



SPECIFICATIONS 規格及諸元

GW/SLOWSTICK

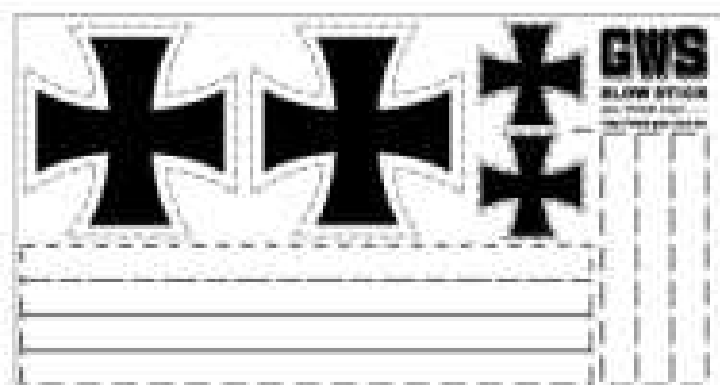
Length (全長)	: 954 mm (37.6 in.)	Propeller (螺旋槳)	: EP1047 / EP1180 / EP1060
Wing Span (翼展)	: 1176 mm (46.3 in.)	Battery Required (電池規格)	: 2/3AA270-400mAh / AA600mAh/7.2V
Wing Area (主翼面積)	: 32.64 dm ² (505.9 sq. in.)	Servo (伺服機)	: PICO / NARO / MINI
Flying Weight (全備重量)	: 405-440 g (14.3-15.5 oz.)	Receiver (接收機)	: R4N II / R6N II
Wing Loading (翼面荷重)	: 12.4-13.5 g/dm ² (4-4.4 oz./sq.ft.)	Speed Controller (電子變速器)	: ICS-300 / ICS-400 above 以上
Power System (動力系統)	: EPS150C / EPS300C / EPS400C/EDP400	Radio Required (遙控裝置)	: 2-4 channel radio (4動作以上遙控器)

CONTENTS OF KIT(PARTS LIST)

01. Fuselage Boom	x1 pce.	13. Ultra-Light Wheel Rim (25.4 mm dia.)	x1 pce.
02. Push Rod	x2 pcs.	14. Servo Mounting Screws	x4 pcs.
03. Removable Gasset	x2 pcs.	15. Tail Dragge	x1 pce.
04. Screw	x4 pcs.	16. Alumium Tube for Dihedral	x2 pcs.
05. Double Adhesive Tape	x1 pce.	17. Power System EPS150C or EPS300C or EPS400C	x1 pce.
06. Wing	x1 pce.	18. Propeller EP1047 or EP1180 or EP1060	x1 pce.
07. Horizontal Stabilizer and Vertical Fin	x1 pce.	19. Plastic Parts Frame "A"	x1 set
08. Spinner	x1 pce.	20. Plastic Parts Frame "D"	x1 set
09. Fiber Glass Spar (3 x 480 mm)	x2 pcs.	21. Rubber Band	x12 pcs.
10. Fiber Glass Spar (3 x 218 mm)	x2 pcs.	22. GWS Glue	x1 pce.
11. Main Landing Gear	x1 pce.	23. Slow Stick Decal	x1 pce.
12. Ultra-Light Wheel Rim (76.2 mm dia.)	x2 pcs.	24. GWS Decal	x1 pce.
		25. Double Adhesive Sponge Tape	x4 pcs.

套 件 內 容

01. Slow Stick 機身	x1 pce.	13. 輪子(25.4 mm dia.)	x1 pce.
02. 推拉桿	x2 pcs.	14. 固定伺服機螺絲	x4 pcs.
03. 墊片	x2 pcs.	15. 尾輪架	x1 pce.
04. 螺絲	x4 pcs.	16. 鋁管	x2 pcs.
05. 雙面膠	x1 pce.	17. 動力系統 EPS150C 或EPS300C 或 EPS400C	x1 pce.
06. Slow Stick 主翼	x1 pce.	18. 螺旋槳 EP1047 或 EP1180 或 EP1060	x1 pce.
07. 水平垂直翼組	x1 pce.	19. 零件 "A" 組	x1 set
08. 機頭罩	x1 pce.	20. 零件 "D" 組	x1 set
09. 玻璃纖維棒 (3 x 480 mm)	x2 pcs.	21. 橡皮筋	x12 pcs.
10. 玻璃纖維棒 (3 x 218 mm)	x2 pcs.	22. GWS 膠水	x1 pce.
11. 主輪架	x1 pce.	23. Slow Stick 貼紙	x1 pce.
12. 輪子 (76.2 mm dia.)	x2 pcs.	24. GWS 貼紙	x1 pce.
		25. 泡棉式雙面膠	x4 pcs.



PYPDP-1027—
Slow Stick Decal
貼紙 x 1 pce.



PYPDP-1003—
GWS Decal
貼紙 x 1 pce.

PYINS-1056—A
Slow Stick
說明書一本
Instruction Manual
x 1 pce.

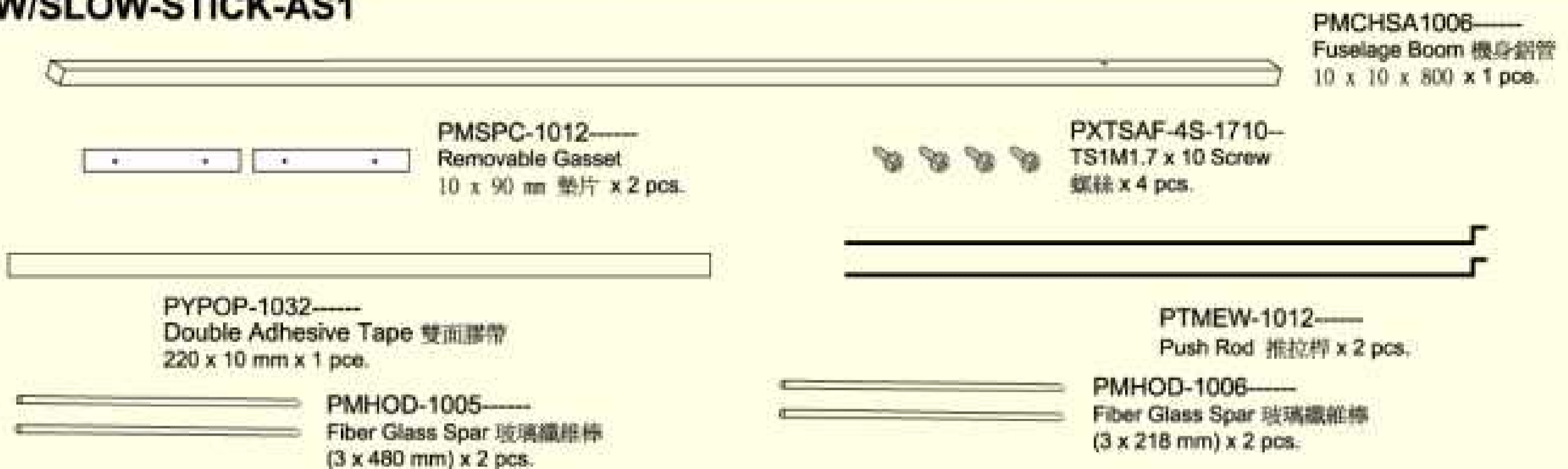
SLOW STICK

R/C 電動飛機

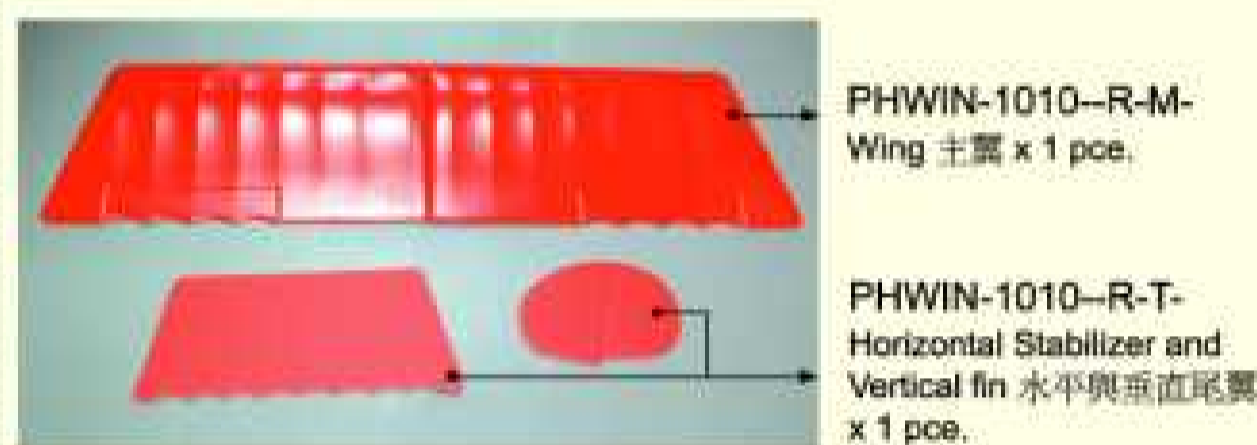
Remark:

please note that some plastic parts on the frames are not used for this airplane, as these frames A are designed to use on other airplanes as well. Please consult the instruction manual for more details.

GW/SLOW-STICK-AS1



GW/SLOW-STICK-AS2



GW/P-STICK-AS5



GW/SLOW-STICK-AS3



GW/SLOW-STICK-AS150



GW/SLOW-STICK-AS4B



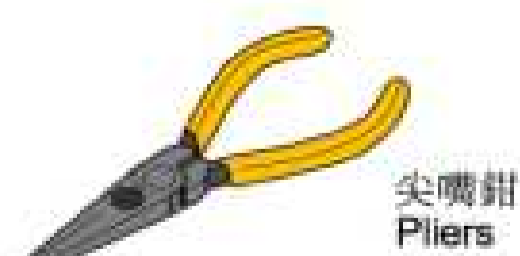
GW/FAS4-EPS400-01



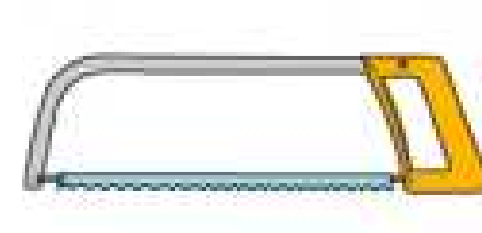
在組裝前需準備的工具：

To assemble this airplane, you will need to prepare some tools.

TOOLS AND ITEMS 所需工具及耗材



For removable tail units, you will need a electric drill and hacksaw and 1 mm drill bit.

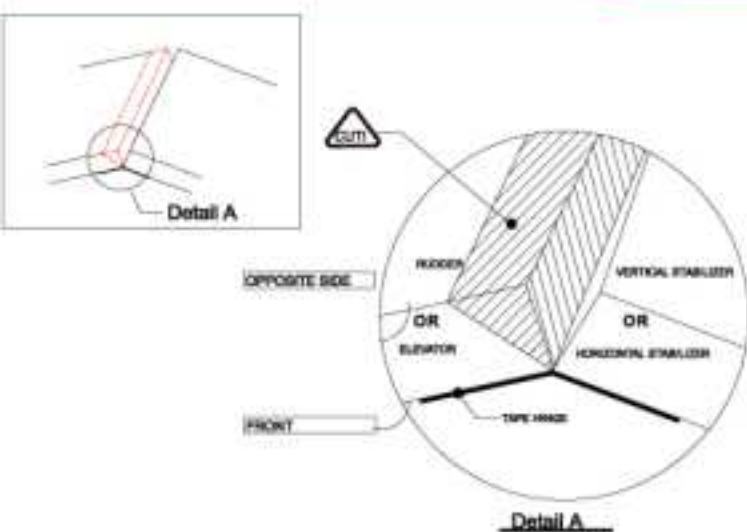


RADIO CONTROL SYSTEM 飛行前所必要之裝備



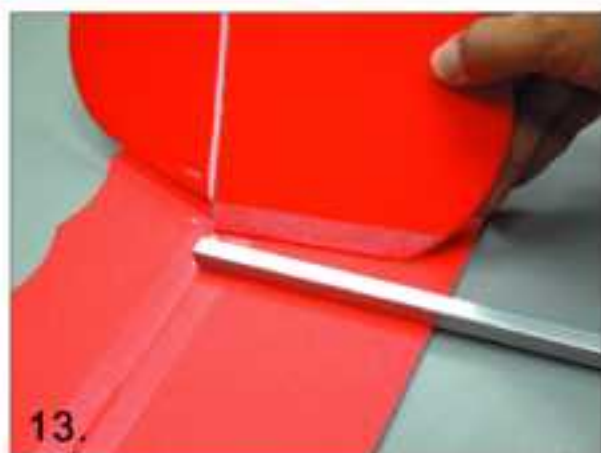
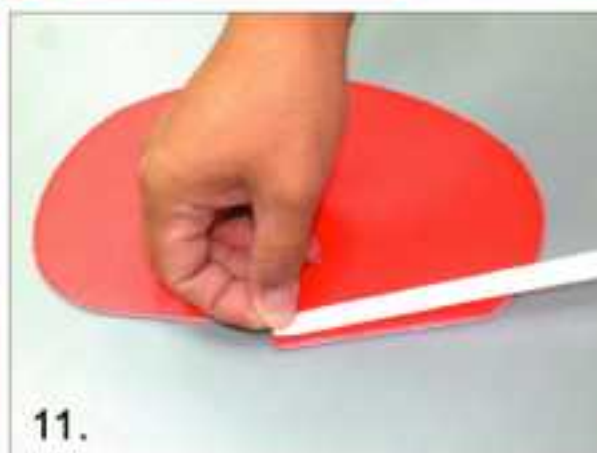
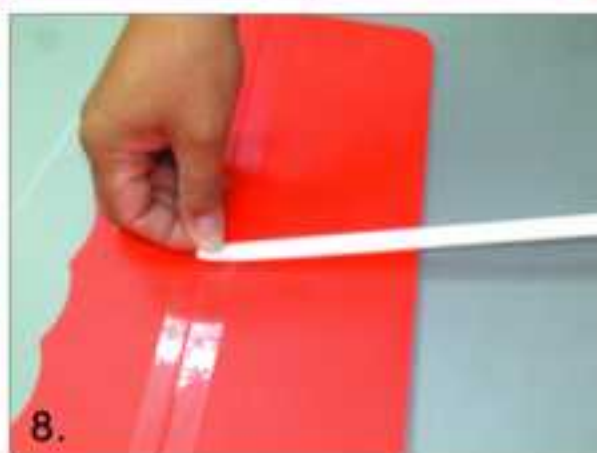
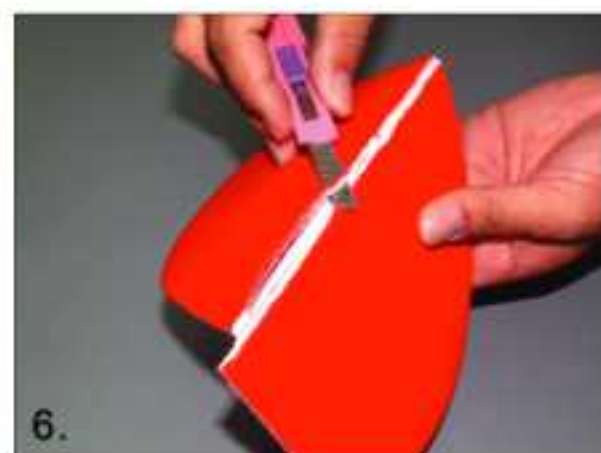
PREPARING TAIL SECTION FOR INSTALLATION

尾翼的組裝



1. Take the horizontal stabilizer and elevator from the box, and on the elevator leading edge, sand or cut a 40° angle on one side, then lay them on a flat surface and use the clear plastic tape on the opposite side to join the elevator and stabilizer, the tape will be the hinge for the elevator. (Pic.1,2,3)

- 使用長貼紙，黏貼於水平尾翼的正面(注意正反面)。(圖.1)
- 將多餘部分切除。(圖.2)
- 在舵面上切出四十度的角度。(圖.3)



2. Take the vertical stabilizer and rudder from the box and on the rudder leading edge, sand or cut a 40° angle on one side then lay them on a flat surface and use the clear plastic tape on the opposite side to join the rudder and stabilizer, the tape will be the hinge for the elevator. (Pic.4,5,6)

3. On the horizontal stabilizer along the hinge line measure $8 \frac{1}{8}$ " to find the center line and draw a 90° from the hinge line across the horizontal stabilizer. (Pic.7)

4. Take the double adhesive tape from the box and measure and cut a piece of $4 \frac{1}{4}$ " long, now peel the paper from one side of the tape and apply it to the center line of the horizontal stabilizer. (Pic.8,9)

5. Now peel the paper from the double adhesive tape on the horizontal stabilizer get the aluminum fuselage and carefully install it on the stabilizer. (Pic.10)

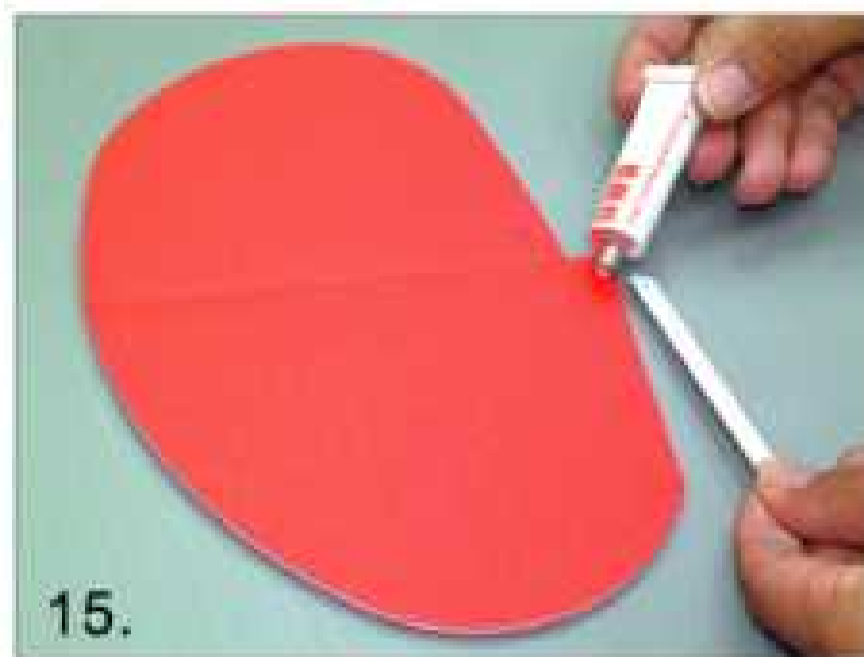
6. Apply double adhesive tape to the bottom edge of the vertical stabilizer and trim the excess, now apply the stabilizer to the end of fuselage. (Pic.11,12,13)

- 使用短貼紙，黏貼於垂直尾翼的正面(注意正反面)。(圖.4)
- 將多餘部分切除。(圖.5)
- 在舵面上切出四十五度的角度。(圖.6)
- 在切線20.6公分處劃上與切線垂直之中心線。(圖.7)
- 將雙面膠黏貼於正面中心線上。(圖.8)

- 將多餘部分切除。(圖.9)
- 將水平安定面與機身結合。(圖.10)
- 在垂直安定面下緣貼上雙面膠帶。(圖.11)
- 將多餘部分切除。(圖.12)
- 將垂直安定面與機身結合。(圖.13)

DISASSEMBLED TAIL INSTALLATION

尾翼的組裝



1. Use GWS glue to bond the white gussets to the horizontal and vertical stabilizers. (Pic.14,15) Use a 1 mm drill bit and drill the four holes for the screws to hold the horizontal and vertical stabilizers and install the screws. (Pic.16,17,18,19)

- 將固定片用保利龍膠黏貼於水平尾翼下方。(圖.14)
- 第二片黏貼於垂直下緣。(圖.15)
- 使用1mm電鑽於方管鑽孔。(注意方管尾端須貼近水平尾翼折線處.圖.16)。
- 鎖上螺絲。(圖.17)
- 在垂直尾翼固定片上鑽孔。(圖.18)
- 鎖上螺絲。(圖.19)

DISASSEMBLED TAIL SET

尾翼的組裝

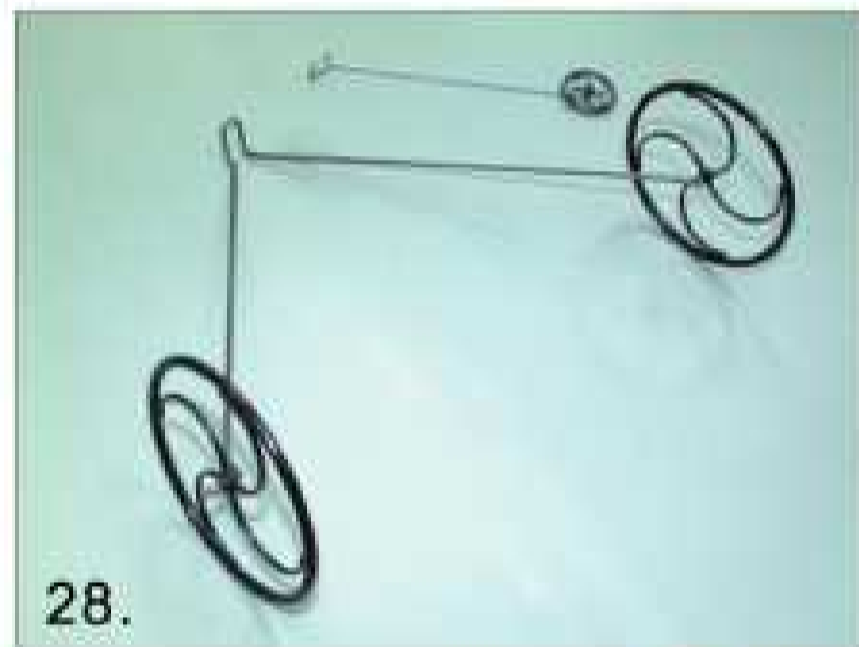
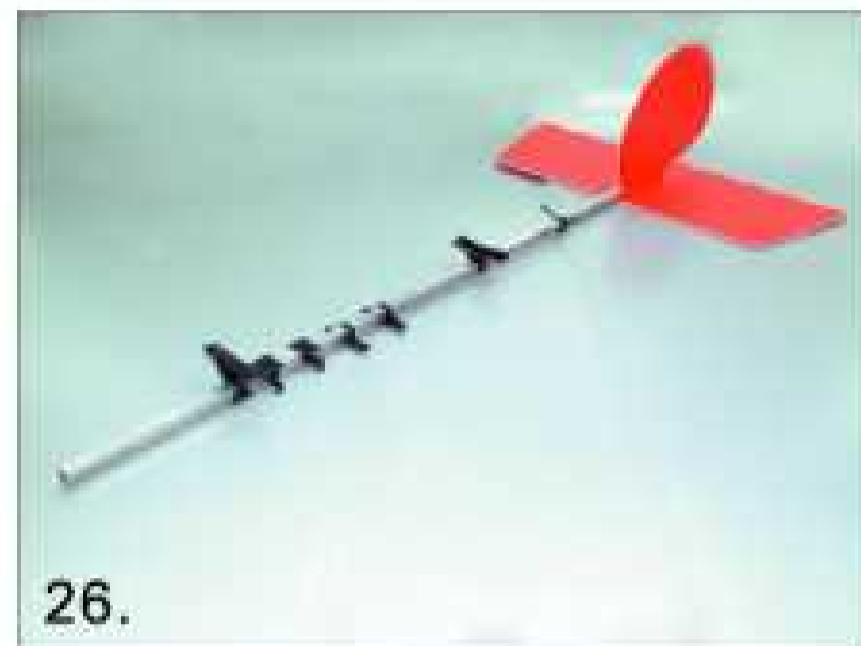


1. Using hacksaw, cut the fuselage tube in two parts. (Pic.20)
2. Install the tube connector. (Part # 6) To join the two pieces of the tube, be sure to keep the joined point in the middle of the connector. (Pic.21)
3. Use electric drill and 1 mm bit to drill a hole on each side of connector and tube as shown in the picture above. (Pic.22)
4. Use 1.4 x 10 mm tap screw to secure the connector to tube. (Pic.23)

- 用鋸子將機身尾部鋸開。(圖.20)
- 將鋸開的鋁製機身套入塑膠的連接器中。(圖.21)
- 用電鑽鑽個1mm的孔。(圖.22)
- 鎖上1.4x10mm的自攻螺絲固定。(圖.23)

FUSELAGE & WING ASSEMBLY

機身與機翼的組裝



1. Using a cutting nipper, cut off the plastic parts from the plastic parts frame "D". (Pic.24)
2. Cut off the plastic parts from frame "D", one at a time and install them in the order and orientation shown. (Pic.25,26)
3. Install the wheels on the main landing gear, secure using parts "A-3". (Pic.27)
4. Install the wheel on the tail wheel support, secure using parts "A-4". (Pic.28)
5. Connect the main landing gear to part 1. (Pic.29)

6. Connect the tail wheel to part 5. (Pic.30)
7. Now the Slow Stick will stand by it's self. (Pic.31)
8. Use GWS glue or a small screw to secure the motor to the fuselage. (Pic.32)
9. Correct installation of power system. (Pic.32)

- 使用斜口鉗剪下零件組D之零件。(圖.24,25)
- 請依正確順序將零件放入機身桿。(請參考圖26)
- 將輪子裝入輪架，並用尖嘴鉗固定零件A-3，
- 以防輪子脫落。(圖.27)
- 完成圖。(圖.28)。

- 將主輪架裝入零件1。(圖.29)
- 將尾輪架裝入零件5。(圖.30)
- 完成圖。(圖.31)
- 在裝上動力組前，塗上適量膠水。(圖.32)
- 漿和零件間的距離需適當。(圖.33)

FUSELAGE & WING ASSEMBLY

機身與機翼的組裝



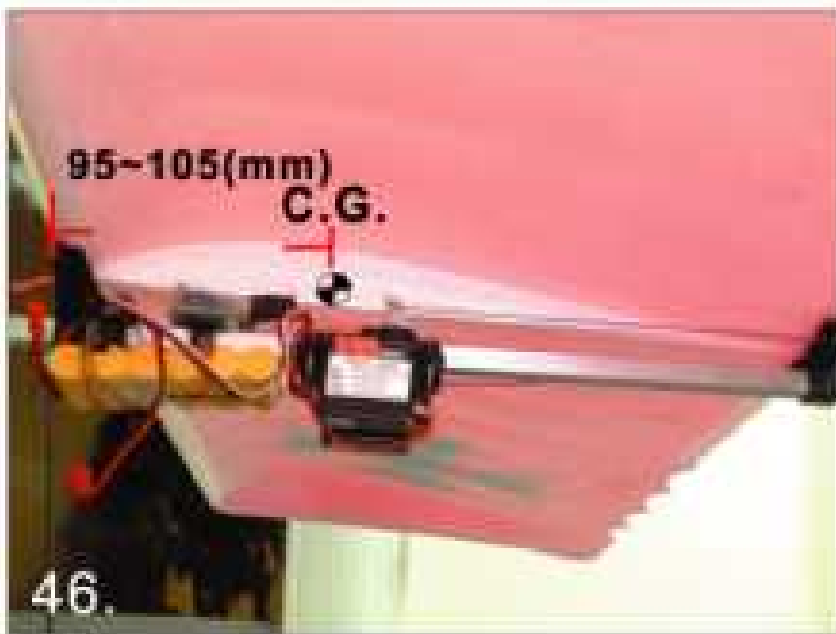
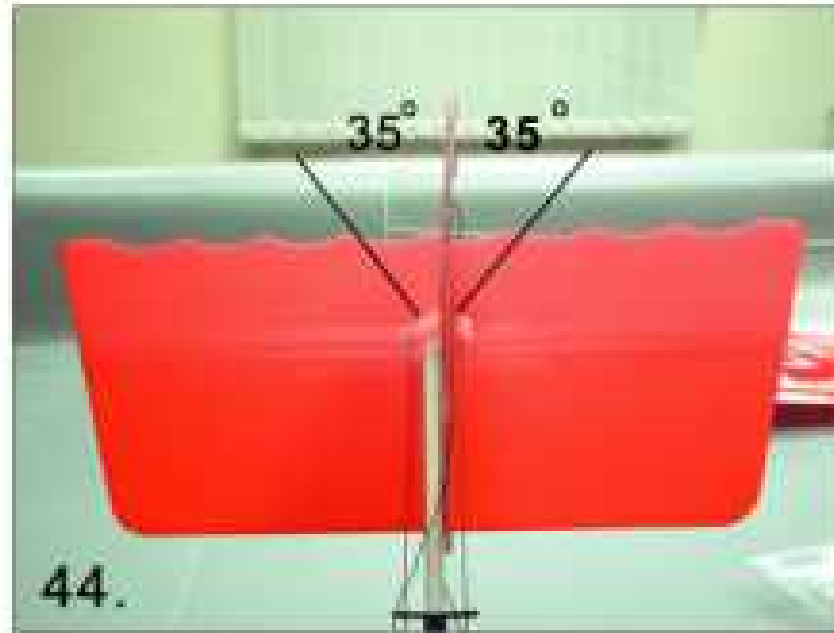
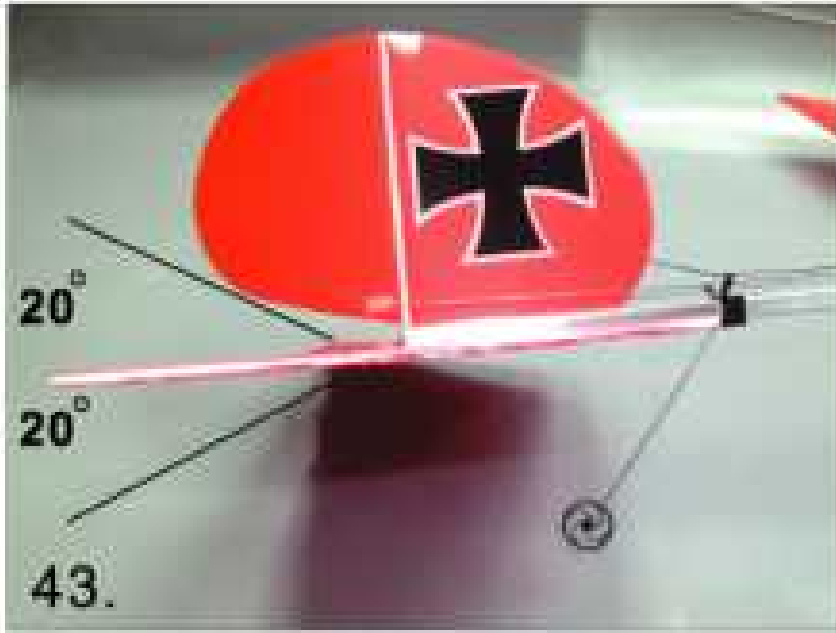
10. Open the wing (it's folded in two) and join the center part with a long piece of clear tape, making sure to get the biggest dihedral possible and trim the excess tape (Pic.34,35)
12. Join the fiber glass rods using the aluminum tubes. (Pic.36)
13. Use the short clear tape to secure the short fiber glass rod to the trailing edge of the wing (Pic.37) Use the long clear tape to secure the short fiber glass rod to the leading edge of the wing (Pic.38)
14. Use pliers to connect the control horn to the push pull rods. (Pic.39)
15. Insert the control horns on the rudder and elevator. (Pic.40)
16. The tail assembly should now look like the photo. (Pic.41)
17. Install the speed control, receiver, servos and battery. (Pic.42)

- 將主翼折成最大上反角並貼上膠帶。(圖.34)
- 剪掉多餘的膠帶。(圖.35)
- 透過鋁管將玻纖棒連接起來。(圖.36)
- 使用短貼紙將短玻纖棒固定於後緣。(圖.37)
- 使用長貼紙將長玻纖棒固定於前緣。(圖.38)

- 使用尖嘴鉗將固定舵角片與推拉桿。(圖.39)
- 套上水平、垂直翼上的舵角片。(圖.40)
- 尾部完成圖。(圖.41)
- 伺服器擺臂與推拉桿結合。(圖.42)

BALANCE LOCATION

重心位置與調整



1. Adjust the elevator travel to 25° up and 20° down. (Pic.43)
2. Adjust the rudder travel to 35° both sides. (Pic.44)
3. Use multiple rubber bands to connect the wing to the fuselage. (Pic.45)
4. After the radio system is installed and the control travel has been set Adjust the CENTER OF GRAVITY (CG) By moving the battery mount and the servo mount forward or back until the plane balances at approximately 4 1/8" (105 mm) from the leading edge of the wing with the EPS150C or EPS300C power system.

For the EDP-400/EPS400 power system adjust the CG to approximately 3 3/4" (95mm) from the leading edge, you must move the wing forward or backward to achieve final balance. (Pic.46)

- 將升降舵角度調整在上下各20°~25°。(圖.43)
- 將方向舵角度調整在左右各35°。(圖.44)

- 把兩條橡皮筋結合在一起，固定主翼和機身。(圖.45)
- 飛機重心如圖所標示。(圖.46)

RADIO GEAR INSTALLATION WIRING AND CONNECTION

發射機(遙控器)功能說明與調整設定

(GWS/JR/SANWA) RADIO SYSTEM 遙控系統



- Ch1. Throttle 油門
(Electronic Speed Controller 電子變速器)
- Ch2. Aileron 副翼
- Ch3. Elevator 升降舵
- Ch4. Rudder 方向舵
(Nose Steering 鼻輪轉向)



(Futaba / Hitec) RADIO SYSTEM 遙控系統



- Ch1. Aileron 副翼
- Ch2. Elevator 升降舵
- Ch3. Throttle 油門
(Electronic Speed Controller 電子變速器)
- Ch4. Rudder 方向舵
(Nose Steering 鼻輪轉向)

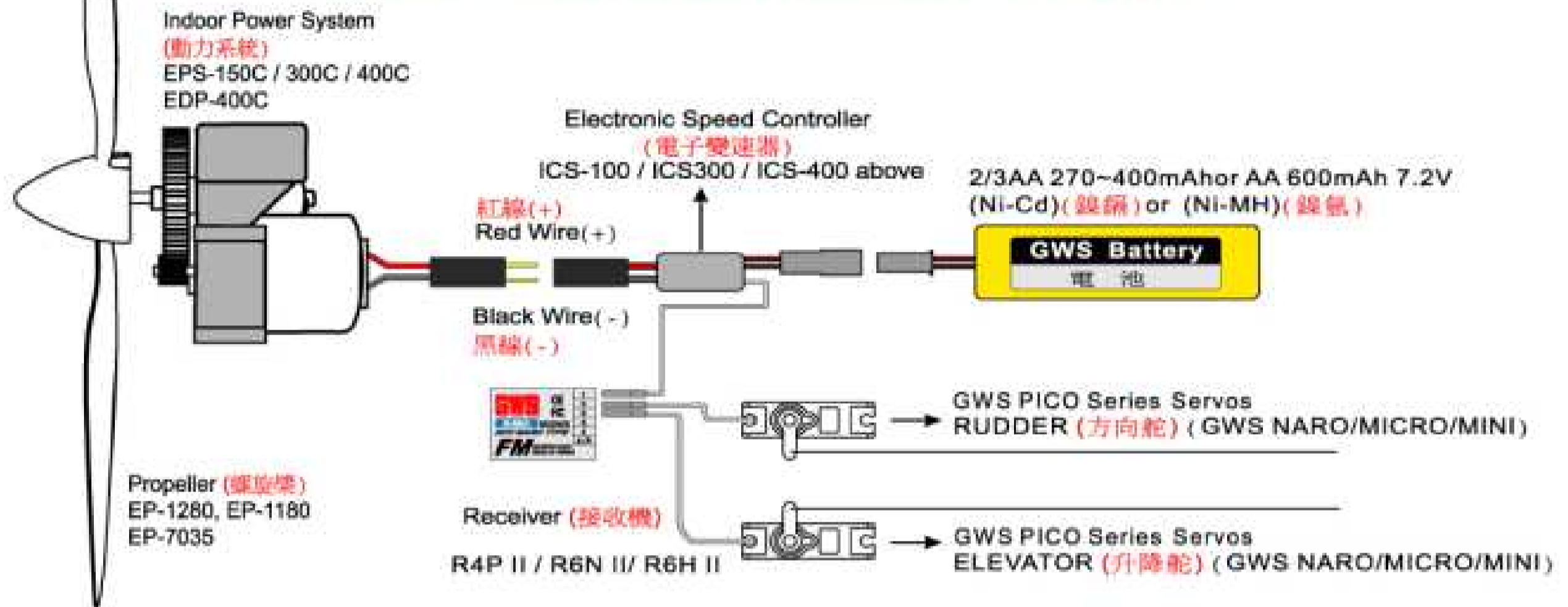


- Crystal installation. (Pic. A,B)
- 接線晶體的組裝。(圖. A,B)

Electric Accessories Wire Installation Diagram 參考線路配件圖：

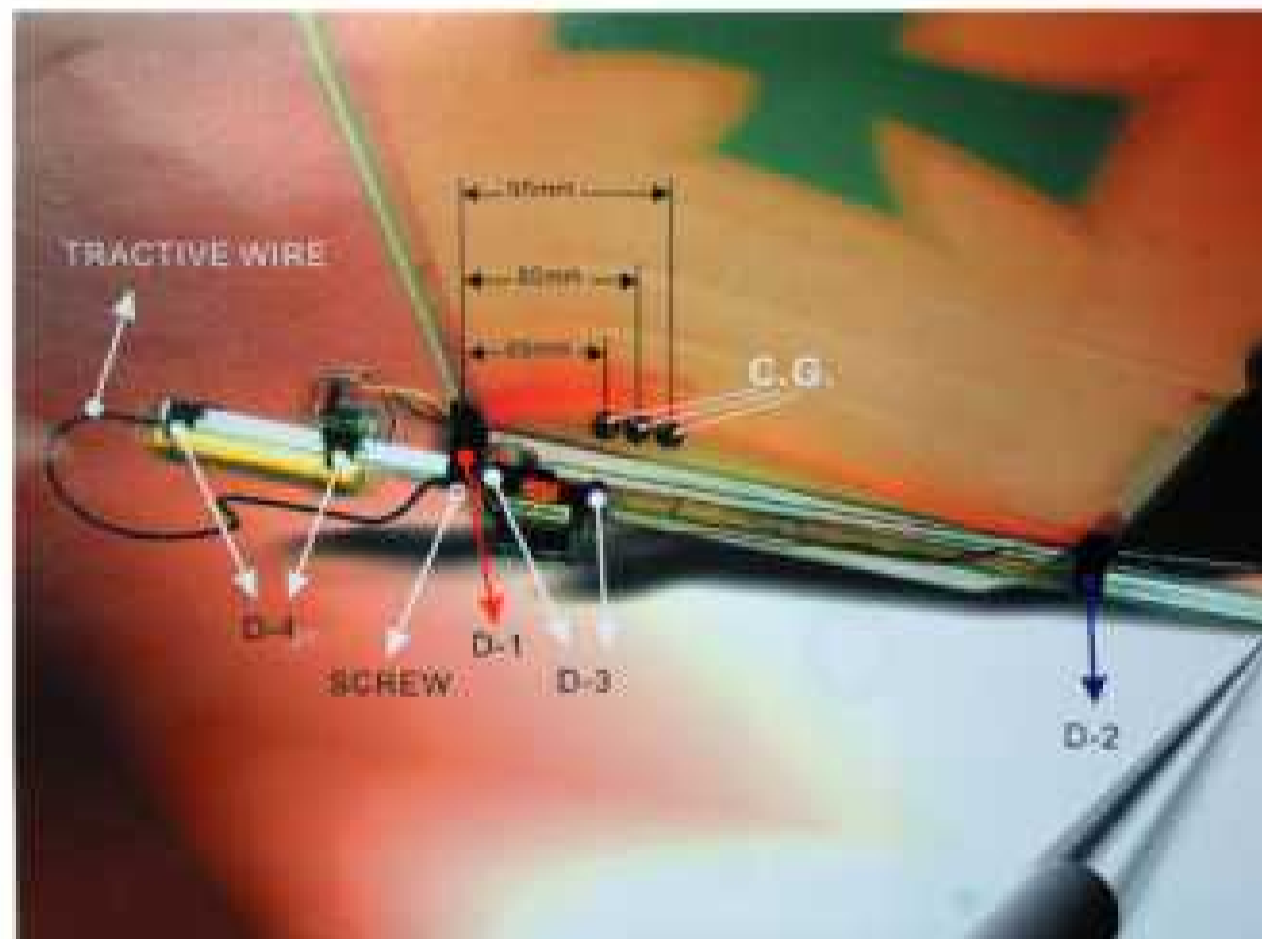
CAUTION: Before installation, please read this instruction carefully. Please follow the above showing wire diagram to connect the wire and be sure the servos are in neutral position. When you are testing the servos, please do not connect motor wire and be sure to turn on transmitter first.

注意事項：(1)安裝前請先詳閱各元件使用說明。
(2)安裝前請先依以上配置線路將伺服機中立點規正。
(3)安裝伺服機測試前，請先不要接動力組電源，並請先開發射機電源，再接通接收機電源。



GLIDER VERSION ASSEMBLY

滑翔機版組裝設定



- For the correct placement of parts, please refer to the scheme shown on the picture.
Note : Do not cut anything from the push rod! You will need full length of the push rod.
- Balance and battery pack location.
 - You will need to move the C.G. position at 65 mm from the leading edge of main wing in strong wind.
 - You may move the C.G. position at 80 mm from the leading edge of main wing in moderate breeze.
 - We recommend that you will need to move the C.G. position at 95 mm from the leading edge, in gentle breeze.**Note :** The C.G. is very critical and it is important that you check and confirm the location for yourself before flying. Battery and other parts may affect this position.
- We highly recommend GWS 4.8~6.0V AA 600 mAh Ni-Cd or Ni-MH battery.
CAUTION! To prevent battery and equipment being damaged, do not use the power supply more than 6V.
- You will need to fix the tractive wire with screws when you are launching your airplane by rope or elastic rubber band traction.

RADIO SETTING

遙控器的設定

MODE 2

- The right side stick of the transmitter (elevator and aileron)
- The left side stick of the transmitter (throttle and nose steering)

ELEVATOR TEST

- Pull the stick backward, the elevator should flip up (pull-up).
- Push the stick forward, the elevator should flip down (pushing down).
- When the stick is in neutral, the elevator should return to neutral position.

AILERON TEST

- Move the stick to right, the right side aileron should flip up and the left side aileron should flip down.
- Move the stick to left, the right side aileron should flip down and the left side aileron should flip up.
- When the stick is in neutral, the two ailerons should return to neutral position.

THROTTLE TEST

- Pull the stick all the way backward and the trimmer at the 1/3 position, wait for 2 seconds.
- Slowly push the stick forward and the power system starts to run. Now push the throttle all the way forward and the motor should run at full throttle.
- Pull the stick all the way backward and the motor should stop.

MODE 1

- The right side stick of the transmitter (throttle and aileron)
- The left side stick of the transmitter (elevator and nose steering)
- If the control fin or throttle moves in the wrong direction, please switch the reverse on the transmitter.

模式一 (歐亞規格)

- 發射機右側操縱桿之功能為：副翼和油門。
- 發射機左側操縱桿之功能為：升降舵和方向舵(包含轉向輪)。

(副翼測試)：

- 操縱桿往右邊移動，飛機右邊的副翼應往上擺動，而左邊副翼向下擺動。
- 操縱桿往左邊移動，飛機右邊的副翼應向下擺動，而左邊副翼往上擺動。
- 操縱桿回到中立點時，兩邊的副翼應該都回到原來的位置。

(油門測試)：

- 操縱桿往後拉到底，微調於1/3的位置，等待2秒鐘。
- 慢慢的將操縱桿往前推，動力系統開始運轉。之後再推到最前方，動力系統達到最高轉速。
- 再將操縱桿往後拉到底，動力系統應該完全停止轉動。

(升降舵測試)：

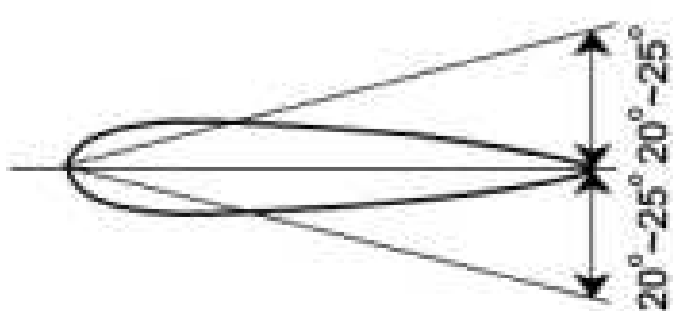
- 操縱桿往後拉，升降舵應往上擺動。
- 操縱桿往前推，升降舵應向下擺動。
- 操縱桿回到中立點時，升降舵應該回到原來的位置。

模式二 (美規)

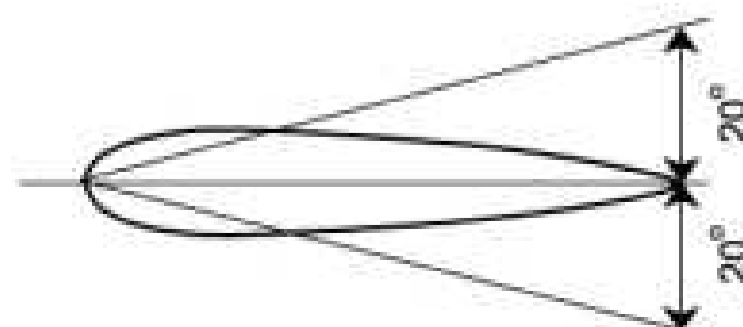
- 發射機右側操縱桿之功能為：副翼和升降舵。
- 如果控制舵面或是油門動作不在正確的方向，請使用發射機上的正逆轉開關來校正。
- 發射機左側操縱桿之功能為：油門和方向舵(包含轉向輪)。

(SUGGEST CONTROL THROW SETTING) 各舵面行程大小

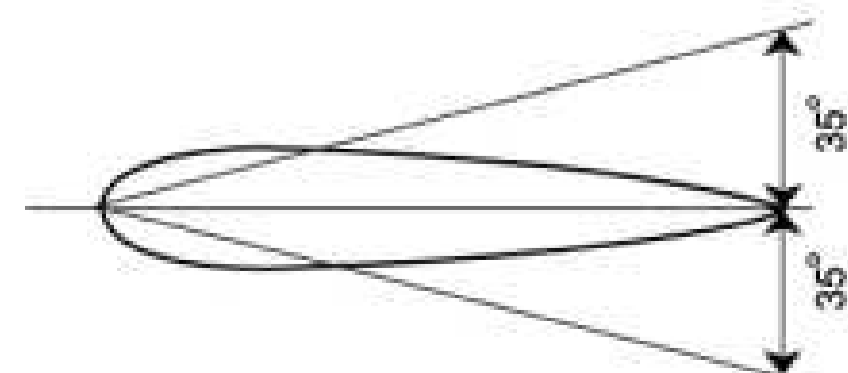
(1) Elevator 升降舵



(2) Aileron 副翼



(3) Rudder 方向舵



CAUTION:

1. It is best for you to fly your plane in a large open place.
2. Do not fly around restricted locations like airports, military bases, etc.
3. You will need to range check for the transmitter to be sure you will not experience any interference (If you are flying with other RC modeler at a field, do not turn on your transmitter until you are certain that no one else is using your channel)
4. Always turn on the transmitter first then turn on the receiver. Shut off the receiver first before turning off the transmitter.
5. If you are only a beginner to the radio control model flying, do not attempt to fly your model without any assistance or advice from advanced expert flyers.
6. Please refer to this instruction guide carefully and thoroughly before assembling equipment kits. Different power units and servos combination will lead to various flight performance. Remember the lighter the better.
7. Watch the wind direction.

