下 B T O V2 INSTRUCTION MANUAL 使用說明書

ALIGN



輕量牢固 輕鬆組裝調整

隱藏式走線 美觀安全

TAIL BELT DRIVE

Shopping Cart



TB70 V2 Manual



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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 publications.

承蒙閣下選用亞拓遜控世界系列產品,隨表謝意。

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自責,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。

!!Remind!! 提醒

ALIGN

自行拆改裝 保固失效 The warranty could invalid if modified

Dear customers.

For your consumer rights, please do not disassemble or modify Align products. If there is any unauthorized disassembly or modification, the warranty of the product will become invalid immediately! Hereby declare!

敬愛的客戶:

為了您的消費權益,本公司所售出之產品請勿自行拆裝、改裝,如果有任何私自拆改 裝,產品的保修、保固責任即刻失效! 特此聲明!



Thank you for buying ALIGN Products. The T870 Helicopter is designed as an easy to use, full featured Helicopter RIC model capable of all forms of rotary fight. Please read the manual carefully before assembling the model, and follow all precursions and recommendations located within the manual. Be sure to retain the manual for future reference, routine maintenance, and tuning. The T870 is a new product developed by ALIGN. It features the best design available on the RIC helicopter market to date, providing flying stability for beginners, full aerobatic capability for advanced filers, and unsurpassed reliability for customer support.

應謝您邀請亞托產品,為了讓您管易方便的使用亞托蓬拉直昇機、請您詳細的閱讀完選本說明書之後再進行超裝以及操作還合直昇機, 同時請您妥蔔的與存還本說明書「先日後進行關稅以及權修的參考。 TB70是由亞托自行哥發的斯產品,不確您是需求飛行穩定性的 初樂者或夢史使將的飛行等各者。 都將學原集會的資權。

WARNING LABEL LEGEND 標誌代表涵義



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



Mishandling due to failure to follow these instructions may result in damage or injury.

因為疏忽遇些操作說明,而使用錯誤可能造成財產損失或嚴重傷害。

CAUTION
注意

Mishandling due to failure to follow these instructions may result in danger.
因為蒸鈴溫世操作說明,而使用錯誤可修造成危險。

IMPORTANT NOTES 重要聲明

Important Declaration: It's prohibited to fly before passing legal flight certificate (training certificate) of local laws and regulations. Please adhere to local regulation and management policy and pass test to get legal flight certificate (training certificate). Strictly forbid to operate flight by anyone who is unfamiliar with flight experience.

在尚未通過考取該國法規之合格飛行執照(訓練合格證)前,嚴禁實機飛行。請依領該國相關法規及管理辦法,通過 考取合法之飛行執照(訓練合格證),嚴禁無熟練操控飛行總驗者操控飛行。

RIC helicopters, including the TB70 are not toys. RIC helicopter utilize various high-sech products and Technologies to provide superior performance. Improper use of this product, can result in serious highy 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 ALIOR products. Manufacturer and selfer assume no liability for the operation or the use of this product, Intended for use only by adults with experience flying remote control helicopters at a legal flying field. After the sale of this product there cannot maintain any control over tis operation or use.

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全部的責任之人。

We recommend that you obtain the assistance of an experienced pilot before attempting to the our products for the first time. A local expert is the best given for propriety assemble, setup, and if your model for the first time. The office of skill to operate, and is a consumer item. Any damage or dissetifaction as a result of accidents or modifications are not occurred by any warrantee and carnot be returned for repair or replacement. Please contact our distributors for free technical consultations.

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 acceptod for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

想型或品量於需義操作技能且為海拐拉之高多。如提邦委使用段,會認及不等相思等作用數,任何使用槽沉所返底高大风或不腐虐。 解据达及宫园格内迎塞最后或建立,迎通有便用性能明显第一次勾全被公司或改理商源提供和需要,有课者中也是数据, 使用给你不管使的、設定、維乾、報心、或操作不良所造的認識物偶響,本公司顯法控制及負責。任何使用、設定、維較、核以、或 操作不良所烹放的發展,感为必属等,使用者無為學者或關任。

SAFFTY NOTES 安全注意事項

ALIGN /

▲ CAUTION 法 東

- 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 prome to accidents, failures, and crahes due to a variety of measons 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 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,飛行前務必適離人群,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,主旋翼夾座橫輪螺絲、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。

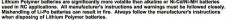


LOCATE AN APPROPRIATE LOCATION 遠離障礙物及人群

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 voiding cables, of trees to ensure the safety of yourself, others and your model. For the mist 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,講案遵守當此法規則合法差的飛行場 地飛行。將必提擇在空語合法專屬所代域的,並必須注意問題可投入、高標、建築物,高壓電廠,被书等,避免接起 的不當遊成日之時人財產的損壞。請如在下兩 1 打雷等起头大板下操作,以降採本督及機能的安全。

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



when disposing of Lithium Polymer batteries. 銀聚電池銀一般在RC使用的網性電池、線鋼電池、線圖電池比較起來是相對危險的。講願格達守經聚電池說明書之使用注 簡單區。不依整使用經營電池。可能過度必要站備及中高稅遵安全,切勿大懷



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.

直昇機内部也是由許多精密的電子響組件組成,所以必須総對的防止潮源或水氣,避免在浴室或兩天時使用,防止水氣進入機身內組而轉發機件及霍子器件故障而引發不可發動的電外!



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,請使用亞托產品目錄中的零件,以確保結構的安全。 請辦部於蓋具象見內場在,讓勿得數值用,並勿由於安全、法令所其它非法用途。



OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT 游宛

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,需確認是否有組房領事的同好正進行飛行。因為開啟相同領率的發射器跨導致自己與他人立即干獲等差 外点線。基於跨機換接好下不學習到前同學一定的關係。要需要的免潤自操作飛行,所有與聽的人士在旁指導,才可以提 定飛行・必引表可能造成不可預別的更外學生。()動物電影機器及及ぞ主物等及人門必要的選擇)



▲WARNING SAFE OPERATION 安全操作

Fly only in safe areas, away from crowds of people. do not hold helicopters in front of eyes. During take-off, landing, and flight, be sure to keep the helicopter away from all obstacles. puring taxe-orr, jampung, and tright, be sure to keep the nelicopter away from all obstacles. Operators must stand at least of 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, bo 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.

蘇禁用手抓股運行中的直昇機、務必連難人群,並聚禁直昇機對著眼睛;當主旋翼轉動後,或起飛/試飛時,務必遵難陣 發物,站正位置必需距離<mark>10公尺以</mark>上,避免因人為絕裝不當遊戍署伴挽落,而引發不可預期的財物及人員損傷。鎮於自己 能力內及需要一定技術範圍內操作適合宣昇樂,過於疲勞,精神不佳或不審漢作,意外發生島樹將可能會提高。不可在稅 線鄰節沙雅子,極落後也獨馬上歸掉直接較盡養後之



ALWAYS BE AWARE OF THE ROTATING BLADES

During the operation of the helicopter, the main rotor and tail rotor will be spinning at a high 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.



直昇機主設質與尾談質運輸時會以高轉速下進行,在高轉速下的設質會造成自己與他人在身體上或環境上的嚴重損傷。 請勿觸標連續中的主提壓與屎設整,並保持安全距離以義免造成份解及揚坡。

▲ 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. 海拉飛機多半是以 Pa 纖維或聚乙烯、電子商品為主要材質,因此要盡量遠離熟源、日團,以避免因高溫而變形甚至熔毀損壞的可能。







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
- 每次發行前應失確認所使用的頻率是不會干傷他人,以確保側自身與他人的安全。
- 每次發行前確定的發射器與接近器電池的電量是在足夠發行的狀態。
- · 組織的確認油門搖桿是否位於最低點,熄火路落網關,定速網關(IDLE)是否於關閉位置。
- · 顯機除此須遵守雷等問題網的起席,間機能應先期的發射器後,五期的提內器雷等;關機能應先期則提內器後,五期開發射器雷等。不正確的問題程序可能會 造失控的现象,影響自身與他人的安全,讀養成正確的習慣。
- 開機調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將繳的情形,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器稅的螺絲與螺螺,確認沒有組裝不完整或措徵的零件,仔細檢查主旋蟹是否有措度,特別是接近主旋蟹來來的能位。 揭塘或網路不完
- 整的零件不僅影離飛行 ,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。 · 检查所有的速程喷是否有器說的情形,過點的速程喷應先更新,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,可能造成電源接頭螺說而造成失控的危險。

INTRODUCTION TO USE OF FUNCTIONAL GLUE/OIL/GREASE 各項功能性膠/油/脂的使用介紹 When you see the marks as below, please use relative glue or grease to ensure flying safety.



· OIL: Add small amount of OIL.

- CA: Apply small amount of CA Glue to fix. 級問題: 使用適量能認識因常
- Grease: Add small amount of Grease. 潤滑油: 流加湾量潤滑油
- R48: Apply small amount of Anaerobic Retainer to fix. 管狀金屬強力結合器:使用資量管狀金屬強力結合器固定 R48 is strictly forbidden to be used on screws. R48 嚴禁用於螺線器定。
- T43: Apply small amount of Thread Lock to fix. 模絲器: 使用適量螺絲器



Keep plastic parts away from heat 塑膠件避免接近熱源。



When assembling ball links, make sure the "A" character faces outside. 各面翅雕製連桿節扣接持,"A"字牘朝外。



T43 上爾實際約1mm

- 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.
- 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. 管狀会單端力結合課 (R48) 為終色高強度神速固化的管狀会團強力結合課,適合於会團管狀固定用,可耐高漢至 180°C。
- 2. 螺絲膠 (T43) 為壓色低強度螺絲膠,適合小型螺絲;使用於金屬內外徑或膠合螺絲粉,請務必適量使用,必要時請用手去除多餘膠量,依拆卸時可於金屬接合配位熱燃約15 秒。
 - 3. 测滑油 (Grease) 為臺灣澄滑油,海田於閩南輔香或止推輔香。
 - ◎上述各類功能膠(油)請依零件屬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。









Transmitter(6-channel or more, Helicopter system) 發射器(六動以上直昇機模式遙控器)



Receiver (6-channel or more) 接收器(六勤以上)



衛星天線



Intelligent Balance Charger 智慧型分壓充電器 RCC-6CX





Flybariess Sy 無平衡質系統



AP800 Digital Pitch Gauge 軟位螺距線



X

Li-Po Battery 電池 x 2

ADDITIONAL TOOLS REQUIRED FOR ASSEMBLY 自備工具



Hexagon Scre 六角螺絲起子 3mm/2.5mm/2mm/1.5mm 尖閣部





Swashplate Leveler 十字盤校正器

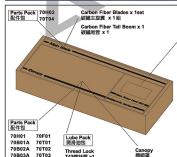


CA Glue 瞬間膠

PACKAGE ILLUSTRATION

包裝說明

ALIGN //



T43螺絲膠 x1

One Way Bearing Grease 單向鏈承潤滑油 x1

70B04A 70Z

70B06

The Top Combo version includes the following items Top Combo版本包含以下商品 800MX (570KV/4530) Motor x 1 800MX (570KV/4530)無阅馬達 x 1 RCE-BL200A Brushless ESC x 1

DS835M High Voltage Brushless Servo x 1 DS835M 高電壓無刷伺服器 x 1 The Super Combo version includes the following items

Super Combo版本包含以下商 800MX (570KV/4530) Motor x 1 800MX (570KV/4530)無削原漆 x 1

Microbeast Flybarless System Microbeast 無平衡翼系統

RCE-BL200A無剛調速器 x 1 DS830M High Voltage Brushless Servo x 3 DS830M 高電壓無副伺服器 x 3

RCE-BL130A Brushless ESC x 1 RCE-BL130A無別調速器 x 1

DS830M High Voltage Brushless Servo x 3 DS830M 高電壓無剛伺服器 x 3 DS835M High Voltage Brushless Servo x 1 DS835M 高電壓無副伺服器 x 1

The Kit version includes the following items TKIt版本包含以下商品

800MX (570KV/4530) Motor x 1 800MX (570KV/4530)無限馬達 x 1

Repair Towel 維修桌巾

MODEL STANDARD EQUIPMENT DIFFERENCE 標配版本介紹 AUGN

There are many versions. The ITSR 0'X for your choice. The Combo includes additional electronics have a the requirement and include the control of the ITSR 0'X for the ITSR 0'

TB70 V2系列商品有多種版本可作為選擇,除標準配備會因您購買的商品版本而有些微不同,在組裝、設定上都是一致的,在此我們以Top Combo作為操作範例,您也可依赔書而上的商品會無來繼濟其他撰鑑商品。

Quick Finder 零件快速購



TOP COMBO STANDARD EQUIPMENT TOP COMBO標準配備

TB70 V2 Kit x1 set RCM-BL800MX Brushless Motor(570KV/4530) x 1 RCE-BL200A Brushless ESC x 1 DS330M High Voltage Brushless Servo x 3 DS335M High Voltage Brushless Servo x 1

TB70 V2 空機套件組 x 1 RCM-BL800MX無刷馬速(570KV/4530) x 1 RCE-BL2004無刷規速器 x 1 DS830M 高電散無刷伺服器 x 3 DS835M 高電散無網伺服器 x 3

O 標準配備 [RH70E54XT]



SUPER COMBO STANDARD EQUIPMENT SUPER CO

SUPER COMBO 標準配備 [RH70E59XT]

TB70 V2 Kit x1 set
RCM-BL800MX Brushless Motor(570KV/4530) x 1
MICROBEAST Flybarless System x 1
RCE-BL130A Brushless ESC x 1
DS830M High Voltage Brushless Servo x 3
DS835M High Voltage Brushless Servo x 1

TB70 V2 空機套件組 ×1 RCM-BL800MX無限馬達(570KV/4530) × 1 MICROBEAST無平衡膜系統 ×1 RCE-BL130A無限別速器 ×1 DS830M 高電壓無勝何級器 × 3 DS835M 高電壓無勝何級器 × 3





KIT STANDARD EQUIPMENT KIT 煙淮配備

[RH70E64XT]

TB70 V2 Kit x1 set RCM-BL800MX Brushless Motor(570KV/4530) x 1

TB70 V2 空機套件組 x 1 RCM-BL800MX無刷馬達(570KV/4530) x 1



ELECTRONIC EQUIPMENT REQUIRED FOR ASSEMBLY 自備電子設備



MICROBEAST Flybarless System 無平衡要系統 X 1



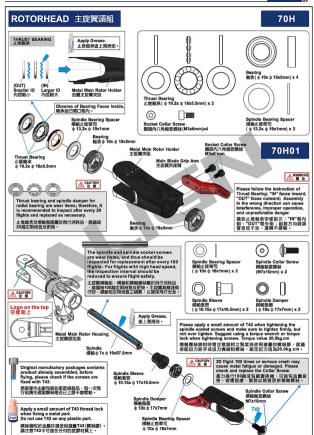
RCE-BL200A or RCE-BL130A Brushless ESC 無別讚读聲 x 1



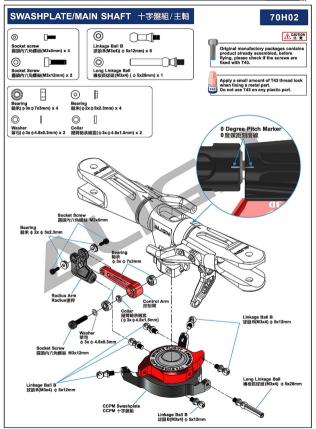
DS830M High Voltage Brushless Servo DS830M 高電壓無刷伺服器 x 3

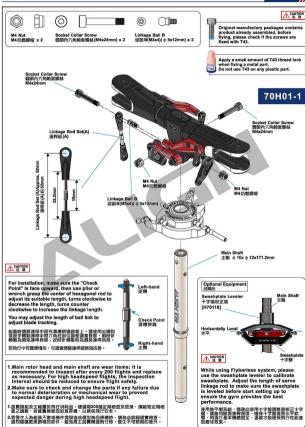


DS835M High Voltage Brushless Servo DS835M 高電壓無刷伺服器 x 1

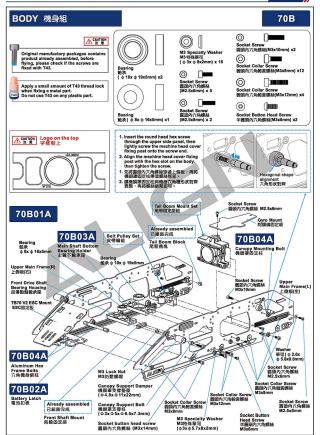








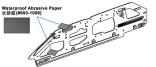




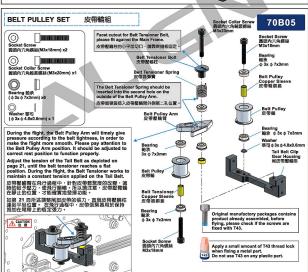


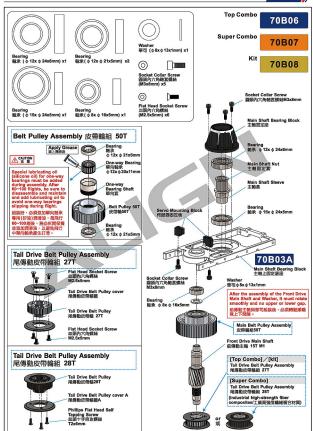
It is recommended to use # 800~1000 water sandpaper to polish the edge of the cutting part of the fuselage board. This way could prevent the wires of electronic equipment from being cut.

建議於機身板切割處的邊緣,使用#800~1000水砂紙打磨,可防止電子設備電線被製砌。

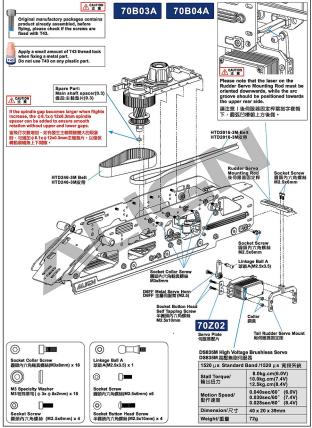


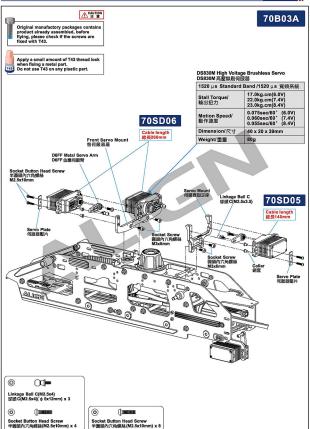




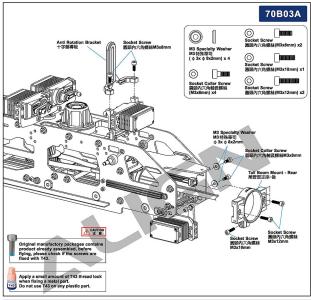












CAUTION

Main frame assembly key point :

First do not fully tighten the screws of main frames and put two bearings through the main shaft to check if the movements are smooth. The bottom bracket must be firmly touched the level table top[glass urface); please keep the smooth movements on main shaft and level bottom bracket, then slowly tighten the screws. This assembly can holp for the power and flight performance.

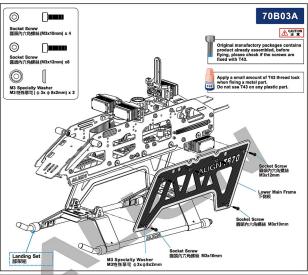
機身側板組立重點:

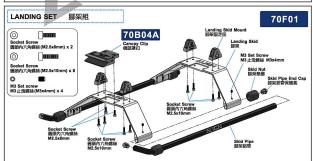
侧板螺絲先不完全鎖緊,放入主軸貫穿兩顆輪承確認上下移動 必需滑顆,主體底板必須與水平桌面(玻璃平面)路實緊貼; 請保持主軸滑順與底板平行桌面後慢慢鎖緊螺絲。正確侧板的

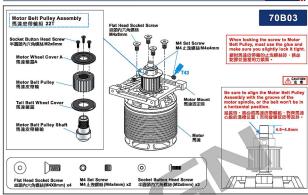
請保持王難滑順與底板平行桌面後便 組裝對動力與飛行性能有顯著幫助。

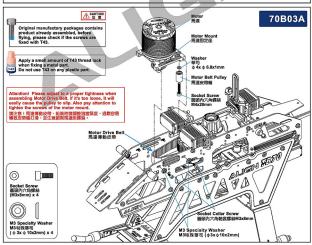




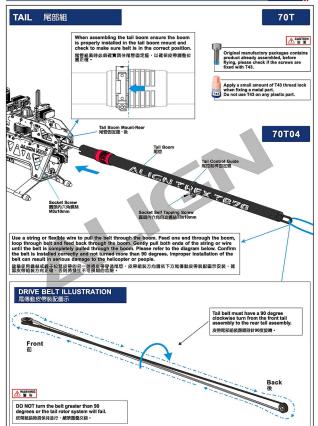


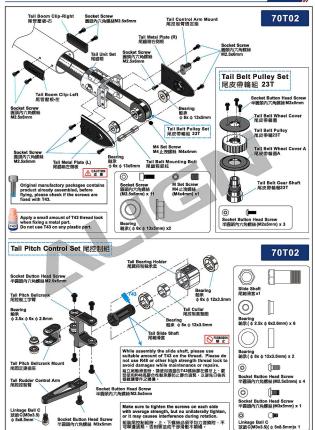




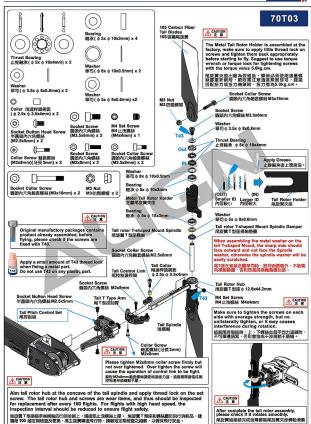


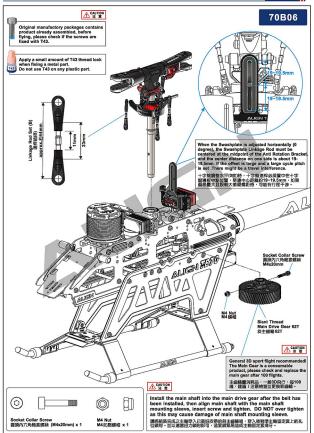




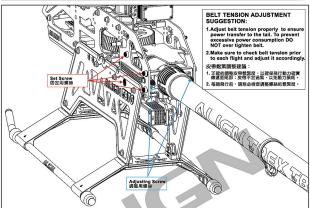












PATENTED DESIGN 專利設計

ADJUSTABLE BELT TENSION DESIGN/可調節皮帶張力設計

The Upper Main Frame cleverly inserts a rail, simply by turning a few screws, then allows the belt tension to adjust conveniently.

上側板巧妙地嵌入軌道,只需轉勤幾個螺絲,即可方便地調節皮帶張力。

ADJUSTING WAY 調整方式

_____CAUTION

Make sure to check belt tension prior to each flight and adjust accordingly. Both sides must be rotated equally. 注售:细密符殊办常商品价细密螺络同時仲默可描取。



- 1.First loosen the screws on the two sides of the Upper Main Frame.
- 1.先點開機身上領板外兩邊的固定條結。

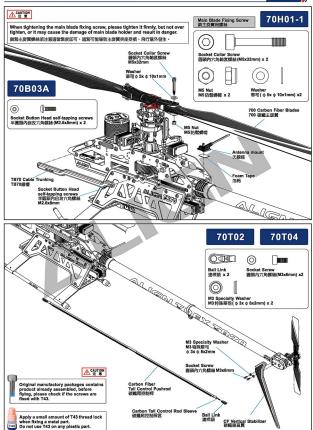


- 2.Then adjust the adjustment screw in the side of the Upper Main Frame to the proper position. When the screw is locked, the tail pipe will tighten the belt backward, and if it is loosened, the tail pipe will loosen the belt forward.
- 再將機身上側板內的調整螺絲測整至適當位置。 螺絲鎖緊時,尾管固定座及尾管往後拉緊皮帶, 螺絲點開時,尾管固定座及尾管往前放點皮帶。



 After adjusting to the proper tightness, tighten the fixing screw.
 調至適常緊緊症後・再將固定領絲鎖緊即可。

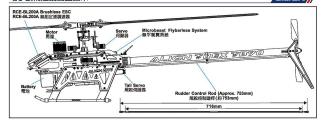
21



ELECTRONIC EQUIPMENT ILLUSTRATION

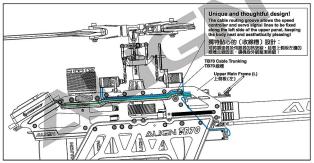
電子設備建議配置圖示

ALIGN //



ESC AND SERVO WIRING ILLUSTRATION 接線示意圖

ALIGN 🆊



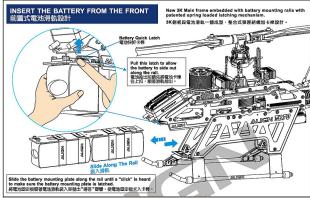
BATTERY INSTALLATION ILLUSTRATION

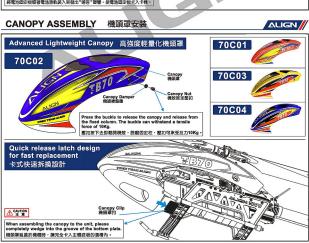
雷池安裝示意圖

ALIGN //













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頭速器與無別馬達三條線接上,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.

譜依照右側側示的伺服器名稱・將伺服器接到陀螺儀・



ADJUSTMENTS FOR GYRO AND TAIL NEUTRAL SETTING

陀螺儀與尾翼中立點設定調整

ALIGN //

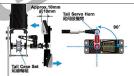
Turn off Revolution mixing(RVMX) mode, not the transmitter, then set the gain switch on the transmitter and the gyro to non-head took mode, or disable gain completely. After setting left transmitter, connect the helicopter power and proceed with rudder neutral point setting, Note: When connecting to the helicopter power, please do not touch tall rudder stick and the helicopter, wait for 3 seconds to the tall servo. It all pitch silder sold be negative to the tall servo. It all pitch silder sold be all way on the tall output shaft. This will be the standard rudder neutral point. After compelling this setting, set the gain switch back to have, with sain at some office.

發射為小的機構設定調應時機能設定模式,並將發起將上的原理期間的認識的特定等。 進行形能中口散設置,注意"競技」指導,但具機電影響的時間能能能够接收的機構的一种多的影響與機構的後,所可能質量與用因級器的域。90億 能更異常的能夠 生在電影影響和日中開電量,即為標準限的中国就反正。後定完成後,切象至"獨定模式",感感投約 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.

陀螺備開機後,在非續定模式下,尾伺服器與尾 Pitch控制組正確機置位置。 若屋 Pitch控制組主管中時體調整屋控制逐程的長度攻修下。



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".

陀螺儀装定方向確認,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"開陽修正。



MAIN BLADES ROTATIONAL SPEED SETTING 主旋翼轉速設定 ALIGN



The maximum speed of TB70 helicopter is 2200RPM; 2150RPM is enough for hard 3D flight. It is strictly forbidden to set the Main Blades speed to exceed 2200RPM during flight, overrotation may cause damage to the body structure or unforeseen danger, even lives and property of others. Beginner are recommended the RPM/ speed setting should not exceed 1850RPPM.

直昇機的主旋翼有安全使用轉速範圍,飛行時主旋翼轉速設定嚴禁超過 2200RPM,超轉可能導致機體結構破壞及不可預期之意外,甚至危害他人生命財產。初學者建議轉速設定不超過 1850RPM。

TB70 首昇機,最高鎮速為2200RPM;飛行時鎮速2150RPM,動力已足夠暴力飛行。



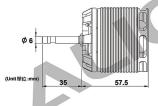


The maximum speed of TB70 helicopter is 2200RPM; 2150RPM is enough for hard 3D flight. TB70 直昇機,最高轉速為2200RPM;飛行跨轉速2150RPM,動力已足夠暴力飛行。

RCM-BL800MX (570KV/4530) MOTOR 無刷馬達

KV KV值	570KV(RPM/V)	Input Voltage 輸入電壓	128
Stator Diameter 定子外徑	45 mm	Stator Thickness 定子高度	30mm
Stator Arms 砂鋼片槽數	12	Magnet Poles 磁纖極數	10
Max Continuous Current 最大持續電流	115A	Max Instantaneous Current 最大瞬間電流	230A(2sec)
Max Continuous Power 最大持續功率	5100W	Max Instantaneous Power 最大瞬間功率	10200W(2sec)
Dimension 尺寸	Shaft Ø6x56x92.5mm	Weight 重量	Approx. 525g

SPECIFICATION 尺寸規格



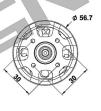
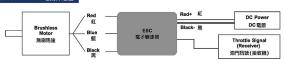


ILLUSTRATION 接線示意圖



▲ CAUTION 注意 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啟動轉向不盡相同,若發生轉向錯誤時,講將馬達與電子變速器的接線 任胸接對護即可

BRUSHLESS SPEED CONTROLLER INSTRUCTION MANUAL

無刷調速器使用設明

ALIGN /



RCE-BL200A/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/

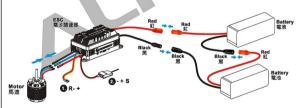
RCE-BL200A/RCE-BL130A無刷調速器可透過ALIGN ASBOX 多功能設定盒進入參數設定,請榜描QR Code 連鎖亞和網站下載相購資訊:https://www.align.com.tw/index.php/download/asbox/

- 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.
- 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%.
- 電子調速器的油門行程出廠預設值為1100μs~1940μs,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。
- 2. 推行油門行程校準持, 携络油門中総設實為NORMAL, 並程保循控表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%

RCE-BL 200A BRUSHI ESS ESC 無刷調速器

- RPM Signal Wire(Fellow) & BEC Output Wire (Red/Brown): plug it into the RPM Input channel on the tybarless system. (This wire can be used for providing RPM signal data when using external speed-operaning device, plug it into the battery channel or any unoccupied channel on the receiver. For better BEC power supply, we 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, such as RX B channel on the YBAR system. For which channel you should plig 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.
- ① RPM尼號線(黃)及BEC輸出線(紅、棕):指入無平衡實系統傳送輸入過速;(當使用外配定淺跨・可使用RPM尼號線提供轉送信號輸入。通經兩外的BEC輸出線稱人根皮積電為專用過速或任應空間適進。(為經得更好的BEC供電效果,在無平衡實系統的成立時用過速或任意空間適進。)
- ② 油門信號線(白、紅、黑):插入接收機油門通道或無平衡買系統對應通道,如VBAR系統的RX B通道,依接收機類型及無平衡買系統類型 而常。其中白線用於個镁油門環境,而前線和單線分別的關係不夠用EC的輸出機(即EC電壓輸出線到地線)。

I.Connections 接線示意圖



Model	RCE-BL200A Brushless ESC
型號	RCE-BL200A無別讚涼祭
	THE SALE OF
Input Voltage	6~14S LiPo Battery
輸入電壓	鋰電池(22.2V~51.8V)
Cont./Peak Current	
持續/瞬間電流	200A/300A
行機(時間電流	
BEC Voltage	Switch-mode, 5V~8V Adjustable Voltage (Step: 0.1V),10A/30A Cont./Peak Current
BEC電服	開腸穩壓BEC,輸出電壓5V~8V可調(調整幅度為0.1V每階),輸出電流持續10A,瞬間30A
Throttle Signal/BEC Output &	White/Red/Black: Throttle Signal Wire; Red/Brown/Yellow: BEC Output & RPM
RPM Signal Transmission Wire	Signal Transmission Wire
油門信號/BEC輸出&RPM信號傳輸線	白、紅、黑三色線為油門信號線;紅、棕、黃三色線為BEC輸出及RPM信號傳輸線
Separate Programming Port	For connecting ALIGN ASBOX Multifunction Programmer, WIFI module, or cooling fan.
獨立參數程式設計介面	用於連接ALIGN ASBOX多功能設定盒或WIFI模組,可為輔助散熟風扇供電
	1 the second of
Size/Weight	106x50x36mm/325q
尺寸/重量	TOOKOOKOOKKIINOEON

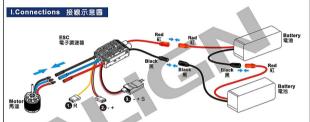
BRUSHI ESS SPEED CONTROLLER INSTRUCTION MANUAL

無刷調速器使用說明

ALIGN //

RCE-BL130A BRUSHLESS ESC 無刷調速器

- 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 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 (Whitelfaed/Black); plug it into the throttle channel on the reseiver or the corresponding channel on the FILE system, such as RZ is channel not hen WBAR system. For which channel you should plug it in, I depended on what kind of receiver and FIL system you use. The White wire is for transmitting throttle signals, the Rod & Black cables are parallely connected in the BEC output wire, which means BEC voltage output wire and ground cable.
- () RPM信號線(黃):插入無平衡置系統轉速輸入通道;(當使用外部定速時,可使用RPM信號線提供轉速信號輸入。)
- ❷ BEC輸出線(紅、粽): 這條額外的BEC輸出線插入接收機電池專用通道或任意空間通道。(為獲得更好的BEC供電效果,在無平衡要系統价電池重用領值或任意空間通道。)
- ① 油門信號線(白、紅、黑):插入接收機油門通道或無平衡實系統對應通道,如VBAR系統的RX B通道,依接收機類型及無平衡實系統類型而定。其中白線用於傳送油門價號,而紅線和原線分別並聯在內部BEC的輸出譜(即BEC電壓輸出線和原線)。



Model	RCE-BL130A Brushless ESC
型號	RCE-BL130A無例閱速器
Input Voltage	6~12S LIPo Battery
輸入電壓	鋰電池(22.2V~44.4V)
Cont./Peak Current 持續/瞬間電流	130A/200A
BEC Voltage	Switch-mode, 5V~8V Adjustable Voltage (Step: 0.1V),10A/25A Cont./Peak Current
BEC電壓	開展穩壓BEC,輸出電壓5V~8V可謂(調整幅度為0.1V每階),輸出電流持續10A,瞬間25A
Throttle Signal/BEC Output & RPM Signal Transmission Wire 油門信號/BEC輸出&RPM信號傳輸線	White: Throttle Signal Wire / Red/Black, Red/Brown: BEC Output Wire / Yellow: RPM Signal Transmission Wire 白色為港門信號線紅黑和紅標二色線為BEC輸出線/ 黃色為RPM信號傳輸線
Separate Programming Port	For connecting ALIGN ASBOX Multifunction Programmer, WIFI module, or cooling fan.
獨立參數程式設計介面	用於連接多功能LCD專業程式設計設定盒或WIFI模組,可為輔助散熱風扇供電
Size/Weight	92x45.5x28.5mm/195g

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

Turn on the transmitter and move the throttle stick to the top position.	Connect the ESC to a battery. The motor will emit " 123" indicating the ESC is powered on normally. 電子調定器接電池:馬蓬嶼山" > 123"提示音·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. Ges 19. "馬克曼出" 哪一哪一颗短鳴音,要示油門提索監控革成功	3.
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 The motor will beep a long beep to indicate the calibration is completed, the power system is ready to go.

馬達錦山"長音樓—"代表校準成功,系統準備政策,可開始起係





Maintenance and careful inspection before and after flights are the most important part of flight safety, pilots are responsible for every detail to implement. Negligence of these inspections and maintenance may lead to accidents and dangers during the flight, and even damage to life and property.

飛行前/後的仔細檢查和維護保養是飛行安全最重要的一環,飛行員必須對每一個細節負責並落實到位。 忽測這些檢查和維護,可能會導致飛行過程中發生事故和危險,甚至造成生命財產損失。



Check the Main blades.

Visually inspect if the appearance of the Main Blades is good, and carefully check that there is no damage, crack or anormality on the surface.



Check the Tail Blades.

Visually inspect if the appearance of the Tail Blades is good, and carefully check that there is no damage, crack or abnormality on the surface.



Please check to the main gear regularly, and replace it if obvious wear is found. The main gear is a consumable. Please pay attention to check and replace new gears every 100 times of 3D sport flight.



Check All electronic equipment connection.

Plug, socket and cable appearance is good, correctly and firmly connected with each other.



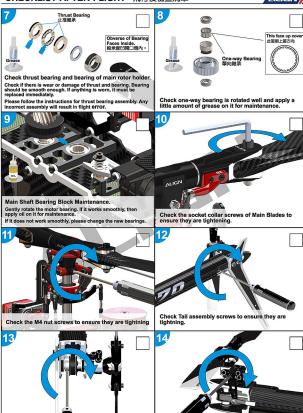
Check battery efficiency.

To prevent the plug from falling off and causing power failure, the plug and socket must be connected firmly.



Check linkage rod and ball of main rotor head and tail rotor head.

Slightly shake linkage ball by hand. It's normal if you can't shake it; however, it's abnormal if it's shaken a lot and must be replaced the new linkage and linkage balls to prevent loose parts for any flight error and danger.



Check socket screws to ensure they are tightning.

Chcek the M4 set screw to ensure they are tightning.



	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 Linkage rod A. 調整連桿A長度
		Rudder neutral point improperly set 尾中立點設定不當	Reset rudder neutral point 重設尾中立點
Rudder Response 尾舵反應		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
at hover or full throttle	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 尾舵陀螺櫇感度偏高	Reduce rudder gyro gain 降低尾舵陀螺儦感度

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。

FLIGHT NOTE

- 1. Helicopter and related equipment should be maintained on a regular schedule.
- Make sure to check flight and record it every time. This record would be helpful for your future reference of maintenance and repaired.
- Pre-flight and after flight, please deliberately check if every spare parts and electronic equipment work well and no damage.
- 4. Please strictly do every inspection and check the screws are locked well, not loose at all, before flight.
- 5. Regular maintenance recommendations: Replace thrust bearings every 30 hours of flight. Replace the main shaft fixed bearing(690122) and main rotor clamp bearing(690124) every 60 hours of flight. When the number of flights exceeds 100, please carry out regular maintenance of the entire aircraft and replace parts (such as bearings and washers) to ensure fillioft safety.
- 6. For more operation introduction, please read the instruction manual carefully and obey the local regulations.

飛行小叮嚀:

- 1.飛行機及相關設備均需要定期維護保養 |
- 2.每次檢查保養機確實記錄,良好的保養檢查及飛行習慣,將會提供您日後維修或更換耗材的參考及幫助。
- 3.飛行前、及飛行後,務必詳細檢查機身各部位零配件/電子設備之性能是否正常,而且無損耗老化現象。
- 請嚴格執行檢查的義務,飛行前應檢查螺絲確實鎖緊沒有緊動,才能升空飛行。
- 5. 定期保養建議:每飛行30小時,更換止推軸承。每飛行60小時更換主軸固定軸承、主旋翼夾軸承。
- 飛行次數超通100趙時,講進行全機定期保養並更換零件(如輸承類及整團等消耗品),以確保飛行安全。 6.更多詳細操作介紹,講參閱使用說明書,並且遵守當地法規。

Thank you for purchasing and supporting ALIGN products.

The Align Team is dedicated to you by innovating and developing new RC Helicopters, Multicopters, and FPV Racing Quads. We strive to provide a more diversified experience for our customers. Visit our website at www.align.com.tw for latest news, information, and updates about our extensive line of products for the RC enthusiasts.

Good Flying!

再次感謝您對亞拓系列商品的喜愛與支持,您的肯定是對我們最大的認同。

亞拓團隊秉持創新研發的精神,開發遙控直昇機/多軸飛行機/穿越機系列商品,提供給您體驗更多樣化的飛行樂趣。 您可以透過下列連絡,随時瞭解亞拓的最新動態,以及各項訊息分享。

祝福您有一個愉快的飛行體驗。



ALIGN Flight Safety 亞拓飛行安全宣導



ALIGN Shopping Cart 亞拓議物車







ALIGN Website 亞拓官網



ALIGN Quick Finder 亞拓雲件快速購







一、案控無人機產品標示

· 迪比州八城庄山标小	
本產品最大起飛重量:6.36公斤	(1)
☑應 □免 依遙控無人機管理規則至民航局「遙控無人機規範管理系統」 (https://drone.caa.gov.tw/) 進行線上註冊,註冊號碼應標明於機身顧著處。	(2)
☑ 應 □免 具備航空站或飛行場圖資軟體功能。	(3)
□具型式檢驗(認可)標籤且應向民航局申請辦理實體檢驗。☑免辦理檢驗或認可。	(4)(5)
操作人口免持操作證 口應持普通操作證 区應持專業操作證。	(6)
操作本產品前,經檢查確保符合飛航安全條件後從事活動,並禁止飲酒或使用影響精神之藥 物,亦不得於公告禁止或限制區域飛航,其餘請詳參見本產品所附操作手冊說明。	(7)(8)
遠反上述規定者,中央及地方主管機關得依民航法禁止其活動,並處以新臺幣1萬至150萬元 罰鍰,情節重大者沒入遙控無人機。	(9)(10)
本標示依據遙控無人機管理規則第17條第1項規定辦理。	(11)

二、遙控無人機相關法規說明:

- (1) 鑑控無人機管理規則(以下稱管理規則)第6條第1項:自然人所有之最大起發重量250公克以上之遙控無人機及政府機關(橋)、學校或 法人所有之案按無人機,應中其所有人向民節局由唐註無,並將於無勞媒類即於客控無人機上翻案之歲後,除得幾任。
- (2) 管理規則第2條:於西號傳源依下列方式<u>機能於案時類人機上翻至之處</u>:一、以標應、病別、廣源或其他能辨識之方式標明,且應確保每次飛品活動的不至除海並保持濟潔、明顯使能辨識。二、標準位置機為差控無人機之固定結構外部。二、其類色應使註冊號寫與兩質到度模值。且以與因影性規模。
- (3) 管理規則第12條第1項:最大起飛艦量1公斤以上且裝置導航設備之遙控無人機,應具備防止遙控無人機進入禁航區、限航區及航空 站或飛行場四周之一定距離範圍之圖資軟體系統,其圖資應符合本法第4條劃定及第99條之13第1項公告之範圍。
- (4) 管理规则第79章 "基度是人类之验针"制造、改造、癌血胶計者、製造者或改装者给附中两重的风机尽中两型式物器。提至式物器合格等、等处就工程合格等。这些就工程的基础。 当然为生了工程的主人类。第由建口者依据一项规定的民机员申算型式物器。或地划申募署的民机局申请罪可。超级可者,契約级可能与文件及返回基础。
- 前二項之盖控無人機,其型式構造簡單經見虧局公告者,經免辦理檢蓋減至可。 (5) 管理規則第15條第1項:最大起飛奮型25公斤以上之進提無人機,為確保進稅無人機符合設計、製造、改獎之性能諸元。應由其所 有人規則申請書向民能用申請實施檢施,接收營合格等、發於實施數合格值。
- 有人檢附申請書向民航局申請實證檢驗,經檢驗合格者,發給實體檢驗合格。 (6) 管理規則第20條:落掉無人機擇作辦分額、申請者無齡及其他規定如下:
- A. 學習操作證:申請者應年滿16歲,經申請後,由民航局發給。
 - B. 普通操作證:申請者應年滿18歲,經學科測驗合格後,由民新局發給。 C. 專業慢作證:申請者應年滿18歲並符合相關經歷規定後,經體格檢查及學、術科測驗合格後,由民新局發給。
 - 前海名類於作證之條作確認以下。一學習時作證。終勞人家於作有意於惠人賴始海線作證或專與所證之條作人在勞得著下,依 與普遍外指題或操作性所謂《經過分節》學獨特學及然和國非法一十五公元之歷經人機。一、等與使作證。特得人得 作自然人所有數大股外國軍一公厅以上、朱護十五公斤且從國導就公備之逐步無人條一三、專案接作證:特得人得操作政府機構 (僕) 學學校派之所作之運營等,機及因務所所得是及用國十五公所上之生復居供、後
- (7) 管理規則第25條:操作人操作基控無人機應遵守下列事項:一、血液中函請適度不得超過百分之0.02或吐氧中酒精濃度不得超過每公升0.1毫元。二、不得受積越作用勉質影響,導致行為能力受到損傷。三、不得對任何生命規則產有造成危險之幾作行為。
- (8) 管理規則限26條: 操件人從事重控無人機飛航活動前,應依遙控無人機製造者所提供之維修指引對重控無人機系統進行檢查,符合 安全旅航條件後始網活動。(9) 民用無空送遙經無人機專章第118條之1:遙控無人機之所有人或操作人有下列情事之一者,由民航局股上其操作應,並處新產幣
- 30萬元以上150萬元以下前額。並得沒入臺灣無人機:一、達及第90億之13第1項規定,於禁航臺、限底區及航空站或飛行場四周之一定距離範圍內從等飛航活動。二、違反第99億之14第1項第1页数定。逾距總面或水面高度400%從等飛航活動。二、違反第99億之14第1項第1页数字。逾距總面或水面高度400%從等飛航活動。立成新臺灣6萬元以上
- 30萬元以下前底:傳節歐大者,並得沒入盛在無人機。一、遠反第99條210第2項规定,未然有操作器而操作器在無人為。二、遠 反第99線215第3項規定,未從使成末定額投保責任稅節定等基投無人機活動。 基理計人機之所有以服除力人有了傾信。不善,與上其否則,並與新書於項系以以15萬元以下翻鍵:備節重大者,並得沒入進控
- (11)民用航空法遙控無人機專章第118條之3:達反依第99條之17所定規則問題財類識別、檢驗、認可、維修與檢查、 飛航活動之活動符可及內容、與過者與進口者之整數及實任、飛航安全相將審件之過報等學規規定者,禁止其活 動,並成新臺幣、萬元以上160萬元以下兩號、情能重大者、數得及入意於無人機。
- ※有關後續遙控無人機法規最新資訊,請詳見: (https://drone.caa.gov.tw/)或掃瞄右方QR Code連結。



感謝您購買亞拓系列商品,蓬表謝意!

- 亞拓EI植保直昇機、M4 / M6植保多範機、M470L / M480XL / M690L 多功能無人機、屬「衛星導航無人機」,民机局已有預先登鐵鎖料、操作者可直接在交通部民用航空局無人機導勘註而完後,登錄系統下拉選摔型號即可快速完成註冊程序。
- 亞拓T-REX系列/E1空機版/MR25XP穿越機/多輪空拍機系列商品,其屬於「自製無人機(含航空模型機)」 飛及需自行線理型號登錄作業。
- 3. 相關型號、模造、尺寸(長×寬×高)、飛機觀感/直昇機旋翼半徑/多旋翼軸距、使用動力、導航方式…等詳細 資訊,講連結右側QR Code「亞拓無人機註冊資料」、或参考「亞拓無人機註冊數學」進行登録註冊。









STANDARD EQUIPMENT

Versions Equipment	Top Combo	Super Combo	Kit
Illustration	Hard 3D	Sport 3D	Hard 3D & Sport 3D
Brushless Motor	RCM-BL800MX(570KV/4530)	RCM-BL800MX(570KV/4530)	RCM-BL800MX(570KV/4530)
Brushless ESC	RCE-BL200A	RCE-BL130A	
Cyclic Servo	DS830M x3	DS830M x3	_
Tail Servo	DS835M	DS835M	
Flybariess System		Microbeast Flybarless System	
Main Blade	700 Carbon Fiber Blades	700 Carbon Fiber Blades	700 Carbon Fiber Blades
Tail Blade	105 Carbon Fiber Tail Blades	105 Carbon Fiber Tail Blades	105 Carbon Fiber Tail Blades
Motor Belt Pulley	22T	22T	22T
Drive Gear Ratio	9.38 : 1 : 4.83	9.38 : 1 : 5.0	9.38 : 1 : 4.83
Max RPM (approx.)	2400RPM	2290RPM	2290RPM

SPECIFICATION

Versions Equipment	Top Combo	Super Combo	Kit
Length	1356mm	1356mm	1356mm
Width	187mm	187mm	187mm
Height	358mm	358mm	358mm
Main Blade Length	650-730mm	650-730mm	650-730mm
Main Rotor Diameter	1542mm	1542mm	1542mm
Tail Length	105-115mm	105-115mm	105-115mm
Tail Rotor Diameter	279mm	279mm	279mm
Frame Weight	2.3kg	2.3kg	2.3kg
Flying Weight (with battery)	Approx. 5kg (Battery :Align 12S 5200mAh)	Approx. 4.9kg (Battery :Align 12S 5200mAh)	
Battery	12S 4000~5800mAh	12S 4000~5800mAh	12S 4000~5800mAh





