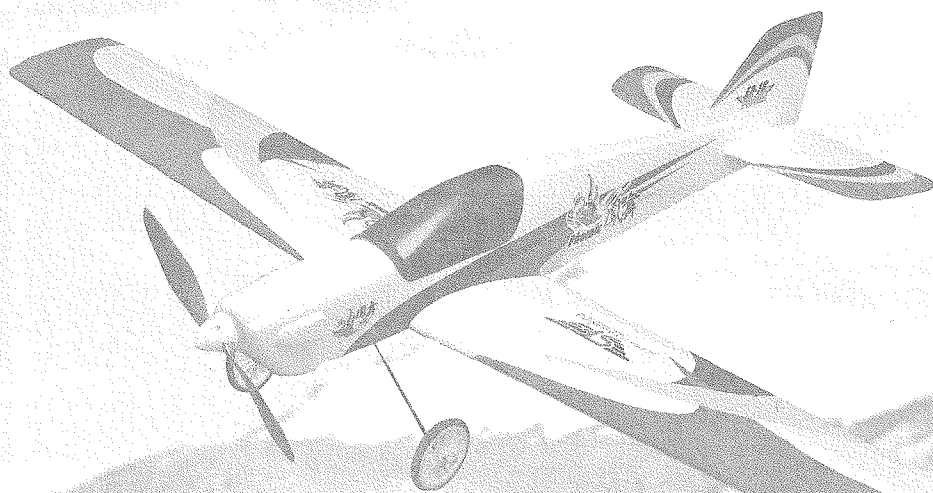




SUPER FLYING MODEL



NO. EP-18 組裝說明書

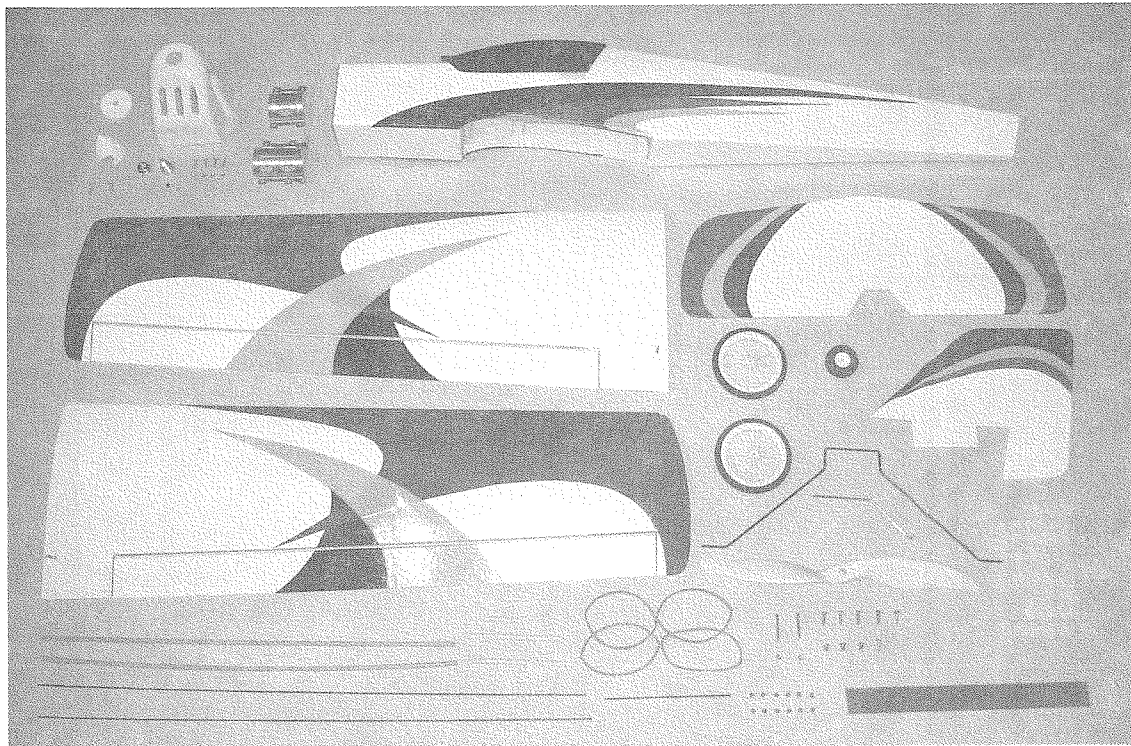
# Phoenix



## 規格 / SPECIFICATIONS

翼展 / WING SPAN: 1080 mm (42.5 in)	重量 / WEIGHT: 580~700 g
翼面積 / WING AREA: 16.34 dm <sup>2</sup>	(20.4~24.7 oz)
(253.5 sq.in)	馬達 / MOTOR: #480 with gear box
全長 / LENGTH: 810 mm (31.8 in)	遙控器 / RADIO: 3~4Ch

INSTRUCTION MANUAL



套件含以上零件 The whole accessories including in this kit.

**建議使用配備 (另購)**

4動 (或以上) 遙控器  
 迷你伺服機 x 3  
 迷你接收機  
 16A電子變速器  
 11.1~14.8V 1400~2200 mAh 鋰電池  
 12V 600~1700 mAh  
 鎳鎘電池或鎳氫電池

**Recommended radio and electronic equipment (Not included in kit)**

4 or up channel radio  
 Micro servos x 3  
 Micro receiver  
 16A electric speed control  
 11.1~14.8V 1400~2200 mAh Lipo batteries or  
 12V 600~1700 mAh Ni-cd or  
 Ni-MH battery pack

**選購配件 Optional accessories**



#2400  
 16A電子變速器  
 16A-Speed control

#3362  
 11.1V 1500mAh 鋰電池  
 Li-po Batteries

#3357  
 12V 950mAh 鎳氫電池  
 Ni-MH battery pack

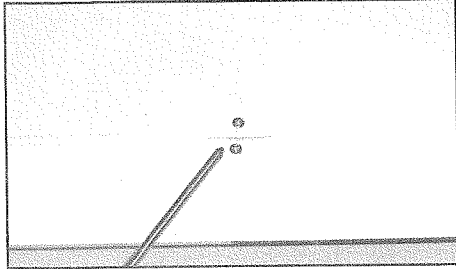
#3914  
 鋰電池充電器  
 Li-po Batteries charger

**準備工具 (另購)**

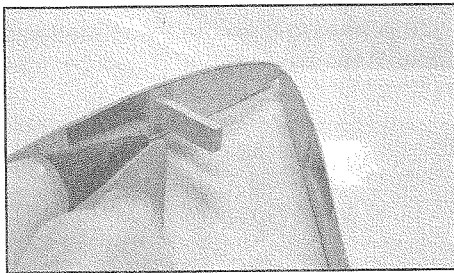
Z字鉗  
 美工刀  
 尖嘴鉗  
 十字螺絲起子  
 2mm鑽頭  
 尺  
 5分鐘AB膠  
 簽字筆  
 1.5mm六角扳手  
 十字扳手

**Tools and supplies needed(Not included in kit)**

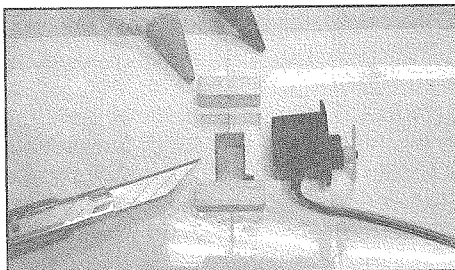
Z-Bender  
 Sharp hobby knife  
 Needle-nose pliers  
 Screwdriver(+)  
 2mm driller  
 Ruler  
 5-minute epoxy glue  
 Black felt-tipped pen or pencil  
 1.5mm hex driver  
 Cross wrench



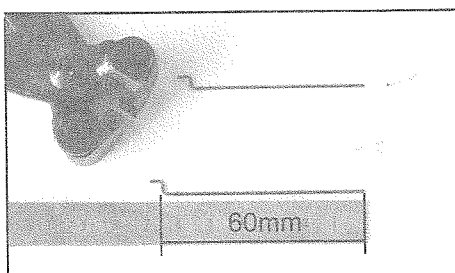
將主翼活頁用2.6x6埋頭螺絲確實固定  
Secure the main wing hinges by screwing in the 2.6x6 screws.



以AB膠將主翼連結板及兩片主翼確實黏好  
黏合左右翼  
Use epoxy to glue two wing halves together.

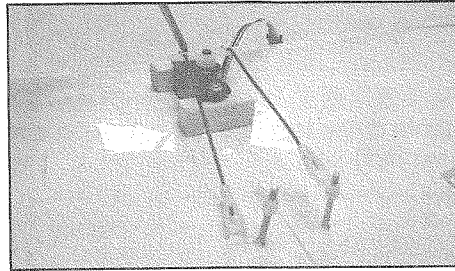


於主翼上蓋板切開適合伺服機大小的缺口再依伺服機座大小,切除欲黏合處的包覆紙並以Ab膠黏合伺服機座  
Try to fit the two wing halves together and locate the servo on the jointing place of the bottom main wing. Use pen to trace the servo's outline on the main wing. Use hobby knife to cut off the tracing area. Try to locate the servo-mounting blocks on the main wing-jointing place and cut off the extra reinforcing sticker. Glue the servo-mounting blocks on this cutting area.



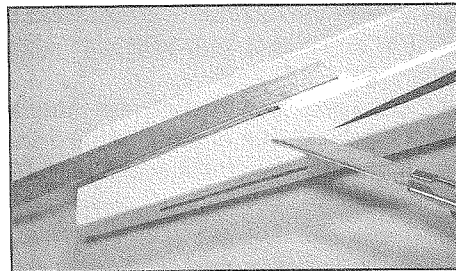
取兩隻長度約60mm的短鋼線,將無牙的一端用Z字鉗成型(長度依伺服機種類及方向做調整)

Place two pieces of 60 mm pushrods on working table. Using Z-bend pliers, mark Z-bend on ends of each rods.



裝入副翼推桿頭,再鎖入伺服機並依所需長度調整連桿頭位置

Screw the servo on the servo mounting blocks. Assemble the pushrods with servo horn and aileron horn.

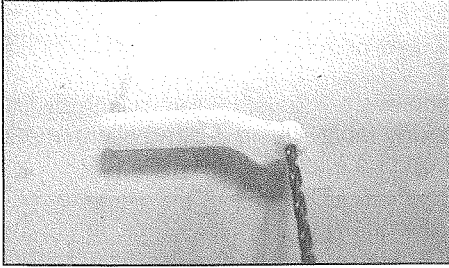


小心切開水平翼及垂直的固定缺口  
Use hobby knife to cut off the convex part on the tail of the fuselage for installing the horizontal and vertical stabilizer.

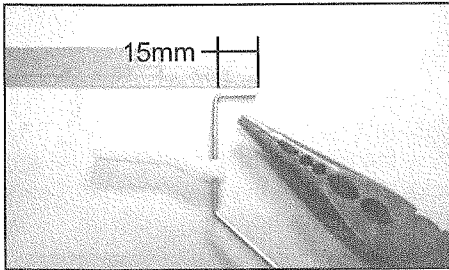


配合機身位置切除水平翼及垂直多餘的包覆紙

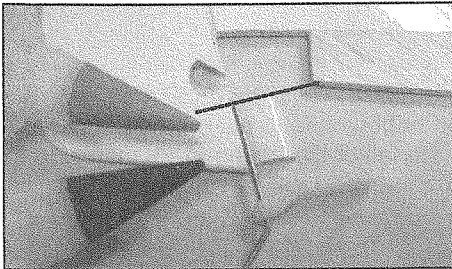
Try to the horizontal and vertical stabilizers on the fuselage. Use black felt-tipped pen to trace the area that horizontal and vertical stabilizers fit the fuselage. Use hobby knife to cut off the covering of the tracing area on the horizontal and vertical stabilizers.



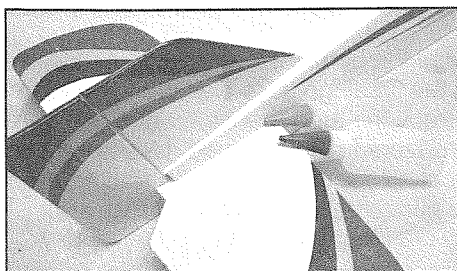
將尾輪架座用鑽頭小心鑽出2mm的孔  
Use 2mm drill to drill a 2mm hole on the tail gear mount.



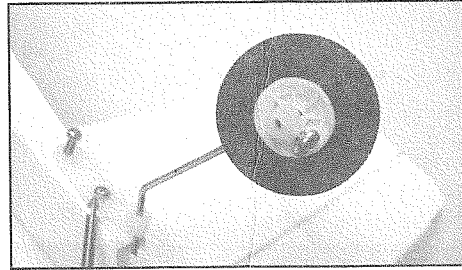
如圖將尾輪架穿過尾輪架座,將尾輪架上端約15mm的位置彎曲成90度  
Insert the tail gear into the tail gear mount. Use pliers to bend one end of the tail gear into 90 degree for assembling with tail wheel.



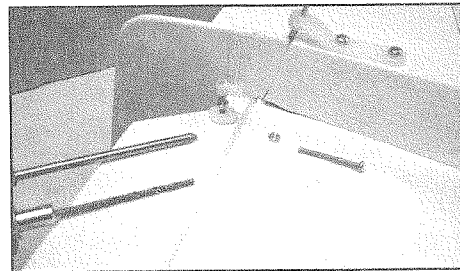
在圖示的位置鑽出一個2mm的孔,再插入尾輪架並以AB膠黏合後再剪一小塊膠帶貼好  
Use 2mm drill to drill a 2mm hole on the indicating place as the drawing shows. Insert the tail gear into the 2mm hole. Use epoxy to glue the tail gear on the rudder. Apply a small piece of sticker on it.



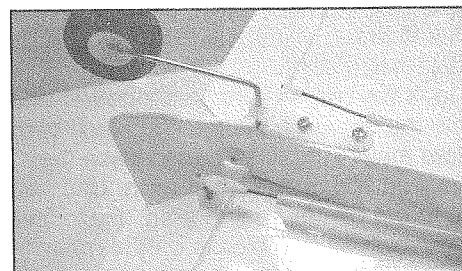
如將水平翼及垂直翼機尾,並用AB膠確實黏合  
Use epoxy to glue the vertical and stabilizers on the tail of fuselage.



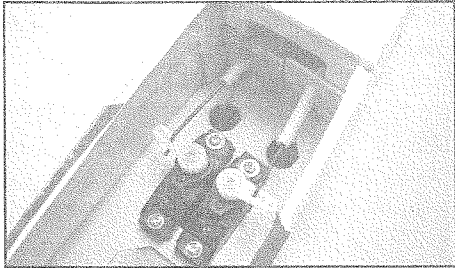
將尾輪架用2.6x10木工螺絲將尾輪架座固定於機尾,再將尾輪裝入尾輪架上,並用M3x4螺絲鎖入輪檔。  
Screw in the 2.6x10 tapping screw to secure the tail gear mount on the tail of fuselage. Assemble the tail wheel and secure the collar with M3x4 screw.



將舵角控制器的橢圓形塑膠片分別置於升降舵及方向舵兩側,將M2螺絲貫穿後,以M2螺帽將兩側橢圓形塑膠片鎖緊  
Locate the round plastic plate of the control horn on the top and bottom of the elevator and rudder. Screw the M2 screw through the two round plastic plates from the top to the bottom. Secure the round plastic plate by screwing in M2 nut.

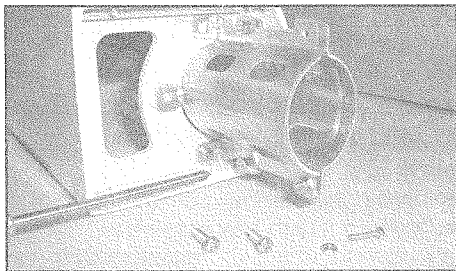


在圖示的位置切出一個長孔,再將連桿及連桿套管由尾端穿入機身  
Using hobby-knife to cut a hole on the bottom of the tail wing. Insert the rod tube into the fuselage through this hole.



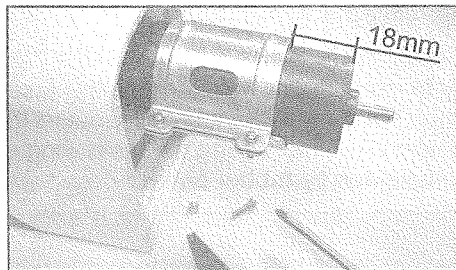
鎖入伺服機,先將連桿套管固定片穿入套管,再將已取好長度的連桿穿入伺服機擺臂,確認伺服機中立點後分別將伺服機擺臂鎖好,再將套管固定片黏在機身隔板以固定套管

Make sure the natural point of the servo, insert the pushrod through the servo horn and secure the servo horn on the servo by screws. Insert the pushrod through the rod tube and connect with clevis. Use tube fixation plywood to fix the tube inside the fuselage.

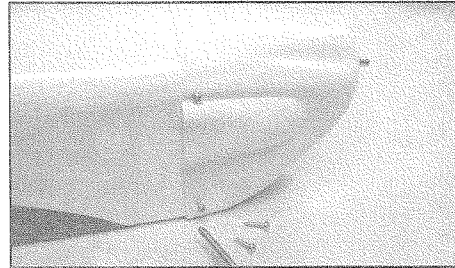


將馬達下座用2.6x10木工螺絲確實鎖緊,再用2x10螺絲將上座套入

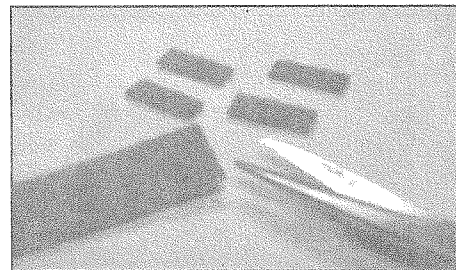
Secure the bottom of the motor mount by screwing in 2.6x10 tapping screws on the fire wall. Place the cover of the motor mount on the bottom of the motor mount and use 2x10 screws to secure it temporary.



將馬達組套入馬達座中,調好長度後將馬達確實鎖緊(馬達變速器接線方式請參照第6頁)  
Try to fit the motor into the motor mount and adjust the position of the motor. It's better that the length of the motor outside the motor mount is 18mm. Secure the motor by screwing in 2x10 screws. (The installation of speed control and motor, please refer to page 6)

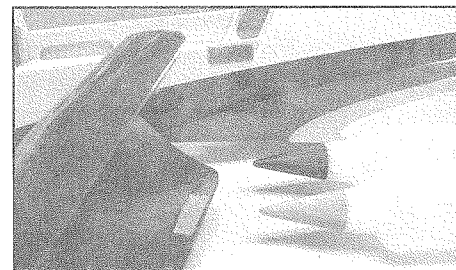


裝上前蓋,用2x10木工螺絲將兩側固定  
Try to fit the cowling. When satisfy the location, use 2x10 tapping screws to secure the cowling.



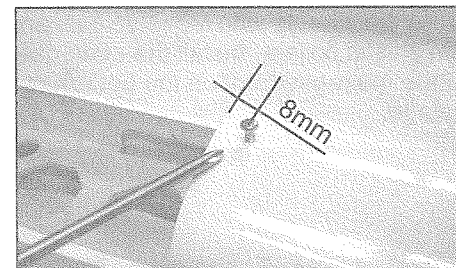
剪下4段8~10mm長的魔術帶

Use scissors to cut 4 pieces of 8-10mm of touch fasteners.

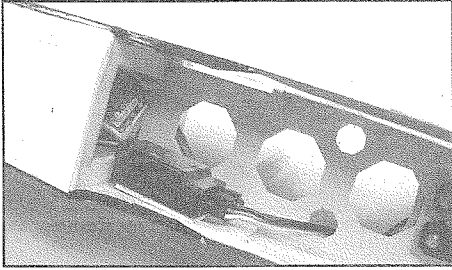


將剪下的魔術帶分別黏在預設的機艙及機艙罩位置。

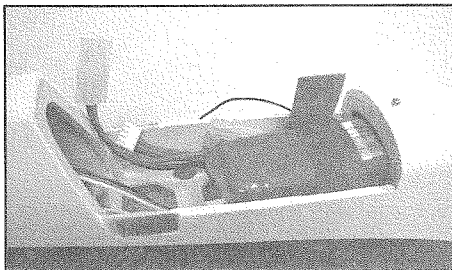
Try to fit the canopy on the fuselage. When satisfy with the location, use pencil to mark the places on the fuselage the canopy for sticking the fasteners.



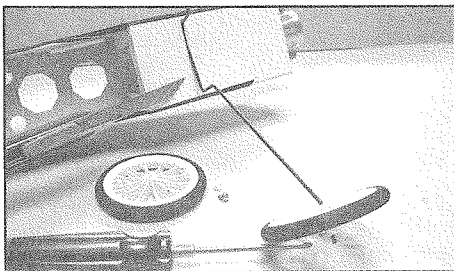
將在圖示的位置鎖入一只2x10的木工螺絲  
鎖入時留下約0.5mm的縫隙供機艙罩使用  
Screw one 2x10 tapping screw on the indicating place as the drawing shows. Please note not to screw too tight for having some space (about 0.5mm) for locking the canopy.



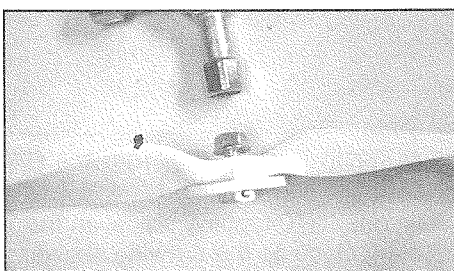
安裝接收機與伺服機線,電子變速器,馬達端子,並將接收機與過長的配線整齊置入機身內  
Insert the receiver, aileron servo cable, speed controller and motor plug inside the fuselage.



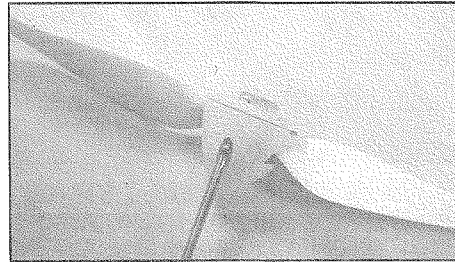
將電池由機艙罩蓋置入,用魔術帶網紮固定,並依電池型式調整重心至建議位置  
Install the battery pack inside the canopy. Adjust the location of the battery pack for getting the C.G. Point. Fasten the battery by Touch Fastener.



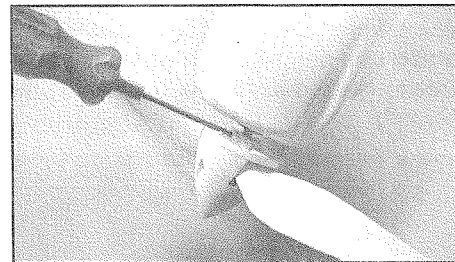
主輪架兩側輪胎以M3x4螺絲搭配2mm孔的塑膠輪檔固定,再將主輪架置入輪架座凹槽  
Assemble the main gear with wheels and secure the wheels with M3x4 screws and 2mm plastic collars. Install the main gear into the main-gear slot on the bottom of the fuselage.



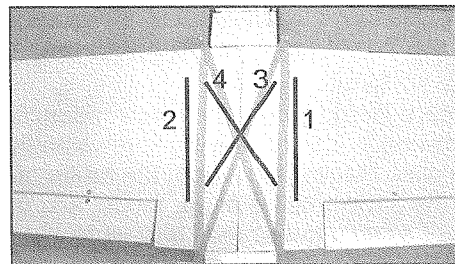
將轉接頭,機頭罩底座及螺旋槳依圖示依序裝入,並將螺旋槳確實鎖緊  
Assemble the spinner with propeller.



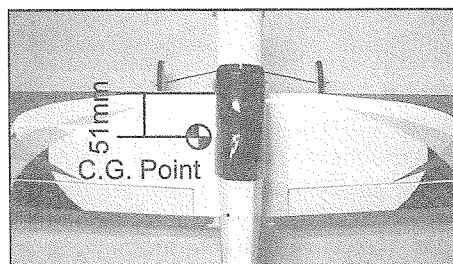
將機頭罩對正底座,用2x10螺絲鎖緊  
Assemble the spinner with spinner mount and secure it with 2x20 screws.



裝上螺旋槳機頭罩組,將內六角螺絲對準主軸確實鎖緊  
Assemble the spinner set with main shaft and secure it with hex screws.

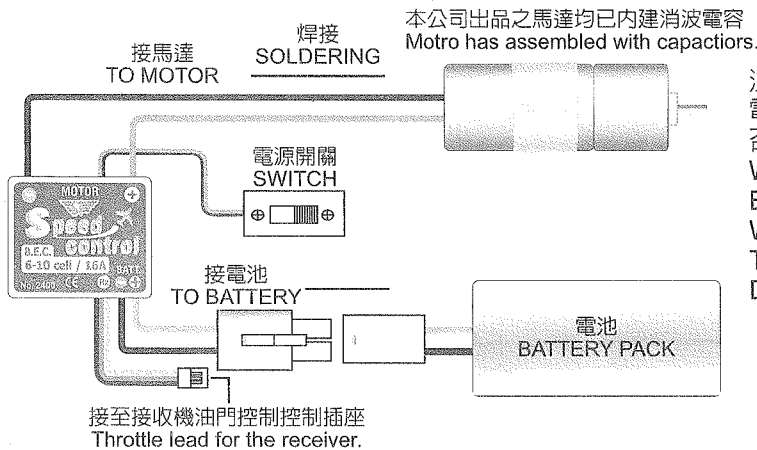


將兩支圓木棒分別貫穿機身兩側小孔,以少許Ab膠固定再依序用橡皮筋將主翼固定於機身  
Try to insert the dowels through the fuselage. When satisfy with the location, secure them by using AB glue. Fixing the main wing on the fuselage by rubber band.



建議重心位置在主翼中心由前緣往後算起約51mm的位置  
The suggesting location for battery by C.G. Point

## 電子變速器安裝 SPEED CONTROL INSTALLATION

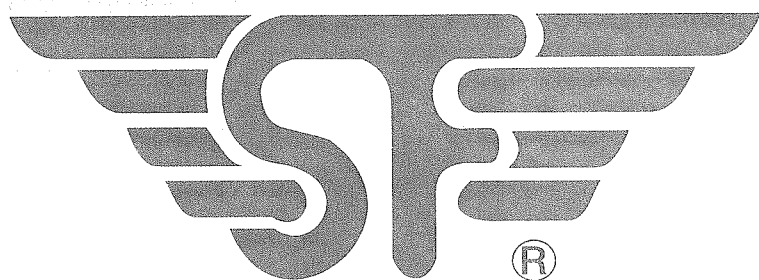


### 安裝說明:

- 1.組裝前請先確定馬達接頭未連接至電子變速器,並檢查電源開關位置已經關閉(OFF).
- 2.將電子變速器訊號線插頭接至接收機油門控制孔.
- 3.打開發射器電源,將油門撥桿撥至中立位置.如果使用微電腦型遙控器者,請調整油門ATV比例至100%.
- 4.將電池接上電子變速器,連接時請注意電壓極性是否正確,否則會造成電子變速器燒毀.
- 5.完成以上步驟後,打開電源開關.
- 6.電源開啓後,上下撥動發射機油門撥桿,電子變速器背面指示燈(L.E.D)變化如下:  
#指示燈慢速閃爍-----馬達停止運轉  
#指示燈快速閃爍---馬達中低速運轉  
#指示燈恆亮-----馬達高速運轉
- 7.具有PCM功能之遙控器,建議將失控安全模式設定至低速運轉.
- 8.拆除安裝時請先關閉電源,再拔除電源接頭,以策安全.

### INSTRUCTION:

- 1.ENSURE THE SPEED CONTROL SWITCH IS OFF AND THE ELECTRIC MOTOR IS NOT CONNECTED.
- 2.PLUG THE SPEED CONTROL THROTTLE LEAD INTO THE THROTTLE SERVO RECEPTACLE ON THE RECEIVER.
- 3.TURN ON THE TRANSMITTER AND PLACE THE THROTTLE CONTROL STICK IN THE CENTER POSITION. IF YOU USE A COMPUTER TRANSMITTER, ADJUST THE THROTTLE ATV TO 100%.
- 4.CONNECT THE BATTERY PACK TO THE SPEED CONTROL. NOTE THE POSITIVE AND NEGATIVE LEADS. ENSURE PROPER POLARITY WHEN MAKING THE CONNECTION. INCORRECT POLARITY WILL DAMAGE THE SPEED CONTROL.
- 5.TURN THE SWITCH ON.
- 6.WHEN THE POWER IS SWITCHED ON, THE LED ON THE BACK OF THE SPEED CONTROL WILL BE ILLUMINATED. MOVE THE THROTTLE CONTROL UP OR DOWN. THE LED WILL PROVIDE THE FOLLOWING INDICATIONS:  
#A SLOW FLASHING LED INDICATES THE MOTOR IS OFF.  
#A FAST FLASHING LED INDICATES THE MOTOR IS AT PARTIAL THROTTLE.  
#A FULLY ILLUMINATED LED INDICATES THE MOTOR IS AT FULL SPEED.
- 7.IF YOU USE A PCM TRANSMITTER , SET THE FAIL-SAFE MEMORY ON LOW SPEED.
- 8.TURN OFF ALL THE SWITCHES BEFORE CONNECTING THE MOTOR. AFTER CONNECTING THE MOTOR, TURN THE SWITCHES ON. THE THROTTLE WILL START FROM LOW SPEED.



SUPER FLYING MODEL

**MTH HOBBY PRODUCTS INDUSTRIAL CO., LTD.**

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