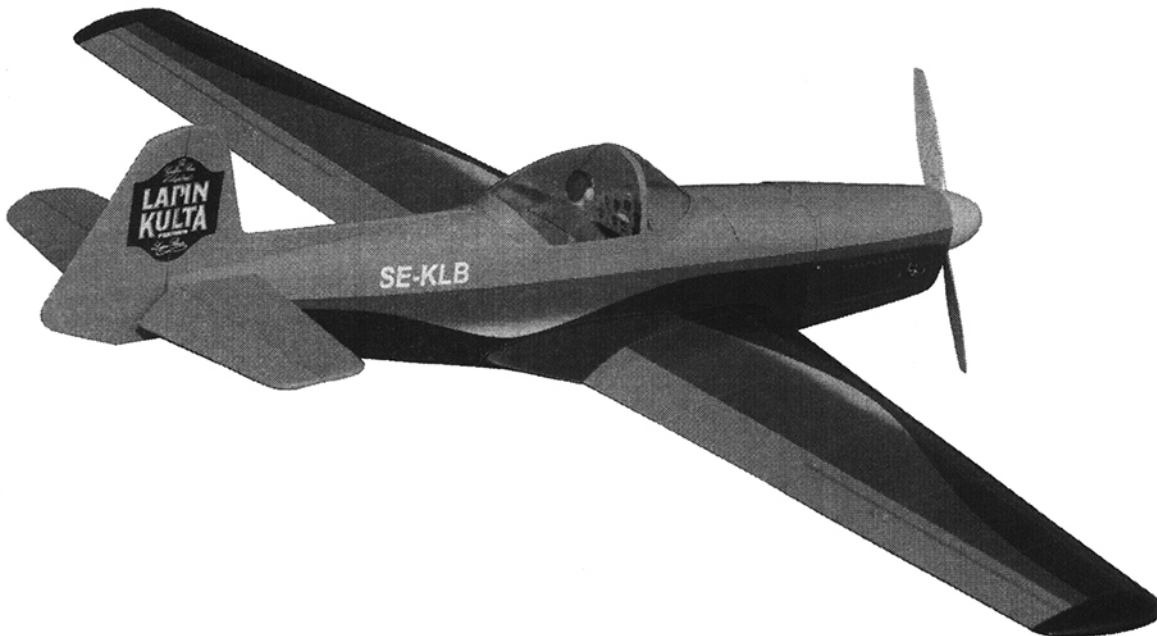


Radio control model / Flugmodell

ZLIN

Z-526 Akrobat

VQ No: VQA153BL / VQA153R-W



ALL Balsa, PLYWOOD CONSTRUCTION AND ALMOST READY TO FLY

Instruction manual / Montageanleitung

SPECIFICATIONS

Wingspan:.....1610mm
Length:.....1190mm
Electric Motor:.....See next pager
Glow Engine:.....46 2-T / .70 4-T
RTF Weight: 3.2Kg (will vary with equipment use)
Radio:.....7 Channel / 7 Servos
Function: Ailerons-Elevator-Rudder-Throttle
Flaps-Optional Retractable Landing Gear.

TECHNISCHE DATEN

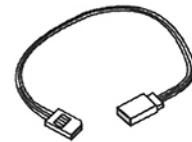
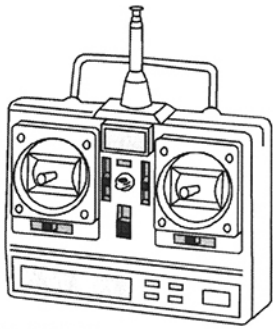
Spannweite:.....1610mm
Länge:.....1190mm
Elektroantrieb.....(siehe nächste Seite)
Verbrennerantrieb:.....7.45cc - 11.5cc
Fluggewicht:.....3.2Kg
Fernsteuerung.....7 Kanal / 7 Servos



WARNING! This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of control and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice if you are unexperienced.

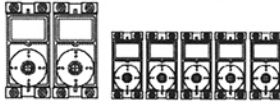
ACHTUNG! Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen. Bei unsachgemäßer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein in Ihrer Nähe um professionelle Unterstützung, wenn Sie Hilfe im Bau und Betrieb benötigen. Der Zusammenbau dieses Modells ist durch die vielen Abbildungen selbsterklärend und ist für fortgeschrittene, erfahrene Modellbauer bestimmt.

REQUIRED FOR OPERATION (Purchase separately)

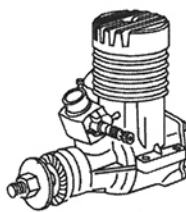


11x6 for .46 - 2 cycle engine
 12x6 for .60 - 4 cycle engine
 12x7 for .70 - 4 cycle engine
 13x7 - 12x8 for electric motor

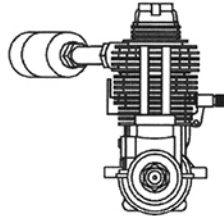
Extension cord for aileron servos: 50cm(x2)
 Extension cord for flap servos: 50cm(x4)
 Extension cord for retract servos: 30cm(x2)
 Extension cord for Rx battery pack: 20cm(x1)



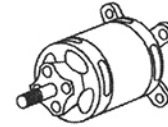
Standard Mini
 Minimum 7 channel radio
 Elevator : 1 standard servo
 Rudder: 1 standard servo
 Aileron: 2 mini servo
 Flaps: 2 mini servo
 Throttle: 1 mini servo (for glow engine only)



.46 ~ .55 - 2 cycle



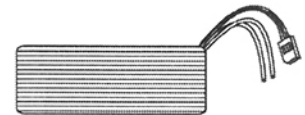
.60 ~ .70 - 4 cycle



700-800W Brushless Motor

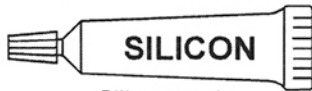


Silicone tube

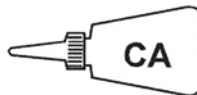


5 cell 4500mAh LiPo battery

GLUE (Purchase separately)



Silicon sealer




Cyanoacrylate Glue (thin type)



Epoxy Glue
 (30 minute type)

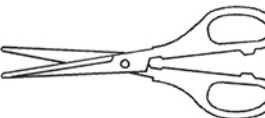
TOLLS REQUIRED (Purchase separately)


Hobby knife 

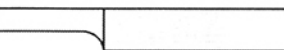
Phillip screw driver 

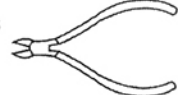
Hex Wrench 

Needle nose Pliers 

Scissors 

Awl 

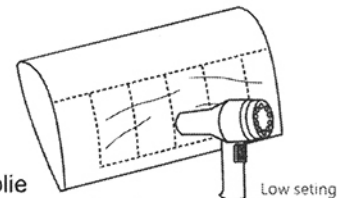
Sander 

Wire Cutters 

Masking tape - Straight Edged Ruler - Pen or pencil - Drill and Assorted Drill Bits


If exposed to direct sunlight and/or heat, wrinkles can appear. Storing the model in a cool place will let the wrinkles disappear. Otherwise, remove wrinkles in covering film with a hair dryer, starting with low temperature. You can fix the corners by using a hot iron.

Bei Sonneneinstrahlung und/oder Wärme kann die Folie erschlaffen bzw. Falten entstehen. Verwenden Sie ein Warmluftgebläse (Haartrockner) um evtl. Falten aus der Folie zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden!





Low setting


Symbols used throughout this instruction manual, comprise:


 Drill holes using the stated size of drill (in this case 1.5 mm)


 Take particular care here


 Hatched-in areas: remove covering film carefully


 Check during assembly that these parts move freely, without binding


 Use epoxy glue


 Apply cyano glue


 Assemble left and right sides the same way.

 Not included. These parts must be purchased separately

 Löcher bohren mit dem angegebenen Bohrer (hier 1,5 mm)


 Hier besonders aufpassen


 Schraffierte Stellen, Bespannfolie vorsichtig entfernen

 Während des Zusammenbaus immer prüfen, ob sich die Teile auch reibungslos bewegen lassen

 Epoxy-Klebstoff verwenden

 Sekundenkleber auftragen

 Linke und rechte Seite wird gleichermaßen zusammengebaut

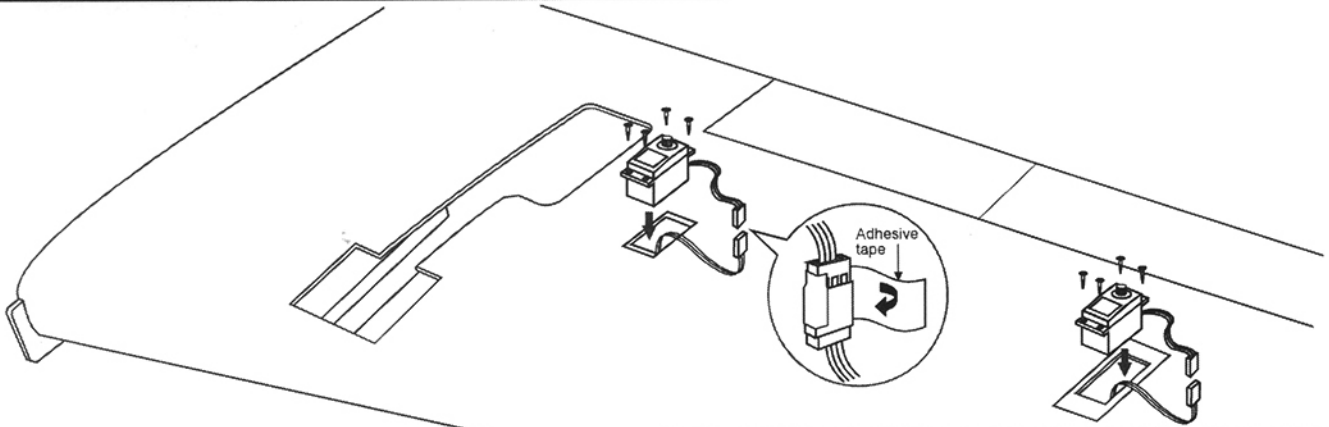
 Nicht enthalten. Teile müssen separat gekauft werden.

Read through the manual before you begin, so you will have an overall idea of what to do.

CONVERSION TABLE

1.0mm = 3/64"	3.0mm = 1/8"	10mm = 13/32"	25mm = 1"
1.5mm = 1/16"	4.0mm = 5/32"	12mm = 15/32"	30mm = 1-3/16"
2.0mm = 5/64"	5.0mm = 13/64"	15mm = 19/32"	45mm = 1-51/64"
2.5mm = 3/32"	6.0mm = 15/64"	20mm = 51/64"	

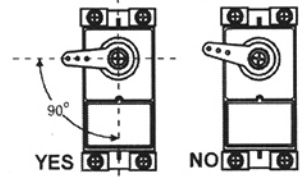
ZLIN Z-526 1- Aileron and Flap servo



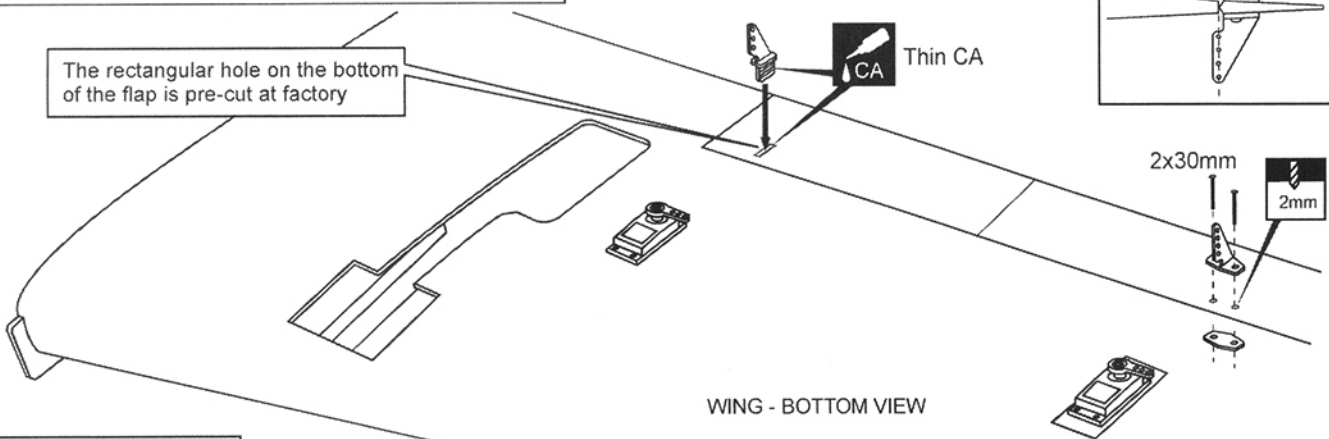
- 1-Cut away the covering of the wing bottom where the aileron servo goes.
- 2-Connect the aileron and flap servo cord to the extension cords.
- 3-Install the aileron and flap servo on the servo mount.

Do the same way with second wing half

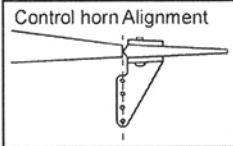
- Switch on the radio (trims centered)
- Then mount the ailerons servo In neutral position.
- The servo horn should be Perpendicular to the servo



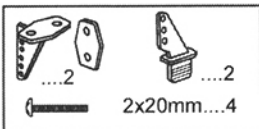
2- Aileron and Flap control horn



The rectangular hole on the bottom of the flap is pre-cut at factory

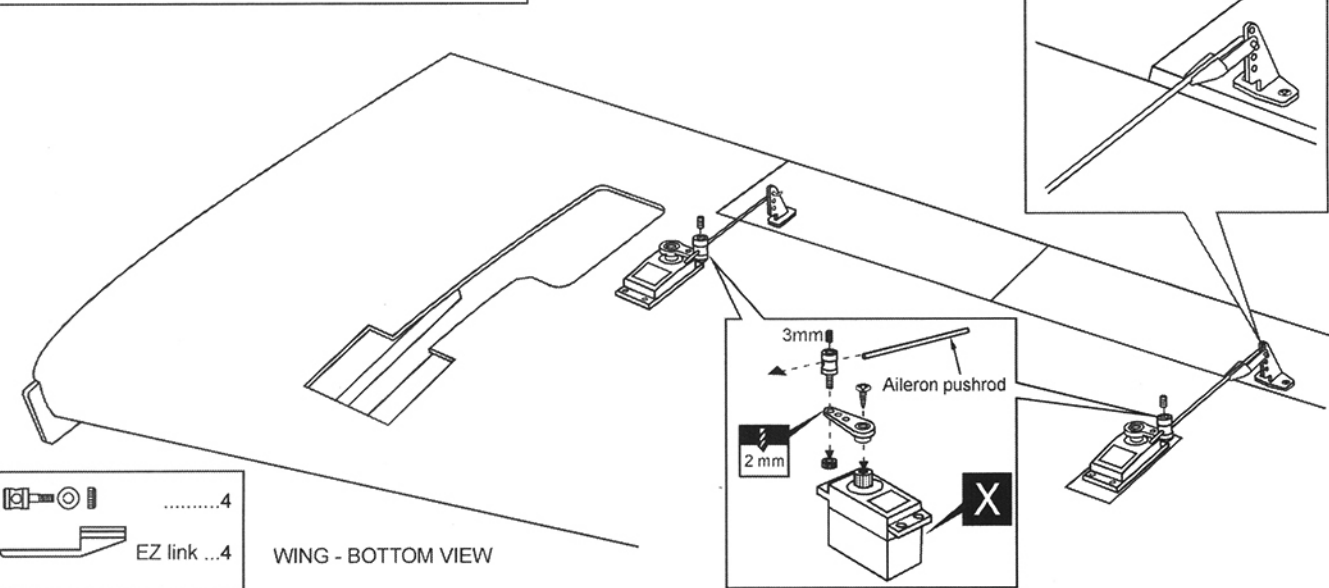


WING - BOTTOM VIEW

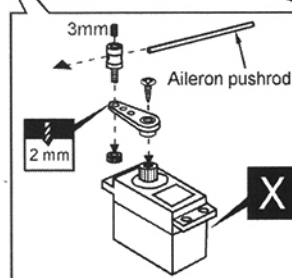


- 1-Depending on the position of the linkage, determine the location of aileron control horn. The horn holes must be perfectly aligned with the axis of articulation.
- 2-Mark the position of the "foot" of the horn on the aileron. Then, with the drill, make the 2 holes.
- 3-Install the aileron control horn as shown.

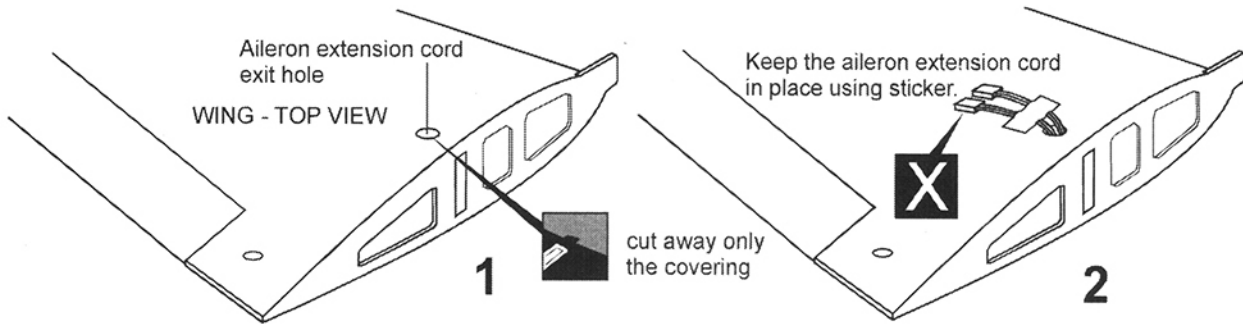
3- Aileron and Flap - Linkages



WING - BOTTOM VIEW

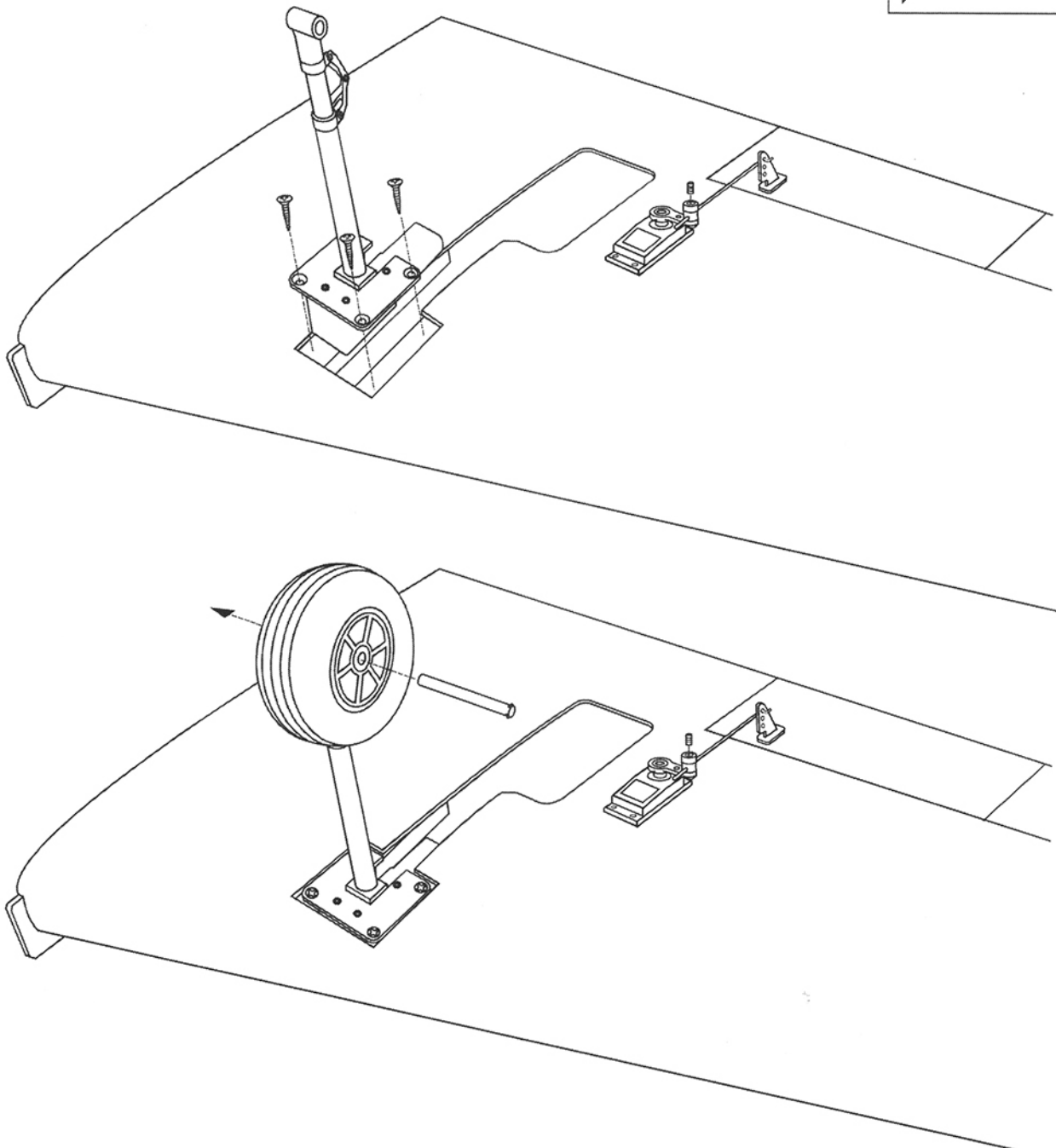


ZLIN Z-526 4- Extension cord secured




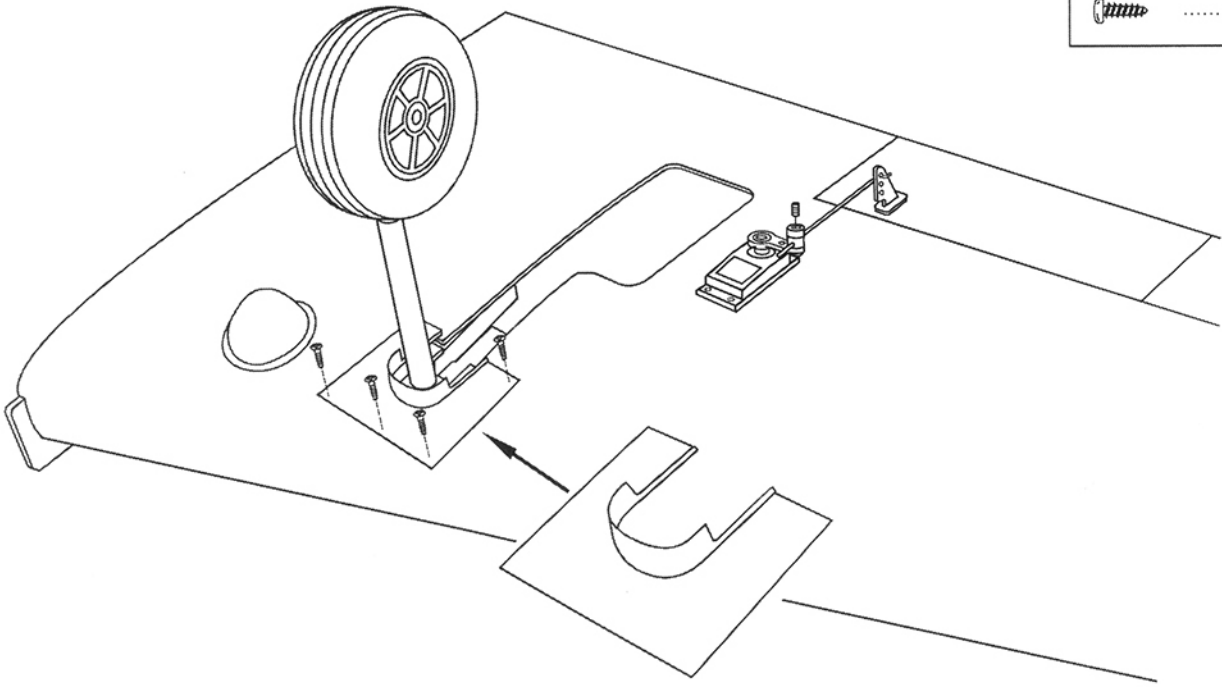
5- E-retract - Strut installation

3x15mm screw
...4 / not include

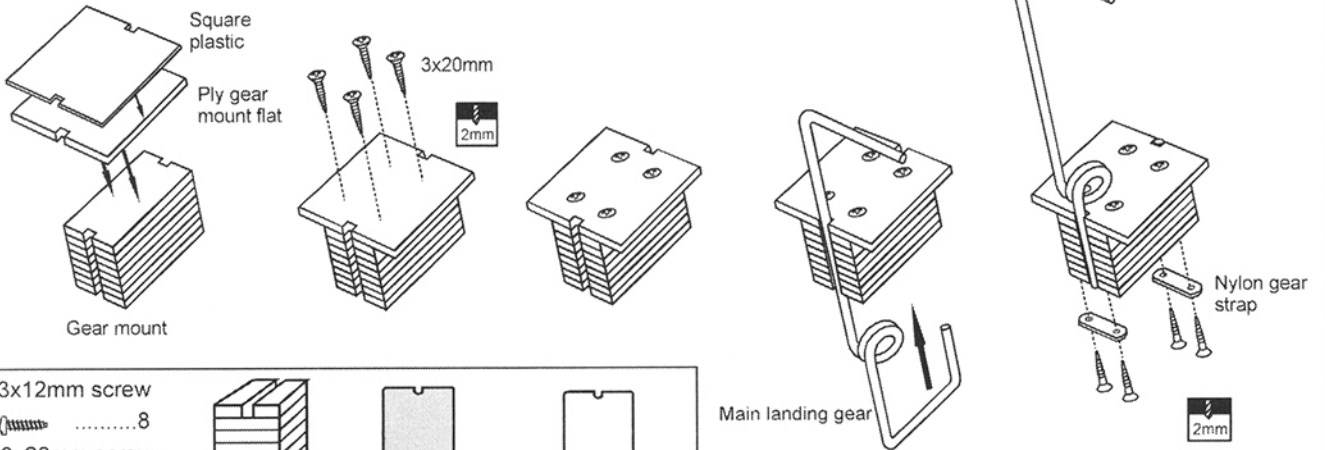


ZLIN Z-526 6- Decor


2x6mm screw
5




7- Fixed gear



3x12mm screw

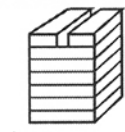
8

3x20mm screw

16

Nylon gear strap

4



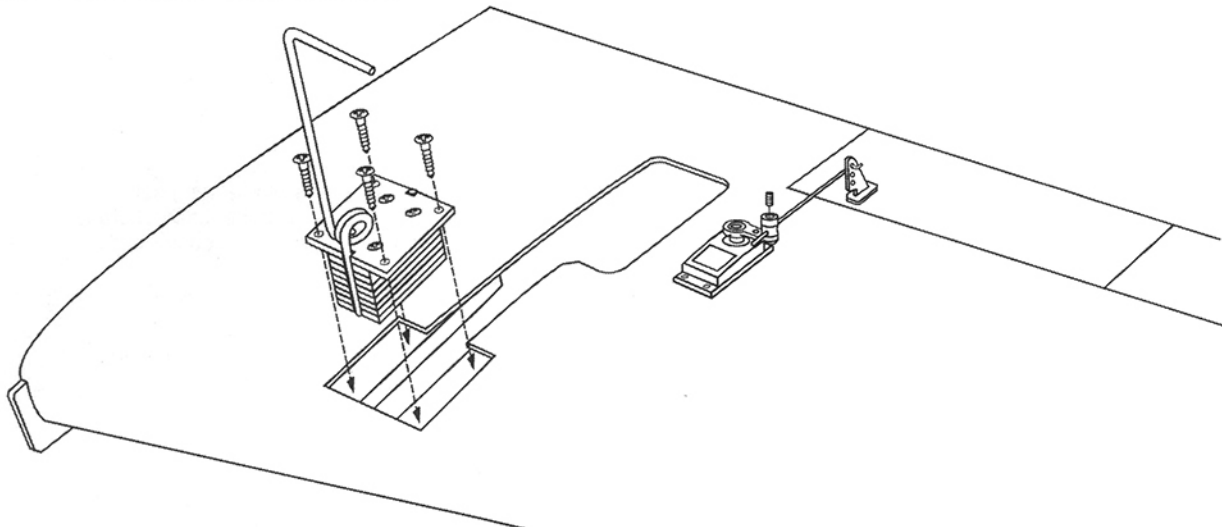
Gear mount x 2



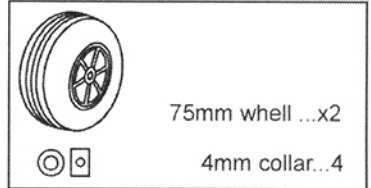
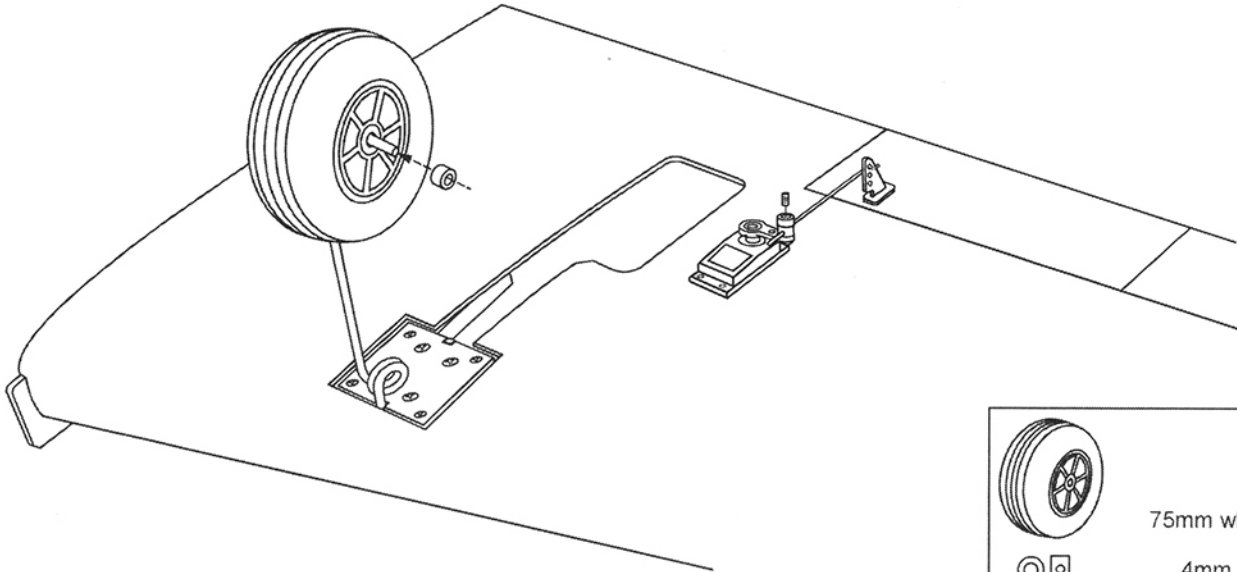
Ply gear mount plate x 2



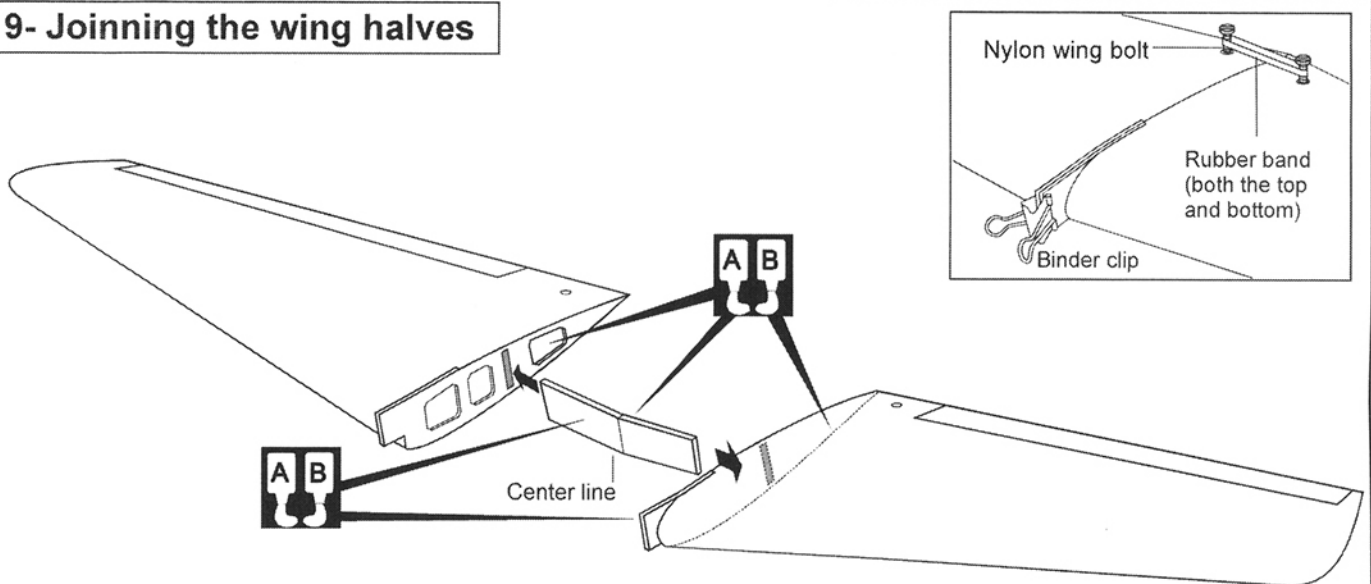
Square plastic x 2



ZLIN Z-526 8- Fixed gear



9- Joining the wing halves



Use epoxy glue to bury the opening

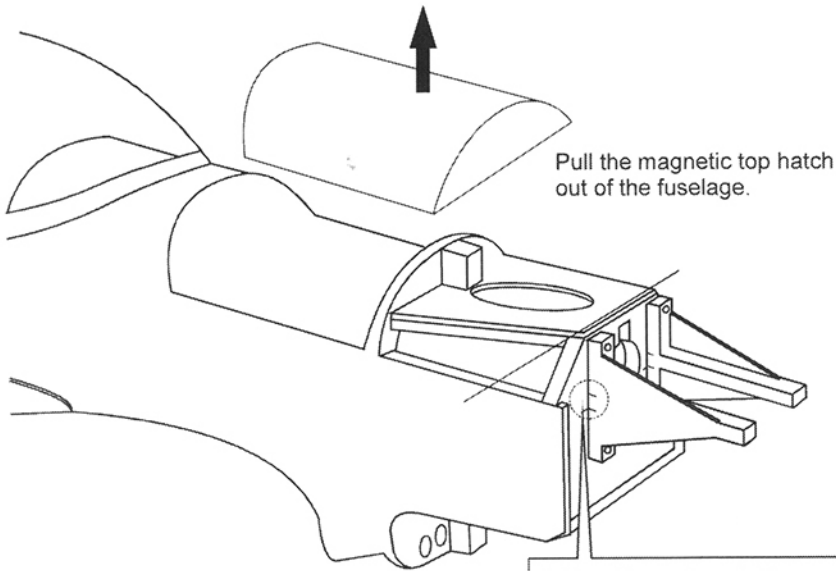


Top view

- 1- Using a pencil, mark the center of the brace.
- 2- Trial fit the wing joiner into one of the wing panels. It should insert smoothly up to the center line marked above.
- 3- Slide the other wing half onto the dihedral brace until the wing panel meet. If the fit is over tight, it may be necessary to lightly sand the dihedral brace.
- 4- Check for the correct dihedral angle.
- 5- Mix up some 30 minute epoxy and apply a generous amount of epoxy into the wing joiner cavity of one wing half.
- 6- Coat one half of the dihedral brace with epoxy up to the center line. Install the epoxy-coated side of the dihedral brace into the wing joiner cavity up to the center line, marking sure that the "V" of the dihedral brace is positioned correctly
- 7- Do the same way with the other wing half.
- 8- Carefully slide the wing halves together, ensuring that they are accurately aligned. Firmly press the two halves together, allowing the excess epoxy to run out. Clean off the excess epoxy with paper towel and kerosene.

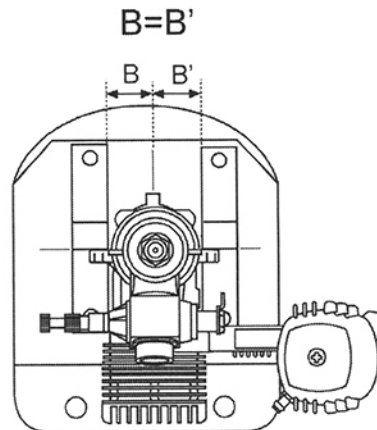
IMPORTANT: Please do not clean off the excess epoxy on the wing with strong solvent or pure alcohol, only use kerosene to keep the colour of your model not fade.

ZLIN Z-526 10- Engine



Pull the magnetic top hatch out of the fuselage.

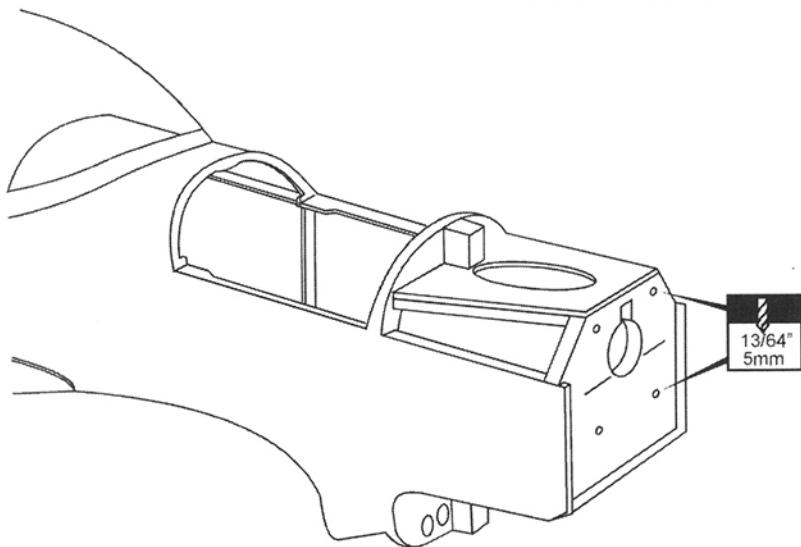
! Align the mark on both mounts with the mark on the fuselage



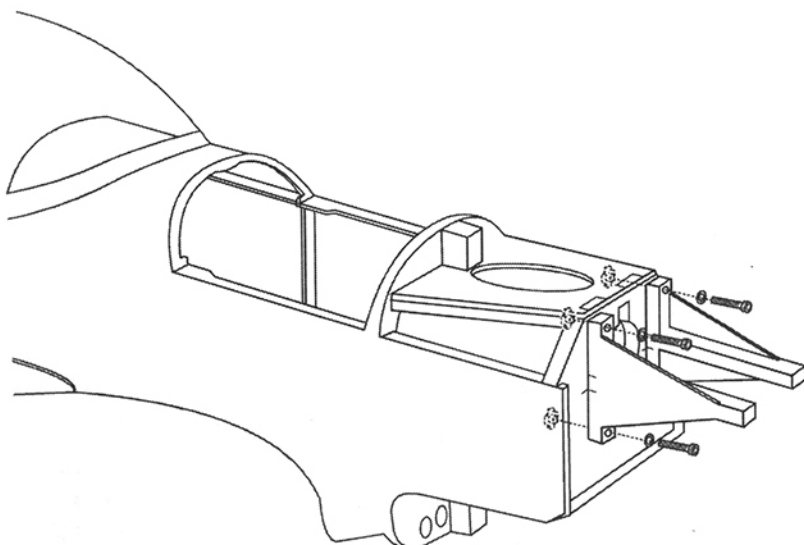
FRONT-VIEW

- Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled

! Engine thrust on fire-wall is already adjust at factory



- Remove the engine mount and drill a 13/64" (5mm) hole through the fire-wall at each of the four marks marked.



- Reposition the engine mounts on to the fire-wall. Secure them with four 4x25mm bolts and blind-nuts.

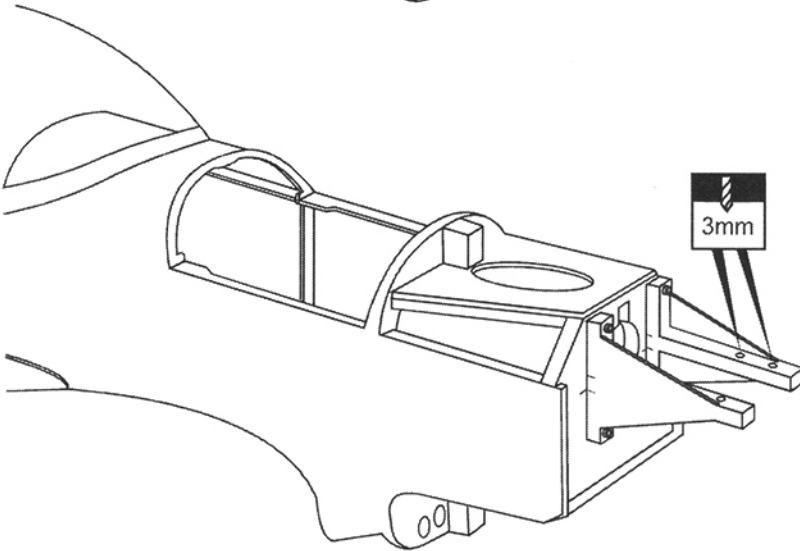
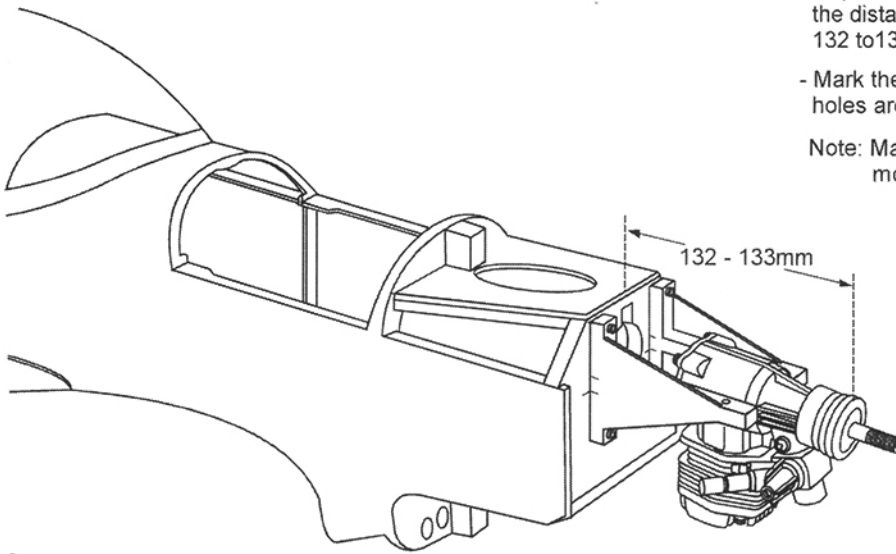
- 5/32x1" 4x25mm bolt
 - Blind-nut
-
-4

ZLIN Z-526 11- Engine

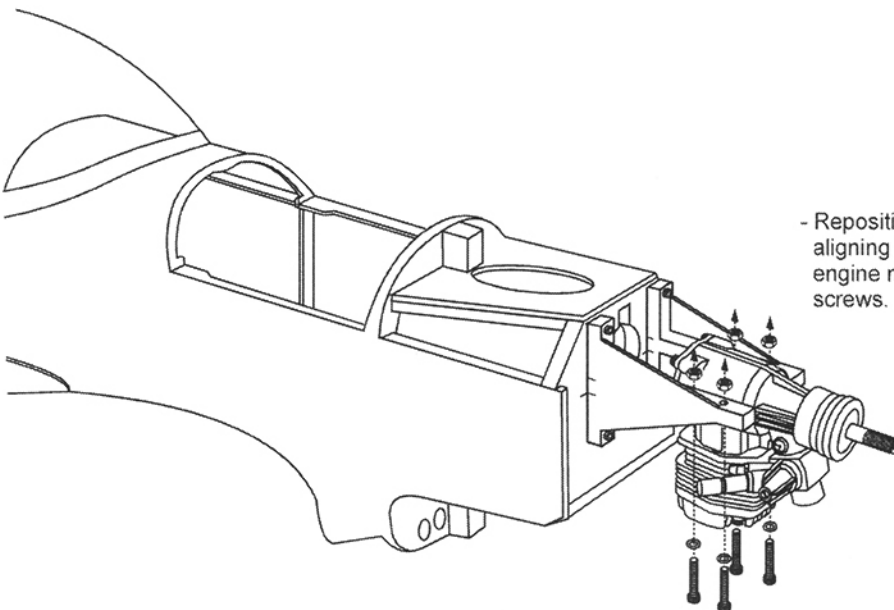
- Reposition the engine on to the engine mounts so the distance from the prop hub to the fire wall is 132 to 133mm.

- Mark the engine mounting plate where the four holes are to be drilled.



Note: Mark the mounting plate through the engine mounting flanges.



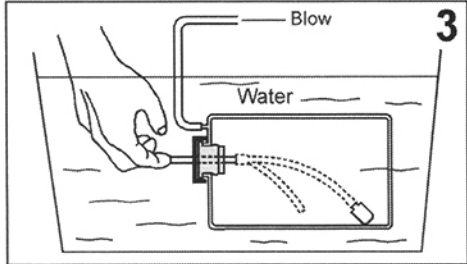
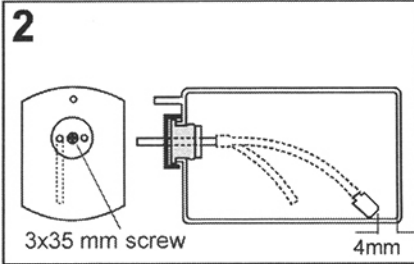
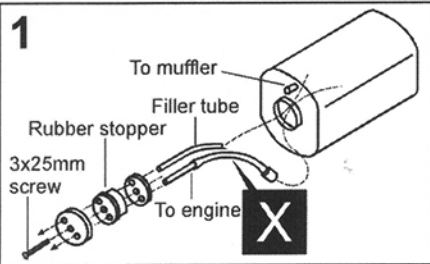
- Remove the engine and drill a 1/8" (3mm) holes through the beam at each of the four marks made above.



- Reposition the engine on the engine mount beams, aligning it with the holes. Secure the engine to the engine mount using four 1/8x5/164" (3x25mm) screws.

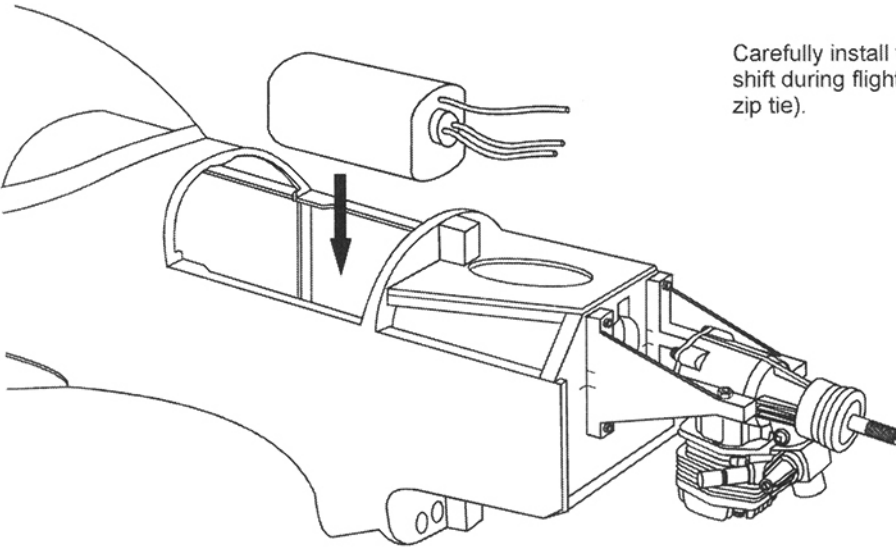
- 1/8x5-1/64"
- 3x20mm bolt
-  ...4
- 1/8" (3mm) nut
- 4

ZLIN Z-526 12- Fuel tank



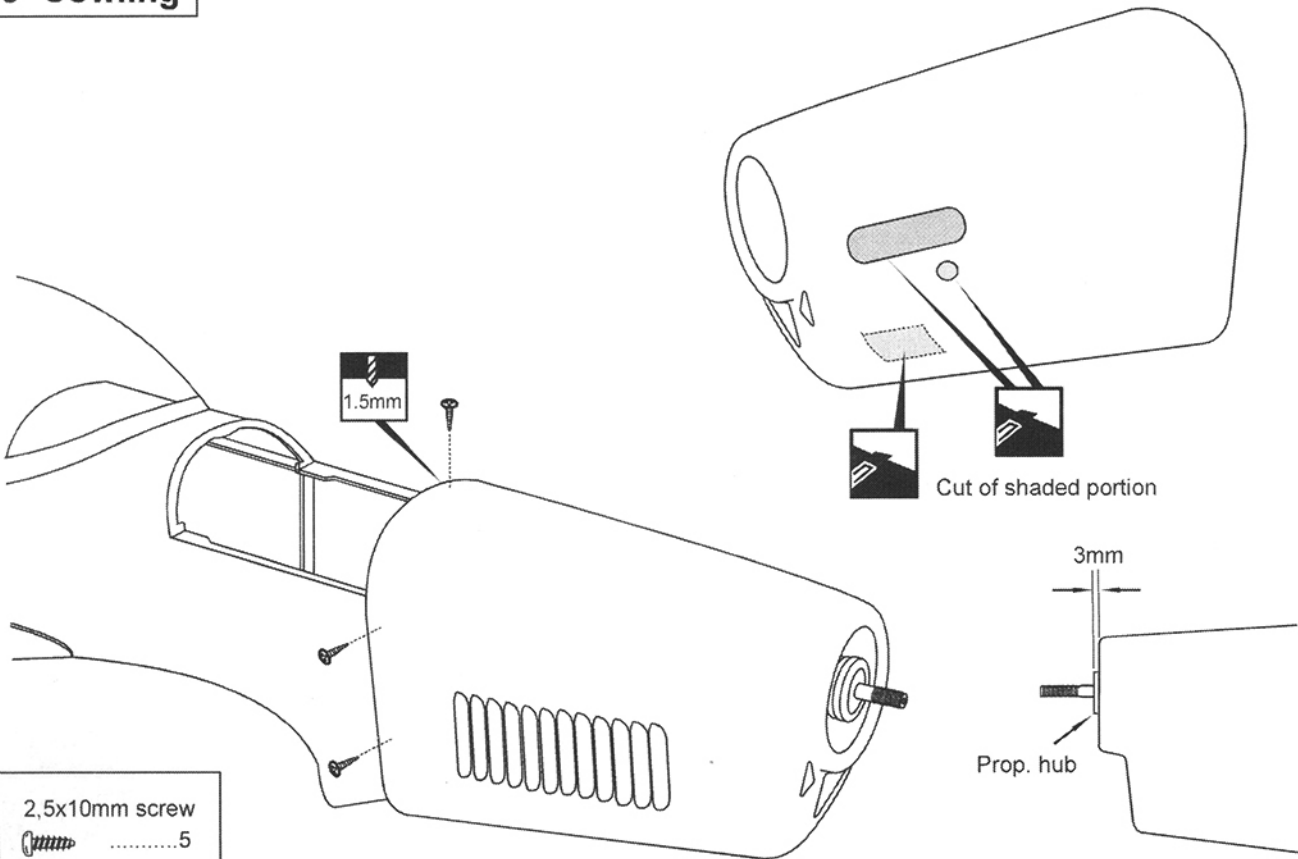
After confirming the direction . Insert this assembly, clunk end first, into the fuel tank and tighten and screw the fuel tank cap on firmly. Ensure that the fuel tank clunk does not touch the rear of the fuel tank.

Checking for leaks - block the vents and blow into the feed - if in doubt submersing the tank in a blow of water will show up any problems.



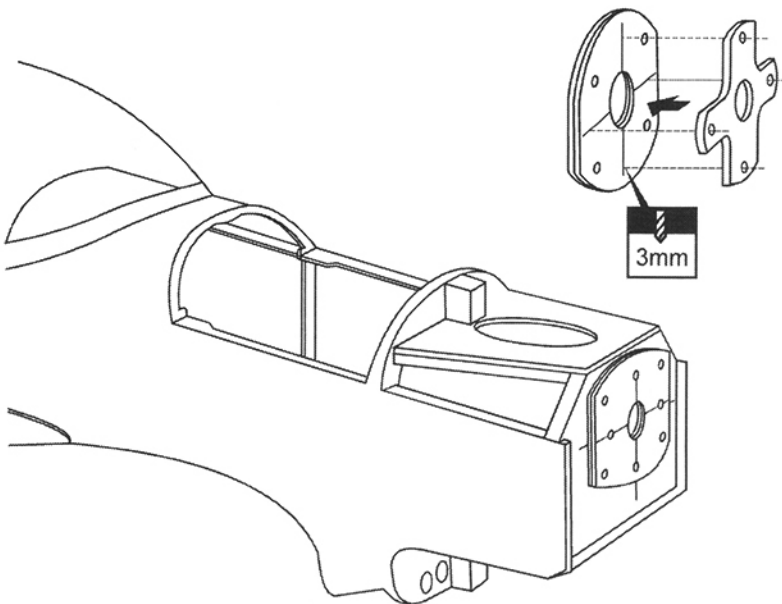
Carefully install the fuel tank to ensure that they will not shift during flight (secure the fuel tank in place using zip tie).

13- Cowling



2,5x10mm screw
5

ZLIN Z-526 14- Electric motor

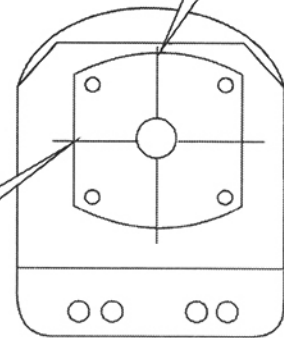


-Using a aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled.

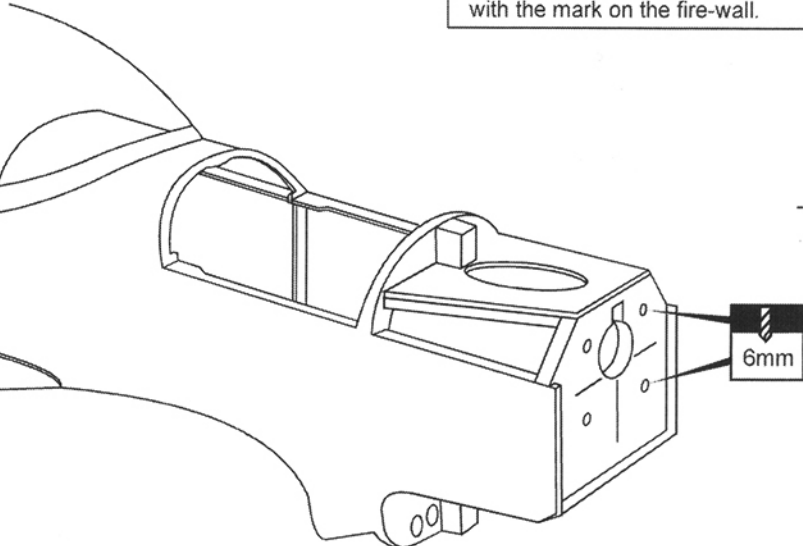
-Remove the aluminum motor mounting plate and drill a 1/8" (3mm) hole through the plywood at each of the four marks marked .

Note: The aluminum motor mounting included with electric motor set.

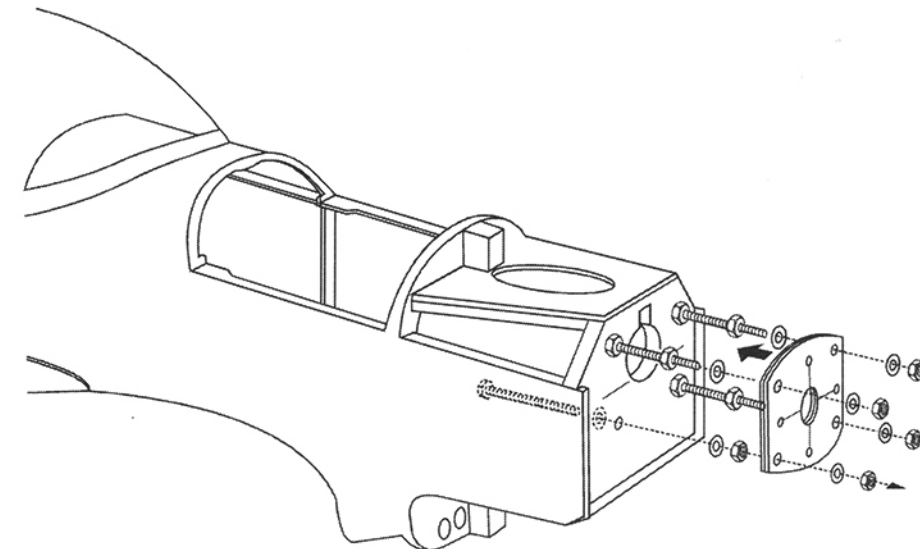
! Align the mark on plywood motor mounting with the mark on the fire-wall.



! Align the mark on plywood motor mounting with the mark on the fire-wall.



- Remove the plywood motor mounting and drill a 6mm holes through the beam at each of the four marks made above.

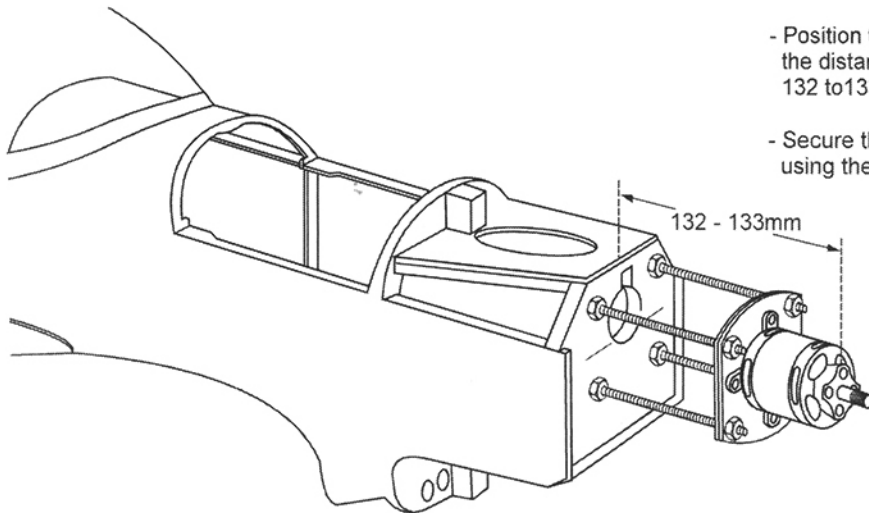


	6x100mm.....	4
	6mm nut.....	12
	6mm washer...	16

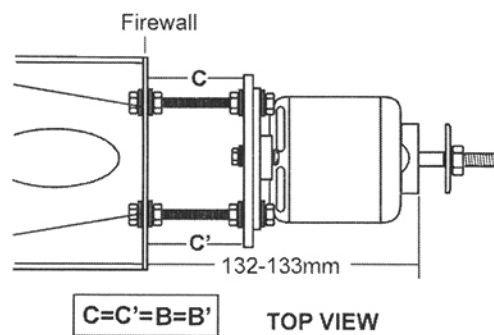
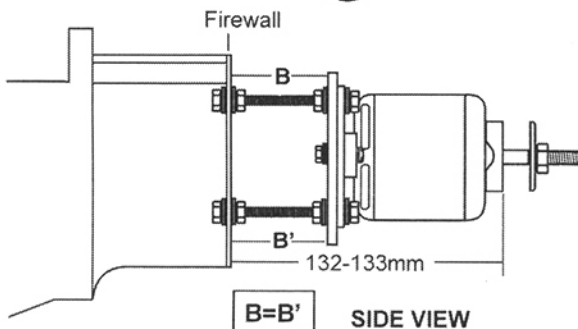
ZLIN Z-526 15- Electric motor

- Position the motor on to the plywood motor mounting so the distance from the prop hub to the fire wall is 132 to 133mm.

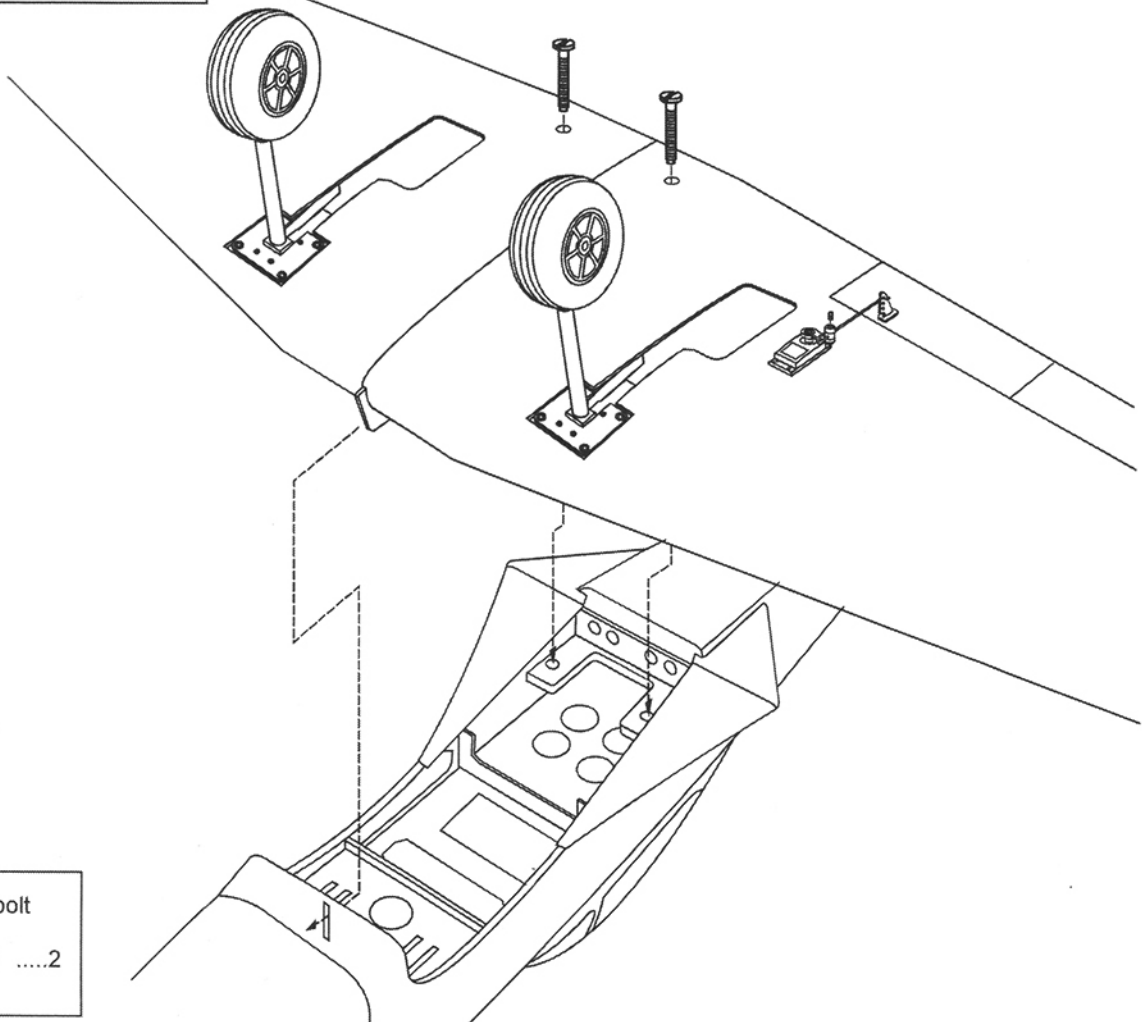
- Secure the motor to the plywood motor mounting using the four 3x20mm screws.



! Engine thrust on fire-wall is already adjust at factory



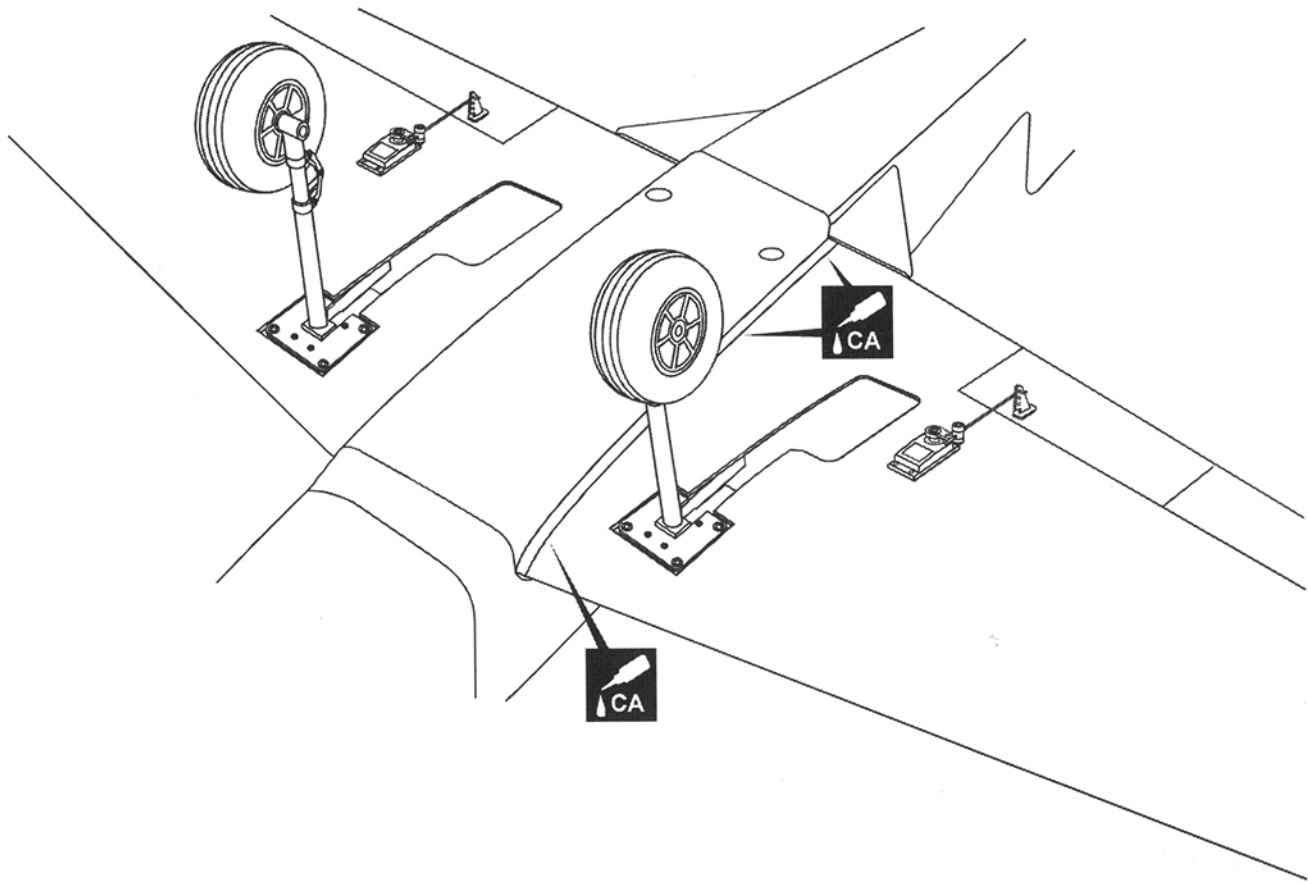
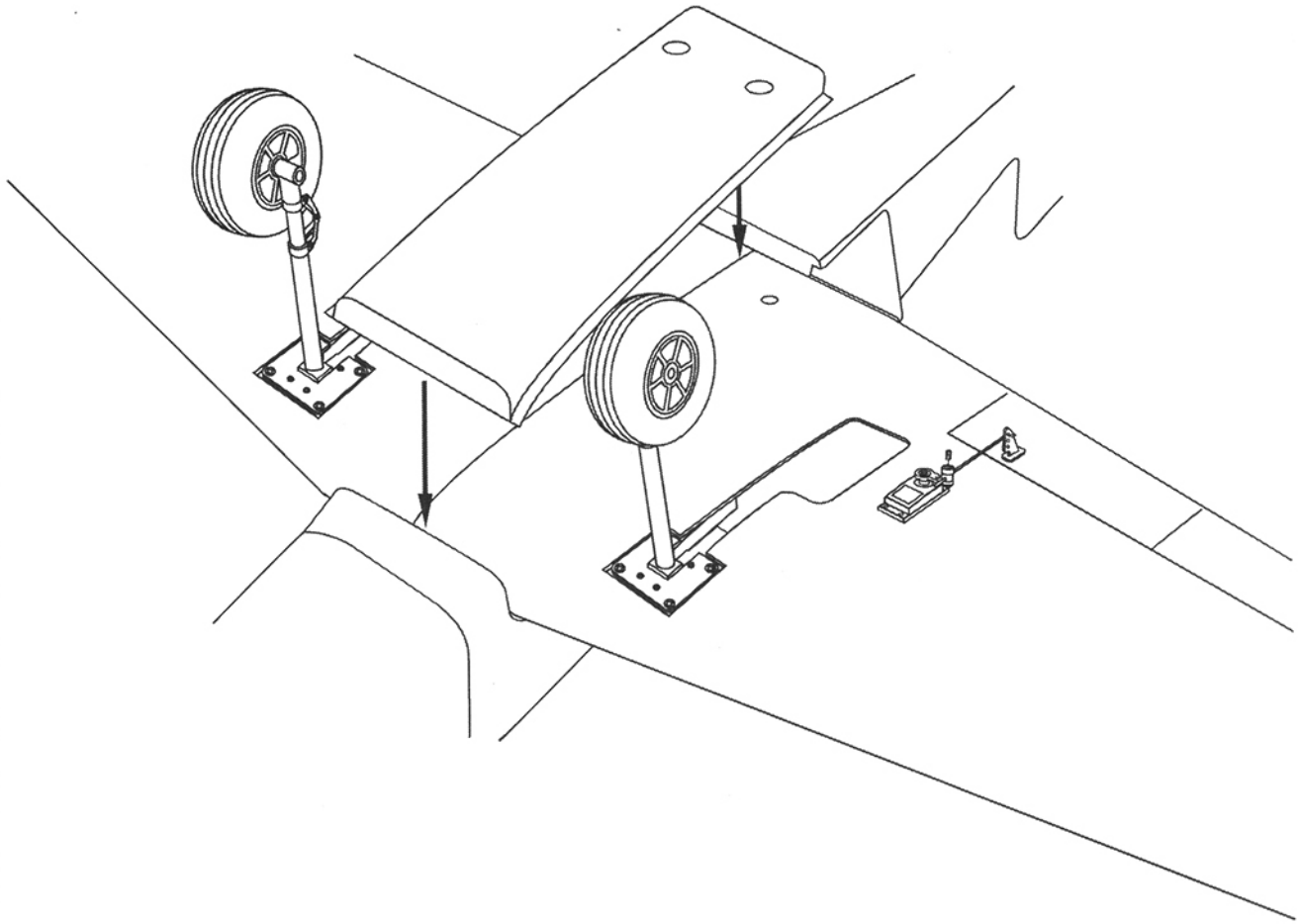
16- Installing the wing



6x50mm nylon bolt



ZLIN Z-526 17- Installing the bottom cover



ZLIN Z-526 18- Horizontal stabilizer

Using a sharp hobby knife, carefully cut away the covering around of all slots for the horizontal stabilizer and vertical fin installation.

18A

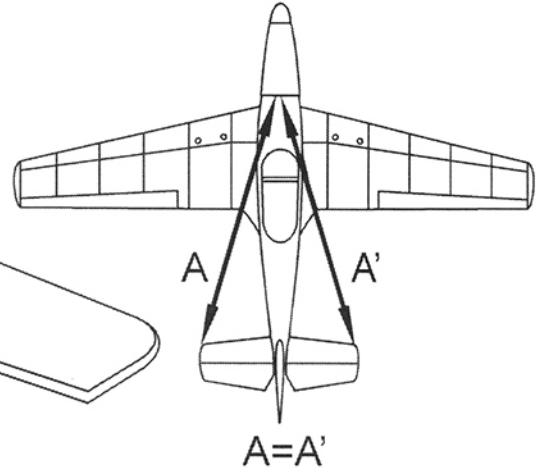
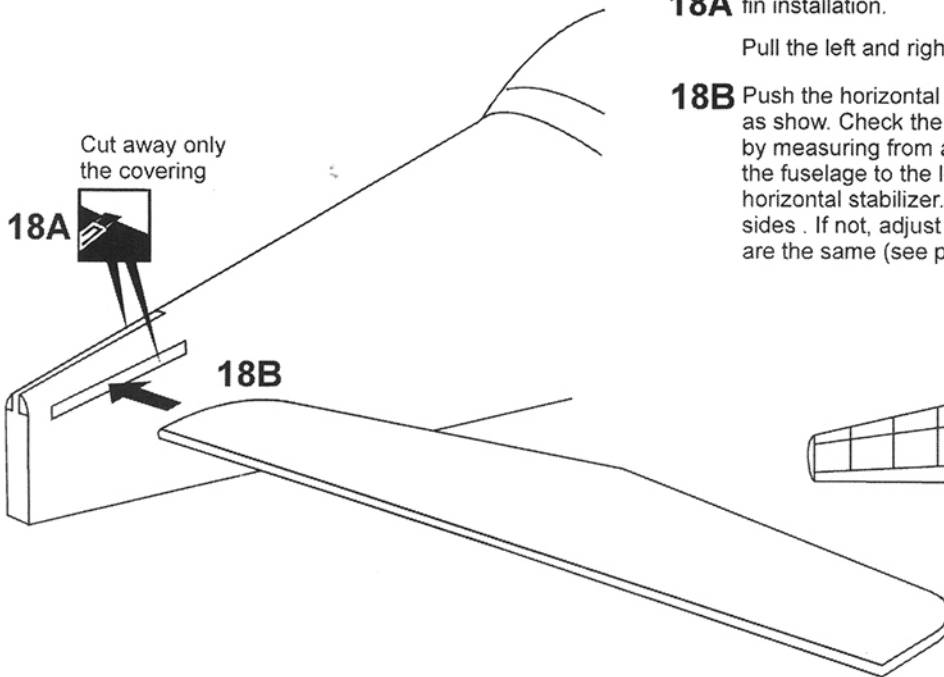
Pull the left and right elevator out of the horizontal stabilizer.

18B

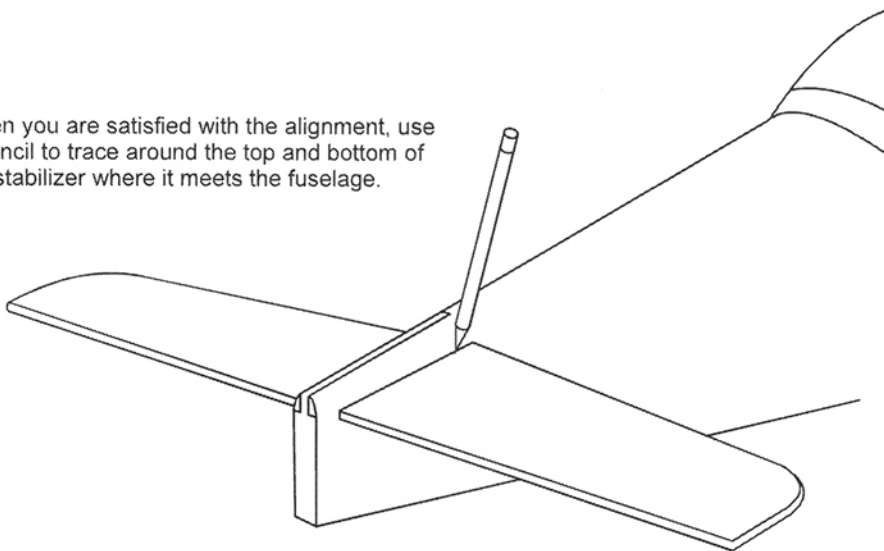
Push the horizontal stabilizer into the slot on the fuselage as show. Check the alignment of the horizontal stabilizer by measuring from a fixed point along the center line of the fuselage to the leading edge on each side of the horizontal stabilizer. The distance must be equal on both sides. If not, adjust the stabilizer until the measurements are the same (see picture below: $A=A'$).

Cut away only the covering

18A

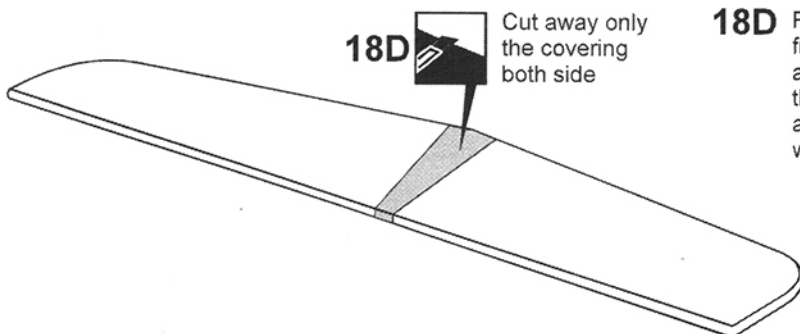


18C When you are satisfied with the alignment, use a pencil to trace around the top and bottom of the stabilizer where it meets the fuselage.



18D

Cut away only the covering both side

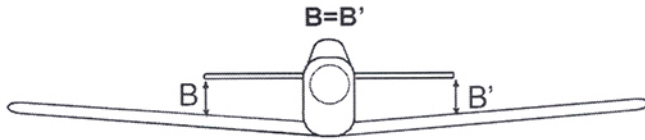


18D

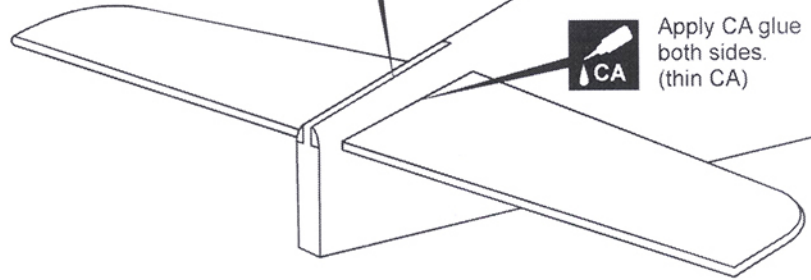
Remove the horizontal stabilizer from the fuselage. Using a straight edge and a sharp hobby knife, carefully cut away the covering **inside the lines** which were marked above. Be cautious **not to cut into the wood**-this will weaken the structure.

ZLIN Z-526 19- Horizontal stabilizer

Install the horizontal stabilizer onto the fuselage and adjust the alignment as described in step 18B. Note: it is important to ensure that the horizontal stabilizer is also level in regards to the fuselage. Apply the thin CA along the area where the covering was removed in the previous step and to the fuselage where the horizontal stabilizer mounts.



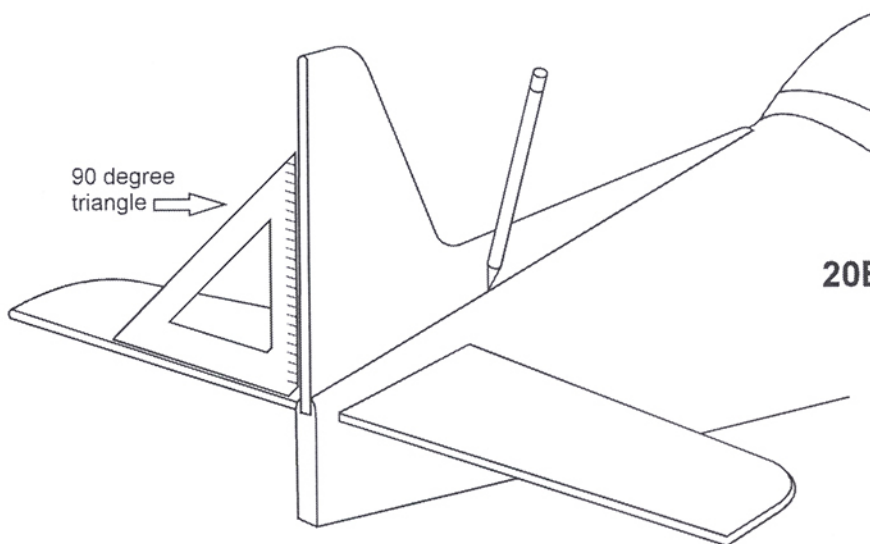
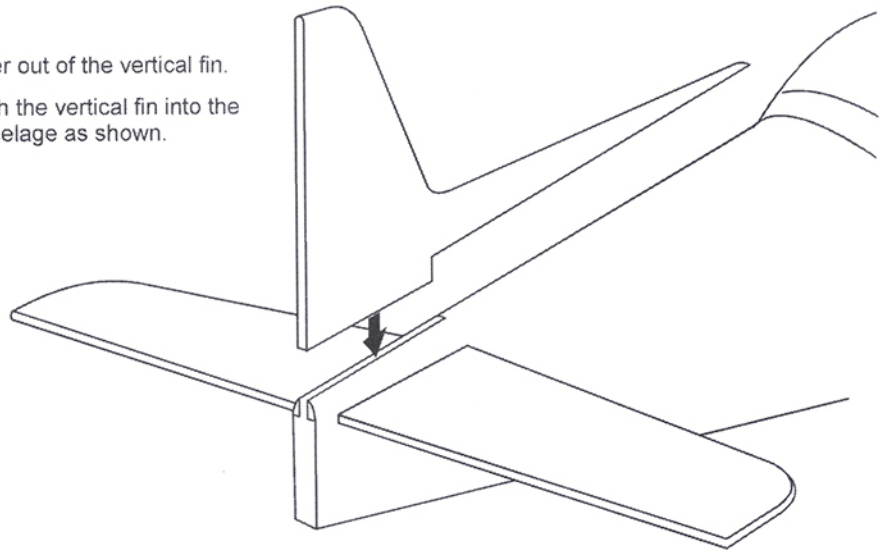
Apply thin CA glue into the slot where the fuselage meet the horizontal stabilizer.



20- Vertical stabilizer

20A Pull the rudder out of the vertical fin.

Carefully, push the vertical fin into the slot on the fuselage as shown.

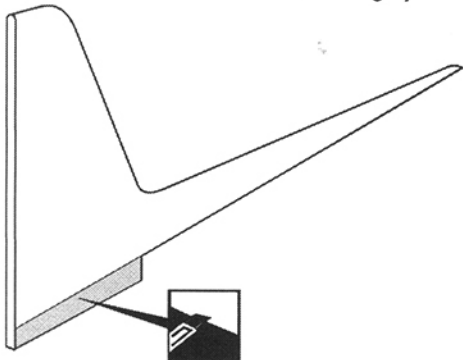


20B Trial fit the vertical fin in position. Using a 90 degree triangle, ensure that the vertical stabilizer is perpendicular to the horizontal stabilizer.

Using a pencil, trace around the vertical stabilizer where it meets the fuselage. Remove the vertical stabilizer from the fuselage.

ZLIN Z-526 21- Vertical stabilizer

21A Remove the vertical stabilizer from the fuselage. Using a sharp hobby knife, carefully cut away the covering **below the lines** which were drawn in the previous step. **Do not cut into the woods** as this will affect the structural integrity of the stabilizer.

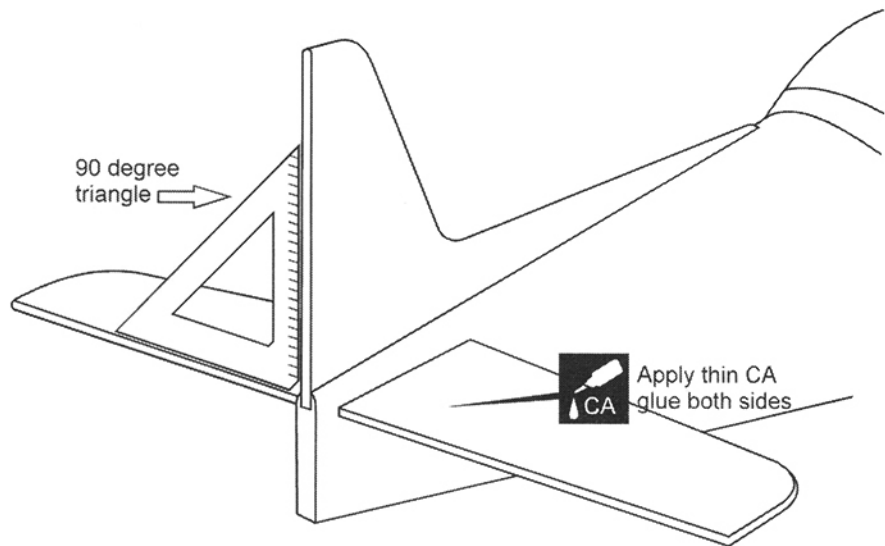


Cut away only the covering (both sides)

Insert the vertical fin into the fuselage, precisely align the vertical stabilizer as described in step 20B.

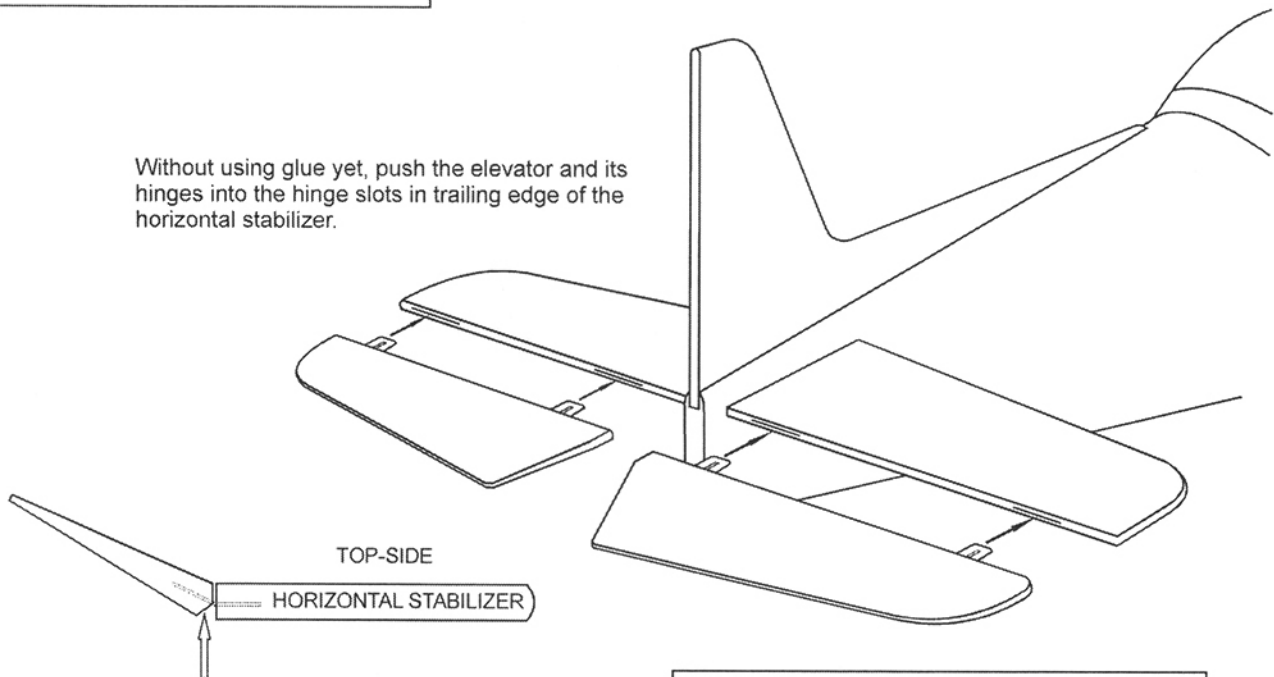
21B Apply the thin CA glue on the vertical stabilizer where it contacts the fuselage.

! Securely glue together. If coming off during fly, you lose control of your air plane.



22- Installing the elevator

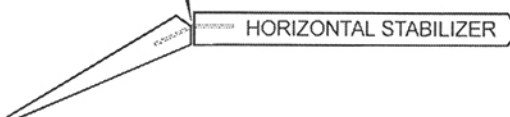
Without using glue yet, push the elevator and its hinges into the hinge slots in trailing edge of the horizontal stabilizer.



! Securely glue together. If coming off during fly, you lose control of your air plane.

Apply thin CA glue on both sides of the hinge

TOP-SIDE



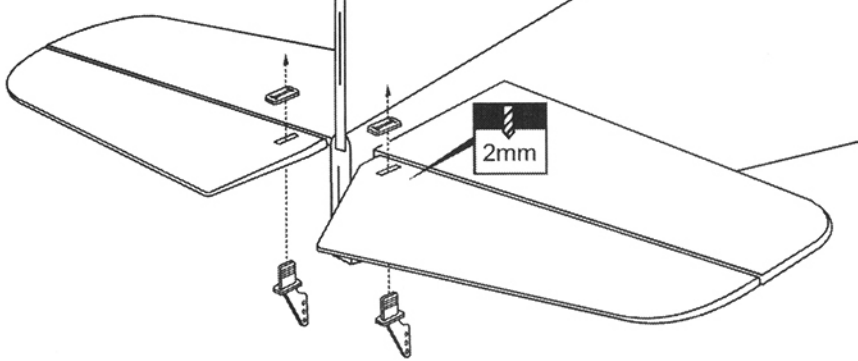
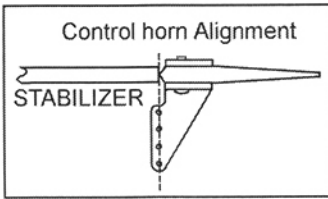
TOP-SIDE

HORIZONTAL STABILIZER

Apply thin CA glue on the bottom of the hinge



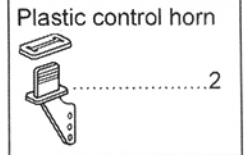
ZLIN Z-526 23- Elevator control horn



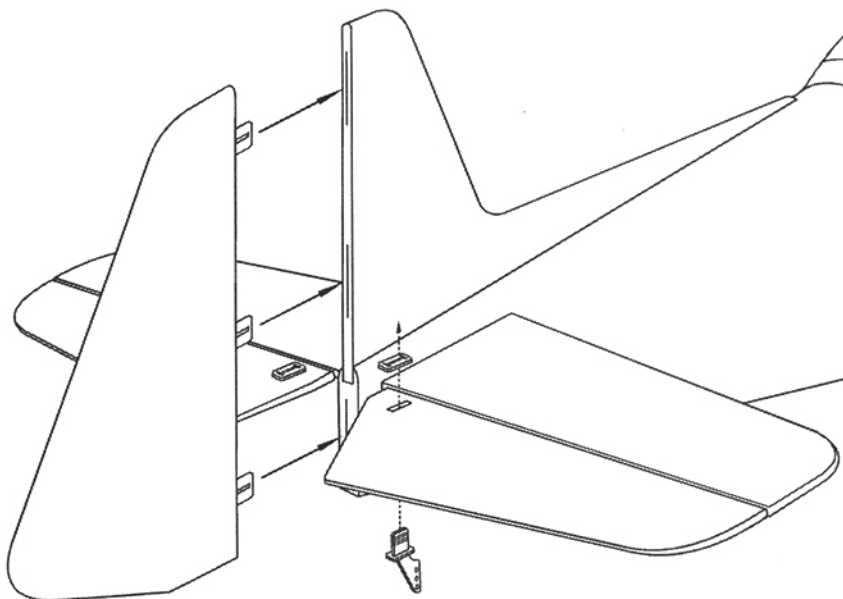
Push the elevator push-rod with clevis into the black nylon push-rod guide.

Using the plastic control horn as a template, mark the mounting hole positions, where the elevator clevis meet the elevator control horn with a felt tipped or a pencil. Move the plastic control horn and drill two 2mm holes through the elevator.

Attach the elevator control horn using the hardware provided (two 2x12mm screws and a back plate).



24- Installing the rudder - control horn



VERTICAL STABILIZER
(TOP VIEW)

Apply a thin layer of petroleum jelly on the leading edge of elevator.



Apply **thin CA** glue on both sides of the hinge

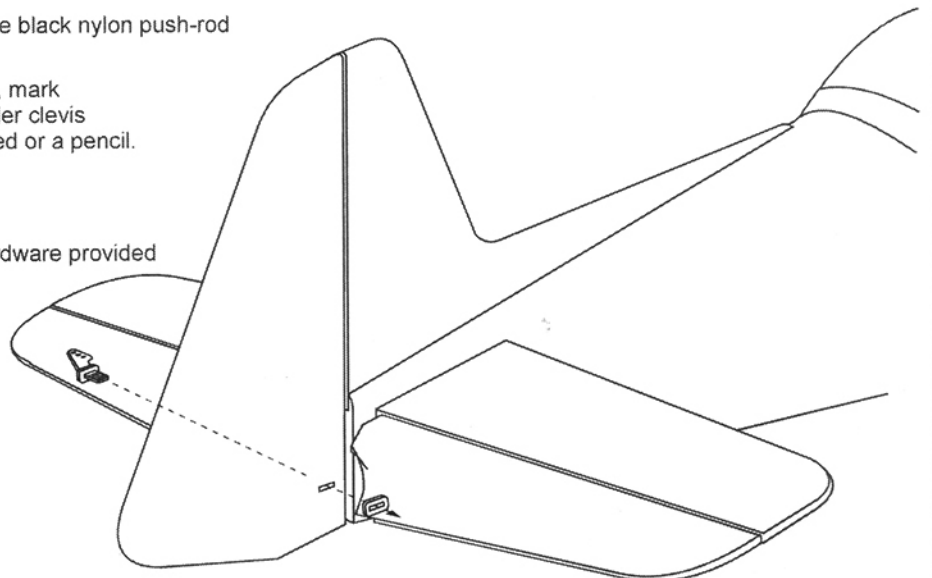
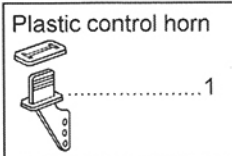
RUDDER

Push the rudder push-rod with clevis into the black nylon push-rod guide.

Using the plastic control horn as a template, mark the mounting hole positions, where the rudder clevis meet the rudder control horn with a felt tipped or a pencil.

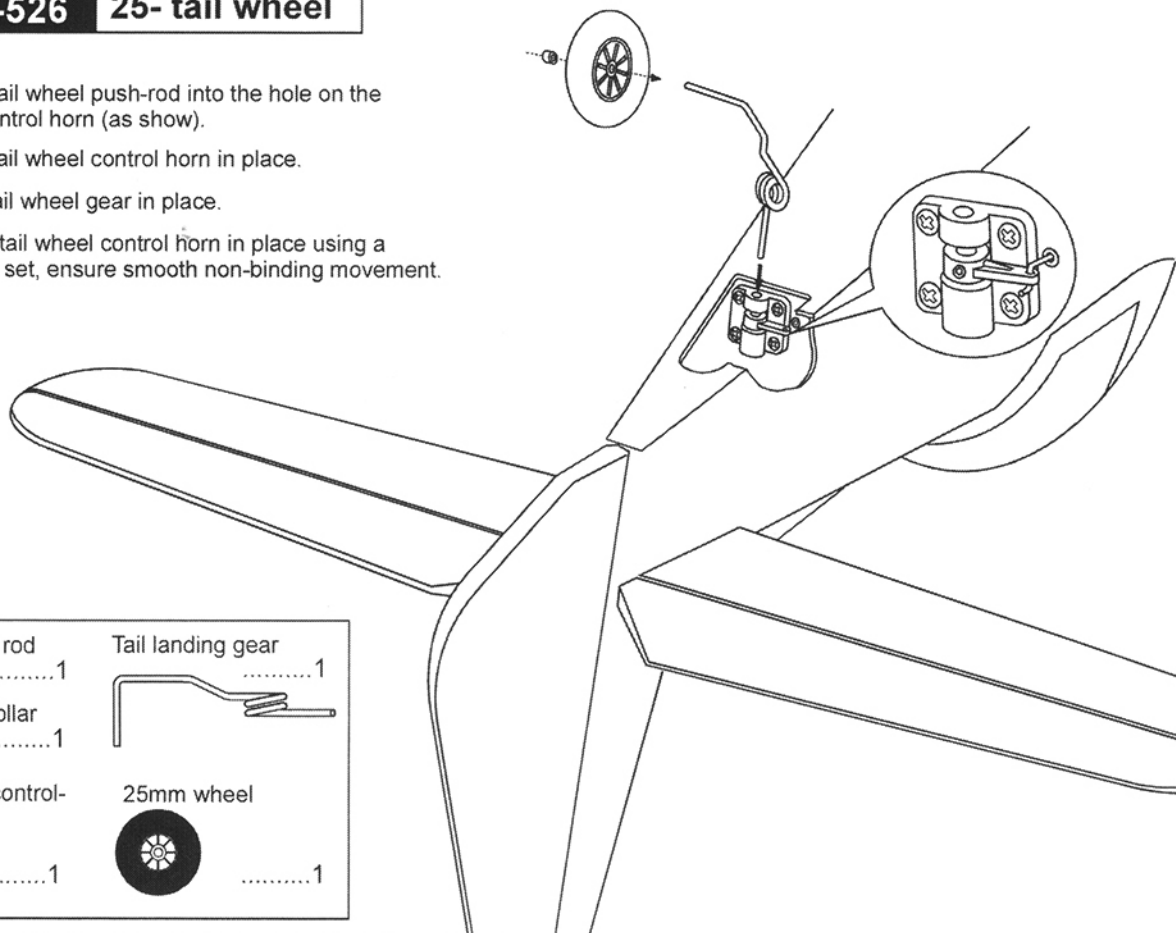
Remove the control horn and drill two 2mm holes through the rudder .

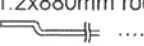

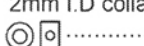
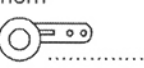

Attach the rudder control horn using the hardware provided (two 2x12mm screws and a back plate).



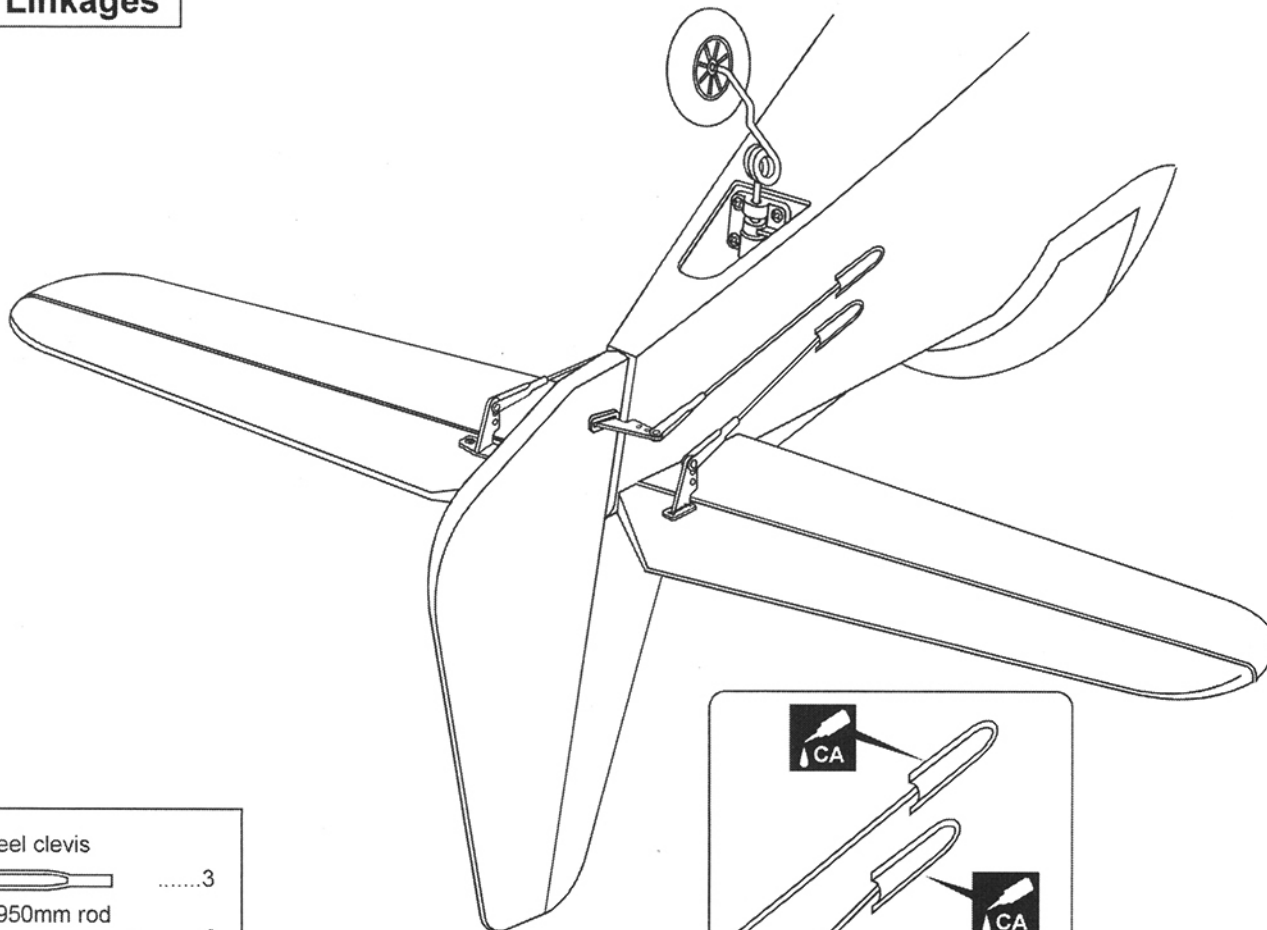
ZLIN Z-526 25- tail wheel


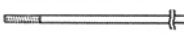
- Insert the tail wheel push-rod into the hole on the tail gear control horn (as show).
- Install the tail wheel control horn in place.
- Instal the tail wheel gear in place.
- Secure the tail wheel control horn in place using a 2mm screw set, ensure smooth non-binding movement.

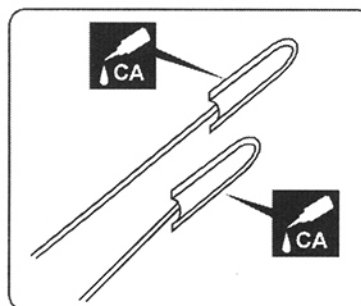


1.2x880mm rod 	1	Tail landing gear 	1
2mm I.D collar 	1		
Tail wheel control-horn 	1	25mm wheel 	1

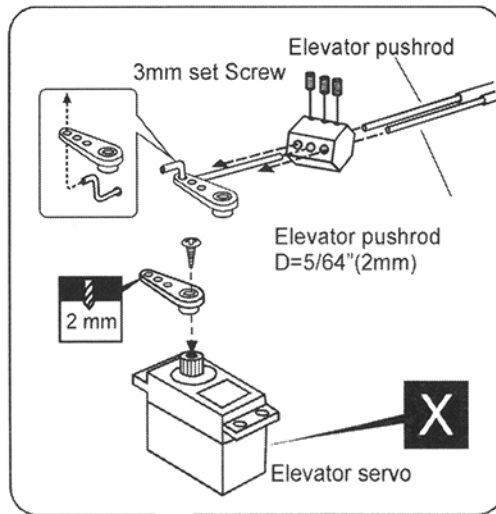
26- Linkages



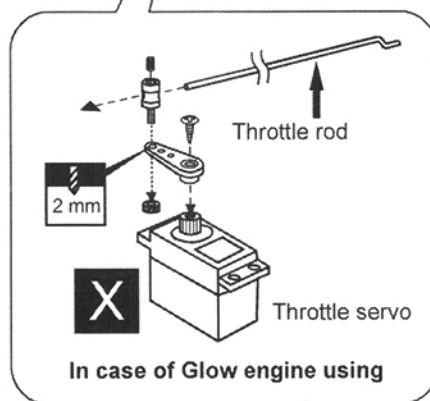
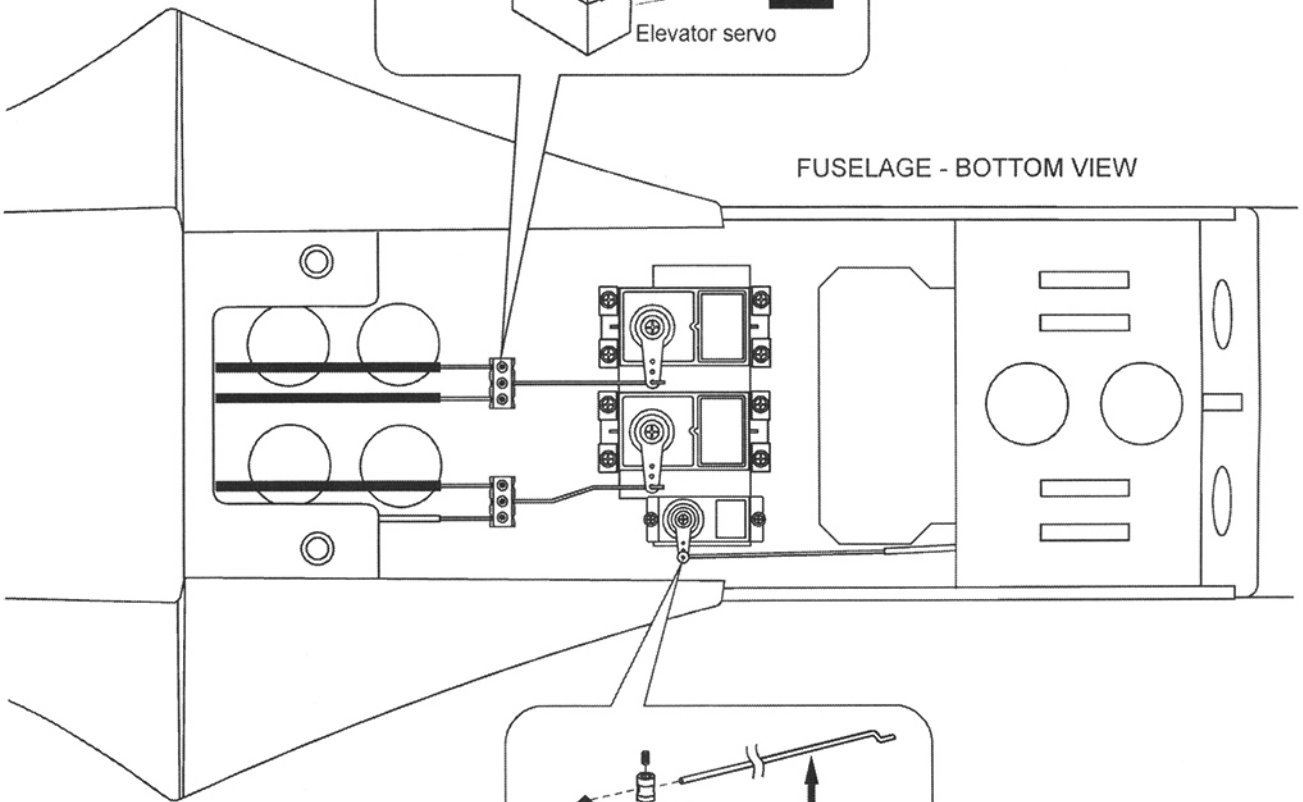
Steel clevis 	3
2x950mm rod 	3



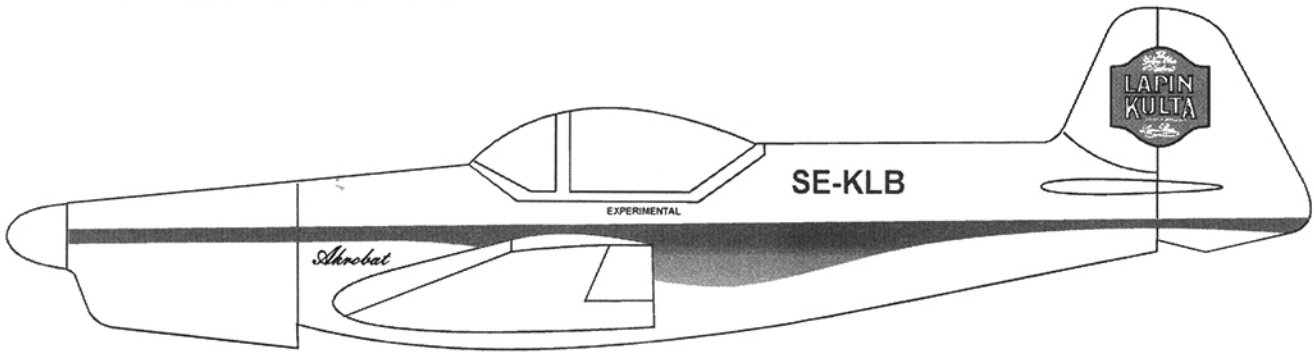
ZLIN Z-526 27- Servo - linkages



FUSELAGE - BOTTOM VIEW

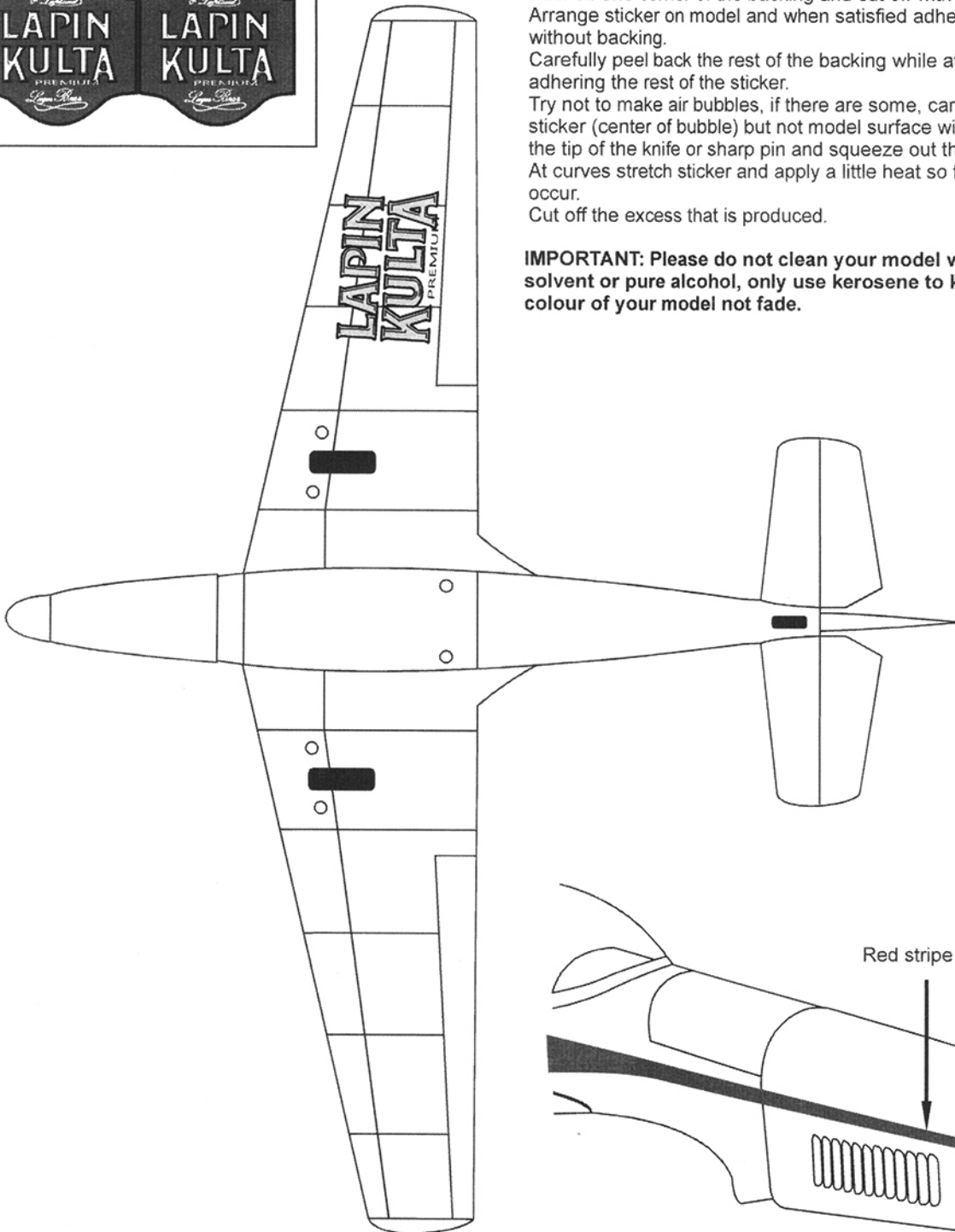


- (2 x120mm) rod2
- (1.2 x500mm) throttle rod1
- Connector
.....2
- 2mm1

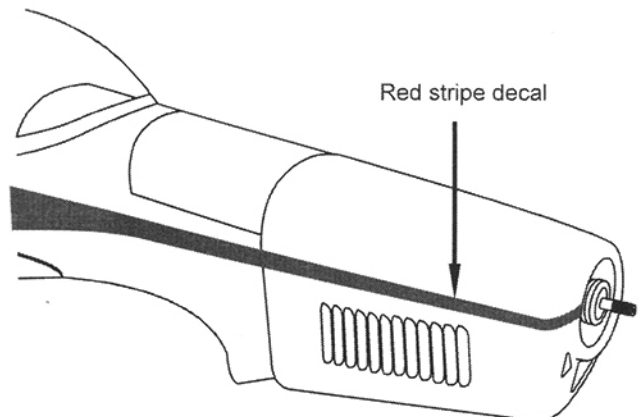


Note: Cut out the stickers and apply them in the proper area. Do not peel the backing paper off all at once. Peel off one corner of the backing and cut off with scissors. Arrange sticker on model and when satisfied adhere the corner without backing. Carefully peel back the rest of the backing while at the same time adhering the rest of the sticker. Try not to make air bubbles, if there are some, carefully puncture sticker (center of bubble) but not model surface with the tip of the knife or sharp pin and squeeze out the air. At curves stretch sticker and apply a little heat so that no ceases occur. Cut off the excess that is produced.

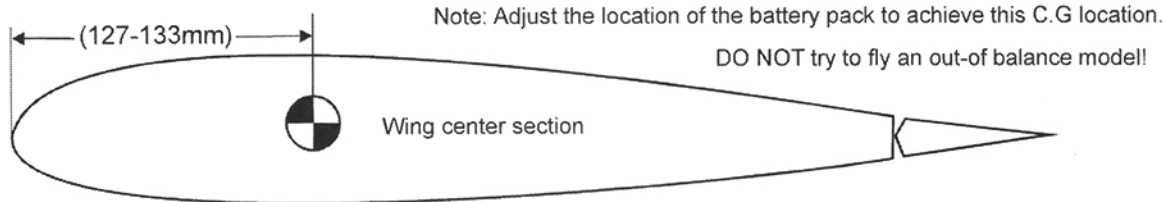
IMPORTANT: Please do not clean your model with strong solvent or pure alcohol, only use kerosene to keep the colour of your model not fade.



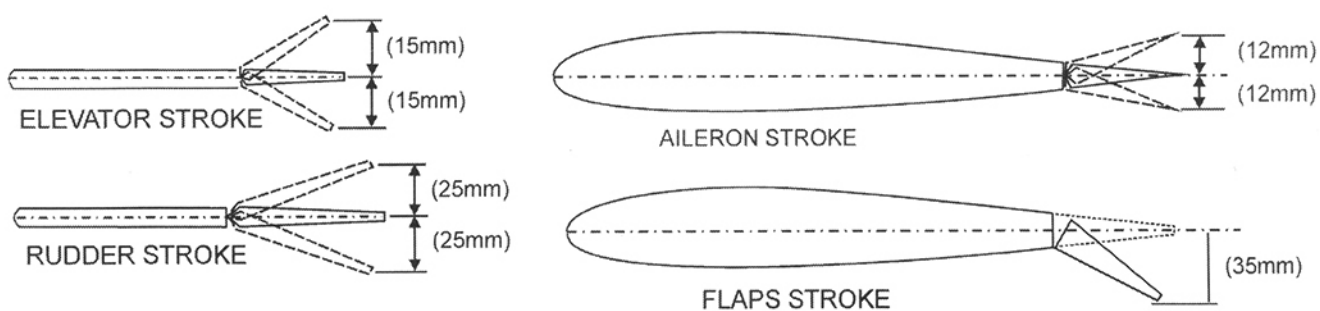
Red stripe decal



ZLIN Z-526 29- Balance



30- Control surface



Adjust the travel of the control surfaces to achieve the values stated in the diagrams.
These value will be suitable for average flight requirements. Adjust the values to suit your particular needs.