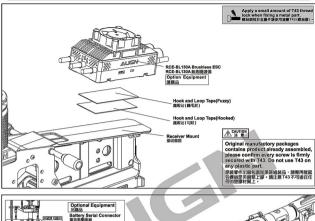


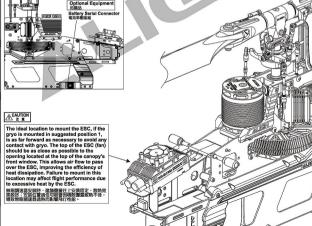












Apply a small amount of T43 thread lock when fixing a metal part. 螺絲藥院於金屬作講使用酒蘭T43 (螺絲膠)

Original manufactory packages

any plastic part.

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

原装零件出版包装如果是組裝品,請需再確認 各螺絲是否銷聚上膠。請注意 T43 不可塗在任 何的型膠材質上。

# **企**CAUTION 注意

#### 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請至官網下數專屬下載。

http://www.align.com.tw/beastx/ Microbeast PLUS provides 8 different direction choices can 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指示像状紫癜示安装方向:



Status LED Off Status LED Status-LFD 標榜等\* Flashing Purple



Status-LED 燈

Status LED Purple



Flashing Red Status-LED 燈

Status-LED 燈紫色



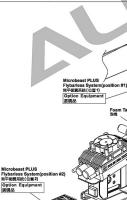
ST 65 DE RE

Status LFD Red Status-LED 燈紅色 Front 機頭方向

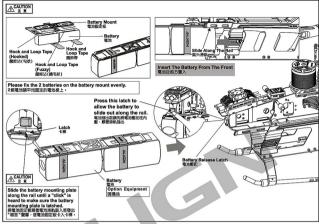
Status LED Flashing Blue Status-LED 檢驗角別盟 \*Factory Setting \*出廠預設值

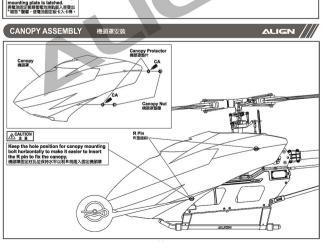
Status LFD Blue Status-LFD 494E65

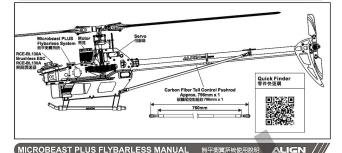
Status LED Flashing Red/Blue Status-LED # 紅色/藍色同時閃舞











MICROBEAST PLUS Flybarless System as ALIGN helicopter standard equipment, must be 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 無平衡體系統,須搭配 ALIGN 直昇機構等配件(主旋雙、伺能器、馬掌)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 & Indead. The property of the property

2. Please refer to BEASTX MICROBEAST PLUS/HD website for MICROBEAST PLUS/HD assembly and setup instruction.

3. Any över use, incorrect setup, missassembly, incorrect modification or misuse will lead to abnormal voltage, electronic devices dramage, 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 unforessen damage.

1. 安裝、操控您的直貨機將,如非使用 ALIGN 標準配件 (含電子配件、主旋簧等),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、健議您升級使用 MICROBEAST PLUS HD 無平衡實系統(強配),以能確保充足、緩冷物能與果雷道。

2.MICROBEAST PLUS/HD使用、砂定、搭線,請急避BEASTX MICROBEAST PLUS/HD空方短期。

 任何電子配件、零件的設定、組裝、條故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,每趨飛行前須注意 任結核音,防止機能及當子需性放懈而引發不可預期的管外。

## MANUAL LINK 設定操作連結

MICROBEAST PLUS Flybarless System is the latest version out of the factory, please feel at ease using it. You can also link to BEAST MICROBEAST PLUS Flybarless System has available some different versions, act wersion and stifferent 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 13.2%. To 4.7.X by ourself, in order to avoid mitsake or loss by any insunderstanding, please be sure that you have correct version and follow its setting method accordingly. And please refer to MICROBEAST PLUS V3.2.x and V4.2 instruction manual for operating and setting.

MICROBEAST PLUS無平衡展系统,出處許主程式已是重新版本。他也可以連結至BEASTX MICROBEAST PLUSHP它網查詢。隨時更新最新版 本及各項最新訊息。部分版本码升級而設定及功能會有所不同,精確定能必將本並詳辨其故明書,尤其您是由 V3.2 x 升級至 V4.x x ,請務必深入 了解版本之間的設定功能,以免錯誤而造成損失,操作設定請問時参解V3.2 x 版及V4.2 版是用說明書。



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匾下載。 http://www.align.com.tw/beastx/

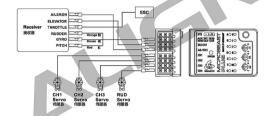


## PARTS IDENTIFICATION 各部位名籍

## MICROBEAST PLUS FLYBARLESS SYSTEM 無平衡翼系統



## MICROBEAST PLUS FLYBARLESS SYSTEM WIRING DIAGRAM 無平衡翼系統接線示意圖





For detail connectivity, please scan QR Code then follow MICROBEAST PLUS manual. 解絕接線方式,請將提QR Code 連結至MICROBEAST PLUS說明書。

#### **企**CAUTION 注意



MICROBEAST PLUS HD Flybariess 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 electromic 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 PLUS HID (optional) for better power back up. Please refer to EBASTX website for MICROBEAST PLUS HID assembly and setup instruction.

交裝、操舵应的直昇機時,如非使用ALIGN標準配件(含電子配件、主提質等),轉換必確定您的供電系統有足夠的供電能力,如發 現電觀異常,供電不足,建築您升級使用MICROBEATP PLUS HD 展平衡膜系統(建配),以能應使充足、穩定的接皮器電源。 MICROBEATP PLUS HD 使用、数定、接触、摄像器 MICROBEATS PLUS HD 包含方途嵴。 To set this option is to turn on the transmitter and connect to BEC power.

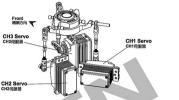
Note: For the safety, please do not connect ESC to the brushless motor in order to prevent any accident caused by the motor running during the setting.

此頂股常只要關放發射器,接上BEC電道即可推行操作。

注實: 為了安全配目,發定前請牛不要將無國國漆架即無國區漆三條榜終上,以金領結時的動區漆而發生余條。

## SERVO CONFIGURATION 伺服器配置

Following the servo configuration diagram on right, plug the servos to Gyro. 請依照右團團示的伺服器名襲,將伺服器接到贮螺織。



## ADJUSTMENTS FOR GYRO AND TAIL NEUTRAL SETTING 院際議具軍領中立對設定開整 本上してい

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 settling the transmitter, connect the helicopter power and proceed with rudder neutral point settling. Note: When connecting to the helicopter power, please do not touch tall rudder sick and the helicopter, wait for 3 seconds for gyro to enable, and the rudder serve hom should be 90 degrees to the tall serve. It all pitch slider should be halfway on the tall output shaft. This will be the standard rudder neutral point. After completing this settling, set the gain switch back to heading lock mode, with gain at around 70%.

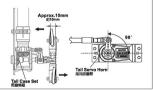
發射部內於繼續設定轉屬跨程能證於構式,並將發射器上的感度階級與於機能可管"非新定模式"或將於繼續將疫期限。發射器設定完成後接上臨界機電源,即可 進行規能中立該設置,注意"接接上自界機電影時間沙壓動能能能模型或跨機機器,待当沙延續時期表现後,是而被背陽與尾向肢系的成 90度,尾旋翼控制服須 正暗暗於后機器的中國所言,影場無理原於中心等談響,整理宗教的,持衛等等。除性或一家發發射 10% 去不

## TAIL NEUTRAL SETTING

## 尾中立點設定

After the gyro is enable and under non-head lock mode, correct setting position of fall 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.

的螺儀器機後,在非鎖定模式下,尾側級幾與尾 Pitch控制組正確機置位 置。若尾 Pitch控制組未置中時調線整尾控制連幹的長度來修正。



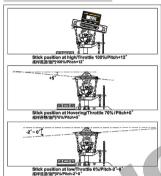
## HEAD LOCK DIRECTION SETTING OF GYRO 於螺構鎖定方向約5

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".

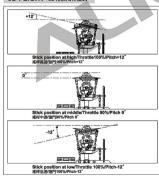
於螺機鎖定方向確認,營手搖尾部順時鐘運動,尾伺服臂應反時鐘修 正,反向時請切換陀螺模上"鎖定反向"前關修正。



## GENERAL FLIGHT 一般飛行模式



## 3D FLIGHT 3D特技飛行模式



ACTION 1. Pitch range: Approx. ±15...

2. 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.

- 1.螺距(Pitch)總行程約 ±15°。
- 2.過大螺距設定,會等致動力與飛行時間降低。 3.動力提昇以較高轉速的設定方式,優於螺距跟大的設定。

# GENERAL FLIGHT 一般飛行模式

	Throttle iars	Pitch 螺距
5	100%High Speed 100%高速	+12*
4	85%	
3	60%~65%Hovering 60%~65%序数	+5"
2	40%	
	0% Low Speed	2" - 0"



Pitch and Rotation Speed Pitch與轉進縣係 

## IDLE 1:SPORT FLIGHT

	Throttle 油門	Pitch 螺旋
5	100%	+10*~+12*
4	75%	
3	70%	+5°
2	75%	
1	80%	-5"



## IDLE 2:3D FLIGHT

-		Throttle 油門	Pitch ##	
	5	100% High 100%高	+12*	
Ī	3	85% Middle	0*	
Γ	1	100% Low 100%(E	-12°	



#### RCM-BL850MX (490KV/4535) 無別馬達 RCM-BL850MX (490KV/4535) MOTOR

Power and torque requirements of enthusiasts, the high output 850MX motor was born in Align's R&D lab. With dramatic increase in torque and power output, capable of 5100 watts continuous power output and 11000 watts of burst power!

850MX Motor has passed various thorough inspections made by our technical department, including motive testing, static testing. magnetic field testing, heat resistance and magnetic loss testing, running balance and vibration testing, noise testing, and many hours of actual loading and flying testing, etc. Align is proud to provide the latest innovations in RC Modeling to its consumers. Please enjoy your Align products safely.

亞和特別針對玩家大動力、高扭力的需求,研發設計出為極致動力而生的850MX 馬達,動力輸出與扭力表現大幅提升,持續輸出功率達 5100W ,瞬間最大輸出功 家可達 11000W。本公司牛牽的高扭力真難來 850MX 馬達,適用於 RC 雷動商品,其高功家高效家輸出結件,適合雷動發揚/雷動百處勝之高扭力高轉來驅動動力 用途,该医控制可提本公司或市值投格無例要子對決敗。顧子採用高限性材料的業別總數而成,定子採用本家NC自動解線與高效医療的成型授權,制高為任策 動。小輪探高硬度高線件軸承線及等ZZ高速機物軸承線計,目經由亞斯獨立開發熱計技術,使用壽命長、玄藍高、耐養不易變形、低磁槽、高效能 850 型無別無 速。怒頂新商品已通過本廠投資單位,實施精密嚴格動、靜應,磁場特性、強磁耐高溫磁揚、連轉平紫ლ動及場合、自動會到飛行前時件能等全角壓料的到。

#### SPECIFICATION 尺寸規格 IIIISTRATION 接線示意圖 (Unit was mm) Reds ST DC Power ESC DC TOWN Rlack- se Throffle Signa (Receiver) 31PREM ( 164V 181)

κν	KV值	490KV(RPM/V)	Input Voltage	輸入電壓	128
Stator Diameter	定子外徑	45 mm	Stator Thickness	定子高度	35mm
Stator Arms	砂鋼片槽數	12	Magnet Poles	磁鐵種數	10
Max Continuous Current	最大持續電流	115A	Max Instantaneous Current	最大瞬間電流	250A(2sec)
Max Continuous Power	最大持續功率	5100W	Max Instantaneous Power	最大瞬間功率	11000W(2sec)
Dimension	RJ	Shaft #6x56.7x112.5mm	Weight	重量	Approx. 570g

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. 由於各品牌電子變速器的馬達放動轉向不盡相同,若發生轉向錯誤詩,讀將馬達與電子變速器的接線任兩條對照即可。

#### RCE-BL130A BRUSHLESS SPEED CONTROLLER INSTRUCTION MANUAL 無副調速器使用說明 ムレばらい

## PRODUCT FEATURES 產品特色

Option Equipment 500 RM CD.



Express is needed)

RCE-BL130A 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-BL130A無別類读器可透過ALIGN ASBOX 多功能設定會進入參數設定,隨橋描QR Code 連結亞柘網的下載相關資訊; 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 IC 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 peak current of 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 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.
- · "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 Android)
- Allow for data checking, ESC programming, speed curve checking, and firmware upgrade online. (ALIGN ASBOX Multifunction Programmer or WIFI

- 使用高性能微處理器,相容多種無刷馬達,貝倫**德**異的定達和 網客動性能
- 他處理發採用獨立的穩壓IC給供電,具有更好的抗干攝能力, 断低失控的可能性。
- 採用同步整流驅動效率優化技術(DEO・Driving Efficiency Optimization),油門回豚更快・驅動效率更高・電子網速器 涿鹿田任。
- 使用新的大功率關緊德壓BEC,輸出電壓在5-8V之間可調, 廢開輸出電流排升至25A。
- ·BEC模能和電子調速器其他電路相互確立。當電子調速器功率
- 具有 "固定質模式/直昇機線性油門模式/直昇機定速模式/直昇
- 機存儲定速模式"4種飛行模式。 使用新的直昇機定速程式,定速服度可調,易於操作:具有優 因的定途效果,左自為合何關心的議定下,是機能改善關連報
- 具有飛行資料記録功能・可記 度資料、最大電流、標定轉速 **網常次飛行的房供電影、長高深** 具有無火降落保護功能,在保護時間內可手動中斷塊火降落過程並快速重新將動用漆,要受用失控而墜機。
- · 具有轉漆 (RPM) 訊號輸出介面。 · 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 多功能設定盒進行參數設定。 支援WIFI無線設定・通過手機端(IOS or Android).軟體可完成
- 所有參數股置(需要WiFi模組) 支援線上護取、設定電股定數,查看速度曲線表(存態模式下 ),升級電子製速器固件(需要LCD参數設定盒或WIFI機組
- 26

## SPECIFICATIONS 產品規格

Model 型號	Main Applications 應用範圍	Input Voltage 輸入電壓	Cont./Peak Current (10s) 持續橱間(10秒)電流	BEC Voltage BEC電壓
RCE-BL130A Brushless ESC	For 600-700 Class Helicopter (Propeller: 600-700mm) 600-700級電動資昇機(榮長 : 600-700mm)	6~12S LiPo Battery (22.2V~44.4V) 6~12S鋰電池 (22.2V~44.4V)	130A/200A	Switch-mode, 5V~8V Adjustable Voltage (Step: 0.1V), 10A/25A Cont./Peak Current 開碁掲載とC・輸出電変5V~8V可期(調 整個販為0.1V容前)・輸出電流持續 10A・開稿25A
	Throttle Signal/BEC Output Wire/RPM Signal Transmission Wire 油門信號/BEC輸出線/RPM信號傳輸線		Size/Weight 尺寸/重量	Separate Programming Port 獨立參數程式設計介面
	White: Throttle Signal Wire / Red/Black, Red/Brown: BEC Output Wire / Yellow: RPM Signal Transmission Wire 白色為泗門信號線照黑和虹棕一色線為BEC輸出線/黃色 為RPM回號傳輸線		92x45.5x28.5mm/195g	For connecting ALIGN ASBOX Multifunction Programmer, WIFI module, or cooling fan. 用於建接多功能LCD專業程式設計設 定盘或WIFI模組,可為輔助散熟風 展供電

## USER GUIDE 使用說明書

## A CAUTIO

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

  2. Using RCE-B-130A ESC for T-REX 700, suggest not to set pitch over 13 degree and keep RPM lower than 2100RPM to
  - 2.Using RCE-BL130A ESC for T-REX 700, suggest not to set pitch over 13 degree and keep RPM lower than 2100RPM to prevent ESC overload and causing any unexpected danger during flight.

    3.If ESC happen to occur overcurrent and overloading, please land the helicopter immediately or it will cause damage to ESC

  - 2.1 NEX 70196 ENCE-61.130 A電子製造型使用時。且并微微大眼型建築个型613%,主定興轉速度也於文並使用轉速製劃。緩緩不過過 2100RPM 基礎因終行時。電訊截截返過電子整理發表等,是成不可稱用愈變。 3.若電子製造器壁生過電流、過載或溫度保護時,購工即降落停止飛行。不可無較電子製造器保護狀態下持續飛行,否則將會造成電子製造器依 基本型網。

## 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 providing RPM signal data when using external speedgoverning 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); plugi linto the throttle channel on the receiver on the corresponding channel on the FBL system, such as RX & channel on the FBL system, such as RX & channel on the VBAR system. For which channel you should plug it in, it depends on what kind of receiver and FBL system you use. The White where is for trainsmitting throttle signals, the Red & Black cables are parallely connected in the BEC output and ground watch.
- Battery

  ESC

  # 5 mass

  Battery

  Andorr

  Ra
- RPM信號線(黃): 括入無平衡翼系統轉速輸入通道;(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、株):還機額外約BEC輸出線接入級收機電池等用適道或任息空間通道・(為獲得更好的BEC候電效果・在無平衡實系統允許的情況下、建築將BEC機構入無平衡費系統的電池等用透過或任意空間通道。)
- ◆ 油門區號線(日、紅、震): 插入接板療法門透道或無平衡質系統對震過道。如VBAR系統的RXB過道。依接板機類型及無平衡質系統類型而定。其中 白線用於傳送池門信號,而紅線和黑線分別並聯在內部BEC的輸出版(即BEC電影輸出線和地線)。

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

**企**CAUTION 注意

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,請將油門曲線設置為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 and move the throttle stick to the top position. 開版遙控器,將油門打到最高 點 Connect the ESC to a battery. The motor will emit "> 123" indicating the ESC is powered on normally. 電子開速器接電池,馬達鳴叫"。/123"提示音子表示供電正常

5 seconds later, the motor will emit two short beeps indicating the maximum throttle position has been successfully calibrated and accepted.

等待5秒・馬達登出"嗶嗶"雙翅鳴音・表示油門最高點校準成 労

Move the throttle stick to the bottom position. 1 second later, a short beep will emit indicating the minimum throttle position has been accepted. 
窓油門線杆學習

The ESC will keep beeping indicating the number of LiPo cells you have plugged in.

馬達登出N整鳴音,表示聲電池Cell數

A long beep represents system is well done, ready to fly. 馬達發出"哩"一聲長音表示系統準備 可能的影響



## PI FASE PRACTICE SIMULATION FLIGHT BEFORE REAL FLYING - 吸行的請惠生熟練需燃煙燃料

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 rudgers, 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 vourself.

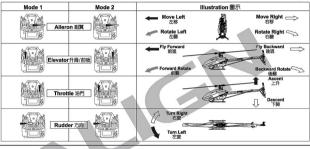
"Throttle high/low", "Alleron left/right", "Rudder left/right", and "Elevator up/down"

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

在道沒閱解直具概各動作的操控方式前,嚴禁實機飛行,請先進行電腦機緩飛行的練習,一種最有效、最安全的練習方式,就是透過 市面版售的模藏軟體,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.溶盲层嫌放在空窿的地方(確認電源為緊閉),並溶盲层搏的機能對準白己。

 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、閱閱左/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 飛行網整與注意

## **企AUTION**

OCheck if the screws are firmly tightened.

OCheck if the transmitter and receivers are fully charged.

〇再次確認→螺絲是否鎖因? ○級射器和採取器費物具不足面。

# **企**CAUTION

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. 病使飛行場有其他基控飛機,顯確認性門的領率,並告知他們原正在使用的領率,相同的領率會造成于豐厚數失控和大大敗增加風險。

#### STARTING AND STOPPING THE MOTOR 啓動和停止馬達

## CAUTION

First check to make sure no one else is operating on the sam 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 動が接続





Check if the throttle stick is set at the lowest position.

· When arriving at the flying field.

常抵達飛行場

確認油門條桿是在最低的位置。

Are the rudders moving according to the controls? ©Follow the transmitter's instruction manual to do a range test.

〇方向舵是否隨著控制方向移動? 〇根據發射器證明書進行距離測試。



OFF! Step3 Reverse the above orders to turn off. 器閉電源時講依上述操作動作反執行。



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.

將直昇機置於柔軟地面上,建議硬地起飛鏈架装上遊薦墊圈。遊克升空前腳架與退硬的地面震動太大反饋至機身上的陀螺儀,影響無平衡翼系 統升空前過度條下。



## 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.
- 1. 網整前先在其中一支主旋翼的翼端,贴上有颜色的贴紙或畫上颜色記號,方便雙樂網整辨識。
- 2.偿债的推起油門搖桿到高點並且停止,在飛機難開地面前,從飛機剔邊觀察主旋簧轉動。
  3.仔細觀察旋臂軌跡(破如兩支旋臂移動都是相同軌跡,則不需要與整;可是如果一支旋臂較高或較低產生"雙樂"的情形時,則必須立刻觸整軌跡)。
- 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.設質轉動時較高軌跡的主旋質表示螺距(PITCH)過大,請揭短連桿頭修正。 b.旋翼轉動時較低軌跡的主旋翼表示螺距(PITCH)過小,請調長連桿頭修正。

# 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. 45-6° when hovering.

木丁斯的沙里斯岛美国安徽 人名英国美国安徽 人名英国美国安徽 人名英国克勒森丁姆

Color Mark 特標示記號的主旋翼

## FLIGHT ADJUSTMENT AND NOTICE 飛行機整與注意

# O FOREIDDEN



©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 danger.

《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.

○常直昇機器於鮮地餅,標價隆低油門將飛機蹬下。 持續練習飛機從地面 上升和下路直到恢复得油門控制很順。







## 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.









## 1.慢慢升起油門搖捏。

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 升降搖桿並終育異機關同利原來位置。

@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.

○當直昇機機而复移時,這接低油門並且降落,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 方向於操作練習

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 its 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。











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 動作熱悉了,在地上畫圈圈並在這個圈圈的範圍內練習飛 行,以增加你操控的滋確度。

○You can draw a smaller circle when you get more familiar with the actions.
○営你更加營糧格作動作,你可以書更小的廢廢。



#### STEP 5 DIRECTION CHANGE AND HOVERING PRACTICE 改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. 觉你带得STEP1~4動作熟悉了,所在而對這麼勝引海並繼續接受STEP1~4。之後,就在這麼鄉楊而右海重複步觀接營。









TROODELSHOOTING MIJ TIM MIJ TI			Acidit ///
	Problem 狀 況	Cause 原 因	Solution 對 策
Blade Tracking 雙獎平衡	Tracking is Off 雙策	Pitch linkage rods are not even length PITCH連桿長度講签不平均	Adjust length of Linkage rod A. 洞鉴速柳A现度
	Headspeed too low 主旋貫輸速循症	Excessive pitch 主旋翼的PITCH銀高	Adjust ball link to reduce pitch by 4 to 5 degrees. Hovering headspeed should be around 1700-1800RPM. 國際直接期間保护[此前] + 4-5原 (停服约主旋賽階為約1700-1800RPM)
Hover		Hovering throttle curve is too low 伊懸點港門章線遊览	Increase throttle curve at hovering point on transmitter (around 60%) 講案停懸監油門曲線(約60%)
停販	Headspeed too high 主政資格还编高	Not enough pitch 主旋翼的PITCH偏低	Adjust ball link to increase pitch by 4 to 5 degrees. Hovering headspeed should be around 1700~1800RPM. 開始選伸函調高Pitch的+4~5度 (伊施行主英實際為約1700~1800RPM)
		Hovering throttle curve is too high 伊懸點港門無線過高	Decrease throttle curve at hovering point on transmitter (around 60%) 課任學歷點灣門曲線(960%)
Rudder Response 尾舵反應	Drifting of tall occurs during hovering, or delay of rudder response when centering rudder stick.  學經濟國際英一學歷後,或邊驗方向較可可能與中立政務,便理歷生延緩,無法	Rudder neutral point improperly set 尾中立點設定不需	Reset rudder neutral point 面限局中立點
		Rudder gyro gain too low 足能陀螺儀感服傷症	Increase rudder gyro gain 增加限於陀螺磺感度
	Tail oscillates (hunting, or wags) at hover or full throttle 停懸或全油門時電質左右來回搭提。	Rudder gyro gain too high 尾豹陀螺備感度偏高	Reduce rudder gyro gain 降低尾舵陀螺锥感服

If 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,仍然無法改善情況時,展立即停止飛行並向有經驗的飛手路夠或達絡您的經驗商。

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## Specifications & Equipment/規格配備:

Length/機身長:1320mm Height/機身高:360mm

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

Motor Drive Gear/馬達齒輪:13T

Main Drive Gear/主齒輪:110T

Autorotation Tail Drive Gear/尾驅動主齒:102T

Tail Drive Gear/尾翼傳動齒:23T

Drive Gear Ratio/齒輪傳動比: 8.46:1:4.43

Flying Weight(with batteey)/全配重(含電池): Approx. 5100g

