FINESSE MAX

ALPS AND OR F3Q VERSION SAILPLANE

Technical data:

Wingspan: 4.01m
Length: 1.865m
TO weight: 3.9 / 5.0kg (ballast)
Wing area: 86.2dm^2
Airfoil: SPECIAL 1/9>1/8

ADV For advanced modellers

Related items:

RC set:

Ailerons:	2 servo Futaba S3173 or KST X10
Elevator:	1servo Futaba S3173 or KST X10
Rudder:	1 servo Futaba S3173 or KST X10
Flaps:	2 servos Futaba S3173 or KST X10
Tow hook:	1 servo Futaba S3173 or KST X10
Rx battery pack:	1 pack XPower Xtreme 60C 7.4V 5000mAh MPX male
Divers:	See the detail list page 6.

CAUTION !
This model construction kit is not a toy and is not suitable for children under the age of 14.
Incorrect use of this material could cause material damage ou personal injury.
You are fully responsible for your actions when you use this model.
Fly at a safe distance from occupied zones.
Be sure that no one else is using the same frequency as you.

Valentamodel

THANK YOU for your purchase of the all molded competition sailplane CINE Max!
We made a main effort while drawing and building this sailplane so that it is the best model you ever built and fly.
We provide you a kit with the highest quality and the best possible performances.
We wish you a great success while assembling and flying your new Cine Max Valentamodel.

This model is manufactured for sport flying in Alps mountains or other mountains. It is suitable for slope flying
Easy to operate and very elegant, the Cine Max is of course a all-composite glider (glass, carbon and kevlar), equipped with camber flaps and manufactured according to the latest technologies with the greatest care.
For leisure purpose, it is also possible to power her with an electric motor for modelers who are looking for a very power her with an electric motor for modelers who are looking for a very powerful and versatile glider and which «works hard» everywhere, on the flat as at the slope.

IMPORTANT: Please take a few moments to read this instruction manual before beginning assembly.
Do an inventory of the parts using the parts list, to control that there is no lack or imperfection.
Thank you to contact VALENTA MODEL immediately, if you note a missing part or a damaged part.

WARRANTY: It is important to notify to VALENTA MODEL all damage or problems with this model within 14 days following the reception of the kit to be able to benefit the warranty. In the event of return of the model, the customer is responsible for transport and return shipping cost is at his expenses. In the event of defect, the part will be exchanged or replaced once this one will be delivered to VALENTA MODEL for expertise (transport on your cost). In the event of problem, do not hesitate to contact VALENTA MODEL.
VALENTA MODEL cannot control the dexterity of the modeler and cannot influence the builder during the assembly or the use of this radiocontrolled model, thus VALENTA MODEL will in no way accept or assume responsability or liability for damages resulting from the use of this user assembled product.

The purchaser/user accepts all the responsibilities in the event of structural or mechanical problems.

Attention:

KIT CONTENT

WINGS PARTS

(A) Wing (with aileron and flap)	(L/R) 1 each
(B) Carbon wing joiner	1
(C) Ailerons servo tray (CNC machined plywood)	2
(D) Ailerons pushrod (fiberglass)	2
(E) Ailerons IDS servo arm (plastic or laminate)	2
(F) Ailerons servo arm axis (treated steel)	2
(G) Ailerons servo ball bearing	2
(H) Ailerons servo bearing (fiberglass)	2
(I) Ailerons control horn axis (treated steel)	2
(J) Flaps servo tray (CNC machined plywood)	2
(K) Flaps pushrod (fiberglass)	2
(L) Flaps IDS servo arm (plastic or laminate)	2
(M) Flaps servo arm axis (treated steel)	2
(N) Flaps servo ball bearing	2
(O) Flaps servo bearing (fiberglass)	2
(P) Flaps control horn axis (treated steel)	2
(Q) Ailerons servo hatch (carbonfiber)	2
(R) Flaps servo hatch (carbonfiber)	2
(S) MPX male connector	2
(T) MPX female connector	2

HORIZONTAL EMPENNAGE PARTS

(A) Horizontal empennage (with ball control horn in place)	1
(B) Hor. empennage attachment (CS M4x15mm)	2
© Elevator servo tray (CNC machined plywood)	1
(D) Elevator pushrod (carbon tube)	1
(E) Elevator IDS servo arm (plastic or laminate)	1
(F) Elevator servo arm axis (treated steel)	1
(G) Elevator servo ball bearing	1
(H) Elevator servo bearing (fiberglass)	1
(I) M2 ball clevis	1
(J) M2 threaded coupler	1
(K) Elevator IDS special clevis (fiberglass)	1
(L) M3 threaded rod (L=40mm)	1
(M) Elevator servo hatch (carbonfiber)	1

FUSELAGE PARTS RUDDER

(A) Fuselage	1
(B) Rudder	1
(C) Rudder upper axle	1
(D) Rudder upper bearing	1
(E) Rudder lower axle	1
(F) Rudder lower bearing	1
(G) M2 ball clevis	1
(H) M2 thread coupler	1
(I) Rudder control horn (ball)	1
(J) Rudder inner control (1.5mm music wire)	1

FUSELAGE PARTS WHEEL AND RC

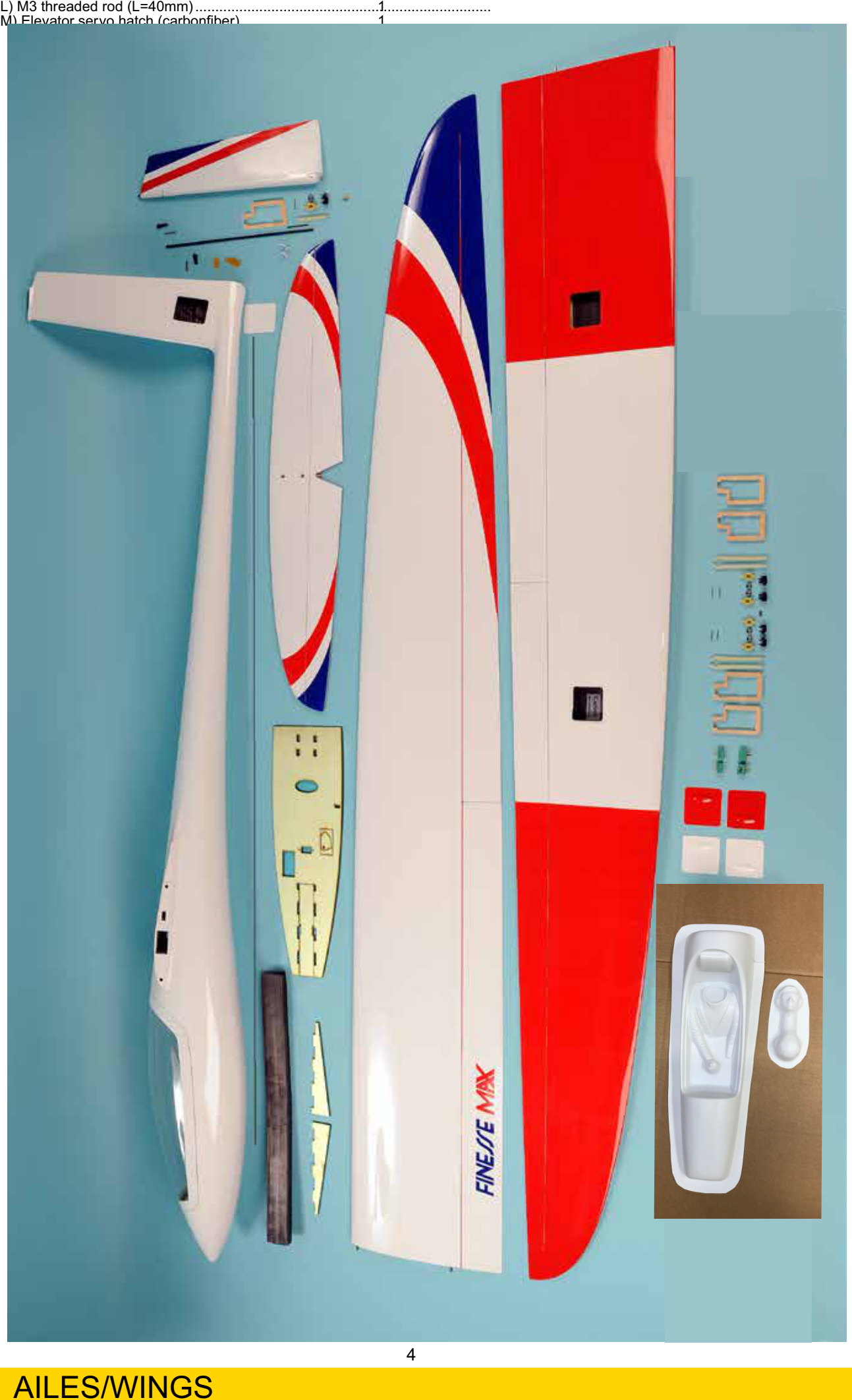
(A) Wheel	1
(B) Wheel holder assembly (plywood)	1 set
(C) Wheel axle (music wire)	1
(D) Wheel stopper	2 sets
(E) Radio tray (plywood)	1 set
(F) Radio tray support	2

COCKPIT PARTS

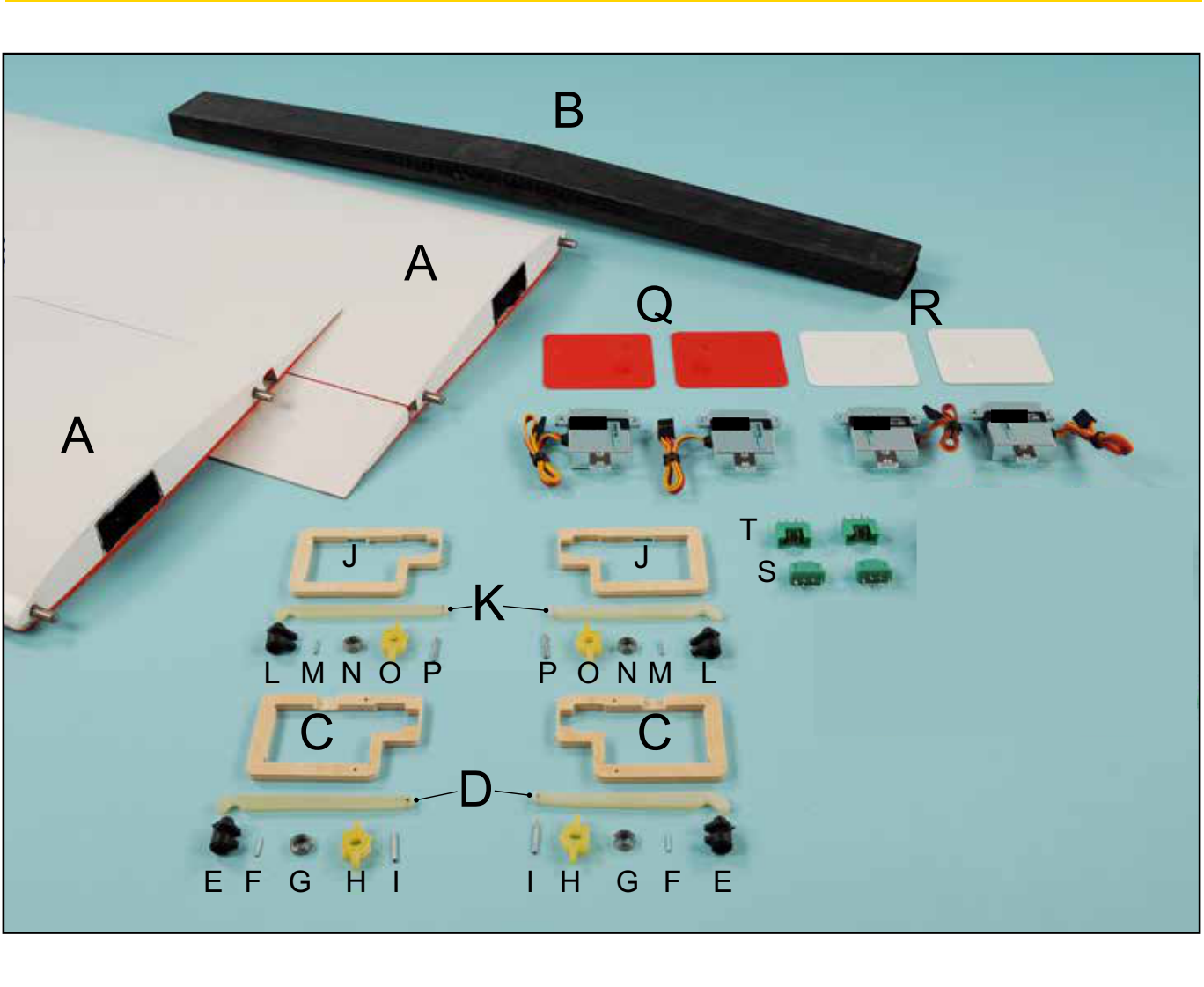
(A) Canopy and canopy frame	1 set
(B) Seat (ABS)	1
(C) Casquette tableau de bord (ABS)	1
(D) Instrument panel (hard plastic CNC machined)	1
(E) Flying instruments (sticker)	1 set

VARIOUS

Construction manual	1

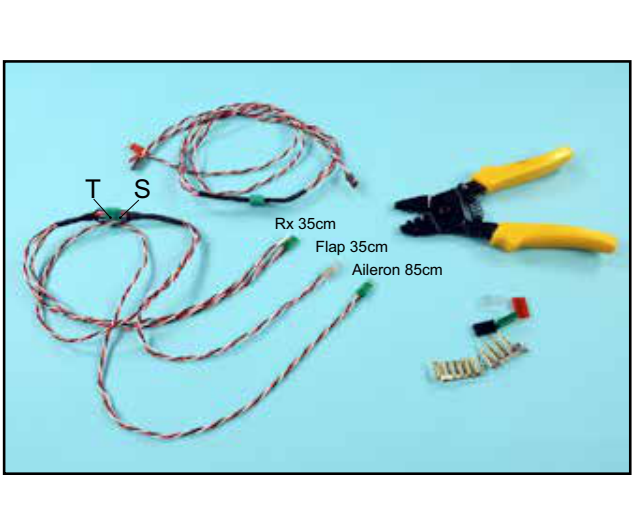


AILES/WINGS

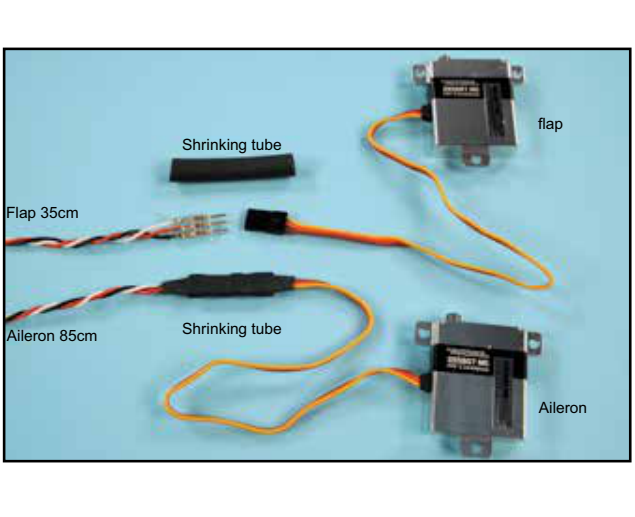


PIECES AILES		H WINGS PARTS	
(A) Aile (avec aileron et volet)	(G/D) 1 de chaque	(A) Wing (with aileron and lap)	(L/R) 1 each
(B) Clé d'aile carbone	1	(B) Carbon wing joiner	1
(C) Platine servo ailerons (CTP usiné CNC)	2	(C) Ailerons servo tray (CNC machined plywood)	2
(D) Tringlerie ailerons (ibre de verre)	2	(D) Ailerons pushrod (iberglass)	2
(E) Bras IDS servo ailerons (plastique)	2	(E) Ailerons IDS servo arm (plastic)	2
(F) Axe bras servo ailerons (acier traité)	2	(F) Ailerons servo arm axis (treated steel)	2
(G) Roulement à billes palier servo ailerons	2	(G) Ailerons servo ball bearing	2
(H) Palier servo ailerons (ibre de verre)	2	(H) Ailerons servo bearing (iberglass)	2
(I) Axe guignol ailerons (acier traité)	2	(I) Ailerons control horn axis (treated steel)	2
(J) Platine servo volets (CTP usiné CNC)	2	(J) Flaps servo tray (CNC machined plywood)	2
(K) Tringlerie volets(ibre de verre)	2	(K) Flaps pushrod (iberglass)	2
(L) Bras IDS servo volets (plastique)	2	(L) Flaps IDS servo arm (plastic)	2
(M) Axe bras servo volets (acier traité)	2	(M) Flaps servo arm axis (treated steel)	2
(N) Roulement à billes palier servo volets	2	(N) Flaps servo ball bearing	2
(O) Palier servo volets (ibre de verre)	2	(O) Flaps servo bearing (iberglass)	2
(P) Axe guignol volets (acier traité)	2	(P) Flaps control horn axis (treated steel)	2
(Q) Trappe servo ailerons (ibre de carbone)	2	(Q) Ailerons servo hatch (carboniber)	2
(R) Trappe servo volets (ibre de carbone)	2	(R) Flaps servo hatch (carboniber)	2
(S) Prise mâle MPX	2	(S) MPX male connector	2
(T) Prise femelle MPX	2	(T) MPX female connector	2
I Servo ailerons et volets (DS5607 MG)	2+2	I Ailerons and laps servo (DS5607 MG)	2+2
I Fil torsadé servo	3,8m env.	I Twisted servo cable	approx. 3.8m
I Connecteur servo couleur à monter	4	I Male color connector	4
I Connecteur femelle couleur à monter	4	I Female color connector	4

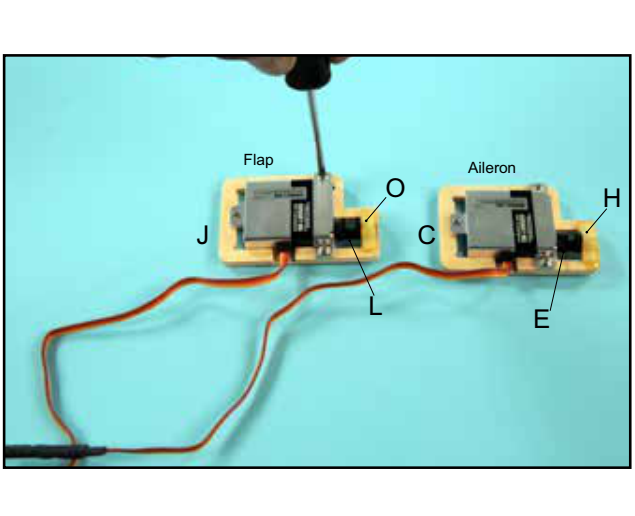
WINGS (manual)



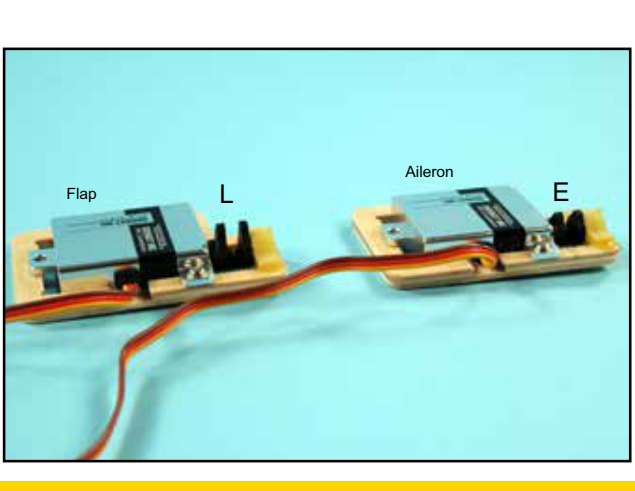
1)Fabricate the ailerons extensions (2x85cm long) and laps (2x35cm long). Do not mount the plastic housings of the sockets. At the same time, take advantage to make the extensions between the wings and the receiver (length 35cm, see photo11 page17).



2)Connect the extensions to the ailerons servos with correct polarity and then secure with a piece of heat shrink sleeve.

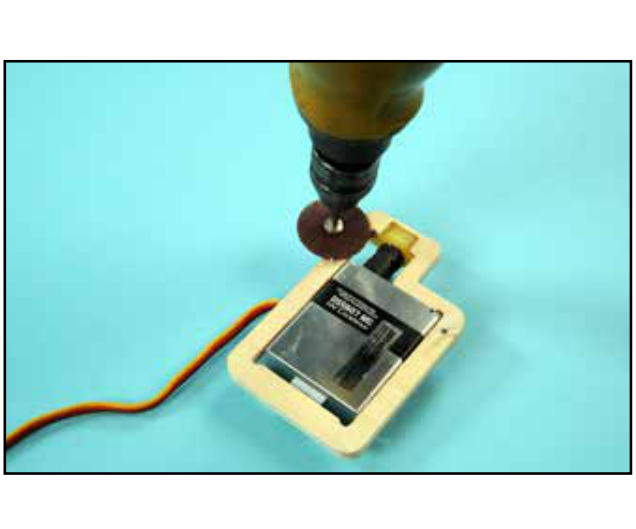


3) Then screw the aileron and lap servos with the IDS arms centered on the plywood tray, the iberglass bearing with the ball bearing will be glued with epoxy adhesive. Be sure to select the proper IDS servo arm...



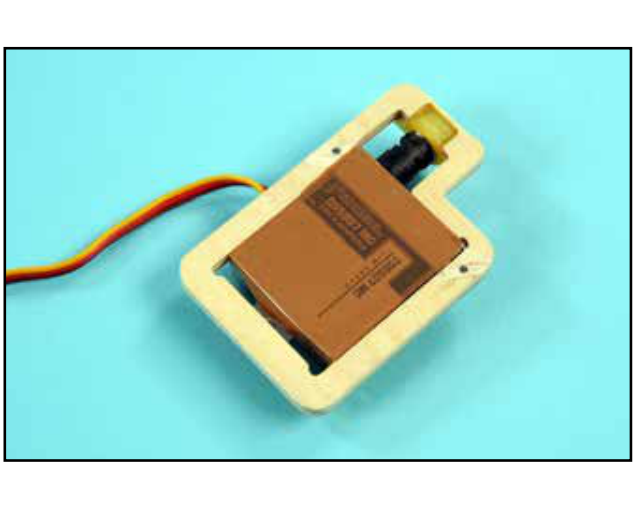
4)on the picture, on the right, the aileron servo with the short IDS arm (E), on the left the lap servo with the longer IDS arm (L).

WINGS (manual)

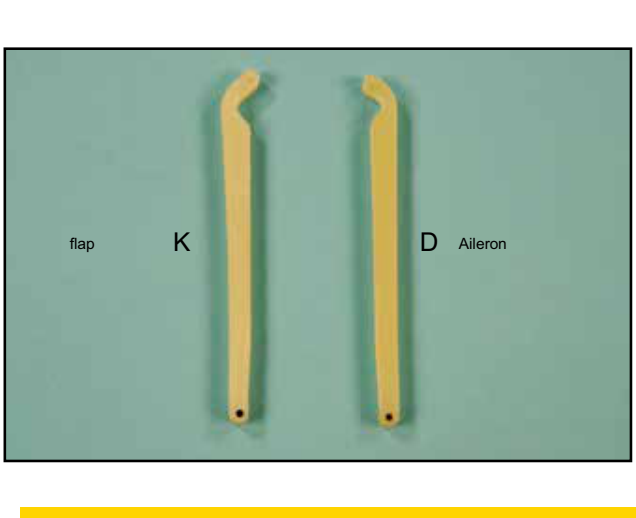


5) Cut the ends of the fastening screws that protrude from the ply frames.

6)For a better grip, roughen the inside of the wing at the bonding area of the servo frame.

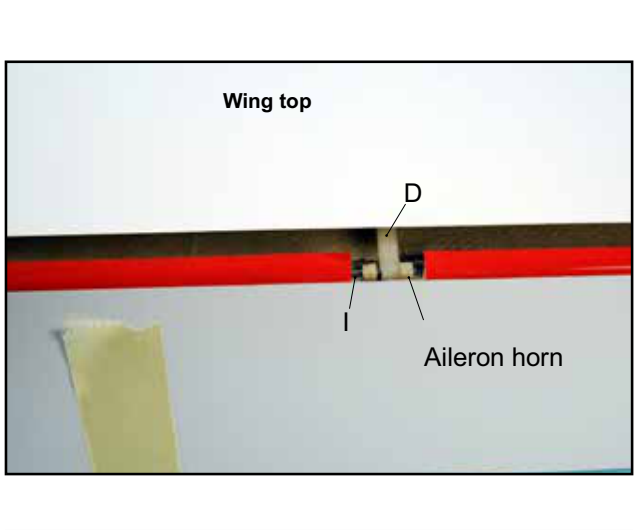


7) Protect the servo with packing tape, which will make it easier to disassemble later (if necessary...).

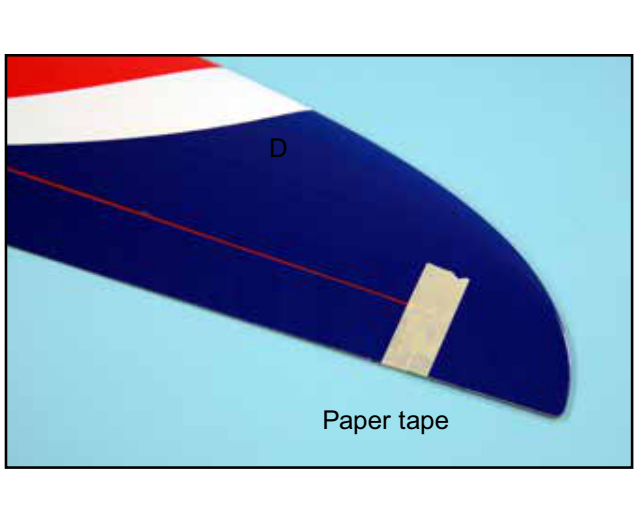


8)On the right hand side, aileron pushrod, at left hand side, laps pushrod, connect them on their respective servo using the steel shaft F and M ...

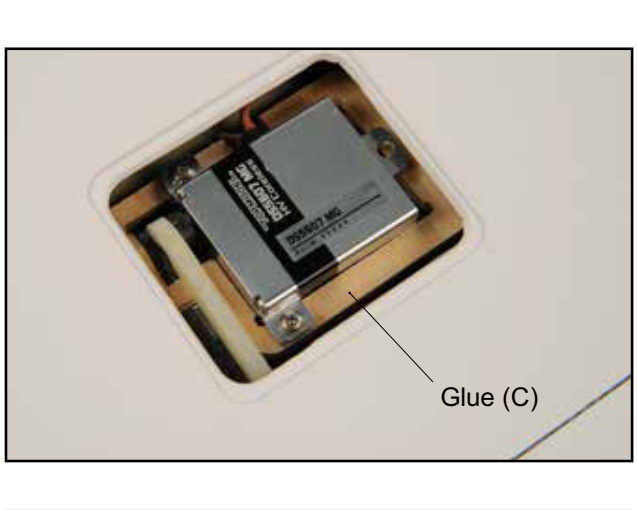
WINGS (manual)



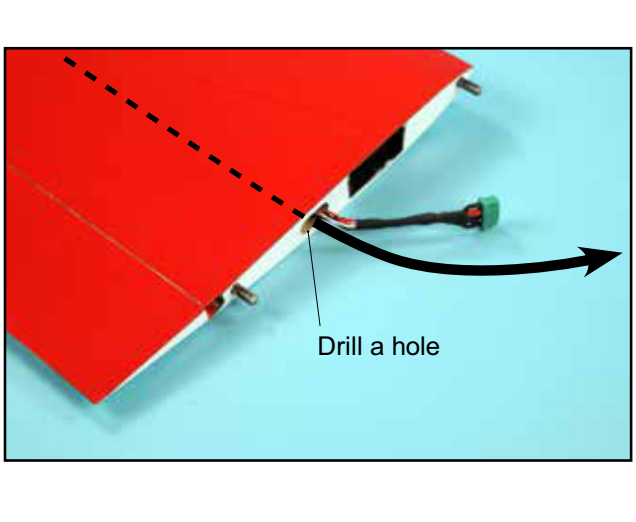
9)Start with the aileron: insert the assembly into the servo housing and connect the linkage (D) to the horn integrated into the control surface using the spindle (I). This step requires a lot of care so as not to damage the leading edge of the control surface. It should be carefully lowered and held with paper tape to allow space for this operation.



10)Then center the aileron and secure it with paper tape.

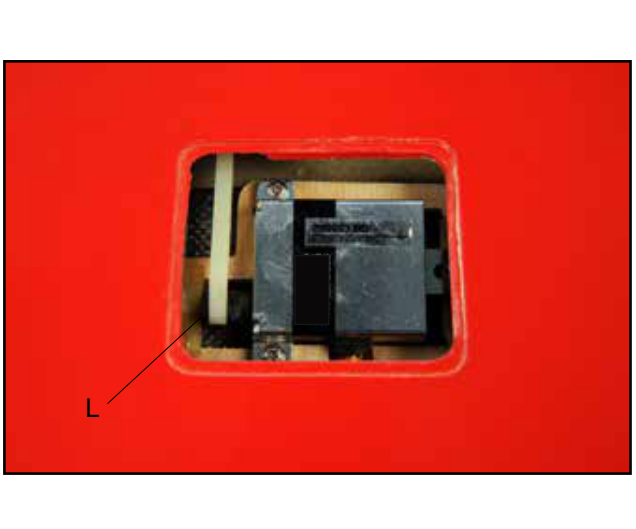


11)Then glue the servo frame (C) into the wing with epoxy glue. Make sure that the servo is always at neutral position.
!!! Be careful not to mark the top skin of the wing by sticking the servo !!!

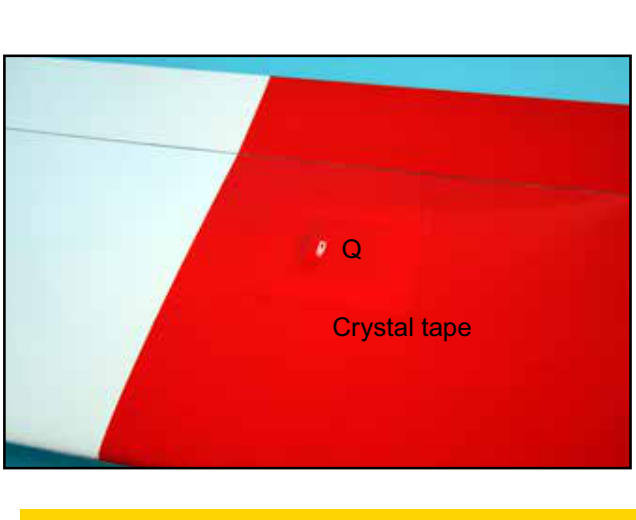


12)Drill a hole as show through root rib. Then route the servo extension through the wing from the aileron servo well to the root.

WINGS(manual)

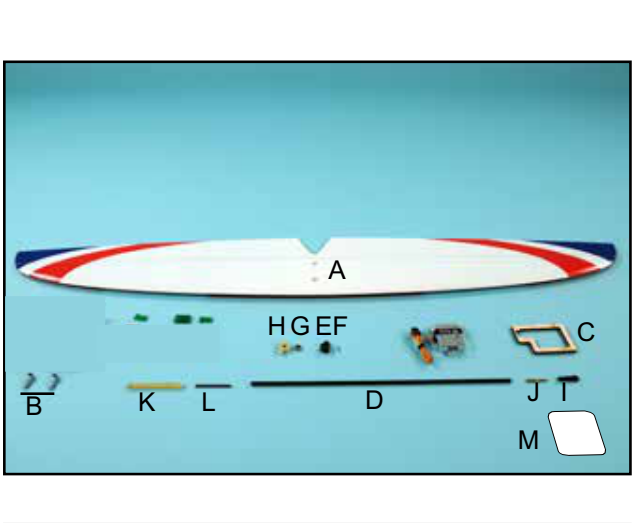


13)Repeat these steps for the lap servo by irst connecting the extension and then adjusting the position of the servo arm (L) according to the setting of the butterly of your transmitter. It can be seen here that the servo arm is inclined approximately 30 ° towards the front when lap is centered.



14)Adjust and ix the aileron (Q) and lap (R) covers with crystal tape.

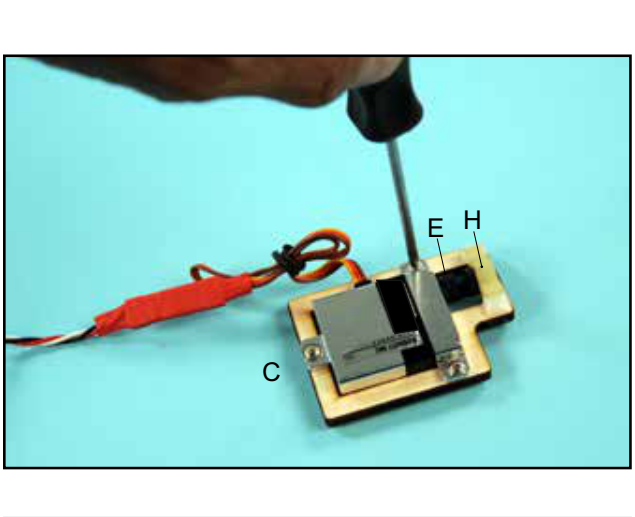
HORIZONTAL EMPENNAGE



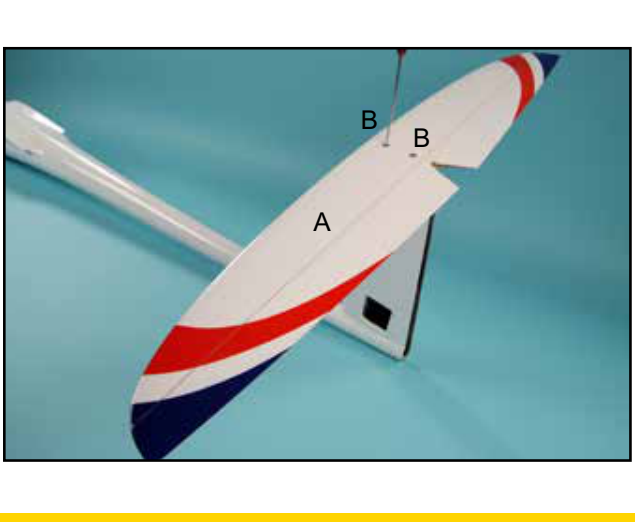
HORIZONTAL EMPENNAGE PARTS

(A) Horizontal empennage (with ball control horn in place)	1
(B) Hor. empennage attachment (CS M4x15mm). ...	2
(C) Elevator servo tray (CNC machined plywood)....	1
(D) Elevator pushrod (carbon tube)	1
(E) Elevator IDS servo arm (plastic)	1
(F) Elevator servo arm axis (treated steel)	1
(G) Elevator servo ball bearing	1
(H) Elevator servo bearing (iberglass)	1
(I) M2 ball clevis	1
(J) M2 threaded coupler	1
(K) Elevator IDS special clevis (iberglass)	1
(L) M3 threaded rod (L=40mm)	1
(M) Elevator servo hatch (carboniber)	1
I Twisted servo cable	approx.1m
I Male color connector	1
I Female color connector	1

1)Make an extension (115 cm long) and connect to the elevator servo.

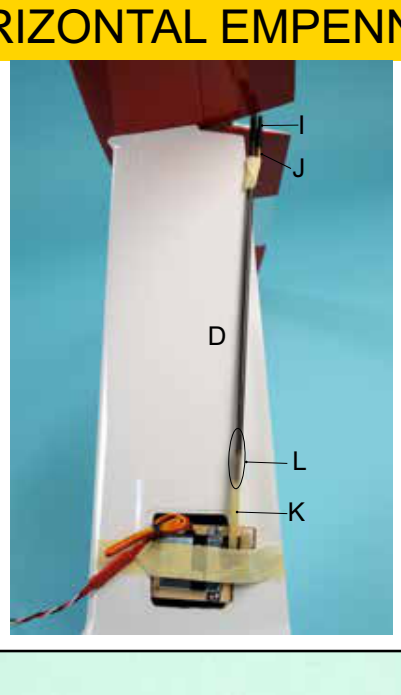


2)Servo centered, attach it to its frame (C) with 2 self-tapping screws.

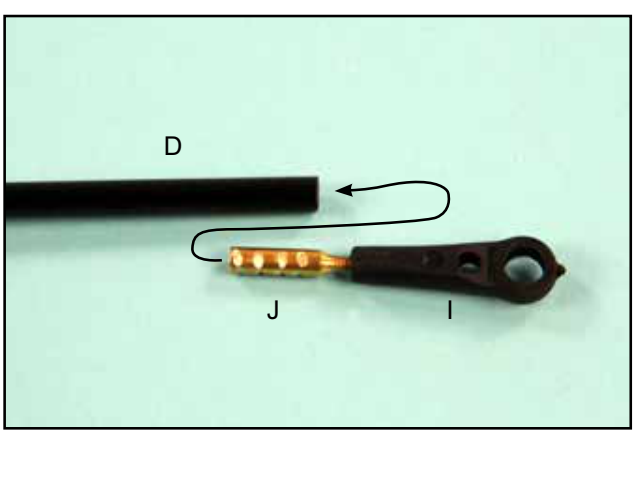


3)Trail it the stab (A) on the fuselage and attach it with the 2 screws (B).

HORIZONTAL EMPENNAGE



4)Place the servo above its housing as well as the elements constituting the elevator control, (K), (L), (D), (J), (I). Adjust the length of the carbon tube (D). Glue the threaded rod (L) to the inside of the carbon tube at the servo side and screw in the special IDS glassiber clevis (K).

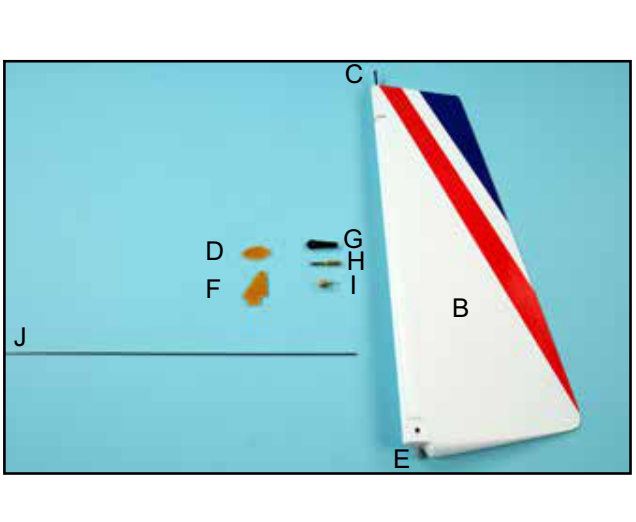


5)Screw the ball clevis (I) onto the threaded coupler (J). Scratch it and make a few notches with a ile as shown in the picture. Then glue the coupler securely with epoxy adhesive into the carbon tube (D).

6)Insert the whole assembly into the fuselage through the hatch. Connect the linkage to the elevator immobilized to the neutral. Then glue the servo frame (C) into the fuselage after the fastening area has scratched and the servo protected.

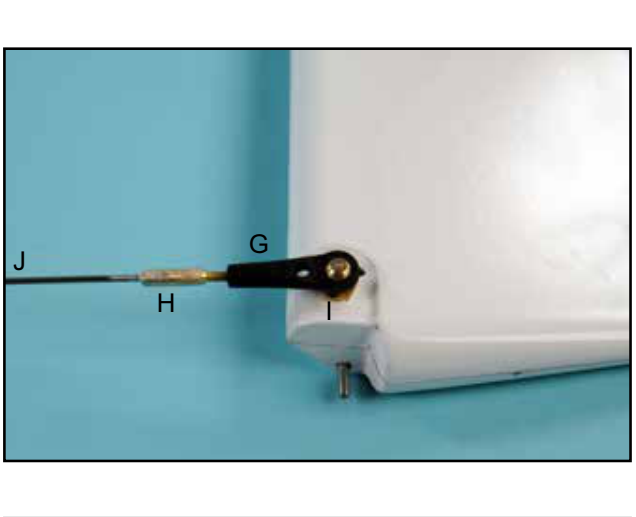
7)Once dry, check the movement of the elevator (no hard point or friction), adjust the hole through which the ball clevis passes if necessary.
Adjust and ix the elevator servo cover (M) with crystal tape.

FUSELAGE > RUDDER

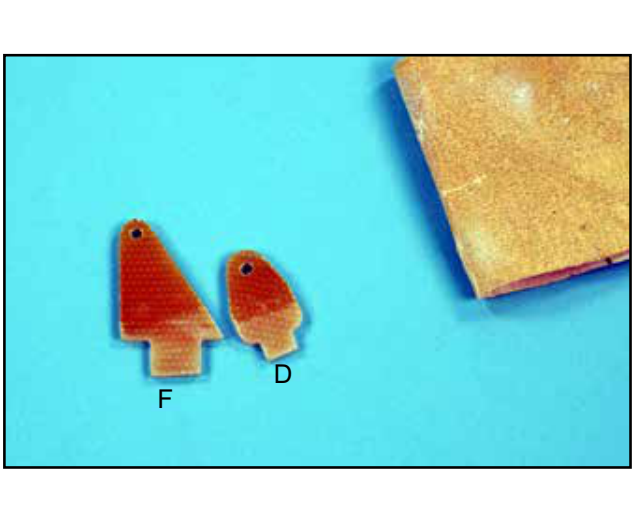


FUSELAGE PARTS RUDDER

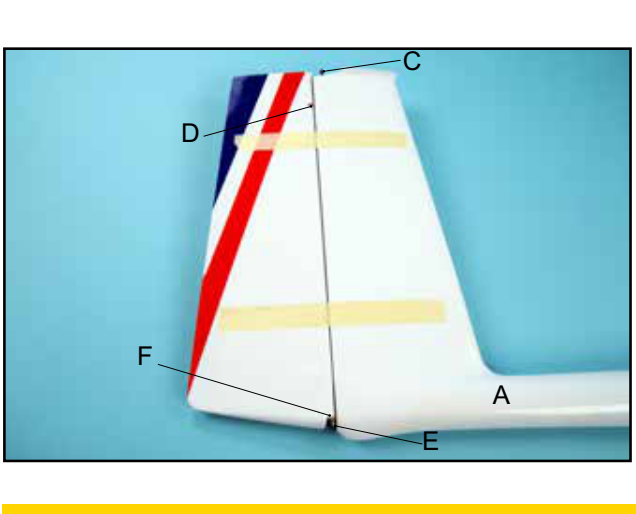
(A) Fuselage	1
(B) Rudder	1
(C) Rudder upper axle.	1
(D) Rudder upper bearing.	1
(E) Rudder lower axle.	1
(F) Rudder lower bearing.	1
(G) M2 ball clevis	1
(H) M2 thread coupler	1
(I) Rudder control horn (ball)	1
(J) Rudder inner control (1.5mm music wire)	1



1)Screw/glue the horn (I) into the rudder. Solder the coupler (H) to the music wire (J), screw the clevis (G) and then connect to the rudder control horn.

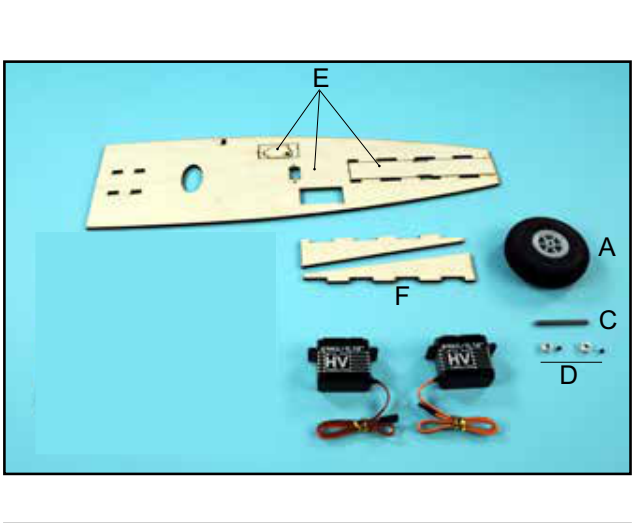


2)Sand the bonding areas of the two bearings of the rudder and attach them to the rudder with the top (C) and bottom (E) axles.



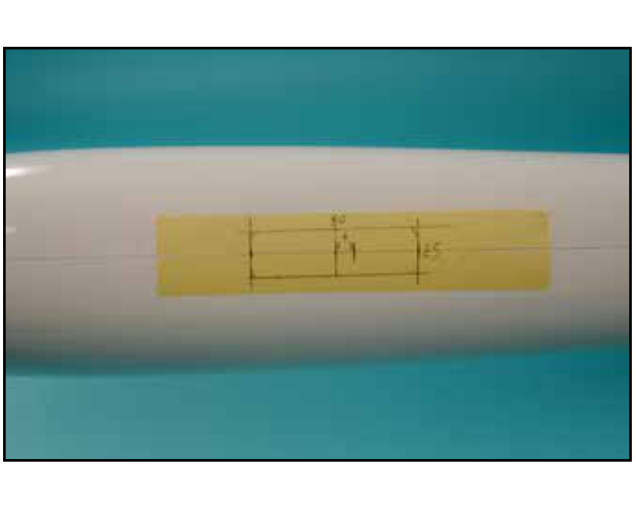
3)Fit the assembly to the rear of the fuselage (A), make sure to glue only the 2 bearings in the rudder closing post. Use only a small amount of epoxy adhesive at irst, then, after drying, the bonding of the two bearings (D) and (F) will be reinforced with a little epoxy adhesive loaded with microballoons.

FUSELAGE > VERSION F3Q WITH WHEEL AND RC (manual)



FUSELAGE PARTS WHEEL AND RC

(A) Wheel	1
(B) Wheel holder assembly (plywood)	1 set
(C) Wheel axle (music wire).	1
(D) Wheel stopper.	2 sets
(E) Radio tray (plywood)	1 set
(F) Radio tray support	2
I Rudder and Tow Hook servo (HV24012MG)	1+1

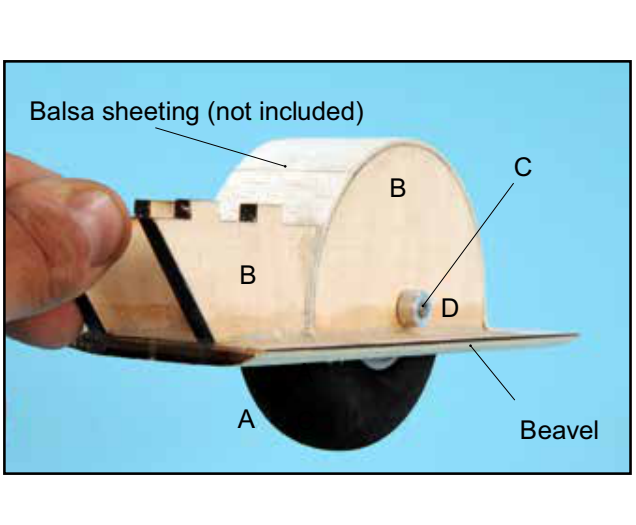


1)Locate the position of the wheel (the wheel axis is 7mm in front of the leading edge of the wing) and trace the contour of the part to be cut (wheel dimensions + 1mm on both sides).

2)Carefully cut the opening for the wheel.

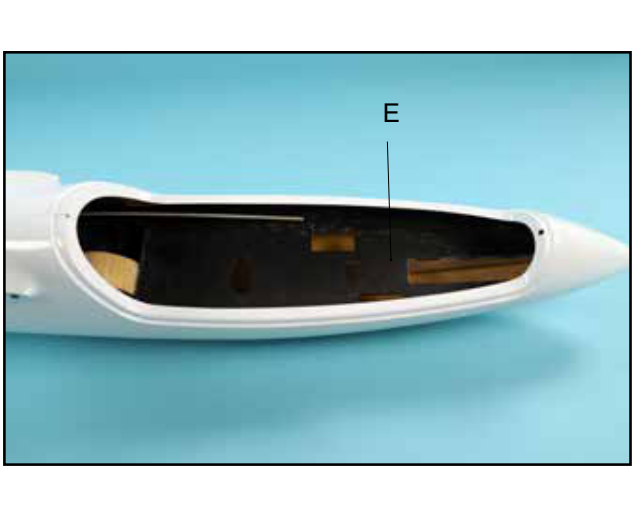
3)Sand the inside of the fuselage at the locations of the bonding of the RC tray and the wheel holder.

FUSELAGE > VERSION F3Q WITH WHEEL AND RC (manual)



4)Assemble the elements (A), (B), (C) and (D) constituting the ixed landing gear and glue the elements of the wheel holder (B) together with slow epoxy adhesive as shown ....

... 5)then position and glue it into the fuselage (use the RC tray (E) to center it).
Once dry, reinforce the bonding using epoxy resin and glass or carbon cloth.



6)Then glue the tray (E). Reinforce the bonding with glass or carbon cloth by making the fabric rise up to the sides of the fuselage (Fig.1).

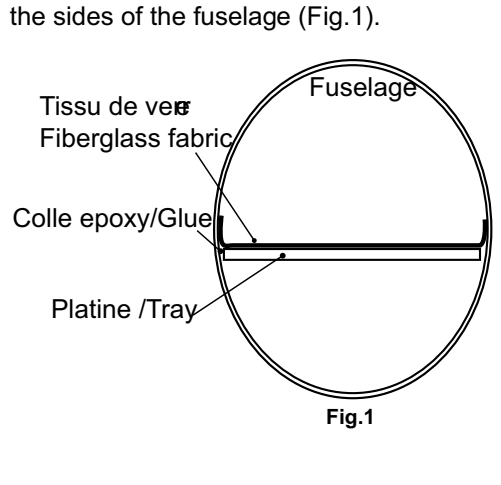
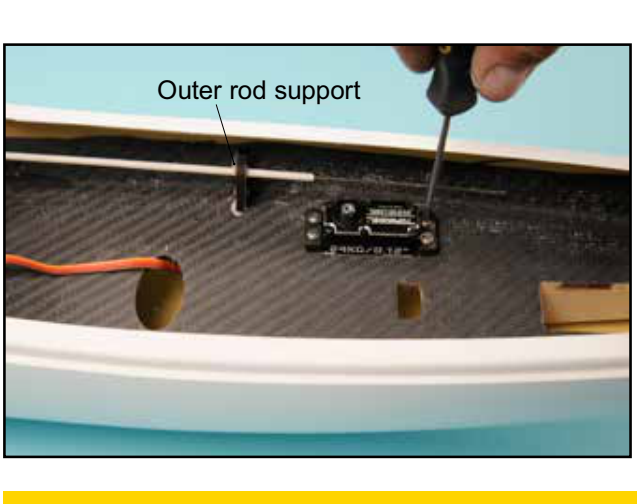
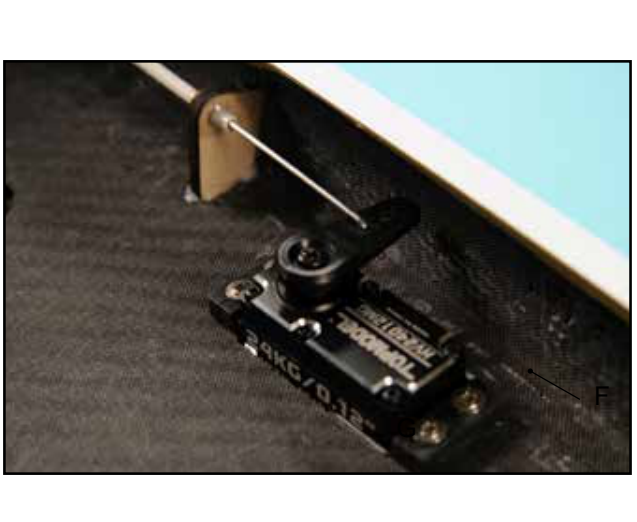


Fig.1



7)Glue the outer rudder rod holder onto the tray after passing the outer rod in.
Put the rudder servo in neutral position and screw it onto the tray.

FUSELAGE > VERSION F3Q WITH WHEEL AND RC (manual)



8)Connect the linkage to the rudder servo arm by making a Z-bend (the neutral of the rudder can then be adjusted by screwing / unscrewing the ball clevis on the rudder side).

Tow hook version

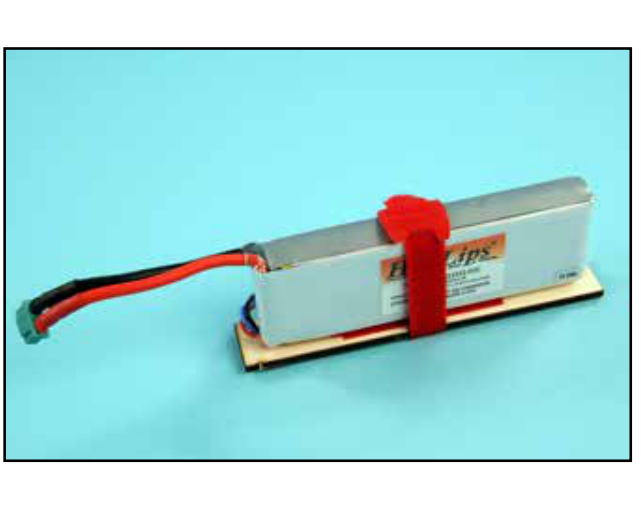
9)Tow Hook Control: Make an oblong hole of approximately 10x3mm on the side of the fuselage about 30mm from the nose. Keep in front of this hole a plastic rod (inner diameter 2mm) about 150mm long and glue it inside against the side of the fuselage.

10)After screwing the tow hook servo to the RC tray, attach a 1.5mm music wire to the arm with a Z-bend. Adjust the length of the linkage for optimal operation of the hook.

11)Connect the extension cables between the wings and the receiver as well as the RC SWITCH (optional).

FUSELAGE > VERSION WITH WHEEL AND RC (manual)

12)Install the receiver in the fuselage using velcro® band or double-sided tape.
Pay attention to the layout of the Rx antennas!



13)Attach the receiver battery pack to its ply plate using a strap and velcro® and then ...

. 14)erously coat with epoxy adhesive + micro-balloon the lower part of the plate and position it all in place into the fuselage.

COCKPIT PARTS

(A) Canopy and canopy frame	1 set
(B) Seat (ABS)	1
(C) Casquette tableau de bord (ABS).	1
(D) Instrument panel (hard plastic CNC machined)	1
(E) Flying instruments (sticker)	1 set

1) Le système de fermeture verrière est déjà en place. Nous vous laissons le soin d'organiser et de décorer la cabine selon votre goût.

H The canopy locking system is already in place. We leave you the task of organizing and decorating the cockpit according to your taste.