

Sea Fury

Assembly Manual 中文組裝說明書

1/7 SEA FURY ARF



No. 4576

Specifications:

Wing Span: 67 3/4" (1720mm)

Length: 60" (1525mm)

Weight: 5500g (12 lbs.)

Engine: .90 2C, 1.20 4C req'd

Radio: 5~8ch 6~8 servos req'd

Unlimited Pylon Racer

Warranty

This kit is guaranteed to be free from defects in material and workmanship at the date of purchase. It does not cover any damage caused by use or modification. The warranty does not extend beyond the product itself and is limited only to the original cost of the kit. By the act of building this user-assembled kit, the user accepts all resulting in liability for damage caused by the final product. If the buyer is not prepared to accept this liability, it can be returned new and unused to the place of purchase for a refund. Neither your dealer nor Thunder Tiger Distributors, can accept kits for return if construction has begun.

Notice: Adult Super Vision Required

This is not a toy. Assembly and flying of this product requires adult super vision. Read through this book completely and become familiar with the assembly and flight of this airplane. Inspect all parts for completeness and damage. flyou encounter any prob lems, call us for help.

產品保證

此套件在購買時保證無任何零件及工藝上的瑕疵，但不包括使用者於組裝、改裝及使用時所造成的損壞。此保證的範圍亦僅限於產品本身。如果購買者無法接受這種在組裝過程中，可能發生的損壞情況，可以將完整未拆封的產品，至原購買地點辦理退貨。如果產品已經拆裝，開始進行組裝，則銷售產品的經銷商及雷虎公司，均不接受辦理退貨。

本產品適用年齡16歲以上，未達此年齡須在成人陪同下操作。

Congratulations on the purchase of one of our finest ARFs to date. This famous Sea Fury was the first Royal Navy aircraft, which shot down a Mig 15 in air-to-air combat. Sea Fury was born of a time when jets were gaining favor, yet still had sufficient performance to be effective. Experience this detailed replica piston engine fighter of GB Royal Navy, the Sea Fury.

PRE-ASSEMBLY NOTES

The Sea Fury is designed for **advanced pilots and it requires advanced assembling and flying skill**. Before you begin, check the entire contents of your kit against the parts drawing and photos to make sure that no parts are missing or damaged. This will also help you to become familiar with each component of your plane. If you find that any of the parts are either missing or damaged, please contact Thunder Tiger Distributors for Customer Service.

Before beginning the assembly read the instructions thoroughly to give an understanding of the sequence of steps and a general awareness of the recommended assembly procedures.

Trial fit each part before gluing it in place. Make sure you are using the correct part and that it fits well before assembling. No amount of glue can make up for a poor-fitting part. Always apply Loctite (not furnished) to all screws and nuts to prevent them from loosening.

注意：

遙控模型飛機不是玩具、它具備一定程度的危險性！使用不當可能發生嚴重傷害、火災等事故。

請使用前詳細閱讀說明書中各項說明，並請遵守各地相關遙控模型飛機施放管制相關條例！本產品適用範圍為具備高級組裝技術、以及中上飛行技巧消費者，如您目前尚不具以上條件建議您委請他人代為組裝以及飛行調適。

組裝前請詳細檢查零件是否損壞或缺件，如有問題請與雷虎經銷商聯繫。

試著組裝以確認零件是否吻合然後再進行接著劑之黏合。

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RECOMMENDED TOOLS & MATERIALS

必備的工具及配件

Adhesives:

Instant setting Cyanoacrylate adhesive (thin CA)
Slow setting Cyanoacrylate adhesive (thick CA)
5-10 Minute Epoxy (fast)
20-30 Minute Epoxy (slow)

Tools:

Model knife, T-Pins, MASK tape
Small screwdrivers, medium screwdrivers
Scissors
Steel straight edge
Long nose pliers and diagonal cutting pliers
Drill and drill bits (1/16", 3/32", 3.4mm)
M4x0.7 Tap
Sanding block
Fine felt tip pen and soft lead pencil
Straight building board

R/C System:

6 Channel radio with 7 servos plus one retract servo
Five 12" extension wires.
one Y cords

Engine:

2 cycle: 91~1.08
4 cycle: 1.2~1.5

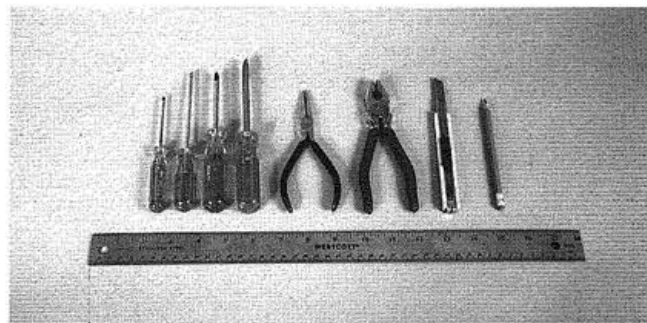
Propeller:

Appropriate for engine type and preferred performance



Adhesives - You will need two types of adhesives for the Sea Fury - Epoxy and Instant (cyanoacrylate) adhesives. We recommend that you purchase both 5-minute and 30-minute epoxy to cut down on assembly time, but you can get by with only 30-minute epoxy if time is not important. You will also need a small bottle of both "Thick" and "Thin" instant CA adhesive.

準備快速及慢速還氣樹脂瞬間接著劑(快幹及慢幹)。



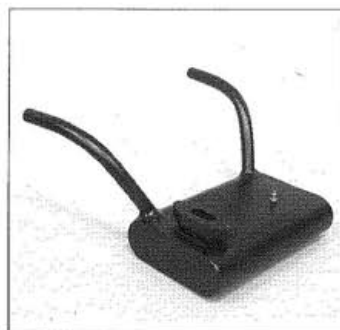
Tools - Model assembly can be much easier if the proper tools are used. Therefore, we have included in our checklist to the left, a complete listing of all the tools we used to assemble our prototype models. As you will notice, many household tools can be utilized during construction.

以上為組裝的必備工具。



Engine-The Thunder Tiger PRO-91 is the ideal engine for this airplane. This quiet-running engine is easy to start, requires no special break-in periods, easy to maintain and will last for years.

建議使用雷虎PRO-91引擎。



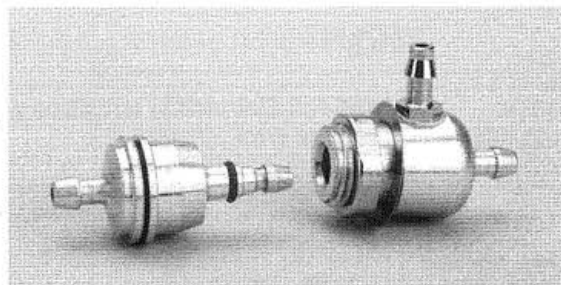
Muffler (P/N TTR9791)

Most Pitts style mufflers will fit this Sea Fury. However, we recommend the use of Thunder Tiger custom - made Sea Fury muffler with two exhaust pipes that divert the smoke in to the two concavities of the fuselage to obtain a more scale-like appearance. This muffler fits TT and OS. 60~.90 engines.

建議使用特制消音器PRO-91搭配。

ITEMS YOU MAY NEED

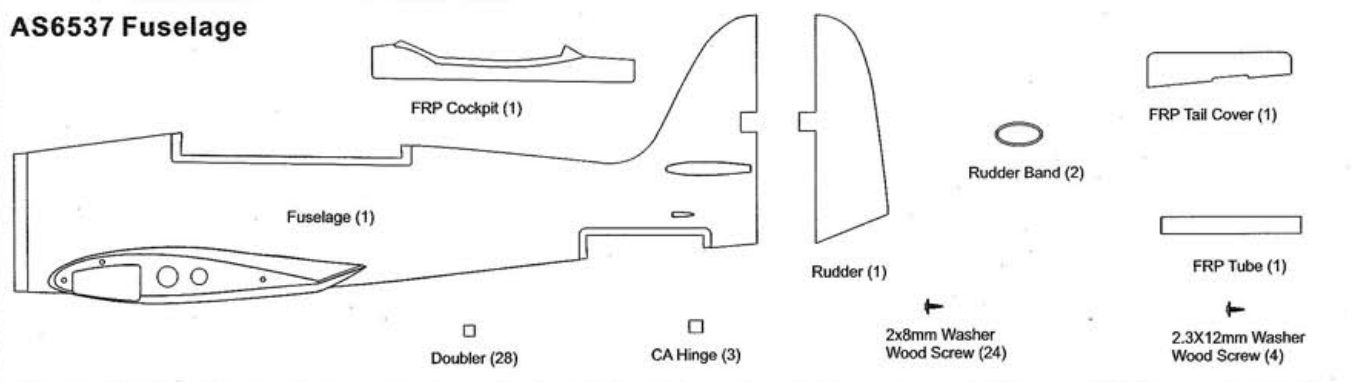
選配零件。



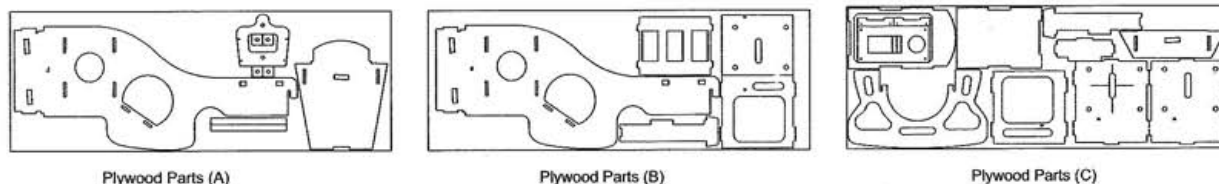
TTR1115 - Precision Fueler Valve

建議使用快速加油器。

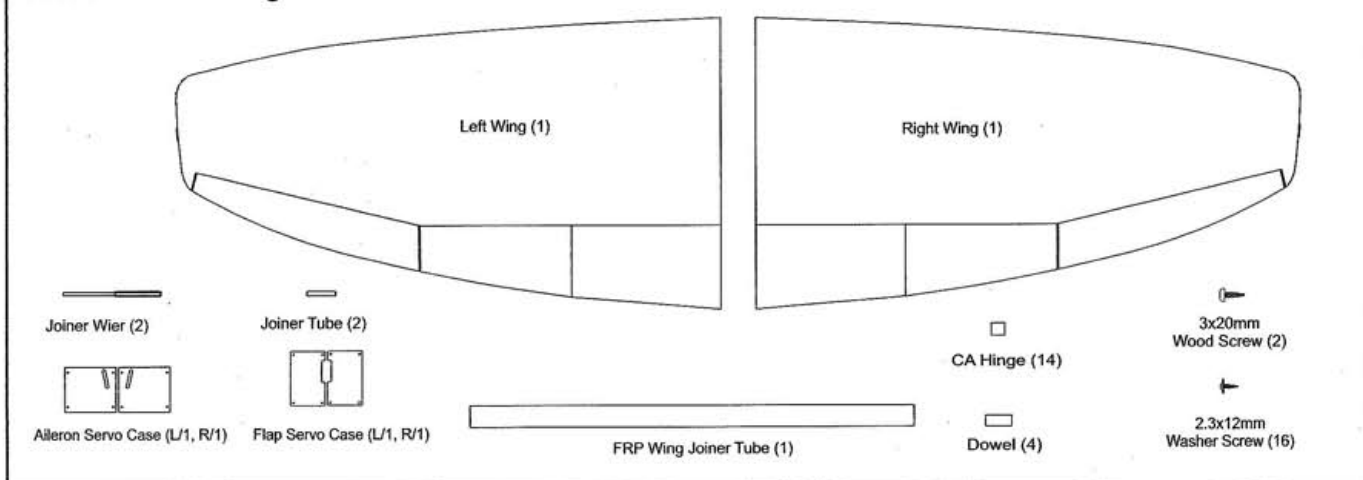
AS6537 Fuselage



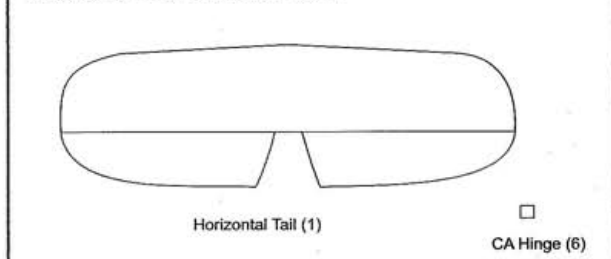
AS6538 Plywood Parts



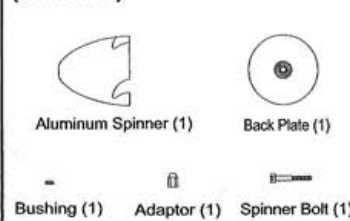
AS6539 Main Wing



AS6540 Horizontal Tail

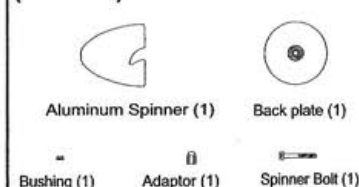


No.3291 Aluminum Spinner (3-Blade)



OPTIONAL PARTS

No. 3290 Aluminum Spinner (2-blade)



No.3019 Captain Eddy



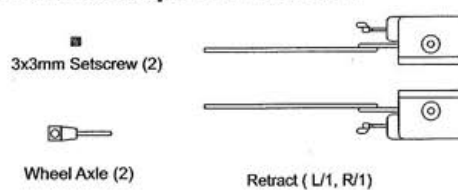
Captain Eddy (1)

AS6425 Elevator Torque Wire

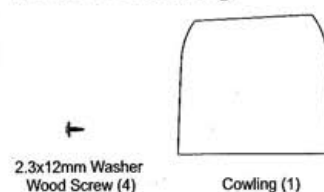


Torque Wire (1)

No.3009 Superlite Retract



AS6541 Cowling



No. 3299 Wheel



Wheel (2)

AS6542 Canopy



Canopy (1)



2x5mm Wood Screw (4)

No.3265 Fuel Tank



Silicone Tube (1)



Crank Weight (1)



Straight Nipple (1)



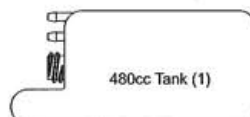
Fuel Stopper (1)



90-degree Nipple (1)



Cap (1)



480cc Tank (1)

AS6435 Pushrods



Throttle Pushrod (1)



Retract Pushrod (2)



Flap Pushrod (2)



Clevis (4)



M2 Nut (4)



Aileron Pushrod (2)

AS6441 Control Horn



Control Horn (S/4)



Back Plate (4)



Control Horn (L/2)



M2 Nut (2)



2x30mm Machine Screw (2)



2x22mm Machine Screw (4)



2x15mm Machine Screw (4)

PE0009 EZ Connector



1.5mm Hex Wrench (1)



3x3mm Setscrew (1)



M2 Nut (1)



EZ Connector (1)



M2 Washer (1)

No. 3012 Anti-Vibration Engine Mount



Mounting Beams (2)



4mm Hex Wrench (1)



Rubber (8)



T Washer (8)



Blind Nut (4)



6/32 x 20mm Socket Cap Screw (4)



4x 20mm Socket Cap Screw (4)



5x40mm Socket Cap Screw (4)

AS6434 Pull-Pull System



Brass Tube (8)



Clevis (4)



Threaded End (4)



M2 Nut (4)



Z-Bend End (2)



Wire (3.6M/1)

AS6438 Scale Tail Gear



4x10mm Sink Head Screw (2)



Tail Wheel (1)



2.6x26mm Sink Head Screw (1)



3x5mm Setscrew (1)



Tail Wheel Fork (1)



Steering Horn (1)



Wheel Spacer (1)



Blind Nut(2)

AS6543 Elevator Linkage Set



Elevator Wood Pushrod (1)



Pushrod End Retainer (1)



Clevis (2)



M2 Nut (2)



Threaded Pushrod (2)

AS6544 Decal



Decal A (6)



Decal B (1)

AS6545 Retract Decoration



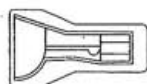
Wheel Door (L/1, R/1)



Upper Retainer A (2)

2.6x5mm Wood Screw (2)

2x5mm Wood Screw (4)



Wheel Well (L/1, R/1)



Upper Retainer B (2)



Lower Retainer (2)

AS6546 Decoration Set



Radiator Inlet (1)



Feed Blister (2)

AS6440 Hardware Set



Collar (2)



3x3mm Setscrew (2)



2x8mm Machine Screw (2)



3x16mm Sink Head Screw (8)



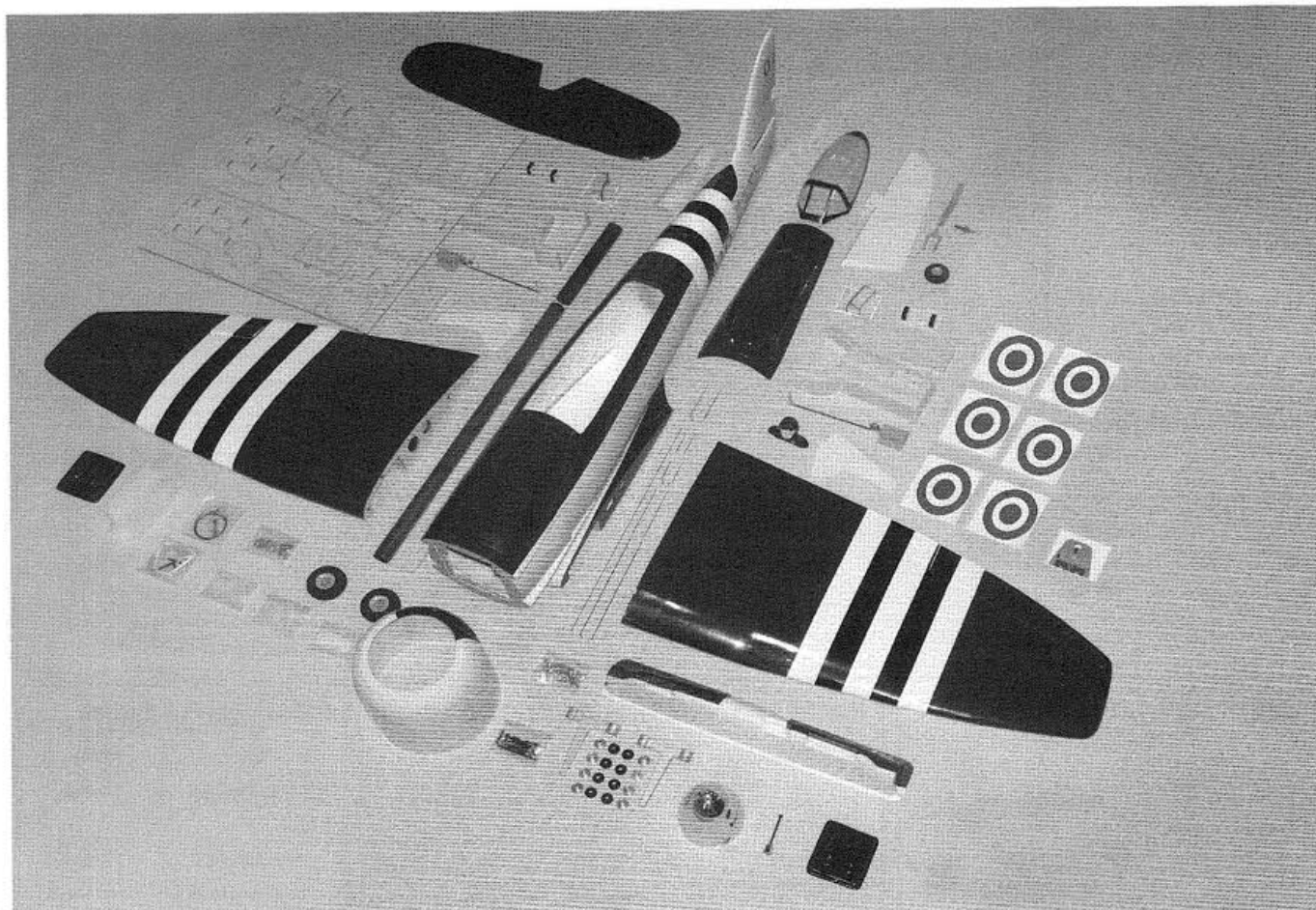
M2 Nut (2)



Ball End (2)



Ball (2)



Kit Contents:

FRP Fuselage (1)
FRP Cockpit (1)
FRP Tail Cover (1)
FRP Cowling (1)
FRP Wing Joiner Tube (L/1)
FRP Tube (S/1)
Left Wing (1)
Right Wing (1)
Rudder (1)
Horizontal Tail (1)
Elevator (L/1, R/1)
Aileron Servo Case (L/1, R/1)
Flap Servo Case (L/1, R/1)
Plywood Parts(A)
Plywood Parts(B)
Plywood Parts(C)
Doubler(28)
Dowel (4)
Radiator Inlet (1)
Feed Blister(2)

Al. Spinner (3-blade, 1)
Backplate (1)
Bushing (1)
Adaptor (1)
Spinner Bolt (1)

Engine Mounting Beam (2)
T Washer (8)
Rubber (8)
Blind Nut (4)
Socket Cap Screw 5mm x 40 (4)
Hex Wrench 4mm (1)
Hex Wrench 1.5mm (1)
Socket Cap Screw 6/32 x 20mm (4)
Socket Cap Screw 4x20mm (4)

Retract (L/1, R/1)
Wheel Axle (2)
Wheel (2)

Torque Wire (1)
M2 Nut (15)
Clevis (10)
Collar (2)
Ball End (2)
Ball (2)

Joiner Wire (2)
Joiner Tube (2)
Rubber Band (2)
CA Hinge(23)
2x5mm Wood Screw(8)
2.6x 5mm Wood Screw (2)
2x8mm Washer Wood Screw(24)
2.3x12mm Washer Wood Screw (24)
3x20mm Wood Screw (2)
2x8mm Machine Screw (2)
2x15mm Machine Screw (4)
2x22mm Machine Screw (4)
2 x30mm Machine Screw (2)
3x16mm Sink Head Screw (8)
4x20mm Sink Head Screw (2)
3x3mm Setscrew (5)
EZ Connector(1)
M2Washer(1)

Canopy (1)
Wheel Door (L/1, R/1)
Wheel Well (L/1, R/1)
Upper Retainer A (2)
Upper Retainer B (2)
Lower Retainer (2)

Brass Tube (8)
Straight Threaded End (4)
Z Bend Threaded End (2)
Wire (2)

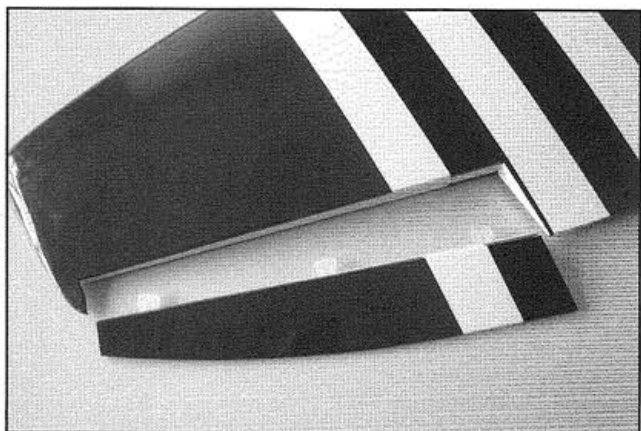
Elevator Wood Push Rod (1)
Elevator Pushrod Retainer (1)
Thread Pushrod(2)
Control Horn (L/2)
Control Horn (S/4)
Backplate (S/4)

Throttle Pushrod (1)
Retract Pushrod (2)
Flap Pushrod (2)
Aileron Pushrod (2)

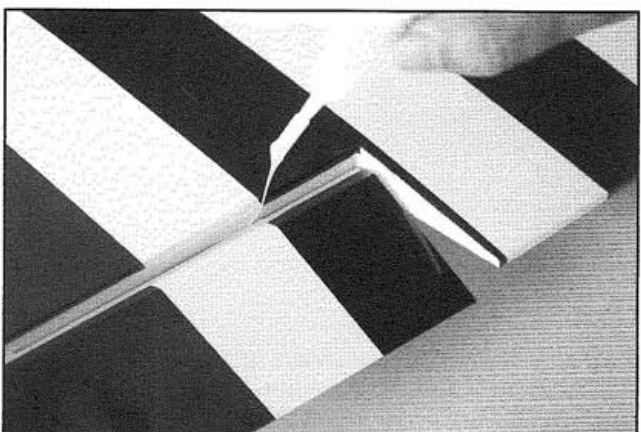
Tank (1)
Silicone Tube (1)
Straight Nipple (1)
90-degree Nipple (1)
Crank Weight (1)
Fuel Stopper (1)
Fuel Cap (1)

Tail Gear (1)
Tail Wheel Fork (1)
Wheel Spacer (1)
Steering Horn (1)
3x5mm Set Screw (1)
Tail Wheel (1)
Blind Nut (2)
2.6X26mm Sink Head Screw (1)

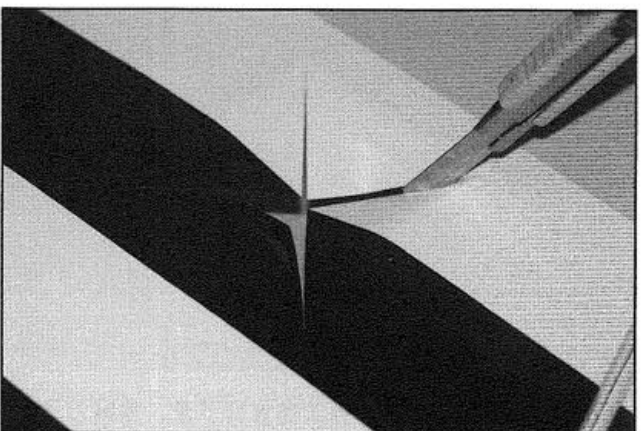
Decal A (6)
Decal B (1)
Pilot (1)



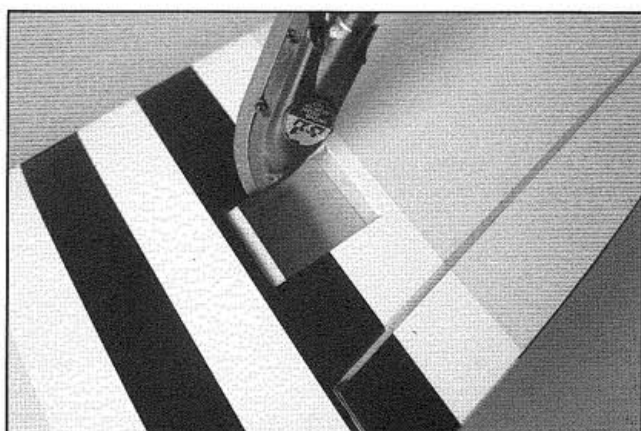
1. Glue the CA hinges in aileron first.
首先將紙活頁裝入副翼裡。



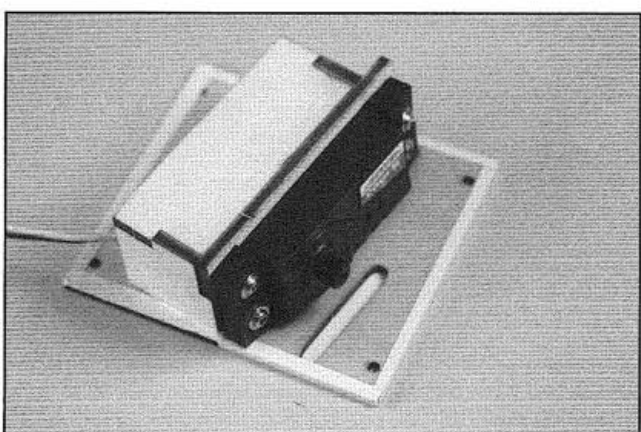
2. Next attach the aileron in place then apply CA on both sides. Make sure aileron is firmly glued.
安裝副翼至主翼上使用瞬間膠水粘合紙活頁、使它產生鉸鍊的作用。須確認粘合牢靠。



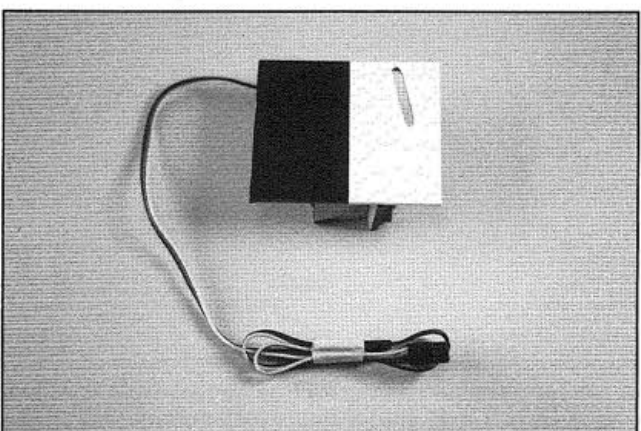
3. Locate the aileron servo well then use a hobby knife to cut an "X".
使用銳利的刀具切開副翼伺服機的安裝孔、開口形狀X。



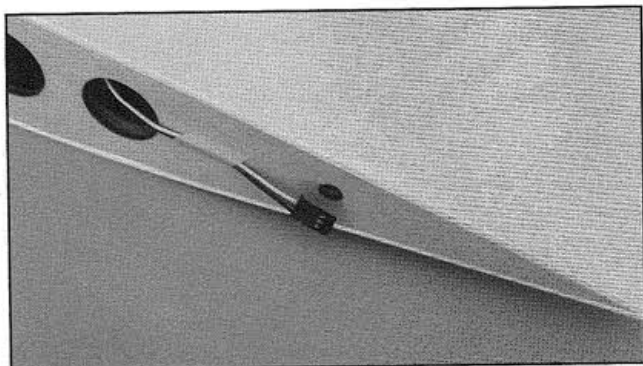
4. Using a sealing iron to tack down the covering inside the servo well. Trim the excess covering away.
使用專用熨斗將包覆紙燙粘到開口內，多餘的部分切除。



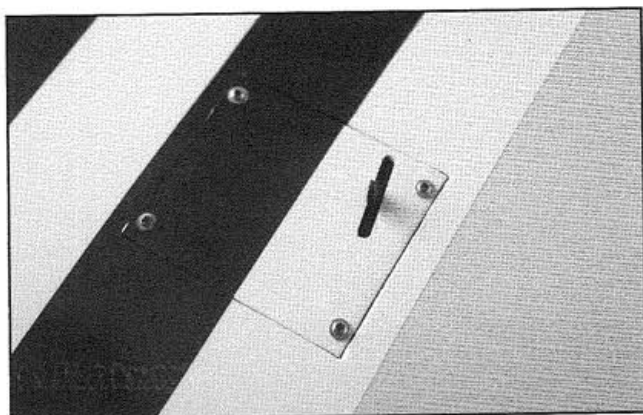
5. Locate the left wing servo case / hatch cover; secure the aileron servo as shown.
左翼伺服機盒/艙口蓋結合示意圖。



6. Connect an extension wire for Aileron servo, heat-shrink or tape the connectors to prevent from loosening.
連接延長線並使用膠帶固定連接處防止脫離。

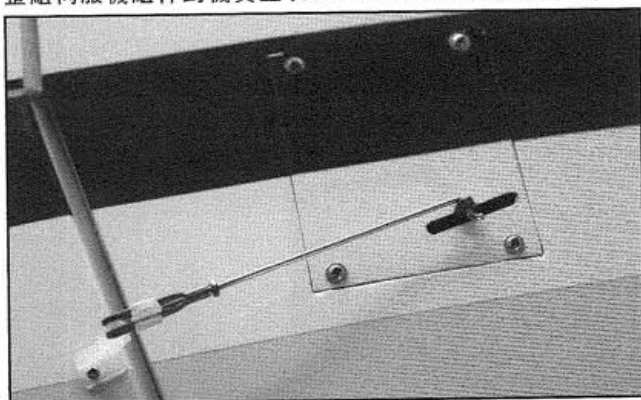


7. Use Throttle Pushrod to guide the wire through the wing panels. Fix the wire with mask tape to prevent from falling back into wing pannel.
使用引擎油門推桿引導伺服機電線通過翼肋並以膠帶固定於翼根上防止掉入機翼內。



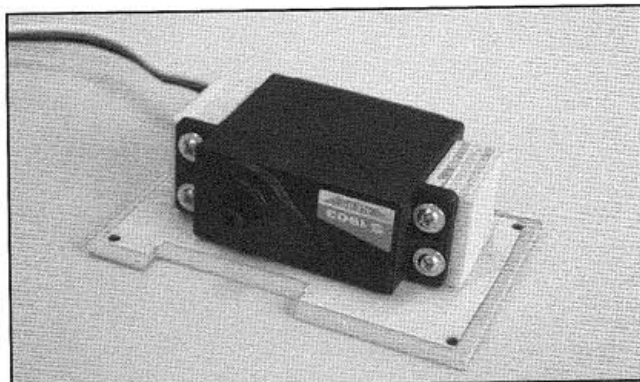
8. Link aileron servos wires to CH1 on receiver. Make sure the direction is correct. Set the servo horn in the neutral then secure the servo horn screw next secure the servo case in place with four 2.3x12mm washer wood screws.

副翼伺服機電線請接CH1(Aileron)在接收器上並確定方向是正確的。固定伺服擺臂於中立點然後以螺絲固定。安裝整組伺服機組件到機翼上以2.3x12mm 墊片木螺絲固定。

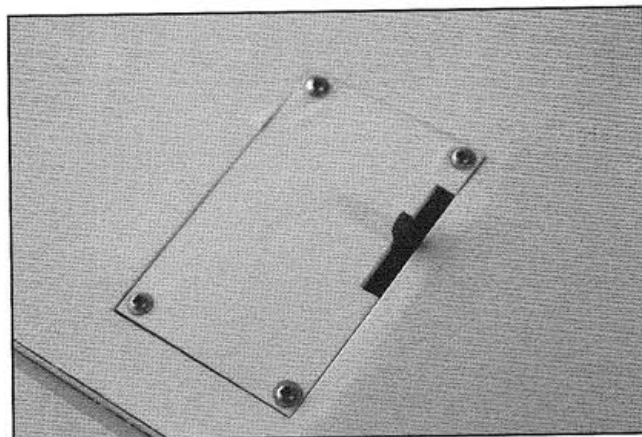


9. Please note that the aileron is thick; carefully drill the (5/64")2mm holes and make sure the back plate is flush with the hinge line at the other side of aileron. Secure the control horn in place with 2x22 machine screws. Trim away the excess screw from the backplate. Install the pushrod with metal clevis, M2 nut and thread on a piece of silicone tube as shown.

鑽2mm(5/64")孔並確定固定片與副翼前緣切齊。副翼厚度大，注意鑽孔時防止偏斜。並以2x22mm機械螺絲固定之。安裝推桿及金屬連桿頭並以M2螺帽及硅膠環防止脫落。

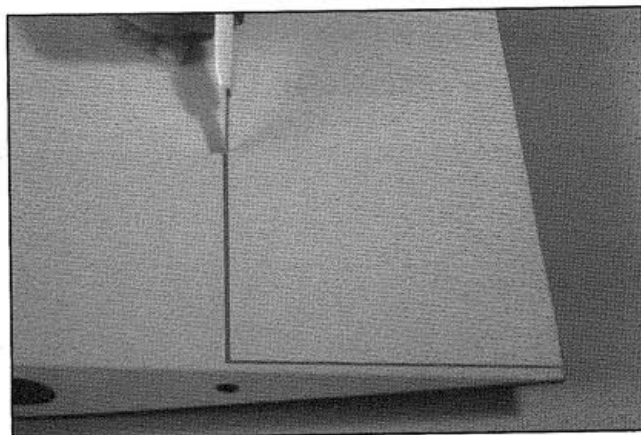


10. If you would use Flap function then proceed the following steps. If not then skip to step 24. Do the same procedure for Flap Servo Case. (Left Flap Servo Case shown) and thread the wire through the wing panel and tape the wire end on wing root.
襟翼伺服機組裝方式同副翼。如不安裝襟翼則跳至步驟24。



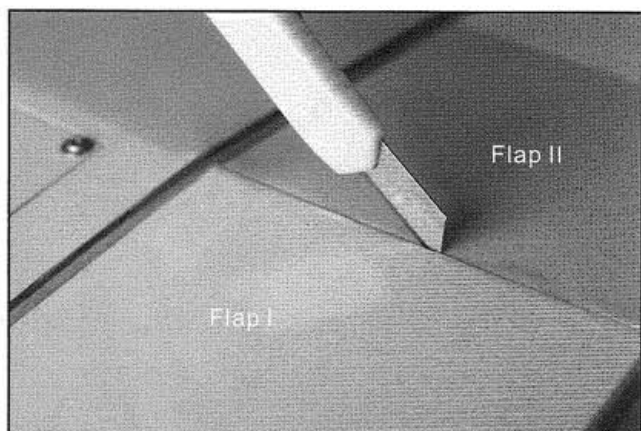
11. Temporally secure the Flap Servo Case in place with 2.3x12mm Washer Wood Screws.

以2.3x12mm墊片木螺絲固定伺服機座(絲孔建議點一些瞬間膠水)。

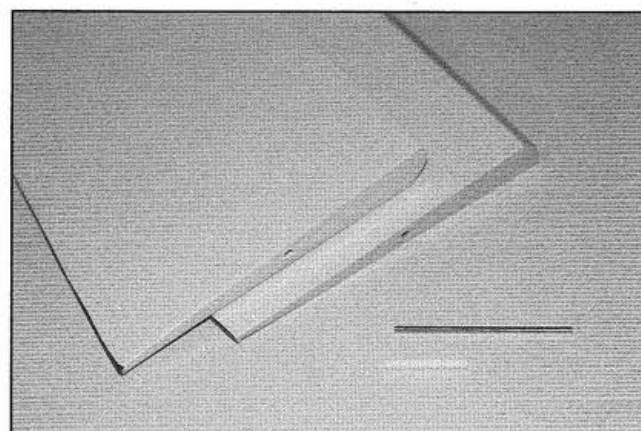


12. Carefully cut away covering. The knife may lean against the flap then carefully cut along with the flap leading edge.

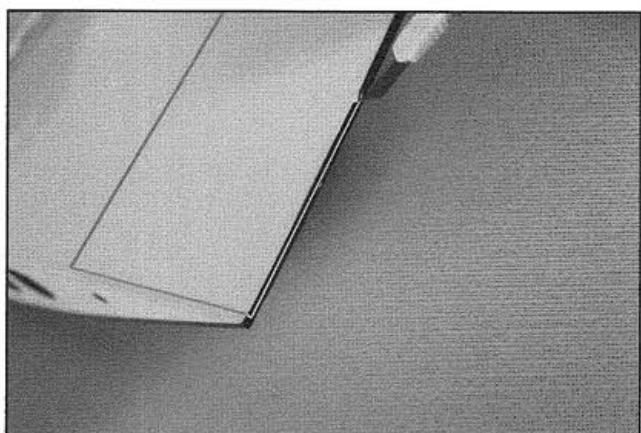
小心使用銳利的刀具將開縫式襟翼切下來。建議刀子些許傾斜沿著襟翼前緣仔細切割。



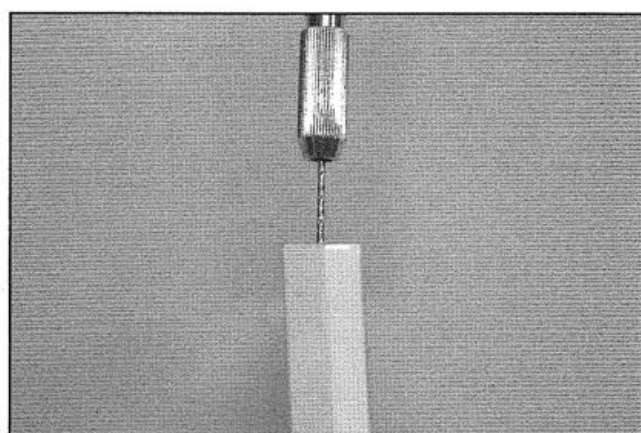
13. Next cut away the covering between Flap I and Flap II.
開縫式襟翼分內外側兩片、請小心切開。



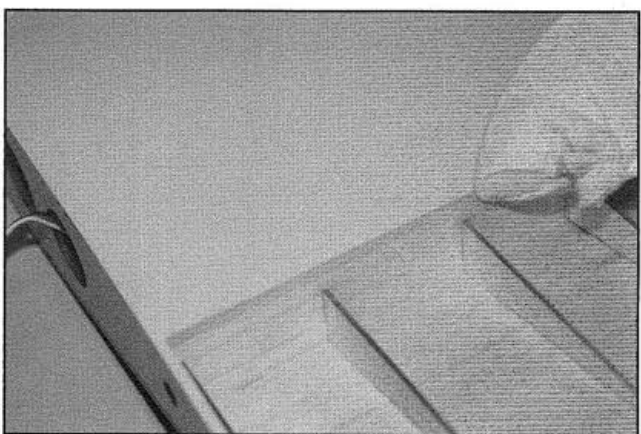
16. Locate the joiner wire and guide tube. Make mark at the center of the joiner side of the Flap I and Flap II.
設置運動鋼絲以及導管。在內、外側襟翼的中間做記號。



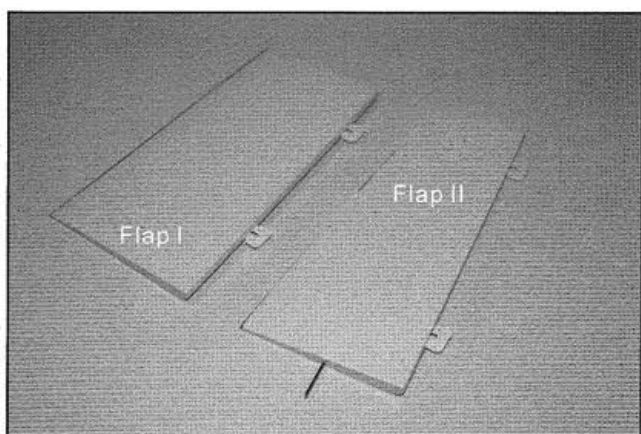
14. Carefully cut away the flap from trailing edge.
小心切開襟翼的後緣。



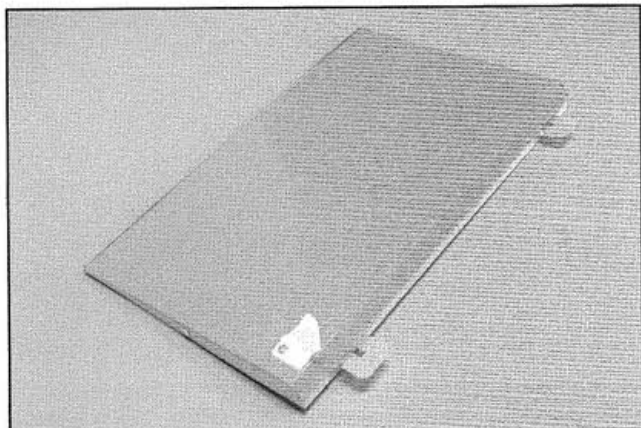
17. Carefully drilling the joiner side at mark. Note that it is angle at the joiner side please drill the hole perpendicular to the surface. Drill 2.5mm hole on Flap I and 2mm hole on Flap II.
注意正確的鑽孔角度須與鑽孔断面垂直。內側襟翼鑽2.5mm的孔，外側襟翼鑽2mm的孔。



15. Iron the covering at the trailing edge.
使用專用熨斗將多餘的包覆紙貼在後緣。

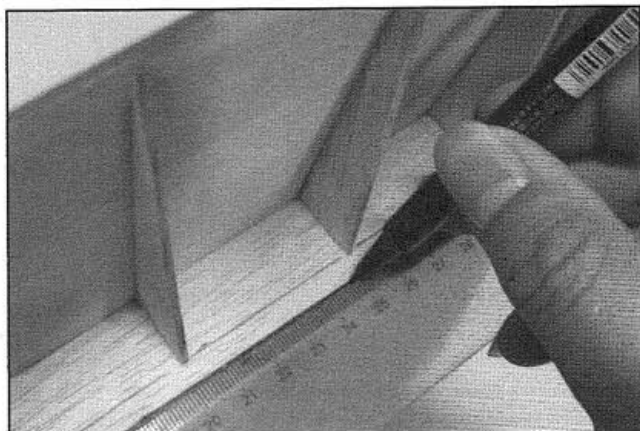


18. Insert guide tube in Flap I and light apply CA glue. Glue threaded end of joiner wire in Flap II, also apply a drop of CA glue. Cut two hinge slots and glue CA hinges in place.
將控制鋼絲插入內側襟翼、使用瞬間膠粘合。控制鋼絲裝在外側襟翼、使用瞬間膠粘合。切出兩個襟翼的活頁孔安裝紙活頁片。



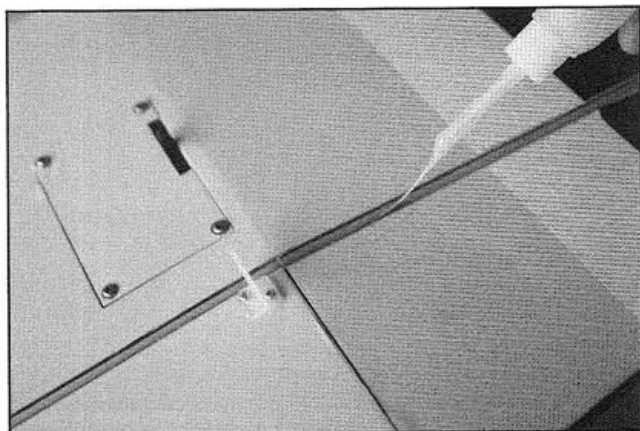
19. Secure control horn on Flap I with 2x15mm machine screw. Note the control horn should be away from the edge at least 8mm. The 8mm is to clear the rib located at the center of both flaps.

安裝舵角片在襟翼上以2x15mm 機械螺絲固定。注意舵角片離邊緣至少8mm。



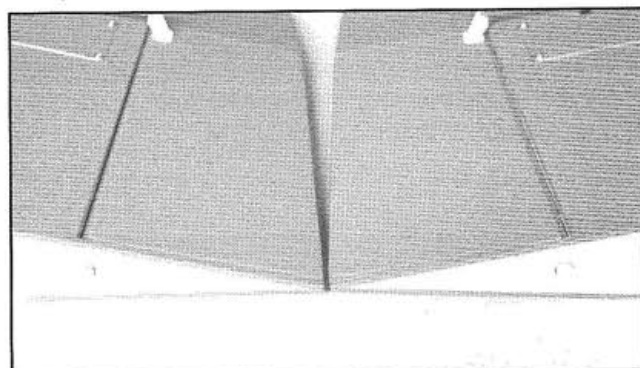
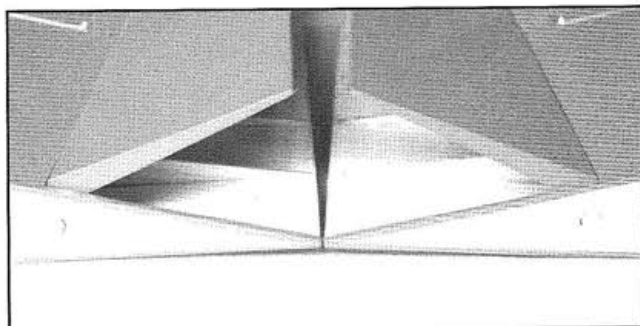
20. Leave 0.5mm clearance between ribs and flap then draw the hinge line. Next cut hinge slots to accommodate the hinges on flaps.

在襟翼與翼肋保留0.5mm之空間，畫出活頁線並依據襟翼上的活頁位置開出活頁槽孔。



21. Join two flaps then insert them to the wing in place. Make sure there is no contact with each other then apply CA at the hinge area. Move the flap again and make sure it works smoothly.

將內外襟翼結合並將活頁插入於主翼上，確定襟翼作動無干涉後以瞬間接著劑膠合。

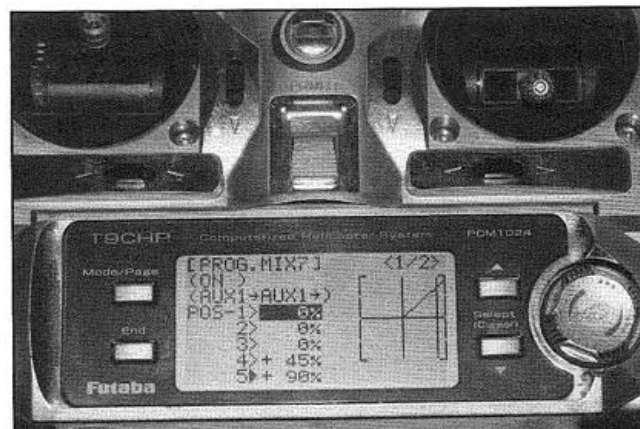


22. Repeat the same procedure on the right wing. Link two aileron servo wires with Y cord and plug to CH1 on receiver. Plug the left flap to Ch6 and right flap to Ch7. Refer to your radio manual and set up Flap.

重複同樣組裝動作於右襟翼上，將左襟翼插接於CH6右襟翼插接於CH7參考遙控器說明書設定襟翼動作。

Here is the set up procedure if using FF9 :

以下為Futaba FF9 之參考設定



1.Reset first.

2.Flapp ATV 140% 140%

3.AUX1 ATV 140% 140%

4.Airbrake on Flap 100%

5.PMIX7 AUX1-AUX1

Position 1: 0%

Position 2: 0%

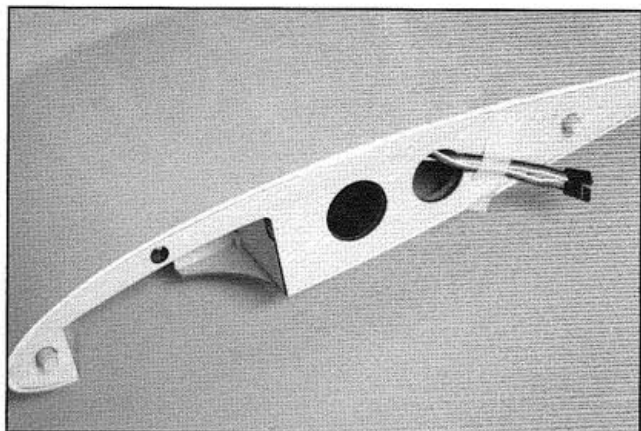
Position 3: 0%

Position 4: 45%

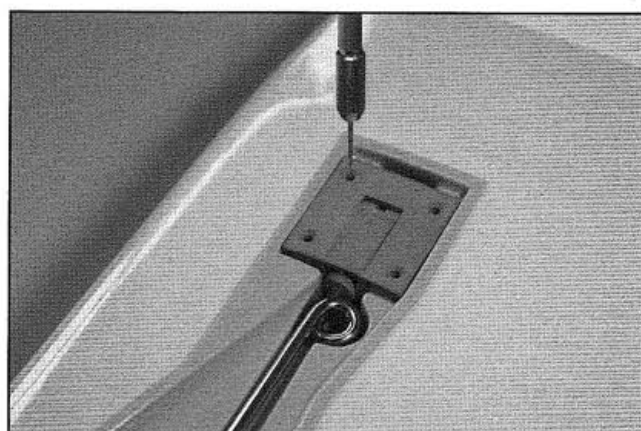
Position 5: 90%

6.Trim the two flaps at same throws by adjusting the trim knob and pushrod if necessary.

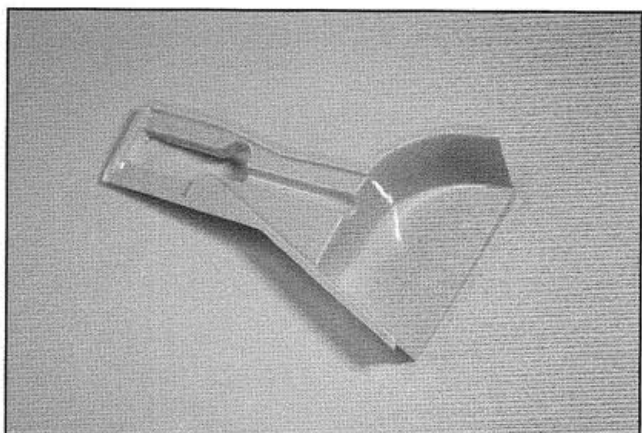
於設定後以旋紐適度調整為相同動量。



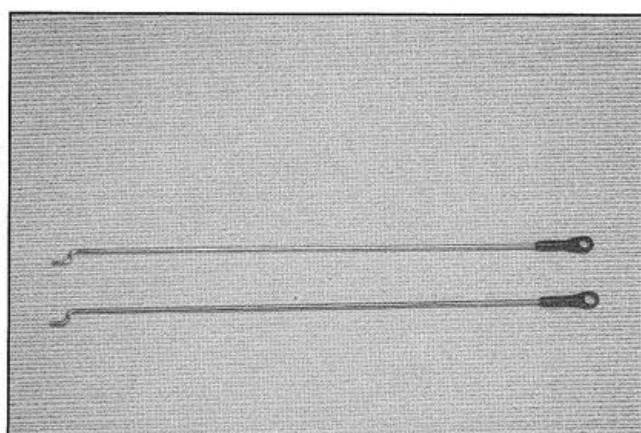
23. Epoxy the dowels at wing root in place as shown.
膠合固定銷於主翼上。



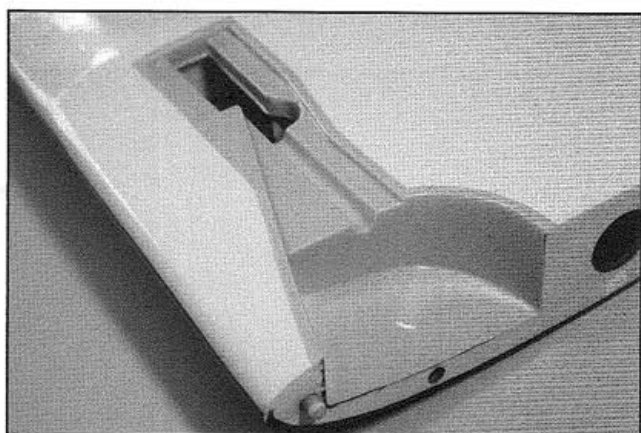
26. Place the retract in place and drill 5/64"(2mm) holes on the retract mount.
將輪架定位於輪架座上鑽以2mm固定孔。



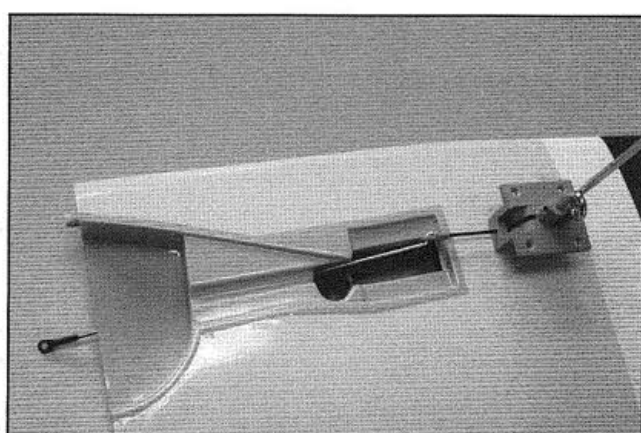
24. Locate the plastic retract well; trim along the molded line.
將輪架真空罩修剪如圖。



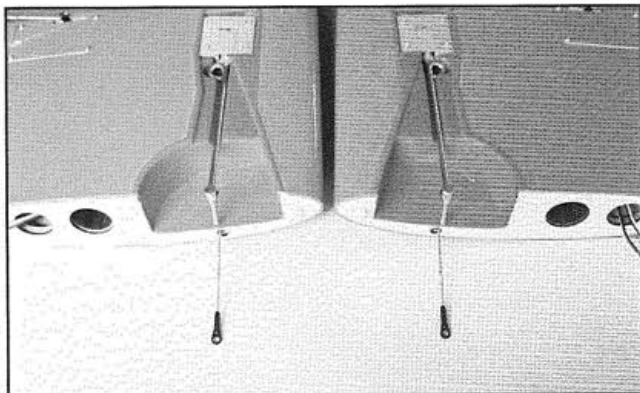
27. Locate the retract pushrod and ball end, thread the ball end as shown. The Z-bent end to the center of the ball end is about 218mm.
組裝輪架推桿如圖示,長度約為218mm。



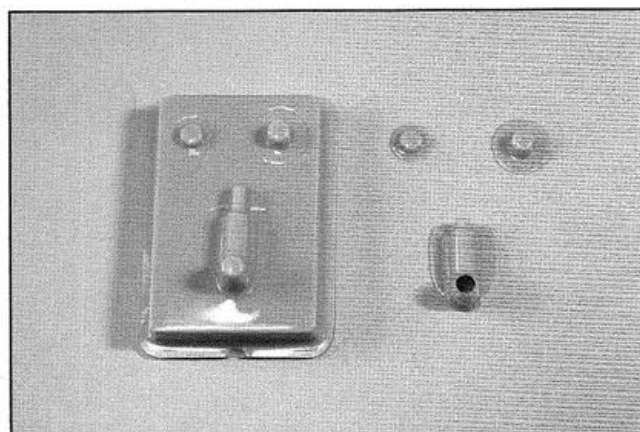
25. CA the retract well in place, trim the excess plastic so it is level with the wing root.
以瞬間接著劑將輪架真空罩固定於主翼上,並與翼根修齊。



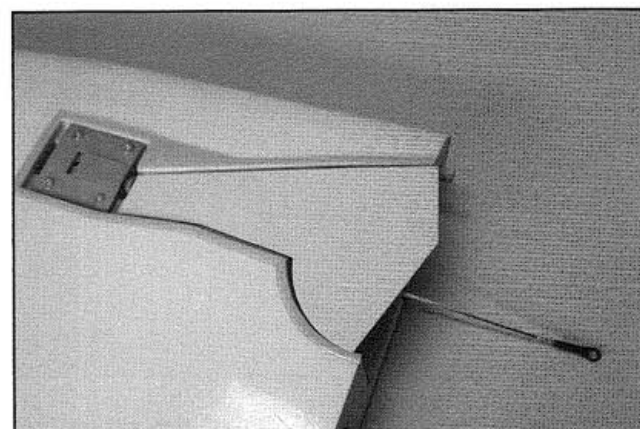
28. Insert the pushrod from wing root then connect to retract. Note: The ball end with "Tiger" side should face upside of wing.
將推桿自翼根插入自輪座探出並與腳架連接頭連接。注意連接頭上"Tiger"字樣朝向上翼面。



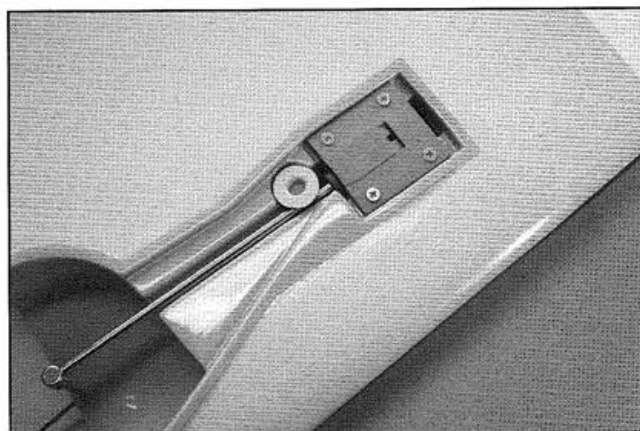
29. You may need to trim the wires of retract so the wheel axle is level to the wing root. Secure the retract in place with four 3x15mm Sink Head Screws. Flats should be ground on the landing gear legs for the setscrew to prevent the wheel axle from rotating under load.
先切除多餘的起落架鋼絲，長度與翼根切齊，然後使用3x15mm的沉頭木螺絲固定起落架。輪軸與起落架固定的地方必須磨一個平槽以有效固定輪軸。



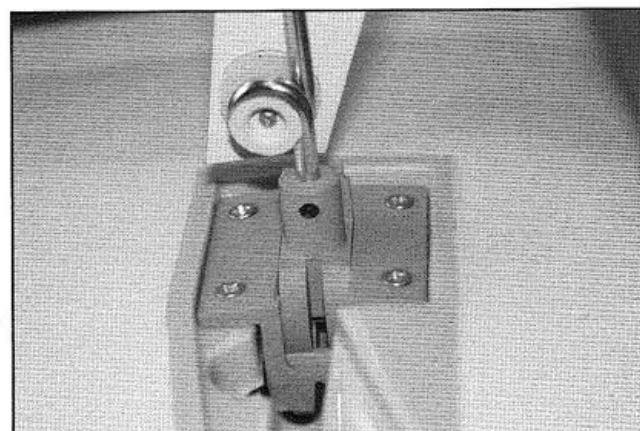
30. Locate and trim the wheel door retainers as shown.
剪下輪艙蓋固定組件如圖。



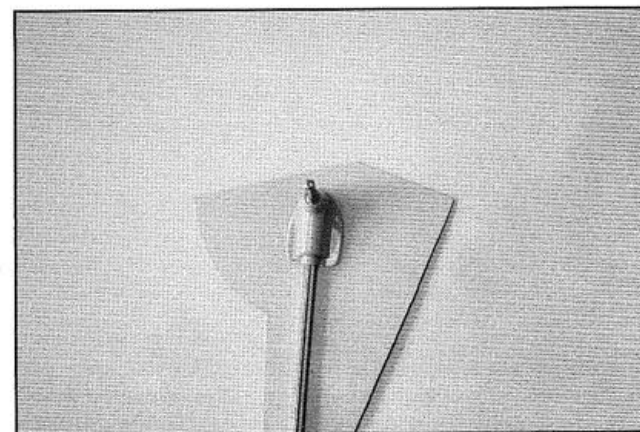
31. Trim the retract door to fit the retract well.
修整輪艙蓋並確認與輪艙搭配完美。



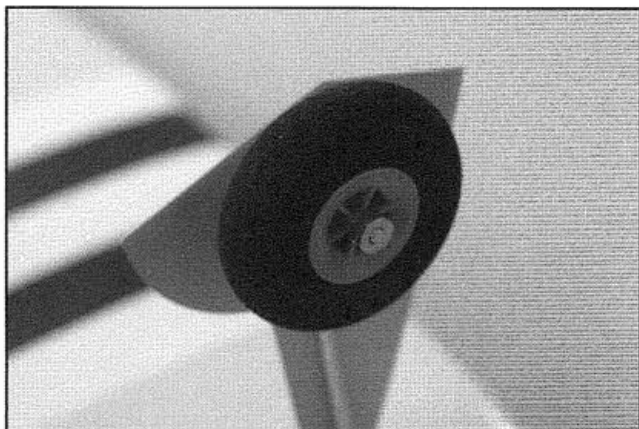
32. Sand the upper retainer B and place it in the strut coil then apply CA on retainer. Next place the wheel door in place, the retainer will be glued on wheel door precisely.
在腳架收起的狀態下將輪艙蓋固定件B置與緩衝環上，使用瞬間接著劑於固定件B，然後將輪艙蓋置於其上使其固定於與輪艙蓋。



33. Secure the retract door with the retainers (A, B) at the strut coil with 2.6x5 mm wood screw.
拉起起落架裝置輪艙蓋，並以2.6x5mm木螺絲固定輪艙蓋固定件A與B。

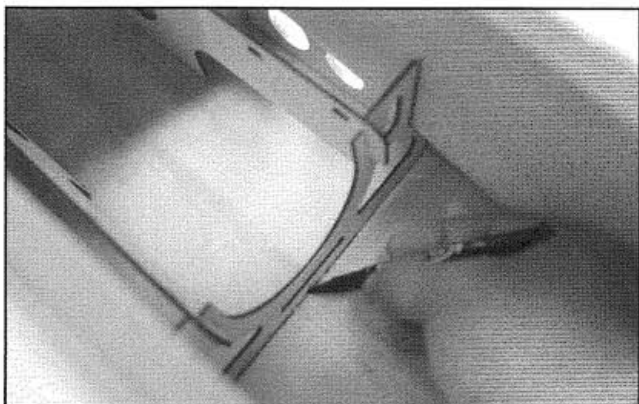


34. Secure the lower retainer on wheel door with two 2x5mm wood screws.
輪艙蓋的底部如圖示，使用2x5mm木螺絲固定輪軸固定件與輪艙蓋。



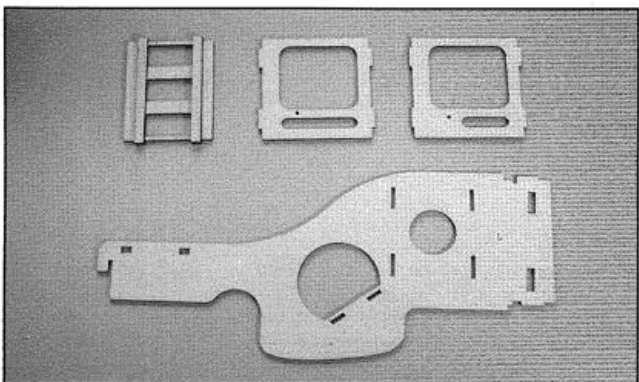
35. Install the wheel and secure collar with 3x3mm set screw. Make sure wheel rotates freely.

安裝輪胎并用輪擋及3X3mm的無頭內六角螺絲固定。



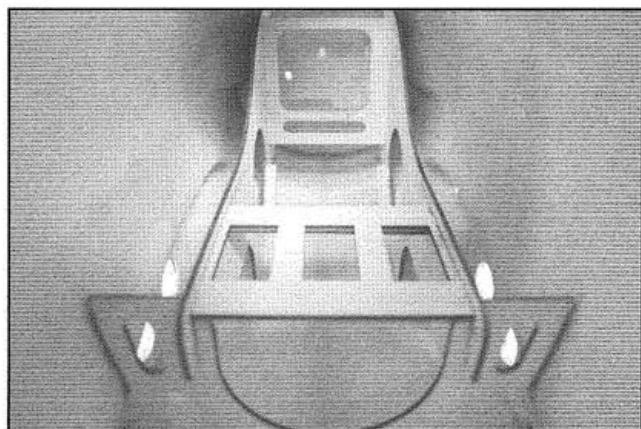
36. Locate the two side frames and rear bulkhead. Trail fit in the fuselage. Make sure the side frame insert to the front bulkhead properly. Make mark on fuselage. Remove all wood parts then use 200 grit sandpaper to sand where you marked. Epoxy the rear bulkhead in place.

將機體內兩側的框版以及後隔板組裝之後裝入機體，必須確認兩側框板已插入機身前隔板預留的位置。以油性筆標示記號在機體上。拆除框架後使用200號的砂紙研磨您剛剛標記的地方。後隔板先使用環氧樹脂固定到機身上。



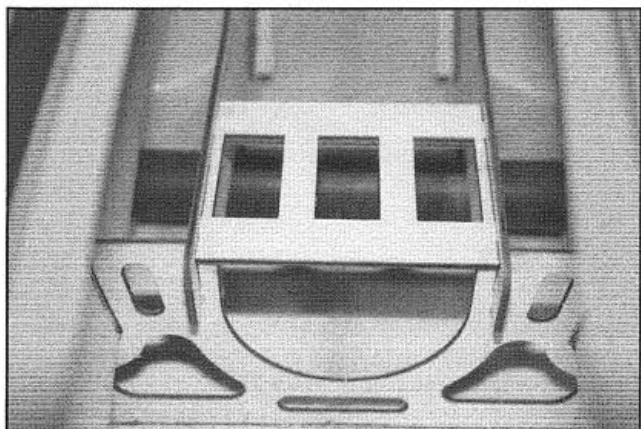
37. Locate servo trays and servo tray doubler then glue the doubler in place. There are two fuel tank frames. Make sure the shorter slot is in the front and longer slot is in the rear.

伺服機座補強條必須先粘上去，注意油箱框架前後順序如圖示，短槽孔在前。



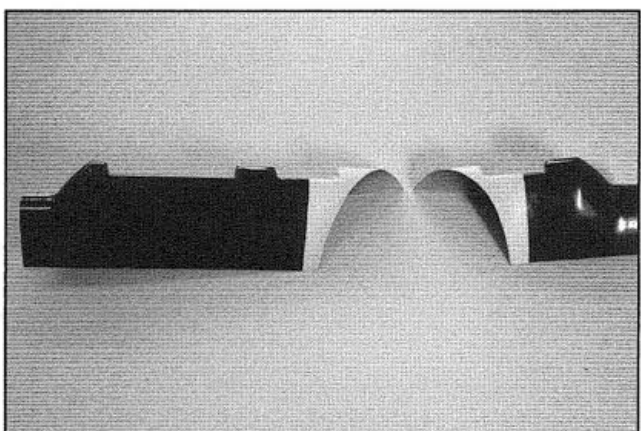
38. The side frame is either marked L or R. Make sure L is at left side and R is at right side. Always trial fit all wood parts before you glue it. Suggest to glue the one side frame in place first, next the other side frame with servo tray at the same time. Fuel tank retainer and retract servo mount strips at the last.

機體兩側框架上有明顯標示L或R。確定L須裝在左邊、R是在右邊。在確認整體位置前不能事先組裝膠合。組裝的順序是先裝一邊的框架，然後裝另一邊的框架，之後裝伺服機架。油箱固定框架以及起落架伺服機座隨後裝配。

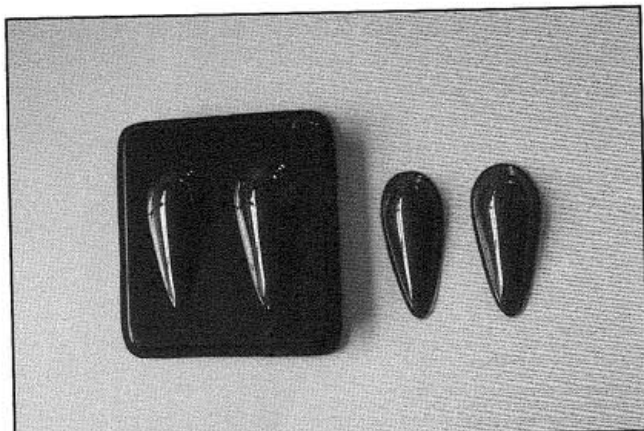


39. Glue the short guide tube in fuselage.

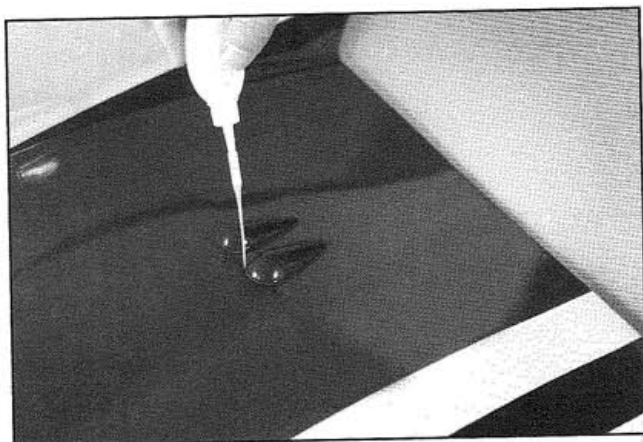
將主翼的固定樑管插入機身裡面，左右長度均等。



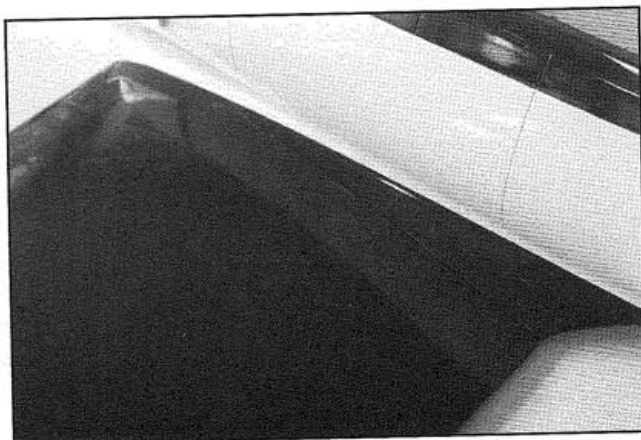
40. Locate and trim the radiator inlet as shown. 如圖修剪冷却器進口。



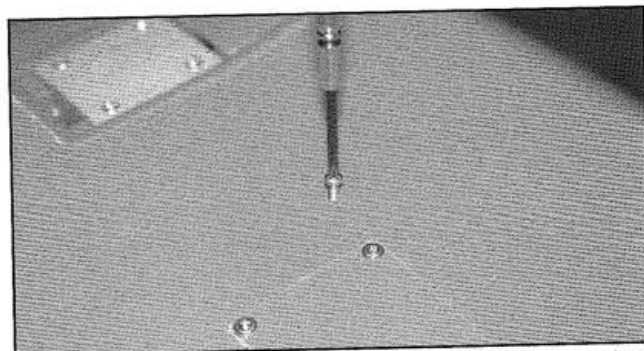
41. Locate the trim the feed blisters as shown.
如圖修剪機槍裝填艙蓋。



42. Glue the feed blister on the wing in position as shown.
以瞬間膠固定艙蓋於主翼上。



43. Trial fit the two wing halves and join them with the fiberglass tube. Never push too hard as it may damage the tube-stop rib inside the wing panel. Trim holes or dowels might be necessary to get a good fit.
將中央接合管插入主翼並試著搭配於機身上。如有必要請砂磨機身接合面使之於主翼根搭配完美。

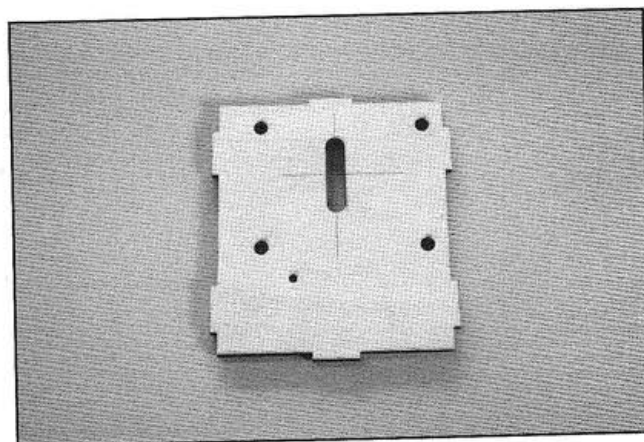


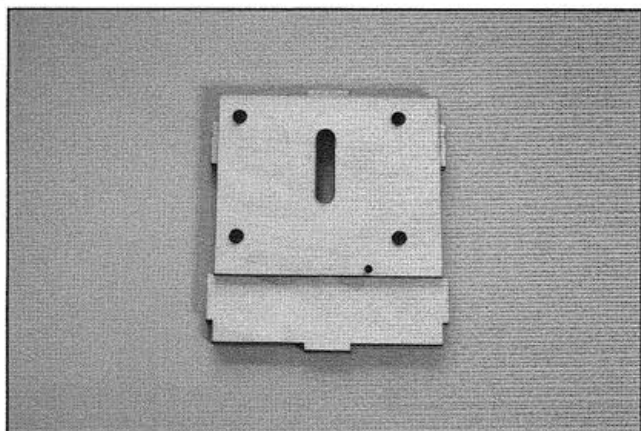
44. Locate the hole that is located at the bottom wing between retract the flap servo hatch. Drill a 5/64" (2mm) hole through the fiberglass tube of the main wing halves, and make sure they are firmly close to the fuselage then secure 3x20mm wood screws. Main wing is removable for convenient in transportation. For best performance, epoxy two wing halves is strongly recommended.

於下翼面找出主翼固定孔，確定主翼與機身密合鑽以2mm孔再以3x20mm木螺絲固定。建議以環氧樹脂膠合主翼與機身，減少主翼振動避免影响飞行性能。



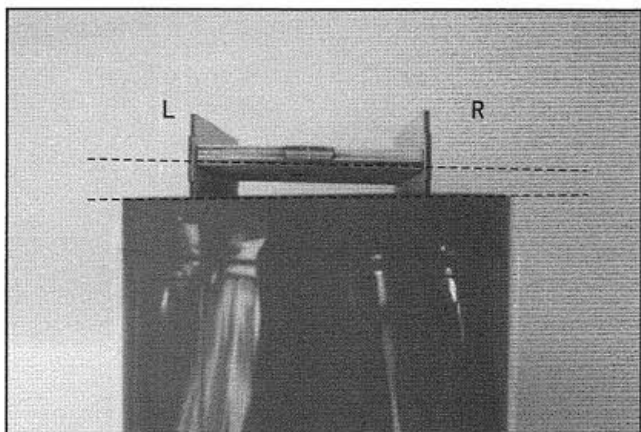
45. Properly glue the radiator inlet at the leading edge where close to the wing root.
以瞬間膠固定冷却器於翼根前緣上。





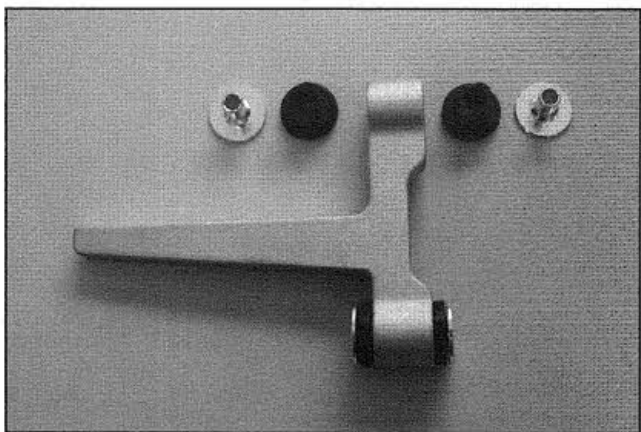
46. Sandwich the three firewalls together; note the cross laser cut mark should be on the top and smallest one at the bottom.

三個防火牆必須粘合在一起，注意有十字為前，最小的為后。

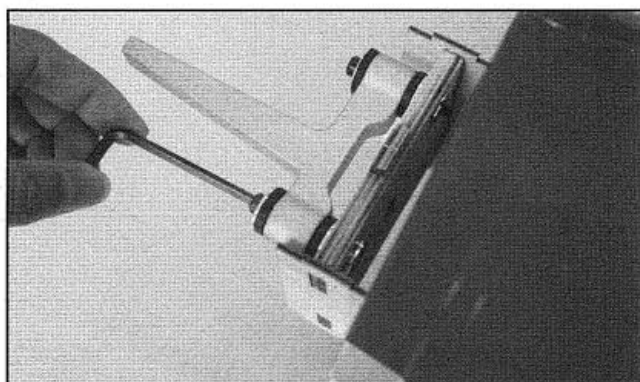


47. Epoxy the firewall in place. You may insert the firewall to L sideframe then push in the other side. Make sure the firewall with right thrust angle as shown.

組裝防火牆方式以斜角先插入左邊、隨後推擠裝入另右邊。機體結構已經具備引擎右拉及下偏角度。

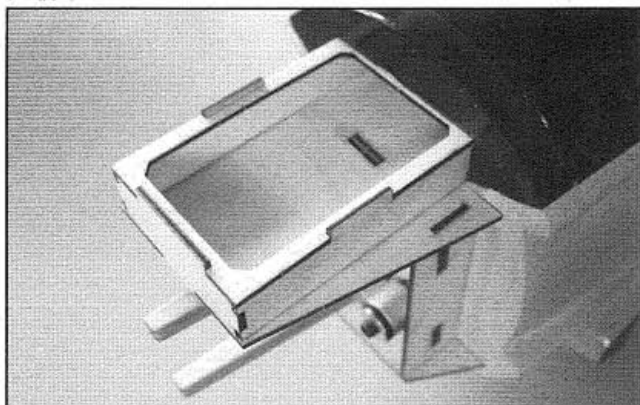


48. Assemble the Anti-Vibration Engine Mount. 防震引擎座以及組件。



49. Install the Anti-Vibration Engine Mount in place with 5x40mm Socket Cap Screw and Blind Nut. You just screw in the cap screw then the blind nut will punch into the firewall.

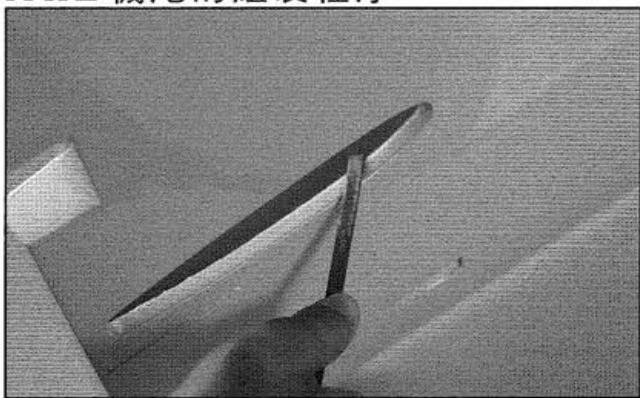
使用5x40mm螺絲配合盲孔螺帽固定防震引擎座，盲孔螺帽須裝在防火牆的內側，鎖緊螺絲將盲孔螺帽陷入防火牆中。



50. Trial fit the battery box, then epoxy the battery box and bottom reinforced ply in place. When cured, lightly apply epoxy on all firewalls area as well as the battery box so the plywood could be fuel-proof. Just mix the epoxy with no more than 50% mix of alcohol then brush on firewall.

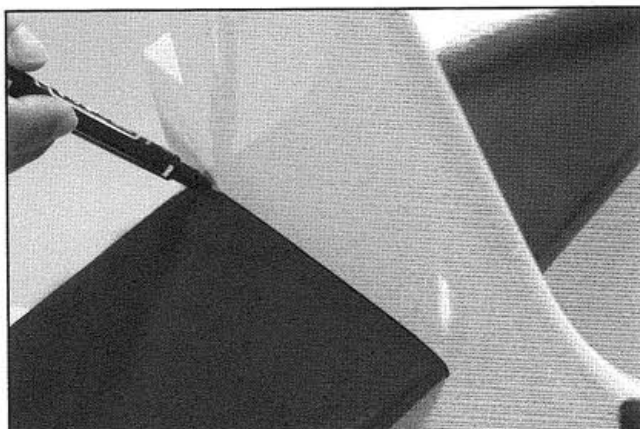
這是接收機電池組裝的示意圖，建議使用環氧樹脂(A.B膠)接合。同時組裝好之後建議使用環氧樹脂加上50%以下比例的酒精，使用毛刷均勻的將表層塗上一遍，以防止燃料滲入木質結構。

TAIL 機尾的組裝程序

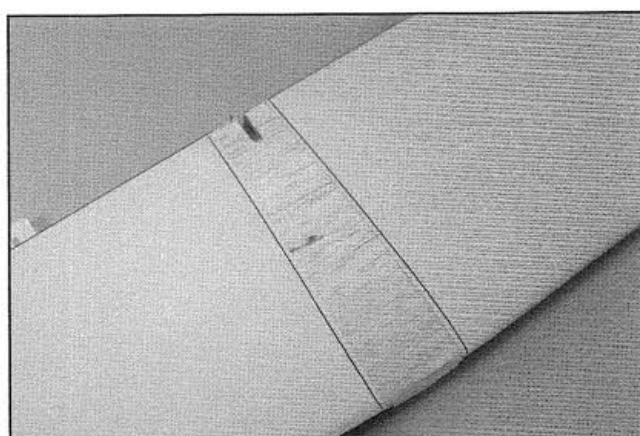


51. Sand the tail saddle to increase the roughness where horizontal tail is going to glue later.

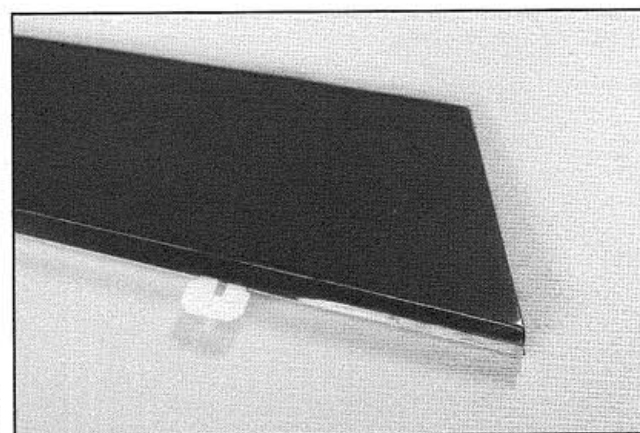
水平翼的鞍座稍後要粘合，請砂磨鞍座以增加粘合度。



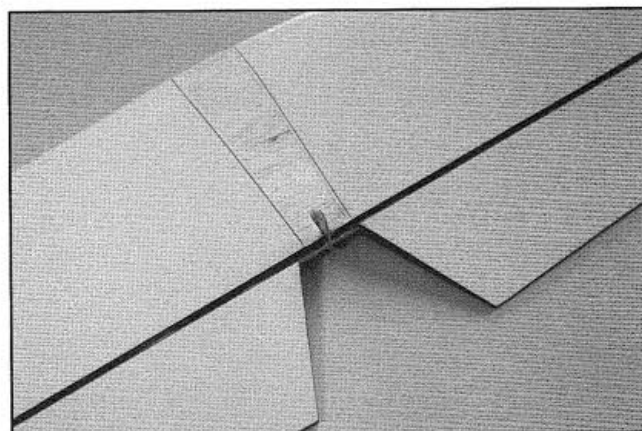
52. Trial fit horizontal tail in fuselage, center it then make marks on tail at four sides.
將水平尾翼裝在機身上，確認位置正確後使用油性筆沿著機體四周做記號。



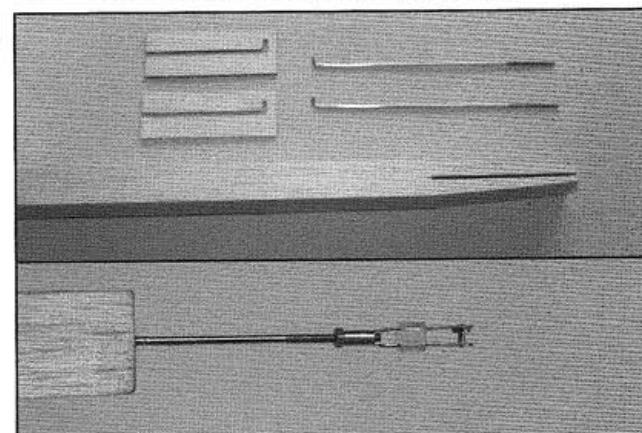
53. Carefully use hobby knife to cut lines inside the lines about 1~2mm. Remove covering as shown. Never cut too deep to hurt the balsa planking.
使用銳利的刀片沿著記號內側1-2mm切除包覆紙。注意！當切口太深時將會嚴重損傷機翼的結構。



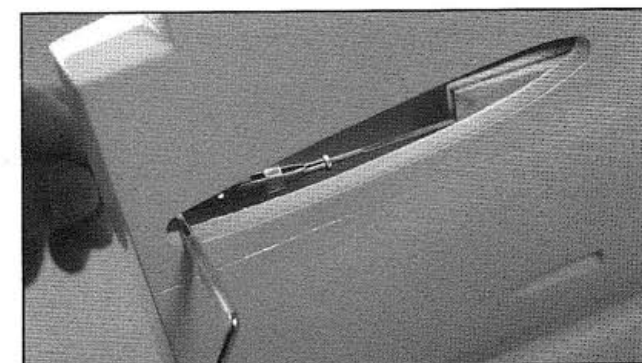
54. Cut away the covering of leading edge at the root of elevator where the torque rod is going to be installed. CA three hinges in elevator at this time.
切開根部隱藏的升降舵控制桿固定槽，以及安裝活頁片。



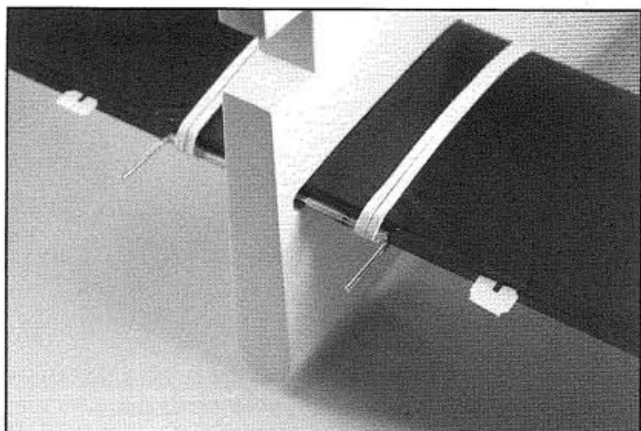
55. Trail fit the elevator on tail with torque rod installed. Do not glue at this step. When satisfied, remove the elevator and torque rod.
將升降舵控制桿以及升降舵、CA活頁試組裝到水平尾翼上。在這一步驟不要粘合。配合確認沒問題後拆開。



56. Locate the elevator pushrod parts as shown, epoxy the plywood inside the wood rod at two ends with wires. Thread the M2 nuts and clevises and make sure the whole elevator pushrod has no free play. Note the orientation of the pushrod and clevis.
圖示為升降舵推桿組裝程序。合板與推桿使用環氧樹脂粘合。裝上連桿頭。注意連桿頭兩端方向。

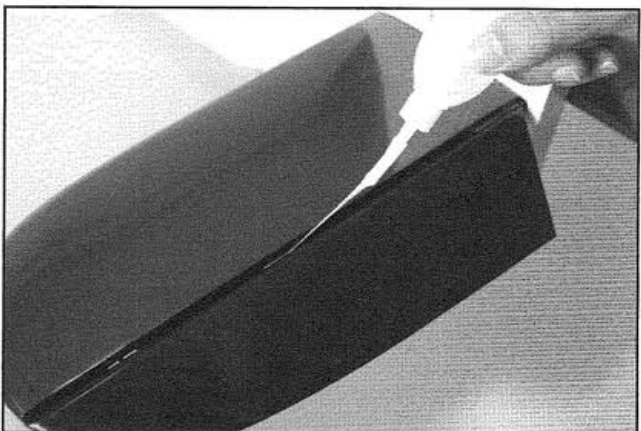


57. Apply a small tube onto the clevis then connect the elevator pushrod to the elevator torque rod. A flat head screwdriver will help snapping the clevises onto the torque rod link. Trim the elevator center notch for enough throws (down) as page 24 shown.
將推桿連桿頭連接至升降舵控制桿上面的舵片。使用銼刀將鞍座後方修整出一個平口準備置入垂尾後緣木。



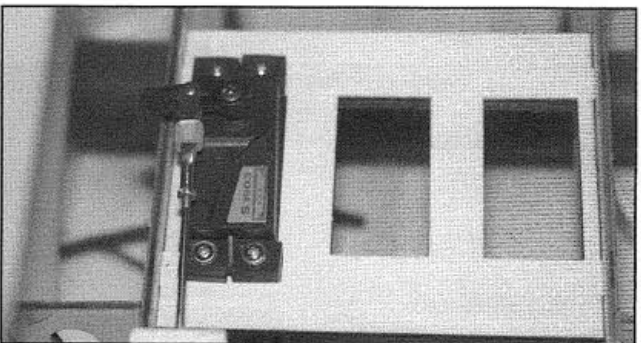
58. Lubricant oil to the hinges of elevator torque rod. You may spray WD-40 on the hobby knife then use the knife tip to contact the torque shaft and the oil will go into the hinge. Epoxy the elevator joiner in place.

將升降舵控制桿軸的部分先噴上WD-40(鉸鏈部分不能沾油)，然後使用環氧樹脂將鉸鏈粘合到水平尾翼上。您可以使用橡皮筋將升降舵控制桿組確實壓到位置。



59. Apply small amount of epoxy at torque rod hole next install the elevator in place. CA all hinges and make sure elevator is firmly secured.

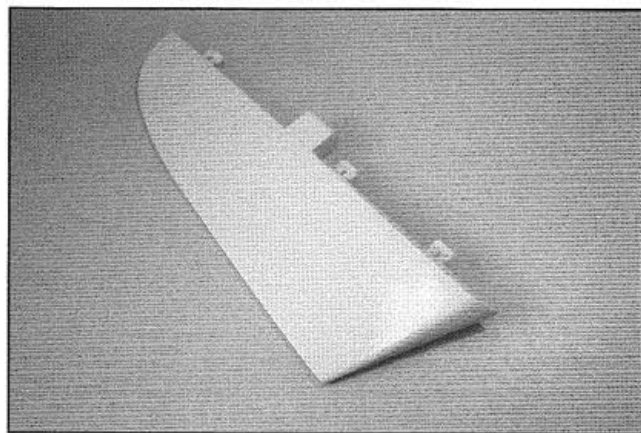
將升降舵固定到水平翼，使用瞬間膠水固定活頁確定其牢固不脫落。



60. Install elevator servo, note the servo horn orientation. Then adjust the clevises to make sure elevators are level when servo is in neutral position. When satisfied, remove the elevator pushrod temporarily and secure M2 nuts and clevises firmly.

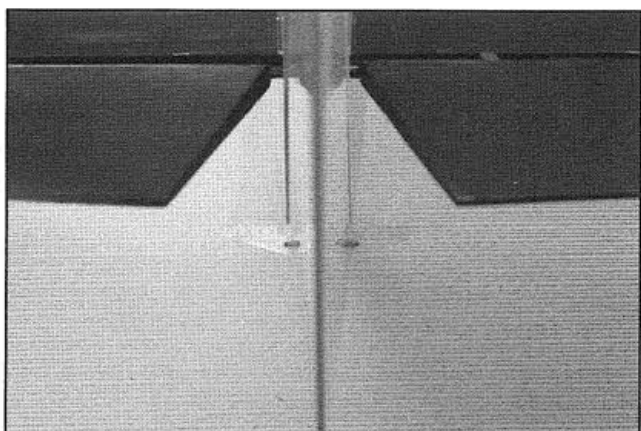
安裝升降舵伺服機，請注意伺服機擺臂的方向。伺服機通電並確認推桿與擺臂成90度。

RUDDER 方向舵裝設步驟



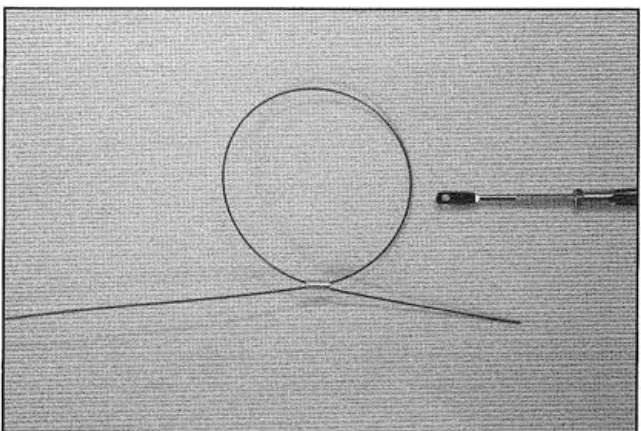
61. CA the three hinges on rudder as shown.

使用瞬間膠水固定活頁在方向舵上



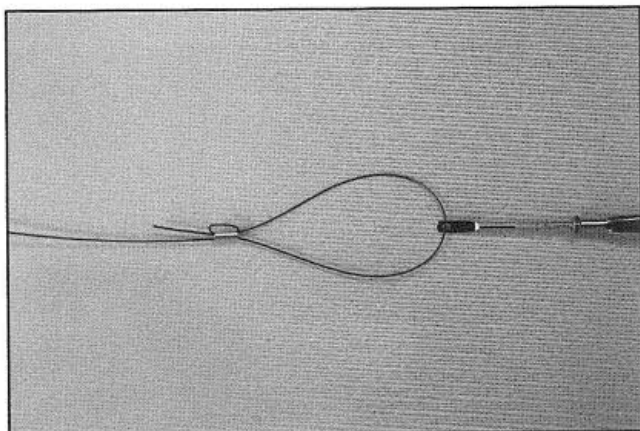
62. Install the rudder on vertical fin with CA instant glue next install the control horns on the rudder with two 2x30mm machine screws and M2 nuts.

固定方向舵在垂直翼上。其次安裝舵角控制器在方向舵上，使用兩支2x30mm螺絲與2mm螺帽固定。

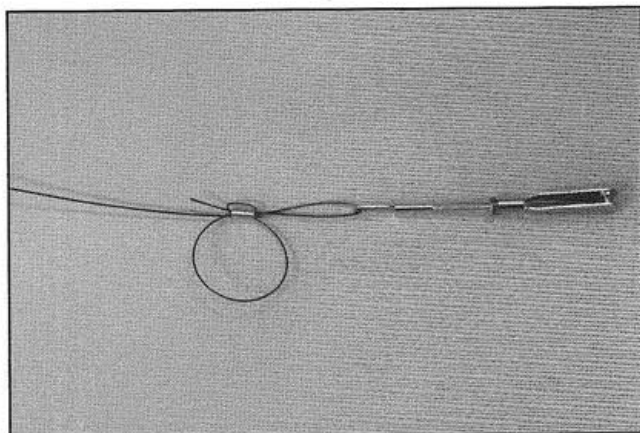


63. Locate the straight threaded end, brass tube, M2 nuts, clevises and wire. Cut wire in length 90cm. First thread the M2 nut and clevis then secure the M2 nut on clevis. Then route the wire through the tube and make it a circle.

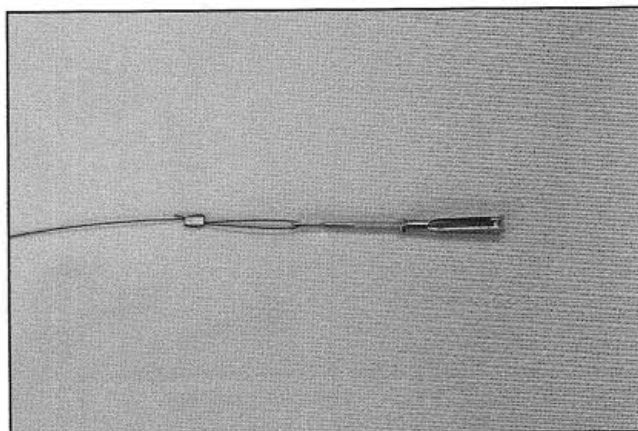
組裝接桿、連桿頭及M2螺帽。剪鋼絲約90cm。鋼絲繩先穿過鋼管接著再往返穿過一次(如圖示)。



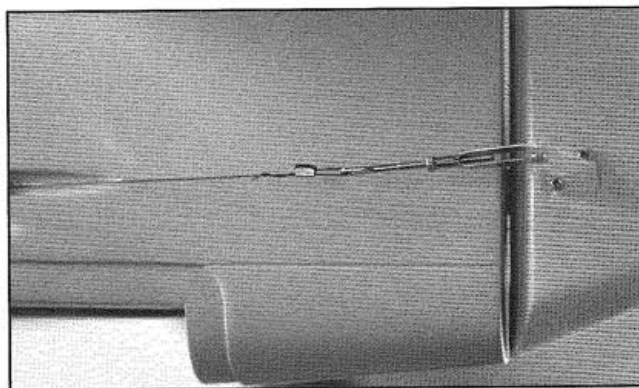
64. Next thread the wire through the clevis linkage then tread to the tube again.
穿過連接桿組返穿回銅管(如圖示)。



65. Make the other circle as shown.
再如同圖示返穿一圈。



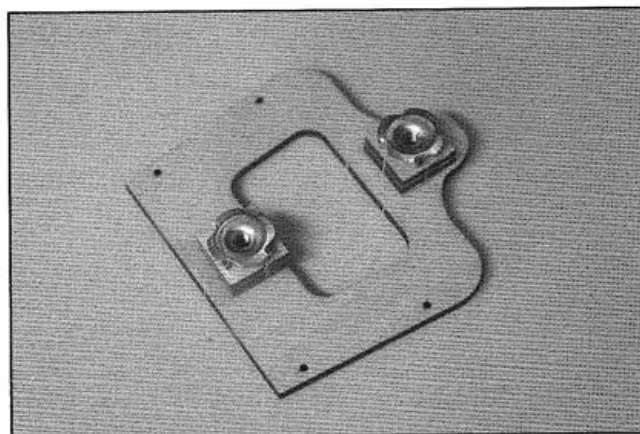
66. Adjust the wire to make the circle as small as possible then use the pliers to crimp the wire firmly.
將鋼絲繩拉緊並使用鉗子將銅管夾扁固定鋼絲繩。



67. Drill the pull-pull wire exit hole and thread the wire into fuselage to the rudder servo. Do the same way to servo end and use Z bend end rod. Do not crimp the brass tube at this moment until tail gear pull pull wires are ready.

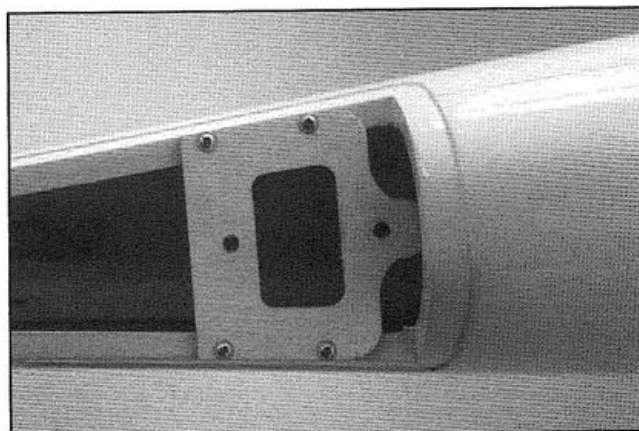
將已經準備好一端的鋼絲繩從機尾的拉桿口自行鑽1.5mm孔穿入機身一直到方向舵伺服機，伺服機的那一端鋼絲繩重複剛才的步驟，但是先不要壓扁銅管！必須等到尾輪組控制鋼繩穿好後在一次性調節。

TAIL GEAR尾輪組的部分。



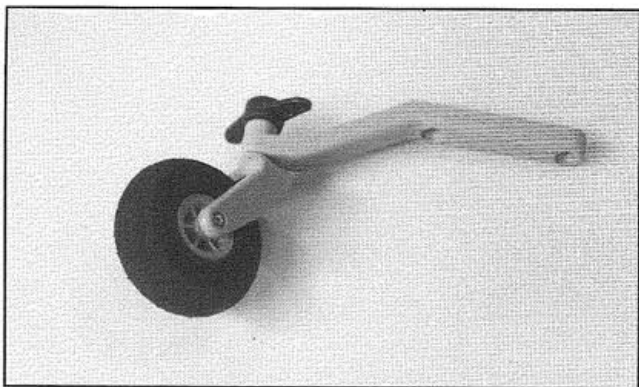
68. Locate the tail gear mount, doublers then glue them together then press the Blind Nut in the hole. It will be easier to use hammer or mice.

將補強合板粘上然後按上盲孔螺帽，最後使用鉗子或是榔頭將盲孔螺帽釘入。

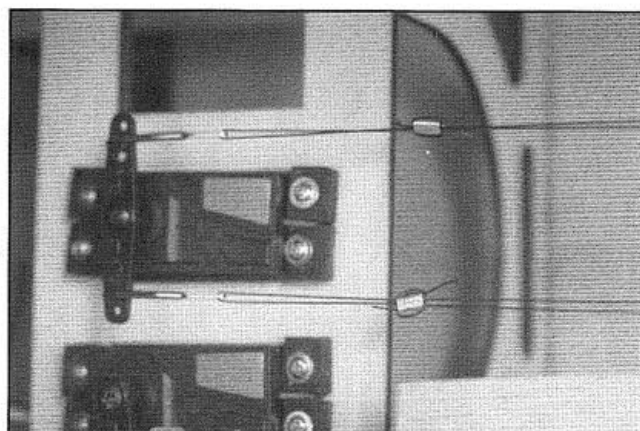


69. Secure the tail gear mount right in the front with four 2x8mm washer wood screws.

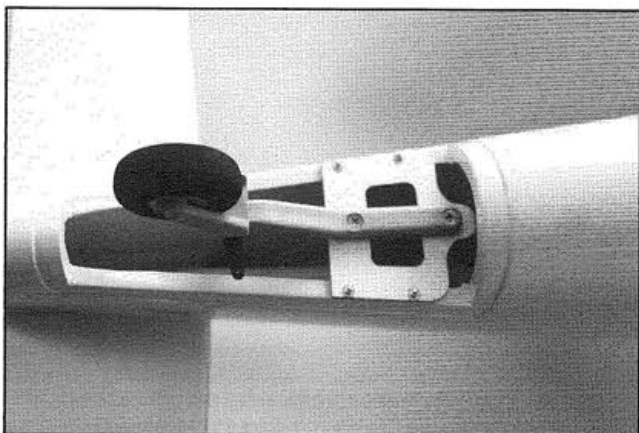
將尾輪座裝上機身使用2x8mm垫片木螺絲固定於机尾。



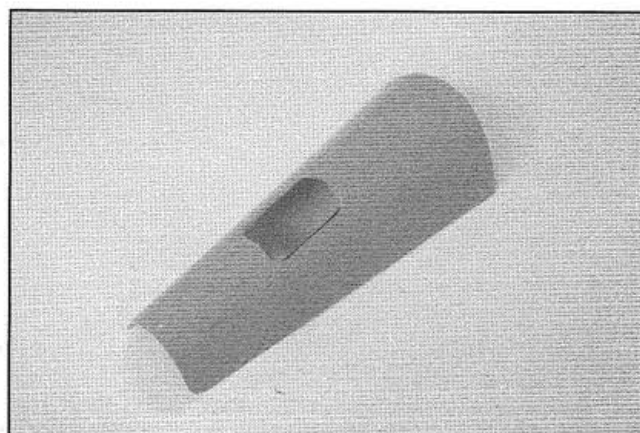
70. Locate the tail gear bag, and assemble the tail gear as shown. Note the orientation of steering arm, trim the outer hole away as it is too long to install in the tail. Secure steering arm in place with 3x5mm set screw.
打開尾輪組零件包開始裝配尾輪組。注意控制臂的方向，控制臂最外面的孔位必須切除，否則會發生干涉的狀況。控制臂使用3x5mm螺絲固定。



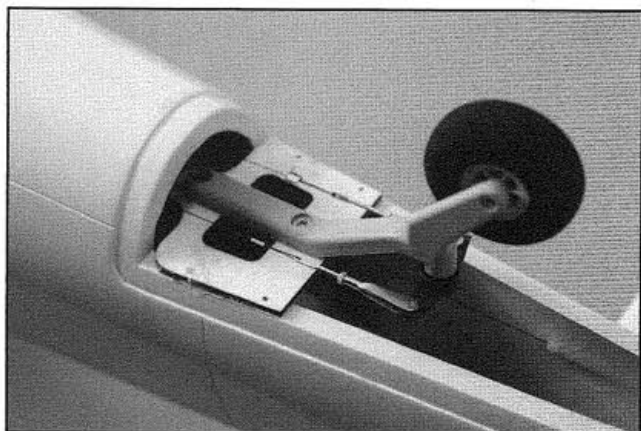
73. Adjust the threaded end at the servo end to get better tension of the four wires and make sure both rudder and tail gear are in line with each other. Crimp the tubes when satisfied.
最後調整方向舵伺服機這一端鋼絲繩的長度，同時調整方向舵及尾輪的張力，最後再壓扁銅管。



71. Secure the tail gear assembly on the tail gear mount with 4x20mm sink machine screws.
尾輪組使用4x20mm平頭螺絲固定在尾輪座上。



74. Locate the bottom tail cover, make the opening according to the tail gear.
尾蓋須依據尾輪組尺寸及位置開孔。

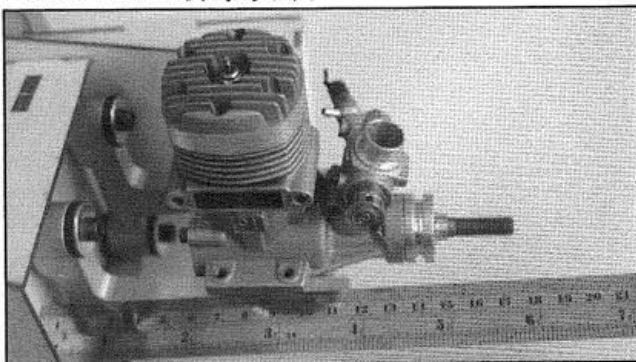


72. Do the same procedure of the pull-pull wire on tail gear.
尾輪方向控制裝法如同方向舵。



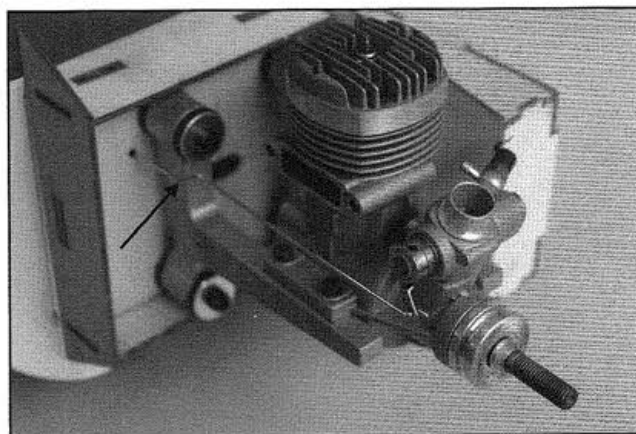
75. Trim the tail cover and fit in place. Drill eight 1.5mm holes then glue doublers at the hole area. It might be needed to sand the doubler to adapt to the curve surface. Drill the holes again on doublers then secure the bottom tail cover with 2x8mm washer wood screws.
將尾輪組蓋子與機身配合定位、使用紙膠帶暫時固定後開8個1.5mm的孔位。蓋子裡側可能需要使用銼刀或砂紙修整平整並粘上方形補強片。使用2x8mm墊片木螺絲固定。

ENGINE引擎安裝



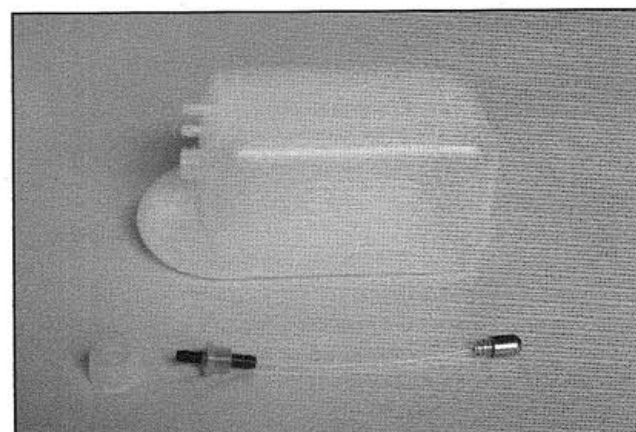
76. Place the Engine (Thunder Tiger PRO-91 Shown) in the Engine Mount then proceed to make mount hole marks on the engine mount where drive washer is 5 3/4" (147mm) to the firewall.

引擎(圖例為雷虎PRO-91)裝置在引擎座上面作鑽孔記號, 尺寸為防火牆距離螺旋槳驅動墊圈147mm的距離。



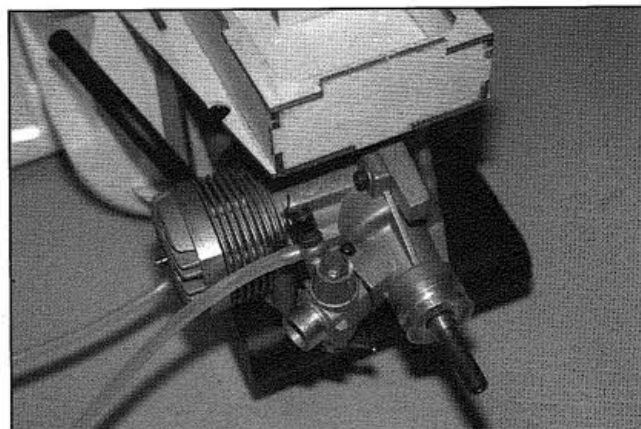
77. Remove the engine and engine mount. Drill the 3.4mm holes based on those marks then tap the hole with M4x0.7 thread tap. Connect throttle pushrod then secure the engine with M4x20mm socket cap screws. Make a Z bent on throttle pushrod as indicated.

依據引擎座上的記號使用 3.4mm 的鑽頭鑽孔, 接下來使用 M4x0.7 螺絲攻進行攻牙。連接化油器的推桿後使用 M4x20mm 的螺絲將引擎固定在引擎座上。注意節氣閥推桿連接化油器彎成Z狀連接(如圖示)。



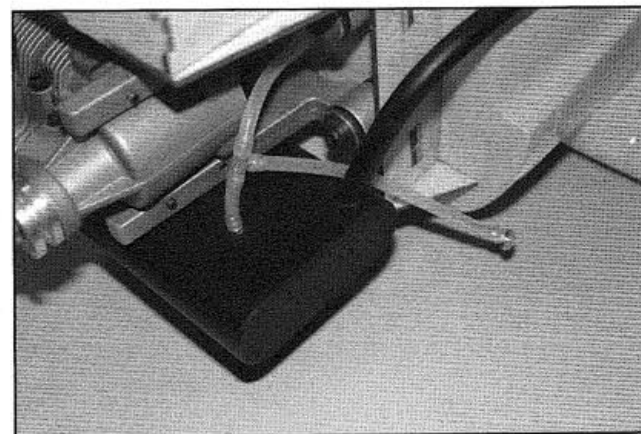
78. Locate the fuel tank and its accessories. Assemble the tank as shown. Install the fuel tank in place, connect the fuel lines and exit from the firewall for enough length to carb and muffler.

組裝油箱如圖示。準備夠長之油管可連結至化油器及消音器。



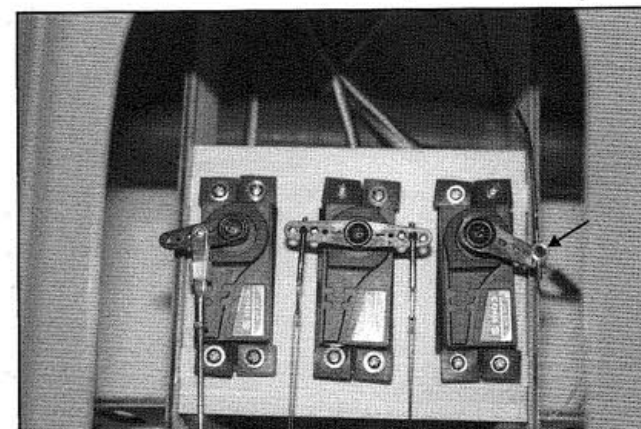
79. Install the Sept. Fury Exclusive Muffler(TTR9791), which contains 2 angled exhaust pipes and aim to the concavity of the fuselage for true scale looking.

建議安裝特製消音器(No.9791)。



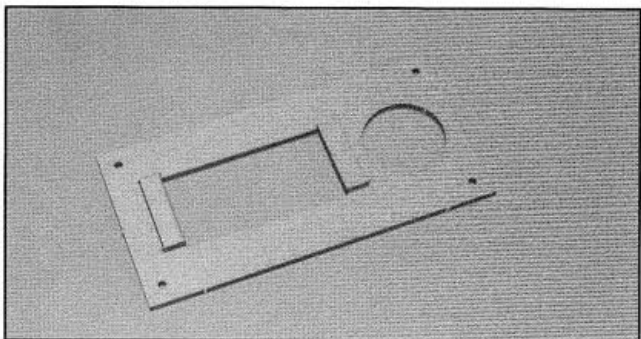
80. Install T tube fitting and fuel tube plug as shown, this will help you to know fuel is full when pumping.

建議安裝三通於油箱回壓與消音器之間以檢視加油滿油情形。

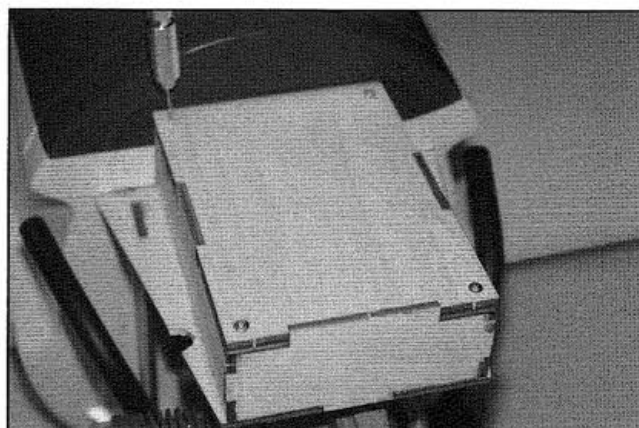


81. Install the EZ connector on the throttle servo horn with M2 washer and M2 nut. Afterwards, thread the throttle pushrod through the EZ connect and secure the servo horn on the servo. Adjust the servo with the radio on, once satisfied with the result, proceed to secure the throttle pushrod with a 3x3mm set screw.

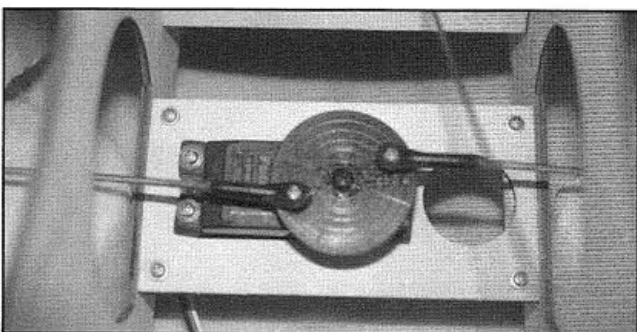
安裝可調式連接頭於油門擺壁上, 固定伺服機於機體上如圖所示。



82. Locate the retract servo tray, glue the doubler as shown. Then, install the retract servo on the servo tray.
黏接補強片於收腳伺服機座上。固定收腳伺服機於伺服機座上。



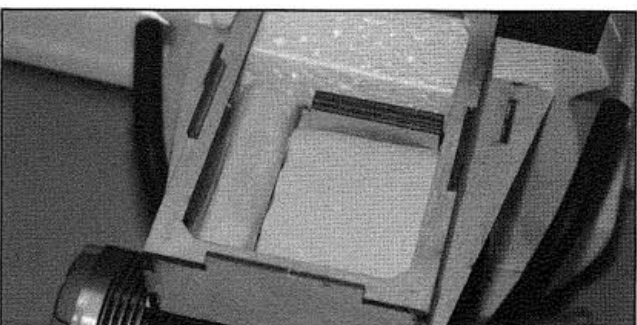
85. Secure battery box cover with four 2x8mm washer wood screws.
以2x8mm 墊片木螺絲固定電池盒蓋。



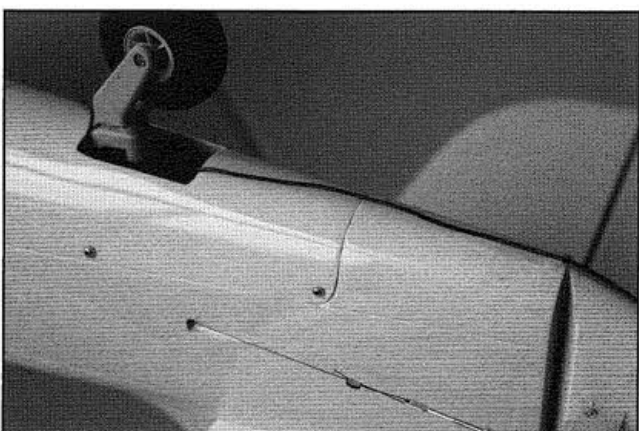
83. Secure the whole assembly in place with four 2.3x12mm washer wood screws. Next secure two Steel Balls on the servo horn with 2x8mm machine screw and M2 nuts. The distance between two balls is 24mm. Fine adjust the retract pushrod, and make sure the ball link with "Tiger" is facing up. Switch on the retract gear to make sure the retract gear works smoothly.
固定收腳伺服機組於機身裡，安裝球頭於圓盤上以2x8mm 螺絲及螺帽固定。注意兩球頭中心距離為24mm。調整收腳連桿行程再將 "Tiger" 朝上之球頭連接頭固定於球頭上。



86. Connect all servo wires to the receiver; wrap the receiver with foam to fully protect the receiver. Insert receiver between frame and fiberglass wall in fuselage.
連接伺服機線至接收機。將接收機裹以泡棉保護。將接收機置於機身與側板之間。

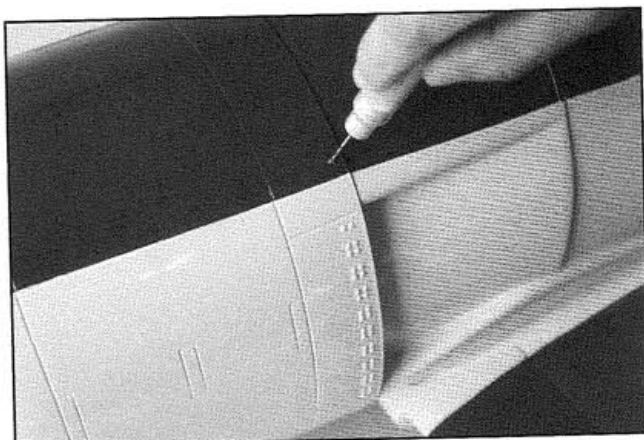


84. Place a battery in the battery case; use double side tape to secure it in the front of battery case. You can use the excess servo tray plywood to make a block to hold battery in place. It requires an extension wire to connect to the switch harness. Approximately 300-350g of weight will be added in the front of the battery case. See balance section in page 24 and add proper weights to get right CG. 使用1000mAh 以上電池固定於電池盒中連接延長線接至開關。電池盒請再加重約300-350g 注意電池盒後方以發泡固定之。重心位置請參考末頁平衡一節。



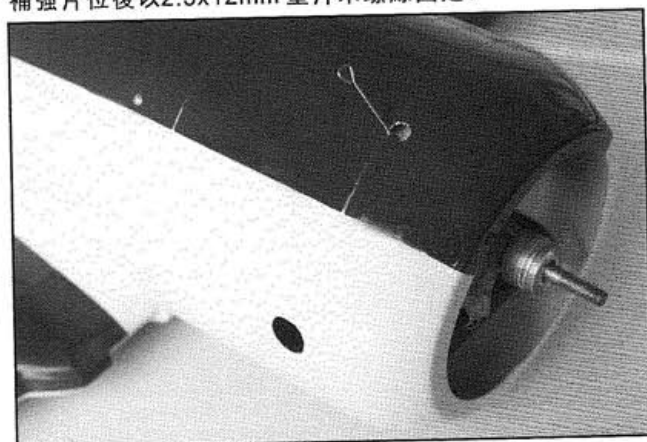
87. Route the antenna along the fuselage and exit at the tail gear opening. Tape the wire in place as shown.
將天線穿過機身並穿出機尾蓋並以膠帶固定於機身上。

COWLING



88. Install the engine cowling; first glue the plywood doublers inside the fuselage at where hole is. Trial fit the cowling in place and temporarily secure it with mask tape. Drill 1/16" (1.5mm) at the place where doublers are.

安裝引擎罩於機身上，以紙膠帶固定於機身上後再鑽以1.5mm孔。於機身該孔為處膠合方形補強片。再重新鑽穿補強片位後以2.3x12mm 墊片木螺絲固定。



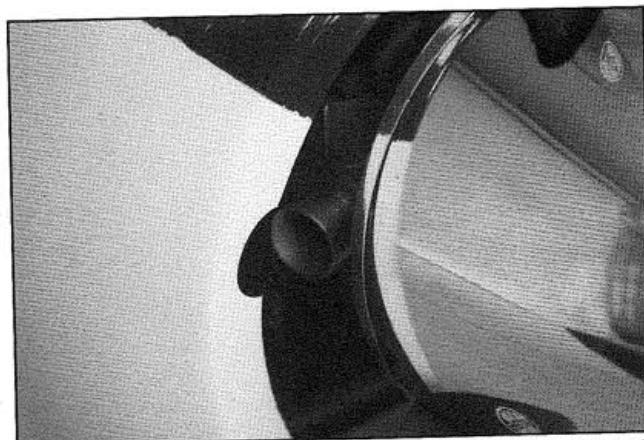
89. Drill needle valve extension wire exit hole. When satisfied, secure the cowling in place with 2.3x12mm Washer Wood Screws. Suggest to install Precision Fueler (TTR1115) for easy fueling.

挖出油針延長桿孔位、電夾孔、快速加油孔，及排油孔。安裝油針及安裝快速加油器於引擎罩上。

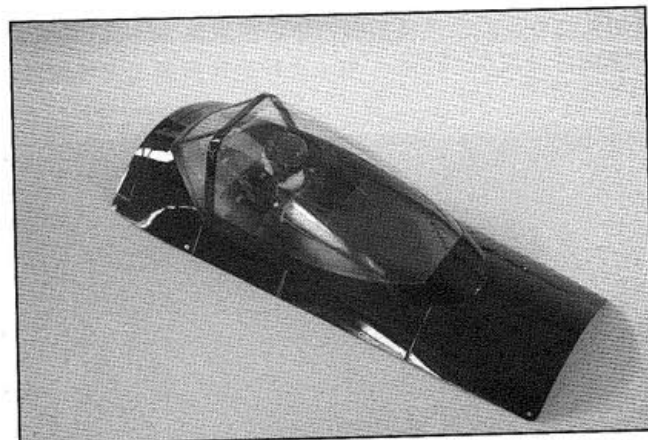
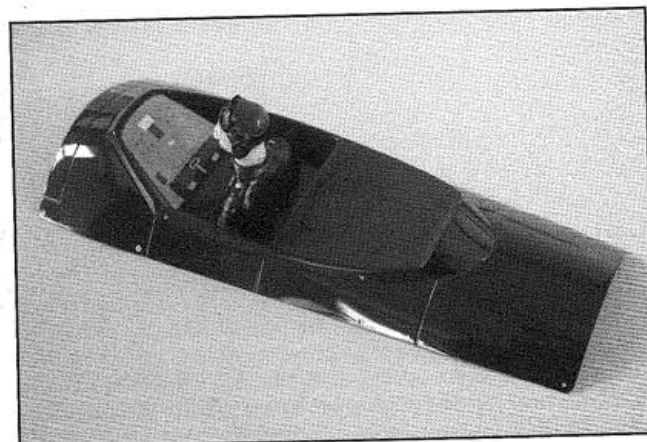


90. Install the propeller and furnished spinner. What we used here is Master Airscrew 13x8.

安裝機頭罩及螺旋槳，建議使用Master Airscrew 13x8 槳配TT PRO-91。

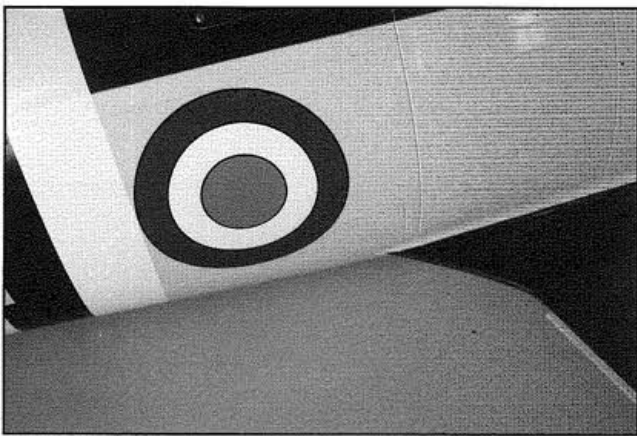


91. Suggest to file the cowl located near the vent of carburetor as shown, the engine will get enough air and run smoother if you install a 2 stroke engine. 建議磨出一個半圓缺口以增加化油器進氣量。

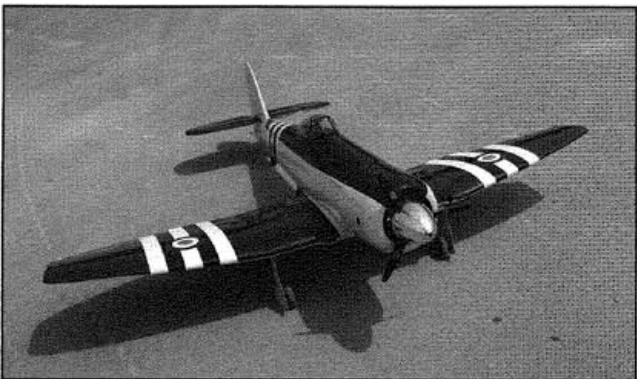


92. Apply instrument panel in the cockpit. Next glue the pilot in the cockpit. Trim the canopy and trial fit the canopy on the cockpit. Glue the plywood doublers and drill four 1/16" (1.5mm) holes. Secure the canopy with four 2x5mm washer wood screws.

貼上儀表板貼紙，安裝飛行員。接著安裝擋風罩，以1.5mm 鑽頭灣出固定孔位，背面膠合方形補強片再以2x5mm木螺絲固定。



93. Apply Royal Air Force Decal in place as shown.
將英國皇家空軍標志貼于飛機上。

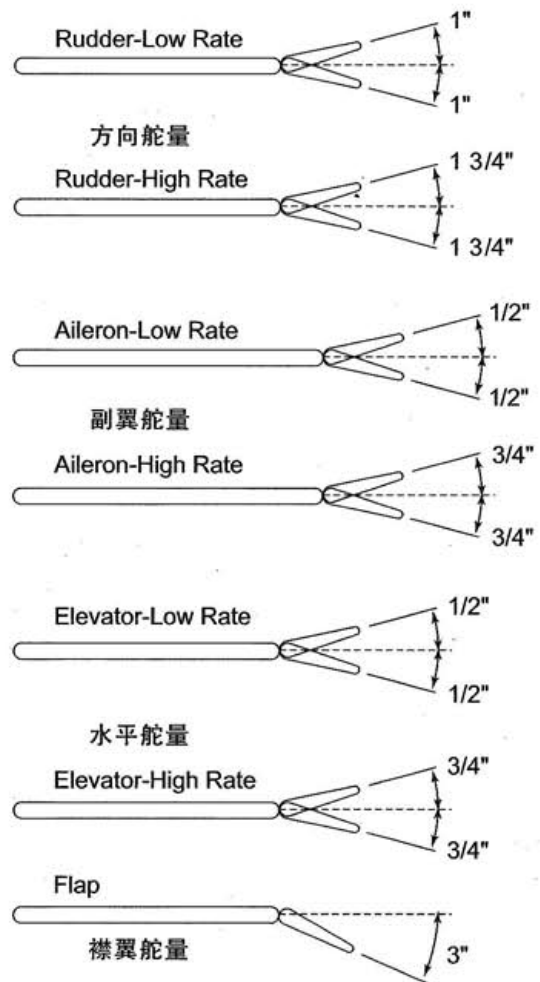


Your Sea Fury is now ready to fly, carefully set up the control throws and balance your plane well before each and every flight; never take chances or rush fly your Sea Fury.

恭喜您完成，飛行前請仔細設定舵機動量及重心。

Control Throws 舵量調整

Set the control throws as followings for a starting point. After you familiar with its flying characteristics then these control throw can be tailored to fit your flying style.



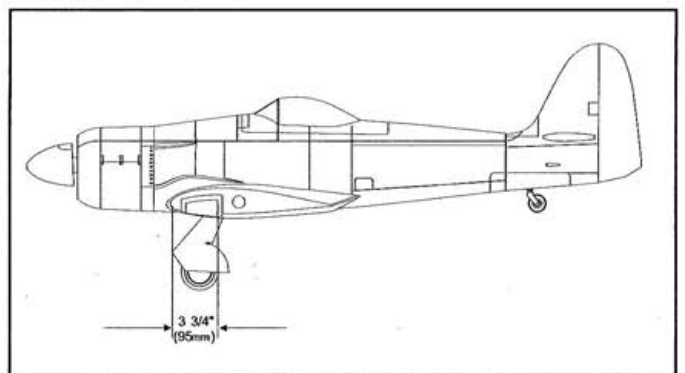
Center of Gravity

IMPORTANT - Do not attempt to fly your model before completing this very important section. A model that is not properly balanced will be unstable and could cause serious damage and/or injury. Adjust the battery location or add weight as needed to achieve level balance.

飛行前請務必調整重心。

Measure the C.G. while plane is dry. The balance point is about 3 3/4" (95mm) behind the leading edge where there is a panel line on fuselage.

重心位置距前緣約95mm。



Locate A Good Flying Site

Generally, the best place to fly your model is at an AMA (Academy of Model Aeronautics) chartered club field. Your local hobby dealer can tell you if there is such a club in your area or write the AMA for information. It is also a good idea to join this organization before flying your model since they offer liability insurance that can protect you if your model causes damage or injury to others.

Academy of Model Aeronautics

5151 East Memorial DR

Muncie, IN 47302-9252

www.modelaircraft.org

If there is not a chartered club field in your community, you will need to find a large area free of obstructions, and has a smooth grass or asphalt surface to be used as a runway. For safety sake, it should be located well away from houses, buildings, schools, power lines and airports. If you will be flying within 6 miles of an airport, you should check with the airport manager before flying your model.

A Note On Batteries

The batteries are the heart of your radio system. Make sure you have fully charged batteries! With recharge-able batteries, follow the manufacturers instructions to make sure the batteries are fully charged, especial the first time the radio is used. We would recommend you use larger capacity (1000mAh) if you use high performance servos as they will draw more current than ordinary servos.

由於使用多個舵機，請使用1000mAh以上狀況良好電池。

Congratulations

Now that you have completed the assembly of your Sea Fury we feel that you have a very capable and good looking sports scale plane. We hope that you will enjoy this model and get many hours of flying pleasure from its use. Thank you for purchasing this Sea Fury from Thunder Tiger and we look forward to providing you with other great R/C products in the future.



The real Sea Fury in air shown.