ALIGN

下REX 700XN INSTRUCTION MANUAL 使用説明書

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MICROBEAST PLUS

BEABTY 6-AXIS MEMS SENSOR SYSTEM FOR RC-MODELS

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.

水栗斯下湿用还许超世比外列產品、讓表謝意。 使用作"制剂物料本种商"。相信一定称称的使用水相能大的幫助,也讓 您沒有你看到此時期的人類為自己於之事。如公司所不到此時間之間執為 實。《國法主動物因謂者任何但可以與制,所得國子國內國一國 因可認以沒而所修正何。本意明書內定載的材質、規格或奪作包裝之內容 物如何異數,指便公形官經公長出 Thank you for buying ALIGN Products. The T-REX 700XN Helicopter is designed as an eavy to use, full featured helicopter R/C model capable of all forms of rotary flight. Please read the manual carterfully before sameling the model, and follow all precautions and recommendations located within the manual. Be sure to retain the manual for future reference, routible maintenance, and tuning. The T-REX 700XN is a new product developed by ALIGN. It features the beat design available on the R/C helicopters market to date, providing flying stability for programment of the R/C helicopters are support.

感謝您理爾亞托盖品,為了德密巴思方便的使用T-REX 700XN 直昇機,請您評稱的閱讀完理本級明書之後再進行組墊以及操作蛋白直昇機,可時請您妥善的保存 運本即用書,作為日後進行預點以及賴格的參考。T-REX 700XN DFC 黑伯亞斯自行研發的新產品,不關密證實实飛行穩定性的初季者或混熄采作能的飛行更好者 T-REX 700XN 港區最重任簽選擇。



Do not attempt under any circumstances. 在任何禁止的環境下,特勿嘗試場作。



Mishandling due to failure to follow these instructions may result in damage or injury. 因為疏釈運參操作於明·而使用錯誤可能遊成財產損失或嚴重傷害。



Mishandling due to failure to follow these instructions may result in danger. 因為經濟學操作跨朗,而使用鐵龍可能造成危險。

IMPORTANT NOTES 重要聲明

RCC helicopters, including the T-REX TODXN are not toys. RIC helicopter utilize various high-sich products and technologies to provide superfor performance, improper use of this product can result in serious highly or year 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 ALION products. Manufactures and seller assumes not liability, of the operation or the use of this product his product in cannot maintain any control over its operation or the use of this product. The cannot maintain any control over its operation or the use cannot maintain any control over its operation or the 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.

TAEKY 700M 製度具用機計算限。 (完整的 3 計多為料地產品所設計以來的物類視局,所以與助於使用不需求不動影響可能會自成機構造業不受死。 使把之度 該開助的轉車等的場合。 包聚起並直接的是企立、注意 11 任何就是自身使物理》,但那些未以指向是原始,但他也是不是消耗到来课度基本是不完 分出任何任: - 本都公司提供局限计划使更多,是可能够助约成,或用规律关键的人员在每市模块都加合式直控队付场机中,以运动处全器模下操作使用,直沿着 比如本公司指示人和上海市的规则和比较。

作為本產品的使用者,您,是唯一對於您自己操作的環境及行為負金部的責任之人。

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 700N DFC requires a certain degree of skill to operate, and is a consumer item. Any damage or diseastistaction as a result of accidents or modifications are not covered by any warganise and cannot be returned for repeil or replacement. Please contact our distributors for free technical consultation and parts at discounted rates when you experience problems during operation or maintenance. As Align Corporation Limited has no control over use, setup, final assembly, modification or missues, 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.

**Market Assistance Ass

SAFETY NOTES

安全注意事項

ALICN

▲ CAUTION 注意

Fly only in safe areas, away from other people. Do not operate R/C alrends within the vicinity of homes or crowde people. Do not operate R/C alrends within the vicinity of homes or crowden, plot people. The alrends alrends are represented by the property of reasons including, lack of maintenance, pilots are responsible for their actions and damage or injury occurring during the operation or as of a result of R/C alrends 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.

進控模型飛機、宣昇機圖高危險性商品,飛行時務必連載人群,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,請飛行者務必注應飛行安全,並需了第自負黨忽所造成任何意外之責任。

每稱飛行前傷仔細檢查,主煙蟹夾座棒餘螺絲、尾煙蟹夾座螺絲,以及機身各配位或頭、螺絲,發書上攤攤緊才能升空飛行。

○ FORBINDEN LOCATE AN APPROPRIATE LOCATION 遠離障礙物及人群

R/C hellcopters 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 use 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.

鍵聚電池銀一般在RC使用的鹼性電池、線攝電池、線面電池比較起來是相對危險的。請嚴格遵守鍵聚電池說明書之使用注 顛事項。不恰當使用鍵聚電池,可能造成火災並優及生命財產安全,切勿大煎!



○ FORBIDDEN PREVENT MOISTURE 遠離湖濕環境

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.

直昇機內部也是由許多精密的電子等組件組成,所以必須絕對的防止湘荔或水氣,避免在浴室或兩天時使用,防止水氣進 入機對內部而導致機件及電子等件故障而引致不可預期的應外!



○ FORBIDDEN 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。 環確當於產品限界內提作,請勿適數使用,並勿用於安全、法令外其它非法用錄。



| ▲ 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,爾薩姆是否有相同語字的同姓正進行飛行,因為國際相同期率的發射機將導致自己與他人立即干 外危級。進光辨機與投防行体等固持6等一定的難度、表盡量發揮自排作所,將有經驗的人士在券指導,才 經飛行,否則將可能適成不可預期的個外學生。(劉練電機與難及老手指導是人門必要的認識)



▲ WARNING SAFE OPERATION 安全操作

Make sure to always be aware to keep your eyes and body away from blades rotation. Do not attempt to grab or make contact with the helicopter while the main blades are in motion. 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. Never take your eyes off the model or leave it unattended while it is turned on, and immediately turn off the model and transmitter when you have landed the model. Operate this unit within your ability, do not fly under tired condition, improper operation may cause in danger,

and always to avoid injury caused by loose parts due to improper assembly or any unforeseen dangers. 類類於主意。無點在任何別景,都不能將護學」的政實質等與論,最終用手訊取運行力的意思者。這主欺實義則。改 即於《任氣時》,無必國際聯聯的,因仍在歐洲聯聯的(OKP以上,不可在被職職別外有勢行,將發也回線上歸線區 財務地區投營電票。操作后台自拜楊歷子,是接投稅的施力,並或因人前接來不查或媒件投資。們可提不可開始的 財務人及其損害,必謂養難自自尋說。過处後受,將不住沒不常條件,他可能別本不可開始的然外發生。



▲ 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, hands, and loose clothing away from the blades. Always fly the model a safe distance from yourself and others, as well as surrounding objects.





▲ 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-S半是以 PA 繊維或禄乙烯、電子商品為主要材質,因此要盡量遠離熱源、日硼,以避免因高溫而變形甚至熔殺 素所可能。



白備黔備

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



(7-channel or more, Helicopter system) (七動以上資料機模式遊控器)



90-120 Muffle 90-120 高效加速管



FREEDRI



加油器



引起統治

Engine Fuel



2600mAh Battery x 1 2S1P 7.4V LI-Po 1900~2600mAh TRith x 1



Microbeast PLUS Flybarless System x 1 無平衡翼系統 x 1

crew Driv 字獎級起子 3.0/ g 1.8m



Receiver(7-channel or more) 接收機(七動以上)



Remote Receiver 衛星天線



91H 引寒



ALIGN 91H Engine ALIGN 91HP Engine 105HP Engine

ADDITIONAL TOOLS REQUIRED FOR ASSEMBLY 自備工具



Swashplate Leveler 十字解校正器







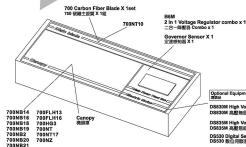


THETMT9011

Multi-function Tester



PACKAGE ILLUSTRATION 包裝說明



Quick Finder 零件快速購



Optional Equipment 選票品 DS830M High Voltage Brushless Servo x 3 DS830M 高壓無刷伺服器 x3

DS835M High Voltage Brushless Servo x 1 DS835M 高壓無剧伺服器 x 1

DS530 Digital Servo x 1 DS530 数位伺服器 x 1

MODEL STANDARD FOUIPMENT DIFFERENCE 標準配備版本說明 人口にい

The T-REX 700XN Combo includes additional electronics and other equipment. The instruction Manual will refer to the T-REX 700XN Combo. You may purchase any additional items or spare parts referenced in the instruction manual.

T-REX 700XN 系列商品除標準配備會因您購買的商品版本而有些徵不同,在組裝、設定上都是一致的, 在此發門以 Combo 作為操作範圍,使也可能與重而上的商品聲爾來檢密其的讚騰商品。







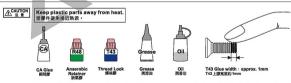
CAREFULLY INSPECT BEFORE REAL FLIGHT 精酶核熱行飛行前之檢查義務

- · 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. IDLF 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.
- · 每次飛行前應先確認所使用的頻率是否會干擾他人,以確保您自身與他人的安全。
- · 每次飛行前確定您發射器與接收器電池的電量是在足夠飛行的狀態 ·
- · 翻導前確認油門搖桿是否位於曼低點,他少路落開闢,定決閱購(IDLE)是否於關閉位置。
- · 歸機時必須遵守電源開陽機的程序,開機時應先開啟證射器後,再開啟接收器電源;陽機時應先關閱接收器後,再關閱證射器電源。不正確的開關程序可能會 造失控的现象,影響自身與他人的安全,讀養成正確的習慣。
- · 開機講先確定直昇機的各個動作是否順幅,及方向是否正確,並檢查伺服器的動作是否有干涉或崩齒的情形,使用故障的伺服器將導致不可預期的危機。 · 飛行的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損毀的零件,仔細檢查主旋翼是否有損壞,特別是接近主旋翼來座的部位。損壞或組裝不完 整的零件不確影響飛行,更會造成不可預期的急機。注意:每次飛行前的安全检查、保養、及更換損耗零件,請請實壓格執行以確保安全。
- · 檢查所有的連桿頭是否有鬆脫的情形,過繫的連桿頭應先更新,否則將造成直昇機無法操控的危險。 · 確認當後及當資格商長否因定定數,發行中的實動或激烈的發行,可能造成當資格所數數而造成生物的危險。

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,請配合上腳或上油,以確保鎖附零件使用之可靠度。

- OIL: Add small amount of OIL. 激治油: 添加海霉灌涂油 CA: Apply small amount of CA Glue to fix. 設備器: 使用資量股份器同か
- R48: Apply small amount of Anaerobic Retainer to fix. 缺氧髎:使用適量缺氧器固定 Grease: Add small amount of Grease. 测滑油: 添加油量测滑油
- T43: Apply small amount of Thread Lock to fix. 螺絲膠: 使用適量螺絲膠

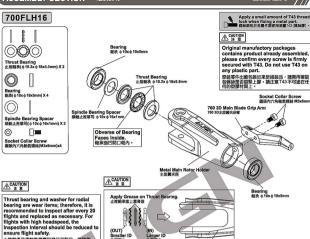
When assembling ball links, make sure the "A" character faces outside. 各項翅聯製連桿頭扣接持, "A "字蹟朝外。

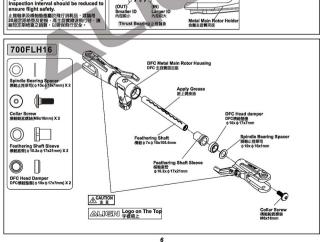


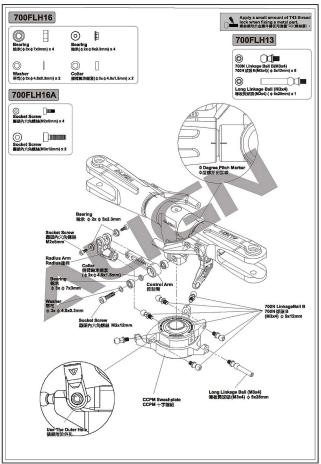
- 1. Anaerobic Retainer (R48)is green penetrating threadlocker and is used to fix the metal tube before assembly at temperatures up to +180°C -
- 2.Thread Lock(T43) is blue low strength threadlocker and is applied to the small screw(threads) or metal parts before assembly to prevent loosening. Ensure to apply only a small amount and wipe surplus off. When disassembling, recommend to heat the metal joint about 15 Seconds.
- 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) 為綠色高強度快速因化的缺氧器,適合於金屬管狀因定用,可耐高溫至180°C。
 2.模熱器 (T43) 為藍色低強度燒熱器,適合小型螺絲;使用於金屬內外径或器合螺絲粉,精務必適量使用,必要時請用手去除多能器量,欲拆卸 時可於金屬接合部位熱烤約15秒。 3.潤滑油 (Grease) 為養狀潤滑油,適用於單向輸承或止推輸承。
- ②上述各類功能學(油)請依零件屬性需求自行準備並斟酌其用量,以達到最佳組簽默驗,避免因使用不當造成零件損壞或不可預期的意外發生。







760FLH16A

Linkage Rod(A) 2/# A (M3x35mm) x 2

Linkage Ball B(M3x4)
説語 B(M3x4)(6 5x10.5mm) x 2

Socket Collar Screw 西頭內六角軸蓋螺絲(M4x24mm) x 2

M4 Nut M4防慰螺帽×2

Washer

Collar

Elevator Ball Lin 升降臂連桿頭 x 2

CAUTION

Already assembled by Factory. Before flying, please check if the screws are fixed with glue. 原裝組裝完成品,每一次飛行前轉先確認螺絲是否已上野不會發動。

ACAUTION

You may adjust the length of ball link when tracking is off while flight . 若飛行中有雙章情形,可適當調整連桿頭長短改善。

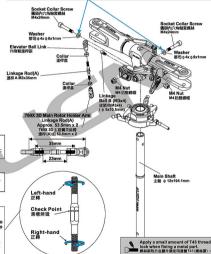
A CAUTION

For installation, make sure the "Check Point" is face upward, then use piler or wrench grasp the center of hexagonal rod to adjust its suitable length, turns clockwise to decrease the length, turns counter clockwise to increase the linkage length.

組裝時請將連桿中間有滿槽辨識諮問上。請使用尖鳴的 或扱手轉動連桿中間穴角柱部位胸整遊當長麼,順所針 轉點為誤后連桿長度;逆時針轉動則為踢長連桿長度。

企CAUTION 注意

- 1. While assembling T-REX 700X/700L V2 FL Rotor Housing, please be sure to include a © 4x © 8x1 mm washer between Socket Collar Screw and M4 Nut. Confirm the main shaft is firmly assembled on rotor housing. This will ensure main shaft longevity and fight safety.
- Main rotor head and main shaft are wear items; it is recommended to inspect after every 200 flights and replace as necessary. For high headspeed flights, the inspection interval should be reduced to ensure flight safety.
- Make sure to check and change the parts if any failure due to normal deterioration or mechanical wear to prevent expected danger during high headspeed flight.
- 1.T-REX 700X/700L V2 FL新款提買頭組装時,請於主提買固定座額別的驗套鄉絲及訪緊鄉幅之間墊上 一片の4x08x1mm審司。可確保主設質固定座施密實額緊於主軸上,講該用手上下左右搖動,不可 青纏擀或准果內傾能於母。
- 2.旋貫頭組及土軸屬於飛行消耗品,建議每200趟定期檢查及更換,請縮短定期檢查之趙數,並確實檢 等效約百旦機,以確保等行的全。
- 查您的直昇機,以確保飛行安全。 3.若發生人為組裝不需或機件損毀遊成模型商品排機時,購務約詳細確實檢查,強烈建議更換損壞的部 此,將每点土粉轉離冰級行款。每在天可給館的會別。



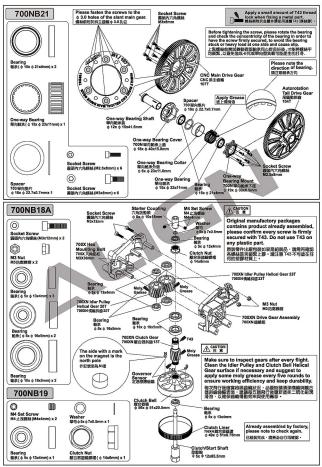
MAIN ROTOR GRIP ARM AND LINKAGE ROD 主旋翼連桿與夾座臂

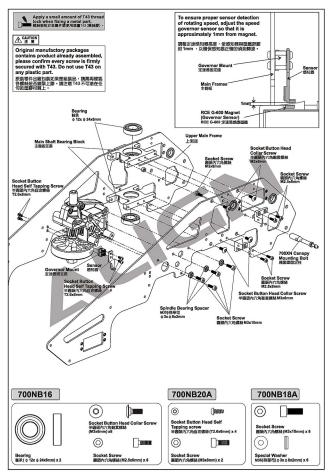
SYMMETRICAL PITCH, THE BEST PRECISION 動作螺距對稱・精準度更好

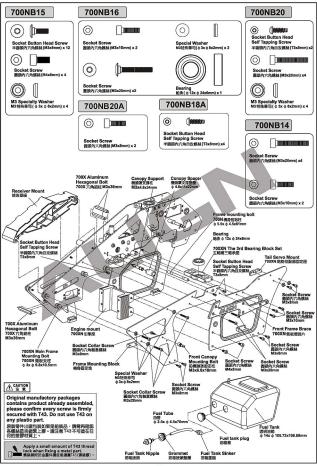
Main Rotor Grip Arm and Linkage Rod is at 90-degree angle symmetrically, allow to keep the best precise flight performance.

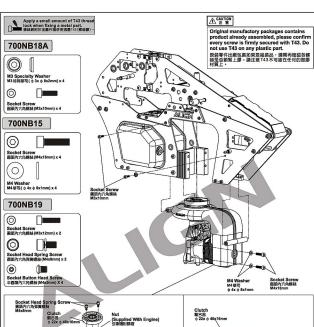
主旋翼連桿與夾座臂 90度設計,使螺距動作成對稱比例,讓直昇機動作更精準無線差。

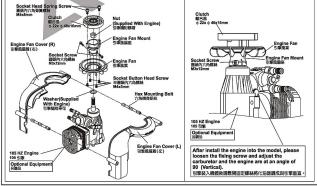














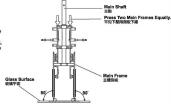
Main frame assembly point :

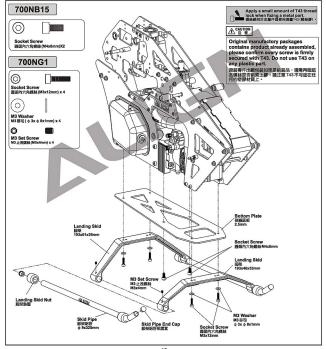
First do not fully tighten the screws of main frames and put two bearings through the main shaft to check if the movements are smooth. The bottom bracket must be firmly

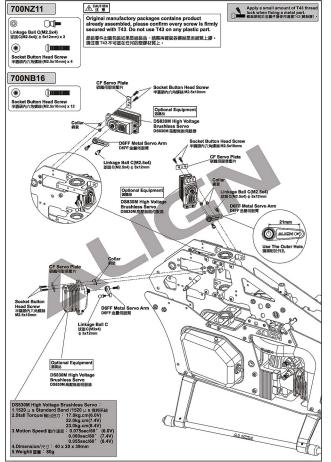
movements are smooth. The bottom bracket must be firmly touched the level table top(glass surface); please keep the smooth movements on main shaft and level bottom bracket, then slowly tighten the screws. This assembly can improve power and flight performance.

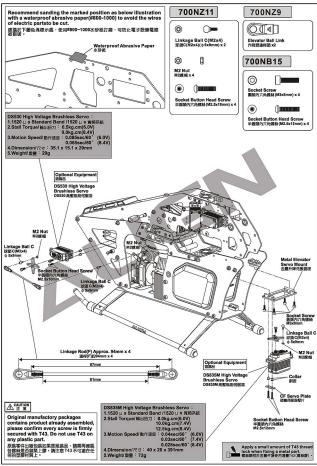
機身側板組立重點:

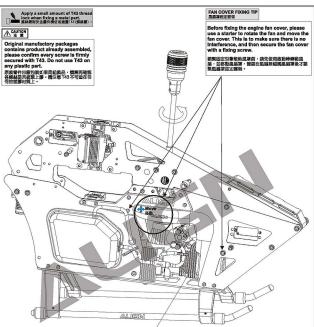
侧板螺絲先不完全鎖緊,放入主軸貫穿二顆軸承確認上下移動必需滑 順,主鏈底板必須與水平桌面(被調平面)溶實緊贴:請保持主軸滑順 與底板平行桌面後慢慢鎖緊螺絲。正確例板的組裝對動力與飛行性能 有關器幫助。



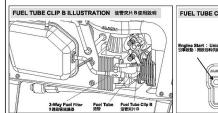


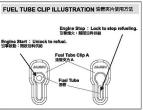


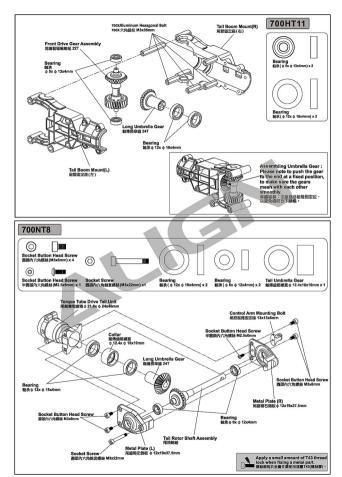


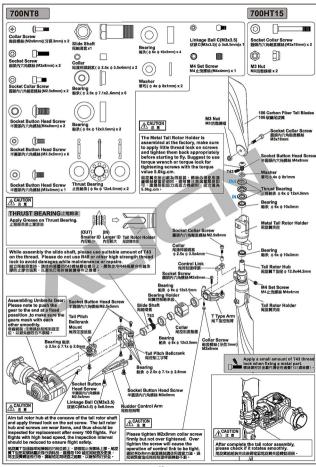


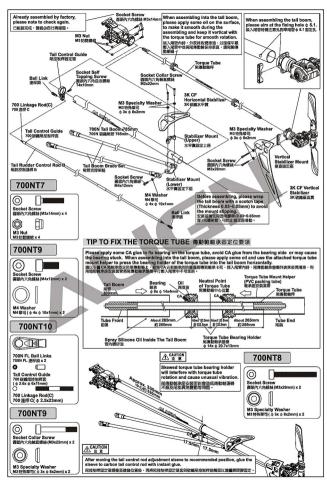
<u>A</u>CAUTION For engine adjustment and precautions, please refer to the factory manual for more instruction. 引擎否項問題及注意學項,類參照原數使用說明書。

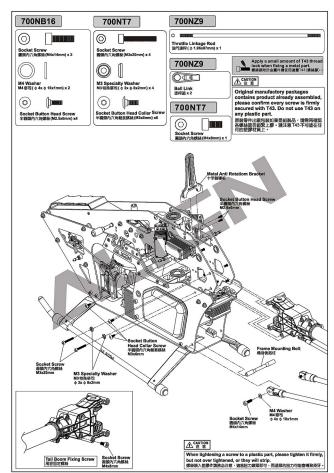


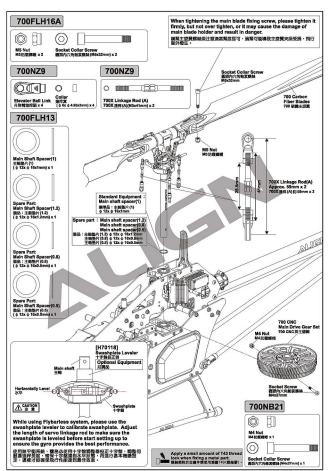


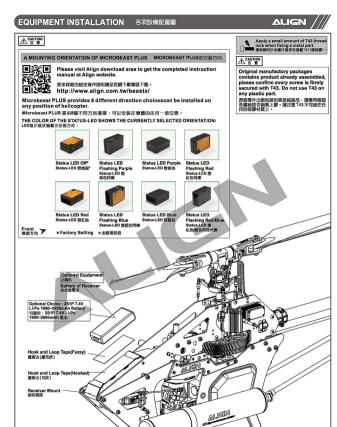




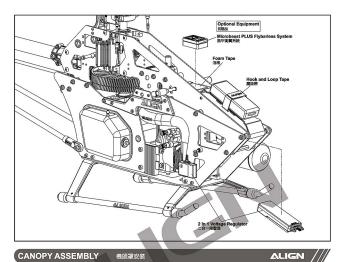


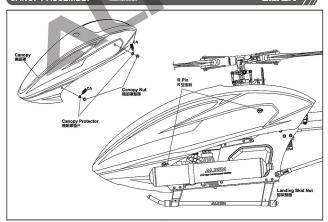


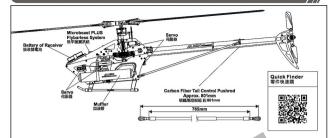




Optional Equipment







MICROREAST PLUS FLYBARI ESS MANUAL

無平衡貿系統使用設明

ALICN

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 亩 昇機使用 MICROBEAST PLUS 無平衡翼系統,須搭配 ALIGN 直昇機核準配件(主旋翼 < 何殷寒、馬達)與飛行操作、設定指示。

USER NOTICE 使用注音惠頂



1.If assembling and operating the helicopter without using ALIGN standard equipment, including electronic equipment & blades...etc, please make sure there is a sufficiently large and stable power supply to your helicopter. If there is any abnormal voltage or insufficient power supply, suggest to

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

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.

安裝、操控密的直昇機勝,如非使用 ALIGN 標準配件 (含電子配件、主旋實等),請務必確定您的供電系統有足夠的供電能力,如發現電壓 確常、供電不足,確效應升級使用 MICROBEAST PLUS HD 無平衡雙系統 (資配),以能確保充足、運営的接收裝置資。

2 MICROREAST PLUS/HD 使田、設定、接線,請急網 REASTX MICROREAST PLUS/HD 宣方始組。

任何電子配件、零件的設定、組裝、修改或操作不良所造成的電壓異常、電子零件損壞,即可能造成供電不穩定等問題,每趙飛行前須注意 存締論香。於止機体及常之學性功務而已除不可發明的音似。

MANUAL LINK 粉帘操作連結

MICROBEAST PLUS Flybarless System is the latest version out of the factory, please feel at ease using it. You can also link to BEASTX MICROBEAST PLUS/HD website to get the latest version and the latest news. MICROBEAST PLUS Flybarless System has available some different versions, each version has different programming and function, please make sure Viscotti Constitution of the Constitution of t

MICROBEAST PLUS無平衡質系統,出級誇主程式已是最新版本。您也可以連結至BEASTX MICROBEAST PLUS/HD官網查詢,隨時更新最新版 本及各項最新無息。配分版本因升級而設定及功能會有所不同,請確定您的版本並詳閱其說明書,尤其您是由 V3.2.x 升級至 V.4.x.x, 擅務必深入 了解版本之間的設定功能,以免錯誤而造成損失。操作設定請同時参照V3.2.x版及V4.2版使用說明書。



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區下載。 http://www.align.com.tw/beastx/



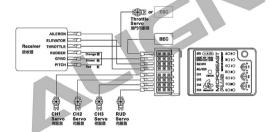
Optional Equipment

PARTS IDENTIFICATION 多部位名称

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. 評絕後載方式,請歸繼QR Code 連結至MICROBEAST PLUS按問書

A CAUTION 注意



MICROBEAST PLUS HD Flybarless System(Optional) MICROBEAST PLUS HD無平衡質系統(選配)

If assembling and operating the helicopter without using ALIGN standard equipment, including of locknoine equipment & bladdes...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.

安婆、操炼您的直昇機特。如非使用ALIGN標準配件(含電子配件、主旋翼等),轉展必確定您的供電系統有足夠的供電能力,如發 現電壓翼常、供電不足、建議您升級使用 MICROBEAST PLUS HD 無平衡廣系統(強配),以旅館保况足、穩定的股収器電源。 MICROBEAST PLUS HD 使用、验定、验验、诸器MICROBEAST PLUS HD 空方說明。 To set this option is to turn on the transmitter and connect to BEC power.

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

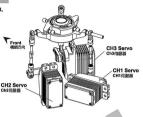
此項股定只要開放發射器,接上BEC電源即可進行操作。

注意: 為了安全記憶,設定前請先不要將無關關係認證無關無後三條總接上,以中國略結紮動無達而發生危險。

SERVO CONFIGURATION 伺服器配置

Following the serve configuration diagram on right. plug the servos to Gyro.

請依服右圍圖示的局份與名禮,將局份與接到吃螺備。



ADJUSTMENTS FOR GYRO AND TAIL NEUTRAL SETTING 院整備與尾翼中立點設定調整 ALIGN

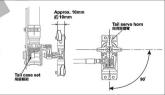
Turn off Revolution mixing(RVMX) mode on the transmitter, then set the gain switch on the transmitter and the gyro to non-head lock mode, or disable gain completely. After setting the transmitter, connect the helicopter power and proceed with rudder neutral point setting. Note: When connecting to the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

發射器內贮螺備設定請願別根轄深控模式,並將發射器上的感度問願與吃螺衛切至"非鎖定模式"或將陀螺備感度關閉。發射器設定完成後接上直昇機電源,即可 下接面於星楼鞋的中間位置,即為楼準星影中立點設定,設定完成後,切換至"确定模式",感度設約70% 左右。

TAIL NEUTRAL SETTING 尾中立點設定

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

陀螺儀階機後,在非鎖定模式下,尾向服器與尾 Pitch控制起正確擱置 位置。若尾 Pitch控制組末置中時請調整尾控制連桿的長度來修正。



HEAD LOCK DIRECTION SETTING OF GYRO 陀螺镜鎖定方向設定

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"

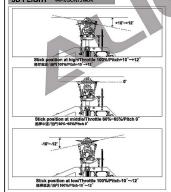
陀螺機能定方向確認、當手搖尾部順時鐘擺動,尾伺服臂應反時鐘修 正,反向時請切換陀螺機上"确定反向"陽關修正。





GENERAL FLIGHT 一般飛行模式 100%/Pitch+10 拖桿高速/进門100%/Pito +5 Stick Position at Hovering/Throttle 60%/Pitch+5* -2'-0' Stick Position at low/Thro 据译医数/注門のWPtich-2"-0"

3D FLIGHT 3D特技飛行模式



1. 螺矩(Pitch) 總行程約 ± 15° 2. 確論:螺矩設定勿經過± 14°,過大螺距設定,可能導致引擎過载及變異商旋轉干涉。

GENERAL FLIGHT

Throttle		Pitch
5	100%High Speed 100%高速	+10"
4	80%	
3	60%Hovering 80%停服	+5"
2	40%	
1	0% Low Speed 0%低速	-2'~0'



IDLE 1 : SPORT FLIGHT

Throttle		Pitch 螺距
5	100%	+10'~+12'
4	75%	
3	60%	+5"
2	65%	
1	70%	-5"



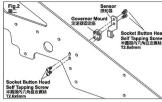
IDLE 2 : 3D FLIGHT

Throttle		Pitch	
5	100% High 100%高	+10"+12"	
3	80%~65% Middle 60%~65% Φ	0,	
1	100% Low	-10'~-12'	



INSTRUCTION 安装使用說明





NOTE:The safty RPM is up to 16000rpm for OS90 engine. 註:OS90引擎安全轉法上限16000rpm。

CAUTION

Magentic sensor located at clutch bell sensor in the senso

Throttle at mid stick position 油門遙桿在中間







For transmitter throttle curve setup, please refer to Microbeast PLUS (V5.x.x) manual, Nitro Mode setup . Manual download : http://www.align.com.tw/manuals/fiybarless/

盖控码价油門曲線數據,謂参考 Microbeast PLUS 無平衡費系統 (V5.x.x專用)說明書內引筆模式調整,完整的說明書壽 至官解予載專器下數。 Http://www.align.com.tw/manuals/flybarless/

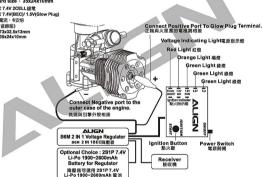
FFATURES 功能說明

- 1. Due to the unique 2 in 1 design, the regulator's functions provide power to the receiver, servos, and the internal glow plug ignition system that does not require you to remove the clip lead.
- 2. The linear regulator design results in no interference to the receiver. The required input power may only consist of a 2 cell Li-ion or a Li-Poly battery.
- 3. When the integrated power switch is moved to the on position, the voltage indicating LED's and ignition indicating LED's will illuminate displaying the tatus of the battery voltage, and of the plug ignition function.
- 獨特的二合一股計,除了具備(BEC)每/穩壓系統,以提供接收器與伺服器電源的功能外,適內建一組火星塞的點火裝置,借去傳統電夾插拔的麻煩。
- 本產品採用線性設計,輸入電源為2CELL的LI-lon或LI-Poly電池,其優點為不會像交換式設計的BEC會產生干擾接收錄的情形,可於搖機的恐懼。
- 且備雲液胞腺、雲原把示偿及點火起示偿功能,可由偿验判定雲池務量廠火星塞的點火狀構。

SPECIFICATIONS 商品規格/配件

- 1. Input Voltage: DC 7.4V 2 cell Lithium or Li-Poly battery
- 2. Output Voltage : DC 7.4V(BEC)/ 1.5V(Glow Plug)
- 3. Max. Continuous Current : 6A
- 4. Weight: 51.2g (including wires) 5. Regulator size: 73x32 5x13mm
- Control board size : 35x24x10mm
- 1. 輸入電壓: DC 7.4V 2CELL ###
- 2. 輸出營服: DC 7.4V(BEC)/ 1.5V(Glow Plug)
- 3. 最大連續輸出電流: 6安培
- 4. 索量: 51.2g (全線組)





INSTRUCTION 安裝使用說明

Receiver and Servo Voltage Regulating Functions :

- 1. The Auto-detecting voltage LED's will display a series of lights when turned on. If the entire five-light array is illuminated then the battery is fully charged. When the voltage drops below 7.6V the three green lights will turn off. USE CAUTION : Once the green lights are no longer illuminated the battery can only be safely used for a single flight. When only the single red LED is lit, DO NOT ATTEMPT TO OPERATE THE MODEL. The battery voltage has been drained too low, and must be recharged before its next use.
- 2. 7.4V output 2 in 1 Voltage Regulator BEC must compatible with HV serves, make sure not to use 6V serves for it.

- 1. 本產品具電壓指示功能,當接入充縮的電池跨五顆指示燈全亮,表示電池在Full電量充足狀態下: 使用中當電壓降低至7.6V時(3.顆線燈熄滅),尚可完 成單趙飛行即須製電池充電或更換新電池:而如果僅亮紅燈時表示Empty電量不足・不應該再使用壓!
- 2.二合一降壓器BEC輸出為7.4V,必須搭配高壓伺服器使用,嚴禁搭配使用一般6V輸出的伺服器。

Glow Plug Ignition System Functions :

- 1. Start by connecting the wires using the included diagram as a reference. Once completed connect the battery and move the power switch to the on position. Depress the "START" button on the control board. The green and the orange lights will illuminate. When this happens the glow plug is being ignited for a period of 15 seconds. After 15 seconds, the control board will stop igniting the glow plug. If the engine has not yet been started, the process can be repeated by simply repressing the "START" button. The ignition system is designed to automatically shut off once the engine starts running. To ensure that the system is operating properly, check to make sure that the orange and green lights have shut off once the engine starts running. In the vent that the lights are still illuminated once the engine is running. If may be necessary to remove the lead cilof from the engine.
- If the orange light is not illuminated after pressing "START" then this means that the glow plug is not being ignited. Please check to see if the element of the glow plug has burned out, or if the lead clip is not properly connected to the glow plug.
- grow plug.

 3. If the Glow plug is short-circuited or the lead clip has contacted the outer case of the engine, the red (SHORT) light will be illuminated approx. 1 second after pressing the "START" button. If the "SHORT" light illuminates the system will automatically shut off the power to the output leads.
- NOTE: Please use double-sided foam tape or hook & loop tap to fix the regulator on the helicopter. Please do not tighten the wires of regulator hard to avoid the wires loose or broken caused by the vibration during the operation of the helicopter.

火犀寒點火器部分:

- 1. 依接線示意圖完成接線後,開停電源開闢,接著按下控制電路板上的"START"鍵。此時數次指示機的接機與具構提內時亮起,表示火星器已正常數火中,每次數火時間約為15秒。15秒後自動線局,如南海天點火時,則再按一次"START"鍵;由於數火狀實會自動線局。所以引擎倍動後,確認權合、維合排元股於15秒後變差。即不潔態與水板除。
- 2. 若按下"START"證時,構想不亮,表示火星寒未正常點火,請檢查火星寒加熱線層是否開路消壞,或是顯魚夾未指實夾在火星寒電極端上。
 3. 如果火星素多生斑筠或三體魚夾(電流正常)與引擎火投援網時,當波下"START"是,紅色(SHORT)指示煙會亮起,約1秒後熄滅並隨即陽陽電海給出、換給水 災害集等品機能或物毒器每水果之常樂司以電子協。
- 源輸出,請檢查以畢業是否損壞或檢查關稅夾是否接觸到引擎外殼。 注意:隨伊田灣線傳語隨煙藥銜片將發展祭與官理標因由,能歷點然的名稱網體勿嚴緊因定。以召商累勝澤護納因實動治成溶函數份位斷線。

FLIGHT ADJUSTMENT AND SETTING

飛行動作調整與設定

ALIGN/

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

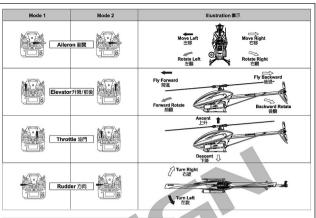
A safe and effective practice method is to use the transmitter flying on the computer through simulator software sold on the market. Do a simulation flightuntil you familiarize your fingers with the movements of the rudders, and keep practicing until the fingers move naturally.

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

在還沒酸解直昇概各數作的模型方式前,嚴禁實機飛行,請先進行電腦模擬飛行的練習,一種最有效 與發生的練習方式,就是透過市膨軟售的模擬較體,以基礎發在電腦上模擬飛行,熟悉各權方 向 助模地 亦不斷的確保 直到日指因數線的秒割為因動作及方向。

- 1. 將直昇機放在空曠的地方(確認引擎為熄火狀態),並將直昇機的機尾對準自己。
- 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、升降統削後及方向舵左/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,手指能自然隨著或出的指令移動控制。





FLIGHT ADJUSTMENT AND NOTICE 飛行題整單注意

企CAUTION

OCheck if the screws are firmly tightened.

OCheck if the transmitter and receivers are fully charged.

○再次確認→螺絲是否鎖固?○發射器和接收器量消差否定数

When arriving at the flying field. 當班達報行場

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.

假使聚行爆在其他通控形態,隨確認他們的簽室,並告知他們你正在使用的簽室,相同的簽室會造成干擾獲發失掉和大大批增加風險。

ENGINE START PREPARATION 引擎啓動事前進備

Separate the fuel tube and the joint and start to refuel. Please be careful to avoid the dust entering the tube. When the fuel tank is full, please stop refueling and reconnect the tube and the joint. 將油管與其接頭分離,並開始補給燃料。請小心避冤灰塵砂粒進入管子内。當油箱已滿,請停止補給燃料並再將管子和接頭接合。

ACAUTION #

For engine adjustment and precautions, please refer to the factory manual for more instruction

引擎各項調整及注意事項,請參照原廠使用說明書。









企CAUTION

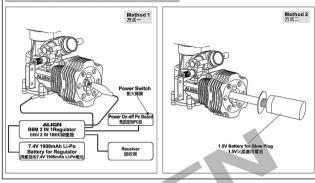
First check to make sure no one else is operating on the same frequency. Then place the throttle stick at lowest position and

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 if the throttle stick is set at the lowest position and check if engine throttle is at low speed. 確認油門搖桿是在最低的位置,並確認引擎油門置於低速。

GLOW PLUG IGNITION METHOD 火星塞點火方式



ENGINE START AND STOP 引擎察動和熄火

- 1. Connect the battery to the starter and check the rotation direction. Insert the starter shaft into the starter completely.
- 2. Tightly hold the main rotor head, and insert the starter shaft into the starter coupling. Then turn the starter to start the engine.
- 3. When the engine starts, stop the starter and remove it from the starter coupling. Please keep holding the main rotor head tightly.
- 4. Hold the main rotor head tightly, and turn off the power of glow plug or remove the power.
- 5. Still hold the main rotor head tightly, turn throttle trim at the lowest position, and keeping engine in lowest regular running.
- 6. If you want to stop the engine, please set the throttle trim (beside the throttle stick) at the lowest position. If the engine cannot stop, please put the Fuel Clip into lock position to stopping refueling.
- 3. 其與動電池連接到與動器並確認其機動方向。將與動軸完全插入與動器。
- 緊緊抓住主旋翼頭部,將各動軸插入引擎各動頭並以各動器各動引擎。
- 當引整路動後,停止終動器並網路動頭上的路動器移開。請保持繼續緊抓住主意豐丽部。
- 仍然緊抓住主旋翼頭部,將火星塞點火電池顧開或移開。
- 仍然緊抓住主旋翼頭部,請保持油門於最低點時,引擎能保持於低急速下正常運轉。
- 6. 欲將引擎熄火時,只需將油門搖桿旁的油門做錦蘭至最低即可:如果引擎仍無法停止,請將油管夾片推至鎖定位置,關閱油料供給。



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

將直升機需於柔軟地面上,建議硬地起飛腳架裝上避需整圈。避死升空前腳架與過硬的地面震動太大反饋至機身上的無平衡翼感應器,影響無平衡翼 系統升空前過度修正。

Rubber Skid Stoppers Installed 我上屋養皂 の



企 注意

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

直昇機難均前,十字盤可能因應應器受震動的反饋,使十字盤有傾斜的情形,此時讀勿刻意將十盤修正為水平狀態,此現象只要離地升空時立即解除,可平纖升空;若刺音將十字整修正為水平狀態,此現象只要離地升空時立即解除,可不擴升空;若刺音將一次不能

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
- 3. Look at the path of the rotor carefully. If the two blades rotate in the same path, it does not need to adjustment. If one blade is higher or lower than the other blade, adjust the tracking immediately.
- 1. 調整前先在其中一支主旋翼的翼蝎,贴上有颜色的贴纸或量上颜色配號,方便雙樂調整辨識。
- 2. 慢慢的推起油門搖桿到高點並且停止,在飛機雕開地面前,從飛機倒邊觀察主旋翼轉動。
- 3. 仔細觀察旋翼軌跡(假如兩支旋翼移動都是相向軌跡,則不需要調整;可是如果一支旋翼較高粱較低產生"雙乘"的簡形時,則必須立刻調整軌跡)。
- A. When rotating, the blade with higher path means the pitch too big. Please shorten DFC ball link for regular trim.
- B. When rotating, the blade with lower path means the pitch too small. Please lengthen DFC ball link for regular trim.
- A. 旋翼轉動時較高軌節的主旋翼表示螺旋(PITCH)過大,請國DFC連桿頭修正。 B. 旋翼轉動時發低軌節的主旋翼表示螺旋(PITCH)過小,請國DFC連桿頭修正。

CAUTION H

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

nelicopter at a distance of at least 10m. 網絡軌跡非常危險,請於距離飛機器少10公尺的距離。

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

不正確的旋翼軌跡會導致長動。請不斷重複調整軌跡,使旋翼軌跡精準正確。 在應整軌跡後,確認一下Pitch色度在停節態為太約5°。

FLIGHT ADJUSTMENT AND NOTICE 飛行調整與注意





©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.

◎蘇禁用手抓取運行中的直昇機,並禁止将直昇機對著眼睛,當主旋翼傳動後,或起飛/其飛時,務必遠難降棄物,站立位置必需距離 10公尺以上,發使用人為網媒不需達成零件檢索,而可發不可預額的財物及人員增價。

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.
◎確認鄭近地區沒有人和障礙物。

○為了飛行安全,您必須先確認停懸時各項操控動作是否正常。

CAUTION # W

Do not attempt to fly until you have some experiences with the operation of helicopter. 嚴禁無熟練提控飛行經驗省操控飛行。



STEP 1 THROTTLE CONTROL PRACTICE 油門控制練習

- When the heliconter begins to lift-off the ground, slowly reduce the throttle to bring the helicopter back down. Keep practicing this action untilvou control the throttle smoothly.
- 常直层機器的維助時,機構経低沖門將飛機路下。持續練習飛機從地面上升和下降 直到你警復油門控制級關。







STEP 2 All FRON AND FLEVATOR CONTROL PRACTICE 副翼和升路控制練營

- 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. 倾倾升起油門搖桿。
- 2. 使直昇機依指示: 移動向後/向前/向左/向右, 慢慢的反向 移動剛質和升路採桿並 將直昇機關回到原來位置。

CAUTION

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





STEP 3 RUDDER CONTROL PRACTICING 方向舵操作練習

- 1. Slowly raise the throttle stick.
- 2. Move the nose of the helicopter to right or left, and then slowly move the rudder stick in the opposite direction to fly back to ts original position.

1. 榻榻升起油門終程。

第百昇機機面移動左或右,然後慢慢反向移動方向於條桿並將百昇機飛回原本位置









STEP 4

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

當您覺得 STEP1~3 動作熱感了,在地上畫際獨並在這個團獨的範圍內練習飛行,以增加 您議座的準確度。

○ 常依更加智橋操作動作・依可以書車小の開展。



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

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

常然费得STEP1~4動作熟悉了,站在面對直昇機倒達並繼續練習STEP1~4。之後,站在













TROUBL	ESHOOTING	飛行中狀況排



		SS (24:53124) (\$20:539:52)	
	Problem 狀 混	Cause 原 因	Solution 對 策
Blade Tracking 雙槳平衡	Tracking is Off 雙榮	Pitch linkage rods are not even length PITCH連桿長度網整不平均	Adjust length of ball link. 調整連桿類長度
	Headspeed too low 主反翼畸态情報	Excessive pitch 主旋翼的PITCH偏高	Adjust ball link to reduce pitch by 4 to 5 degrees. Hovering headspeed should be around 1700~1800RPM. 類整連桿期間是Fitchip1+6~5度 (序想的主旋與解為的1700~1800RPM)
Hover		Hovering throttle curve is too low 停懸影池門曲線過低	Increase throttle curve at hovering point on transmitter (around 60%) 顕高伊懋勒油門曲紋(約60%)
停懸	Headspeed too high 主変質特強偏高	Not enough pitch 主旋翼的PITCH偏底	Adjust ball link to increase pitch by 4 to 5 degrees. Hovering headspeed should be around 1700-1800RPM. 關整連項副開高Pitch的+4-5度 (伊思莎主政院素為約1700-1800RPM)
		Hovering throttle curve is too high 停懸點油門曲線過萬	Decrease throttle curve at hovering point on transmitter (around 60%) 調任停服贴油門曲線(約60%)
	Drifting of tail occurs during hovering, or delay of rudder response when centering rudder stick. 伊斯特用東南美一連督等・宏观動方向総立位後即中国教・用東美生延薨・萧法	Rudder neutral point improperly set 尾中立點設定不需	Reset rudder neutral point 順稅局中立點
Rudder Response 尾舵反應		Rudder gyro gain too low 概念於鍊俱感度偏征	Increase rudder gyro gain 增加尾約充磷礦漿廢
	Tail oscillates (hunting, or wags) at hover or full throttle 伊懸或全油門詩尾質左右來回搖擺 •	Rudder gyro gain too high 尾蛇隊機械發展高	Reduce rudder gyro gain 降低尾轮陀螺鎖頸股

If above solution does not resolve your issues, please check with experienced pilots or contact your Align dealer. ※在敬完以上調整後,仍然無法改善情況時,應立即停止飛行並向有超驗的影手節弱或連絡您的超銷商。

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Specifications & Equipment/規格配備:

Length/機身長: 1346mm Height/機身高: 384mm

Main Blade Length/主旋翼長: 700mm Main Rotor Diameter/主旋翼直徑: 1570mm Tail Rotor Diameter/尾旋翼直徑: 281mm

Engine Pinion Gear/引擎主齒: 13T

Main Drive Gear/傳動主齒: 107T

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

Tail Drive Gear/尾翼傳動齒: 22T

Drive Gear Ratio/齒輪傳動比: 8.23:1:4.73 Fuel Tank Capacity /油箱容量: 630cc. Flying Weight/全配重: Approx. 4540g





