Radio control model / Flugmodel

FOKKER D.VII

1730mm Wingspan

ALL BALSA, PLYWOOD CONSTRUCTION AND ALMOST READY TO FLY

Instruction manual / Montageanleitung

SPECIFICATIONS

Wingspan:.....1730mm
Length (installed motor) 1350mm
Electric Motor:.....1650Watt
Glow Engine:..... 90 2-T / .120 4-T
RTF Weight: 5100g (will vary with equipment use).
Radio:.....5 Channels / 6 Servos
Function: Ailerons-Elevator-Rudder-Throttle.

TECHNISCHE DATEN

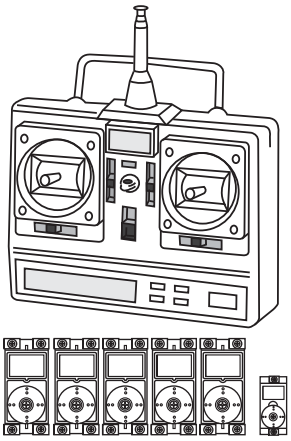
Spannweite:.....1730mm
Länge:.....1350mm
Elektroantrieb.....1650Watt
Verbrennerantrieb:.....90-2T / 120 4T
Fluggewicht:.....5.1Kg
Fernsteuerung.....5 Kanal / 6 Servos

RADIO CONTROL MODEL ®

WARNING! This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of controll 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.

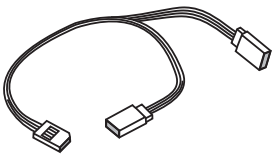
ACHTUNG! Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen. Bei unsachgemässer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein in Ihrer Nähe um professionelle Unterstätzung, 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)

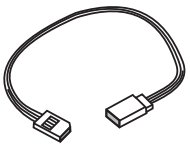


Standard Mini (19g)

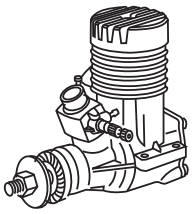
Minimum 6 channel radio
Elevator : 2 standard servo
Rudder: 1 standard servo
Aileron: 2 standard servo
Throttle: 1 mini servo (for glow engine only)



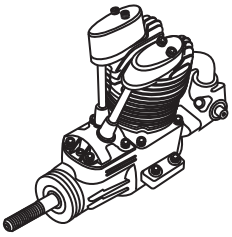
Aileron: “Y”x1pcs



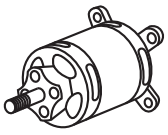
Aileron: 50cmx2 pcs
Aileron: 20cmx2 pcs
Rx battery pack: 20cmx1 pcs



.90 - 2 cycle

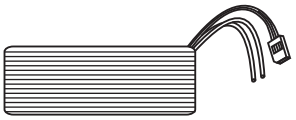


.120 - 4 cycle



1650W Brushless Motor

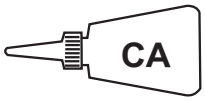
Silicone tube



LiPo. battery

GLUE (Purchase separately)

Silicon sealer



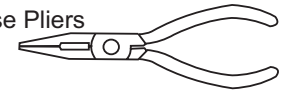
Cyanoacrylate Glue (thin type)

Epoxy Glue
(30 minute type)

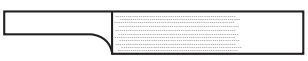
TOLLS REQUIRED (Purchase separately)

Hobby knife

Needle nose Pliers

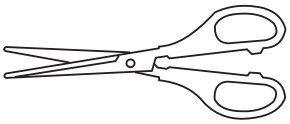


Sander



Phillip screw driver

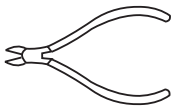
Scissors



Hex Wrench

Awl

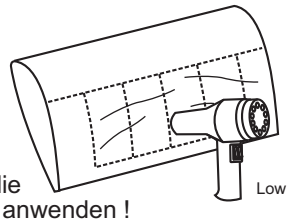
Wire Cutters



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

If exposed to direct sunlight and/or heat, wrinkels 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 Warumluftgebläse (Haartrockner) um evtl. Falten aus der Folie zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden !



Low seting

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”	

SAFETY NOTES BEFORE ASSEMBLING

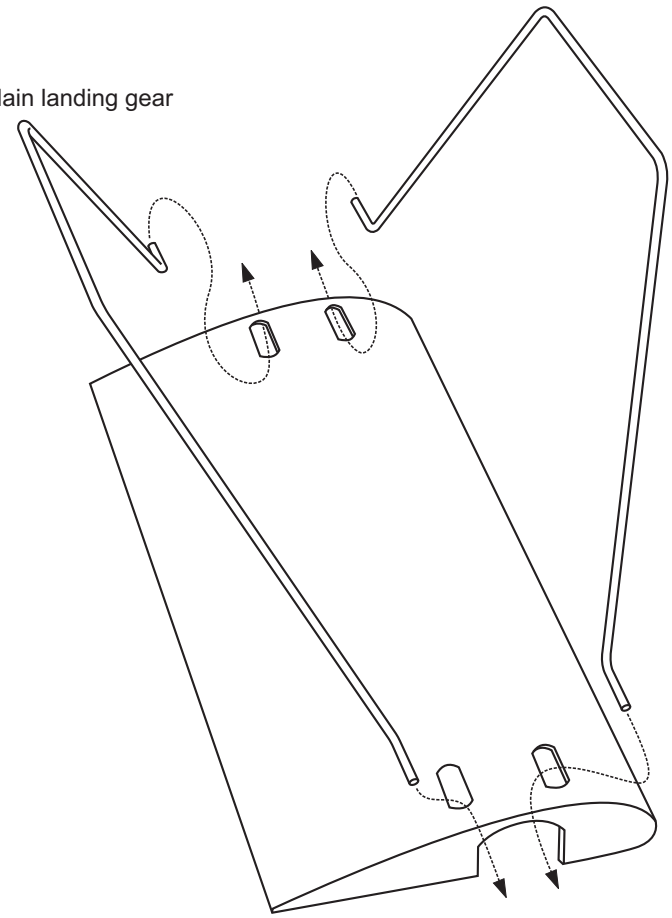
This model is highly pre-fabricated and can be built in a very short time. However, the work which you have to carry out is important and must be done carefully.
The model will only be strong and fly well if you complete your tasks competently - so please work slowly, accurately and check every joints, maybe apply more glue to be safe.

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

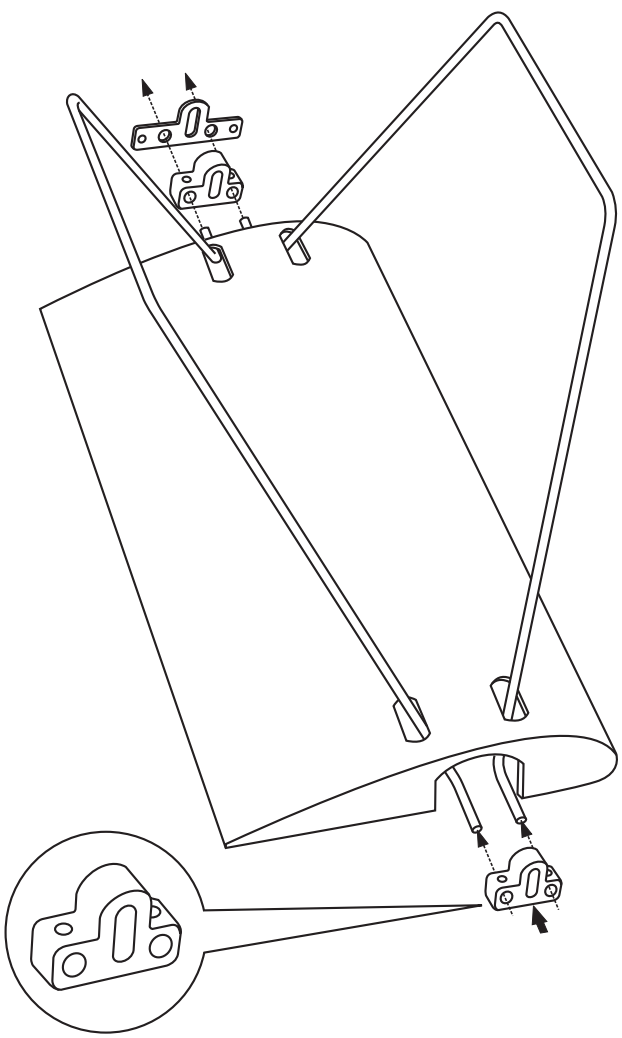
IMPORTANT: Please do not clean your model with pure alcohol or strong solvents, only use liquid soap with water or use glass cleaner to clean on surface of your model to keep the colour not fade.

1- Landing gear

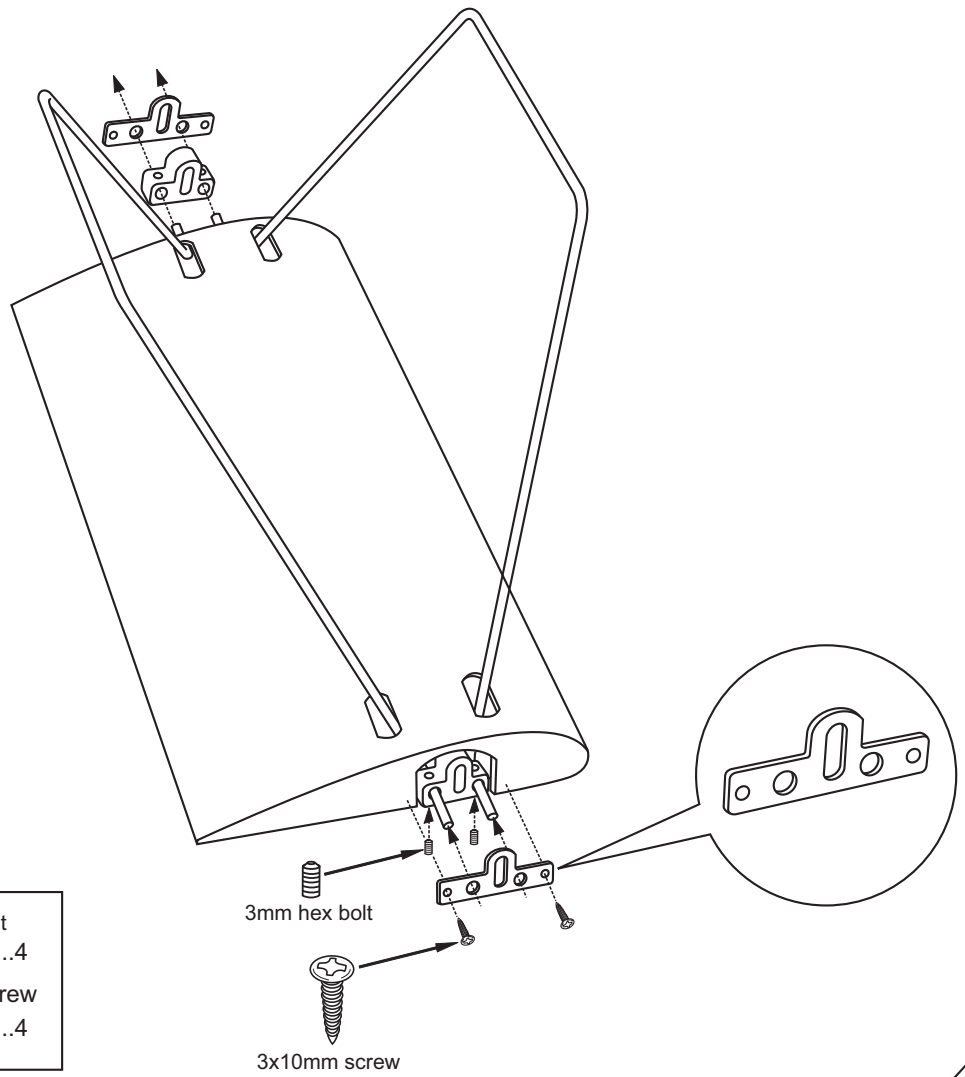
Main landing gear



Main landing gear

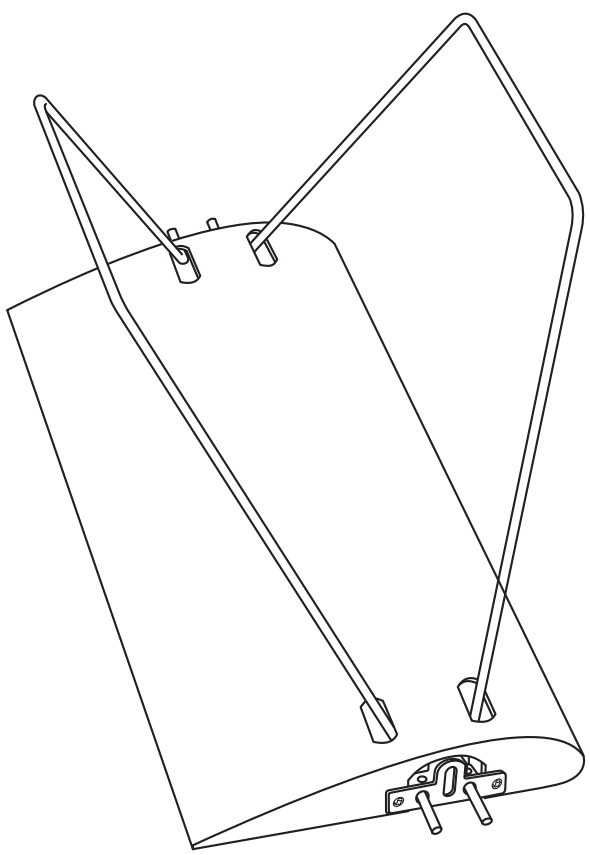


2- Landing gear

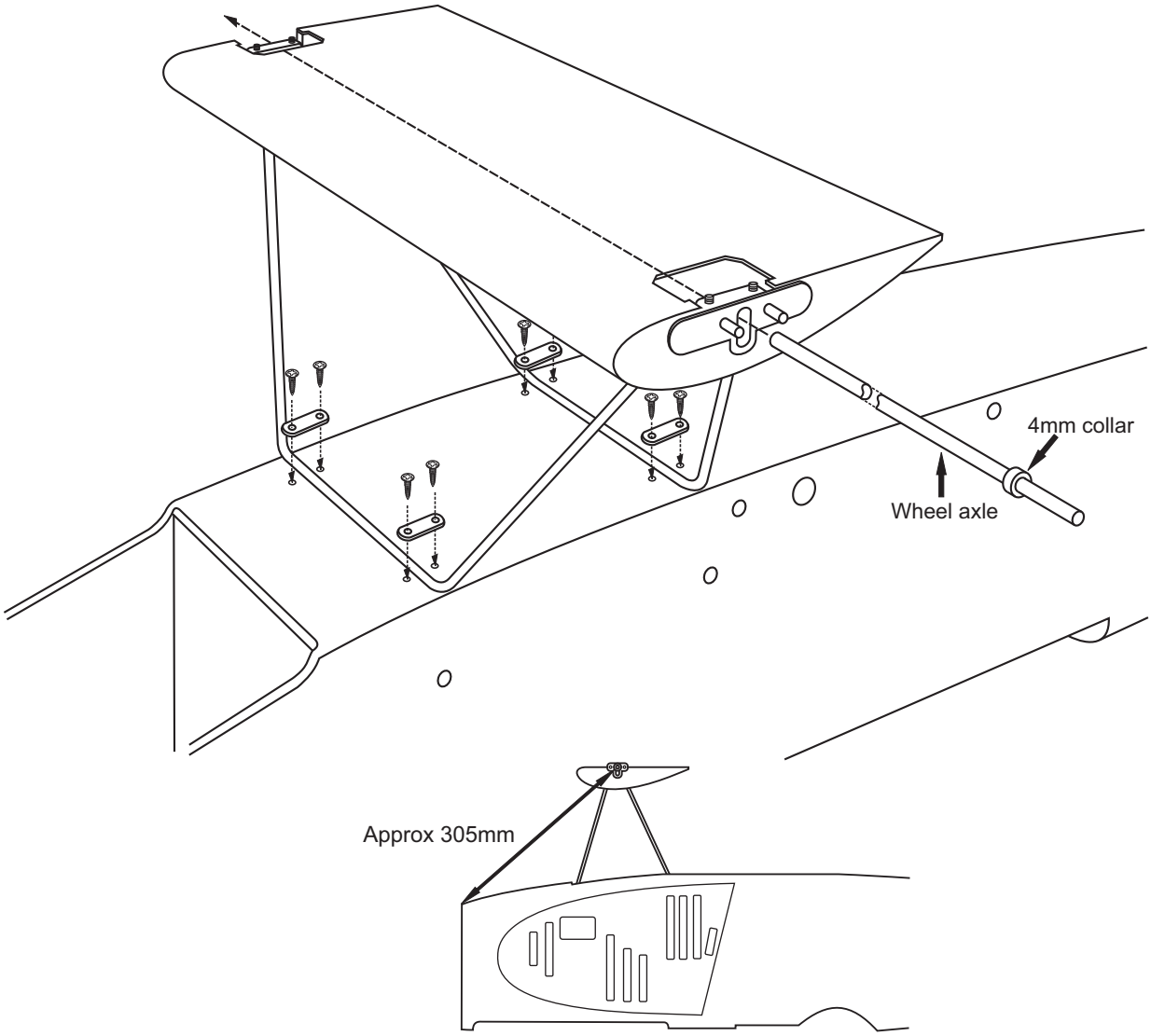


3mm hex bolt 4

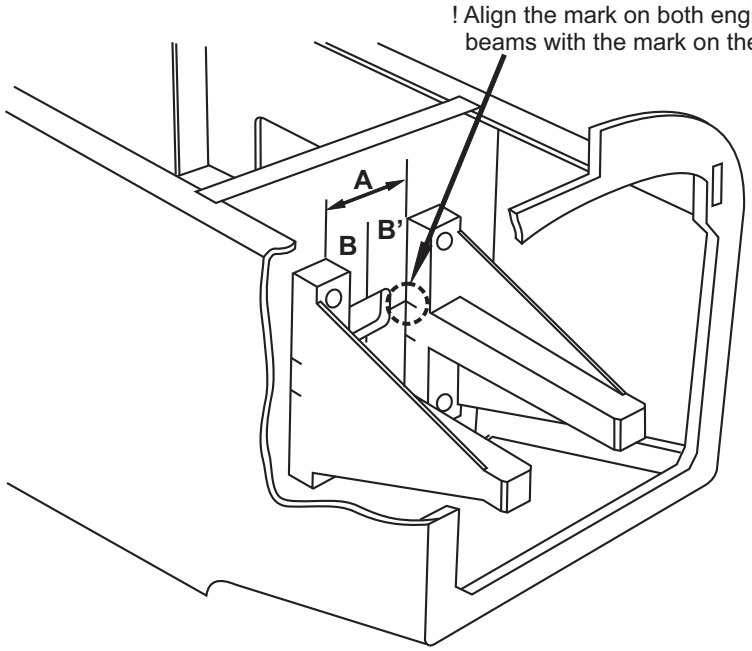
3x10mm screw 4

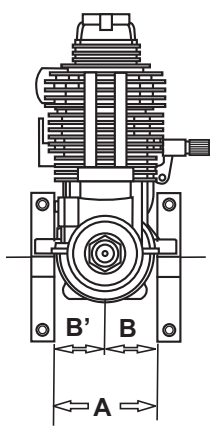


FOKKER D.VII 3- Landing gear



FOKKER D.VII 4- Engine mount

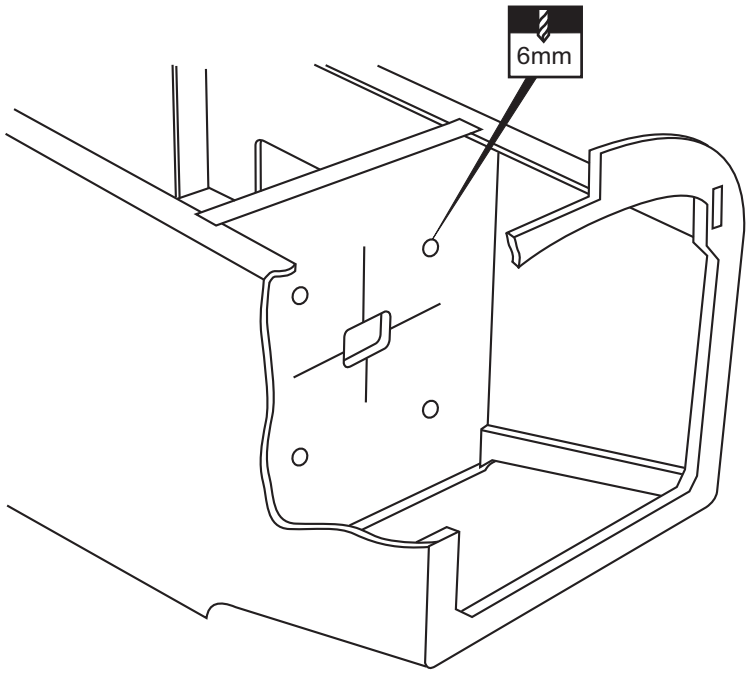




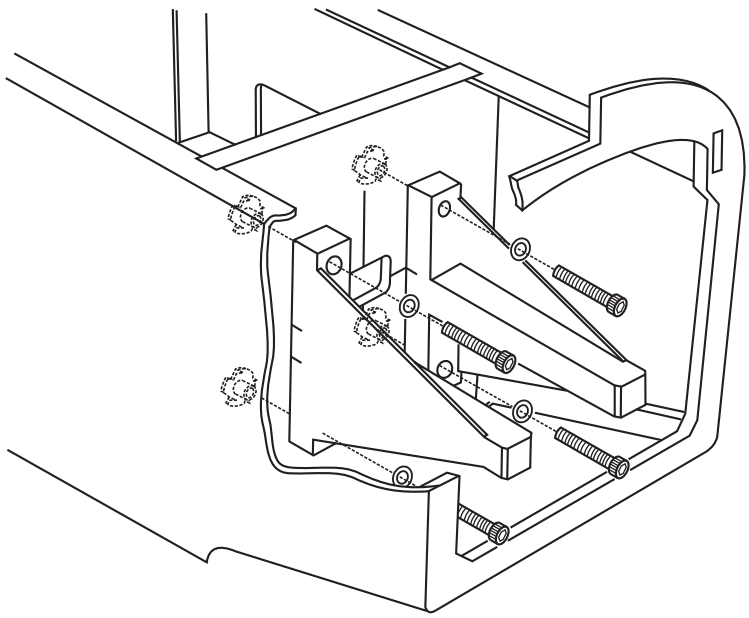
Attach the engine mount beams onto the fire-wall so the distance between of two engine mount beams is “A”,and B=B’ as show.
Secure the engine mount beams onto the fire-wall with litter CA glue

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

FOKKER D.VII 5- Engine mount



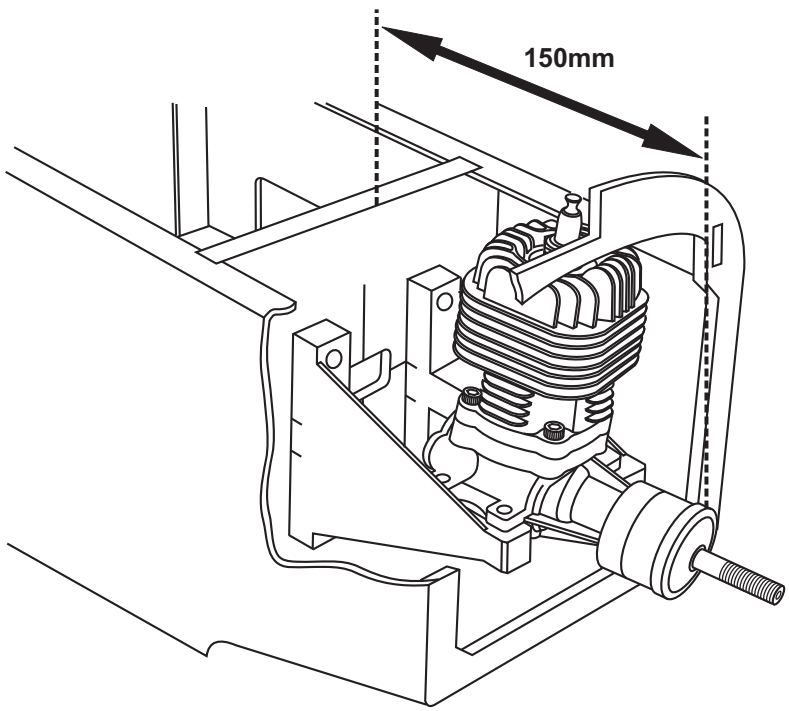
Carefully remove the engine mount beams and drill a 6mm hole through the fire-wall at each of the four marks made above.



Insert the blind-nut onto each of the four holes make above.

Reposition the engine mount beams on to the fire-wall and secure them with four 4x25mm hexagonal bolts.

FOKKER D.VII 6- Engine

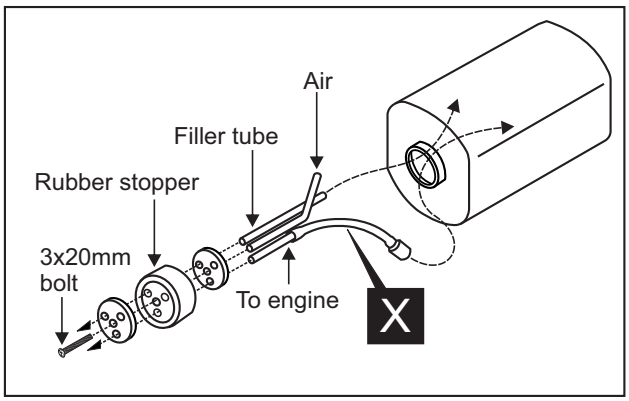


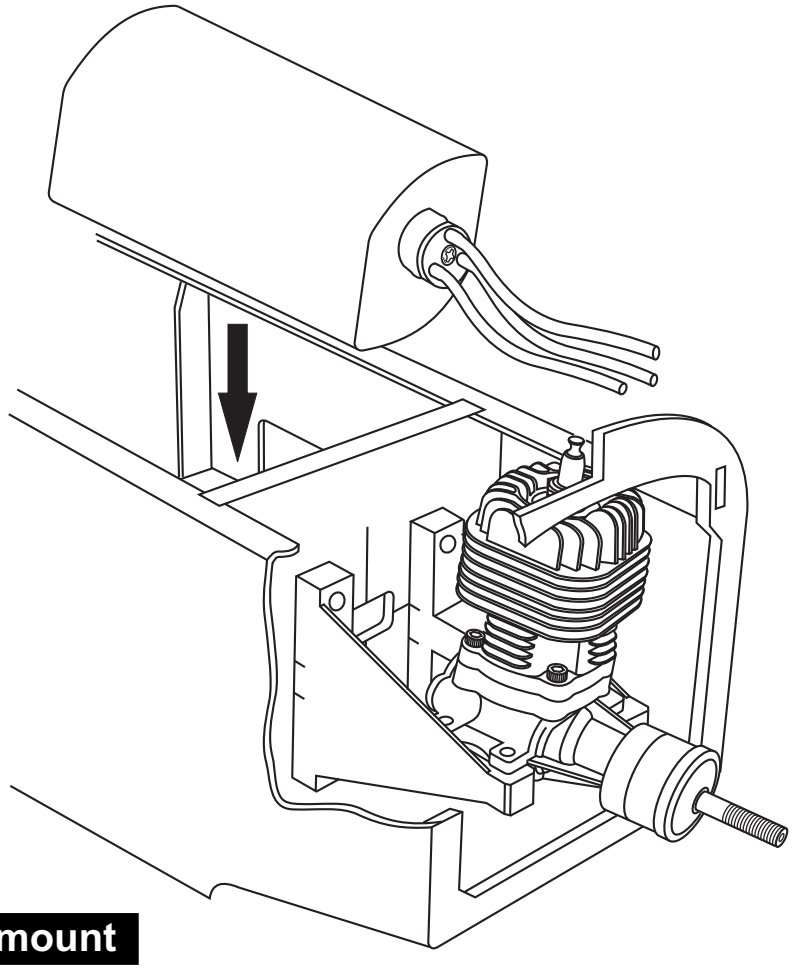
4x25mm hexagonal bolt - washer 4

Blind-nut 4

Position the engine to the engine mounts so the distance from the prop hub to the fire-wall is 150mm.
Mark the engine mount beams where the four holes are to be drilled.

FOKKER D.VII 7- Fuel tank

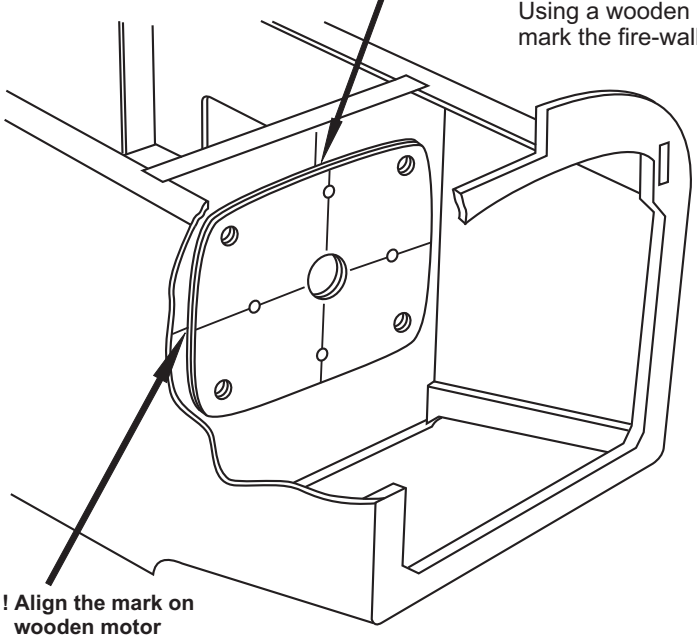




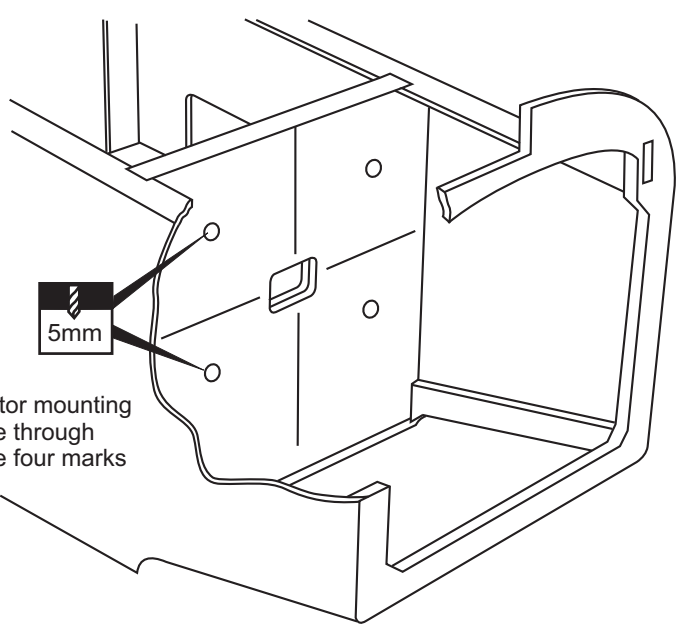
FOKKER D.VII 8- Electric motor mount

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

Using a wooden motor mounting plate as a template, mark the fire-wall where the four holes are to be drilled.



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

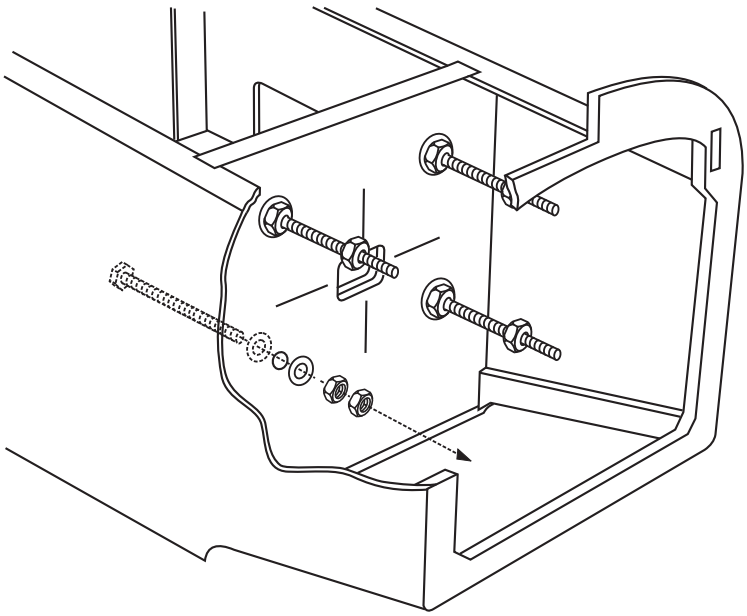


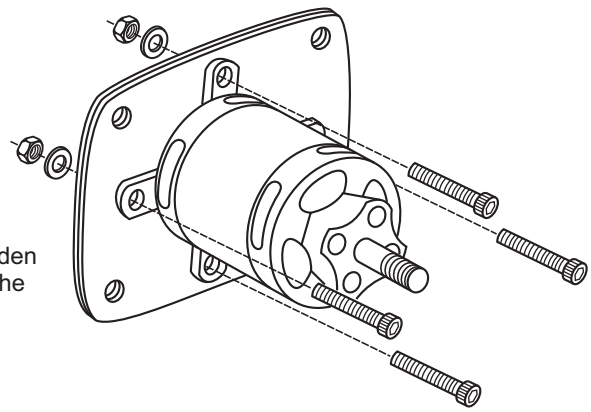
Remove the wooden motor mounting plate and drill a 5mm hole through the fire-wall at each of the four marks marked .

FOKKER D.VII 9- Electric motor mount

5x80mm bolt.....4
5mm nut.....12
5mm washer...16

Attach the four 5x80mm bolts and nuts to the fire-wall as shown.

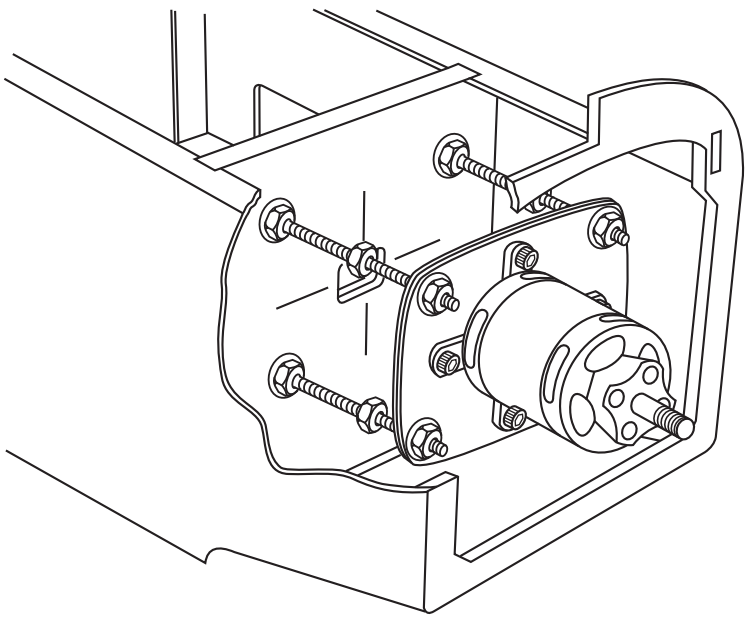


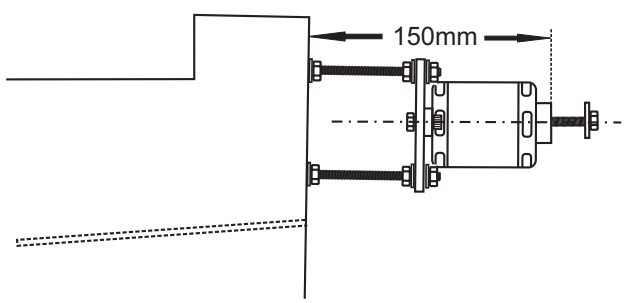


3mm bolt / nut...4

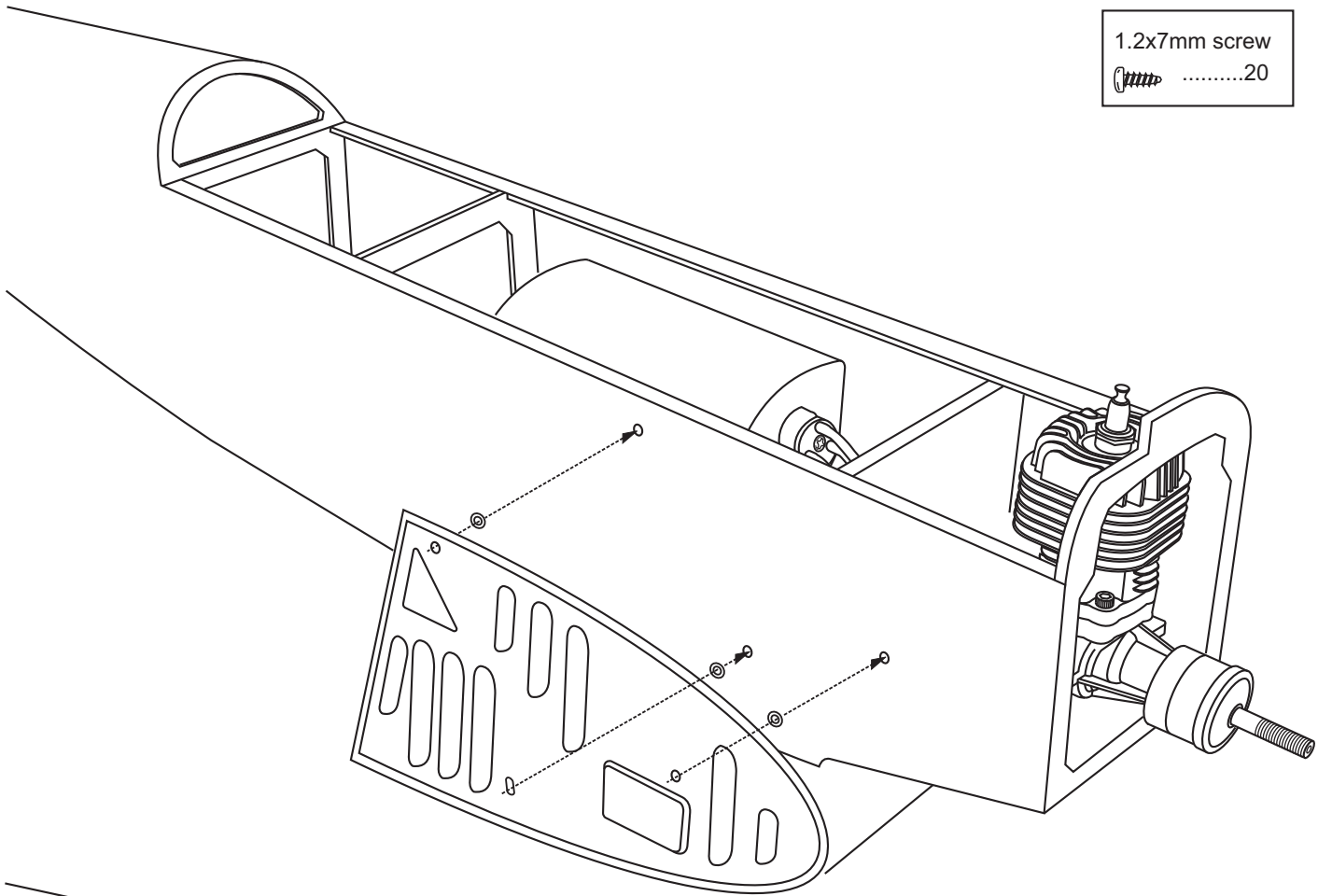
Secure the Motor to the wooden motor mounting plate using the four 3mm bolts.

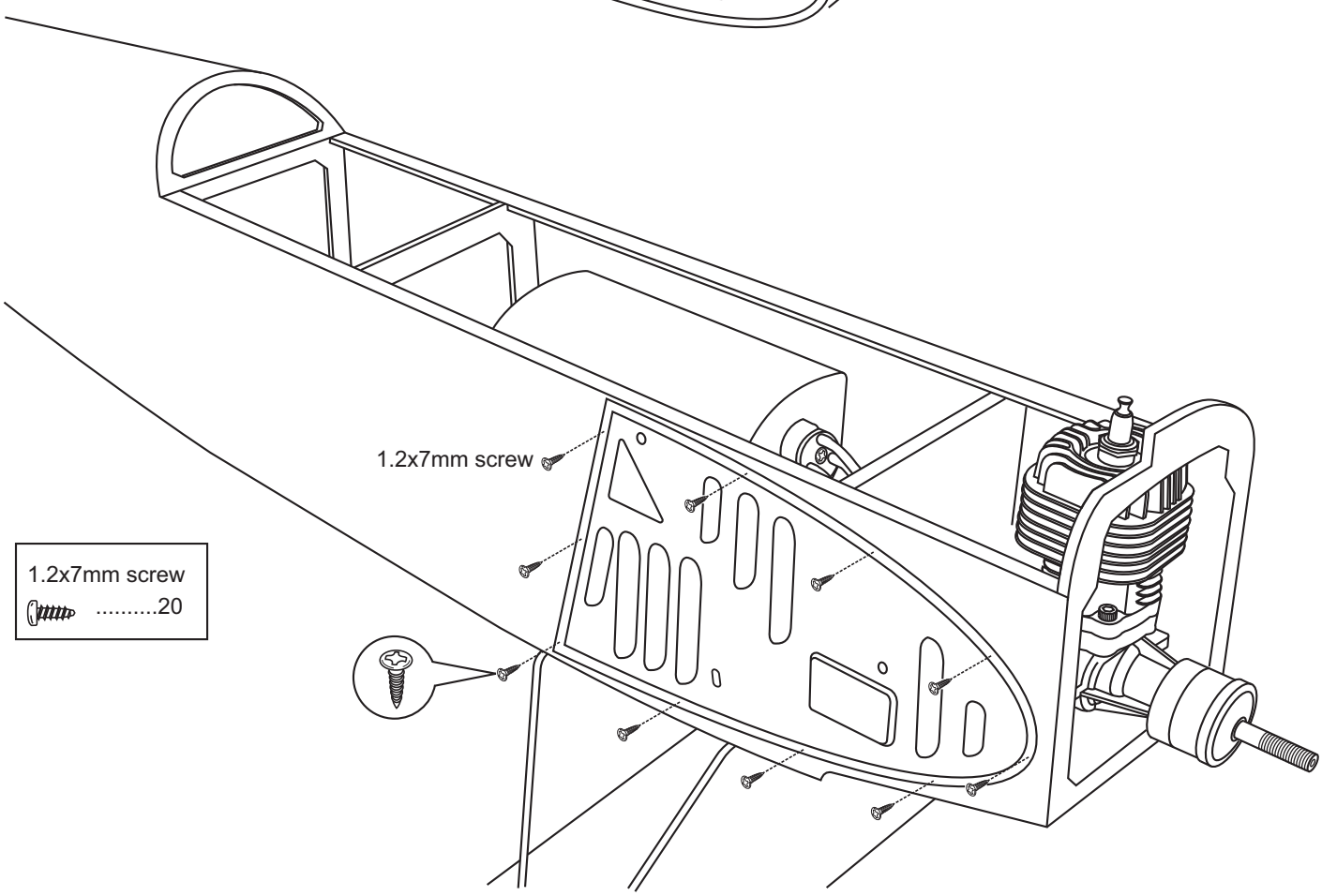
Adjust the wooden motor mount so the distance from the prop hub to the fire-wall is 150mm.



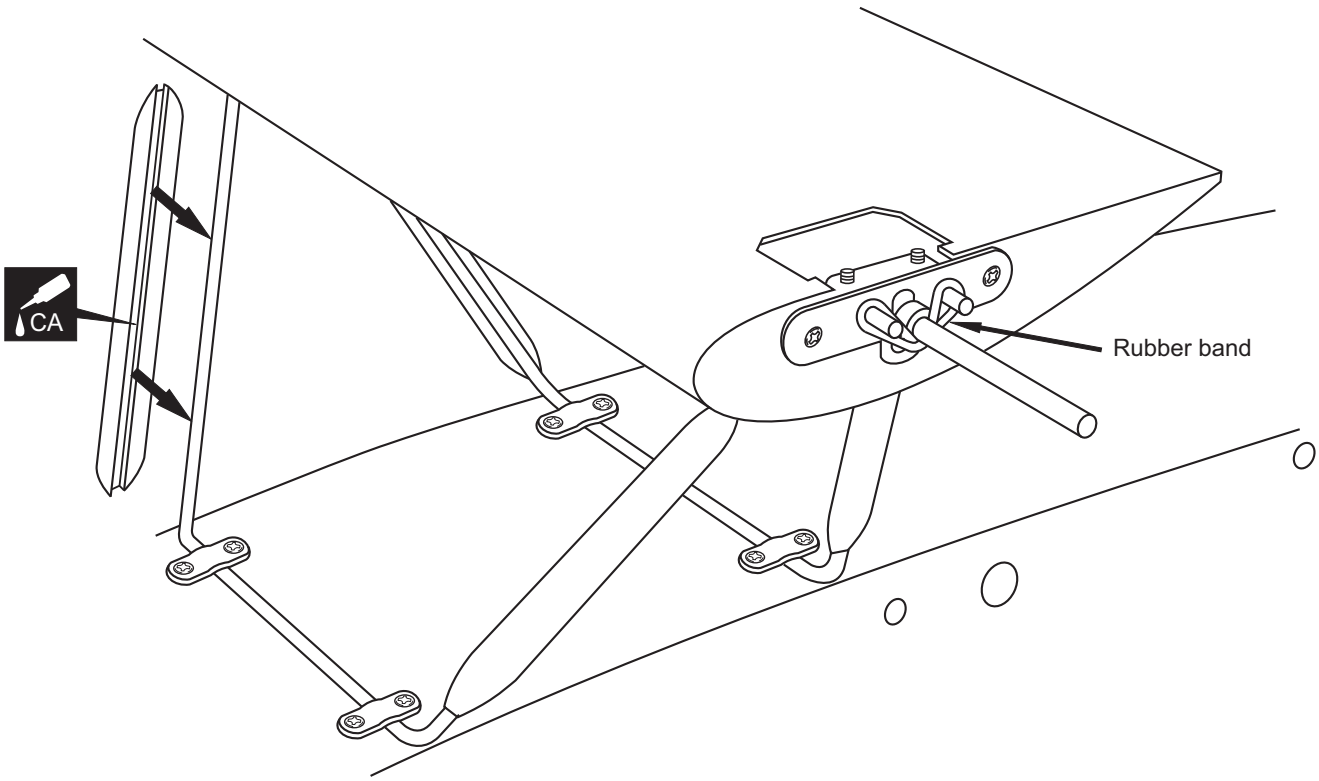


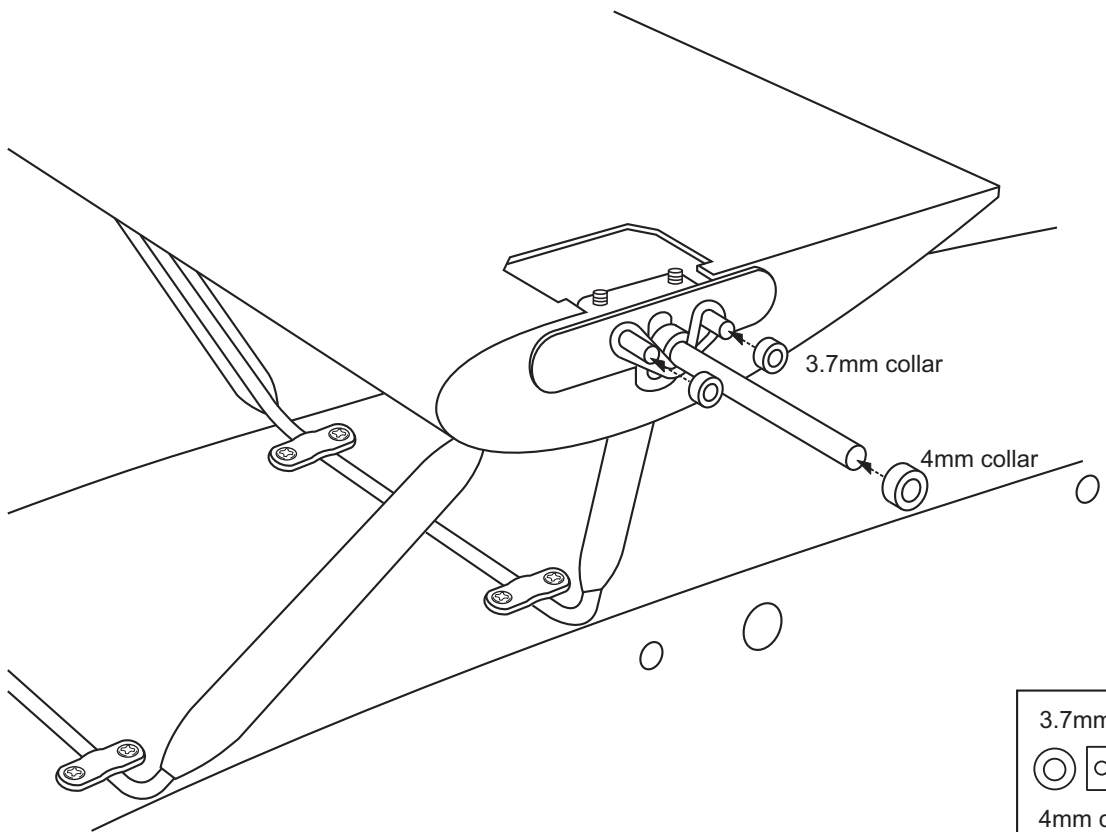
10- Plastic side cover





11- Landing gear: rubber band installation

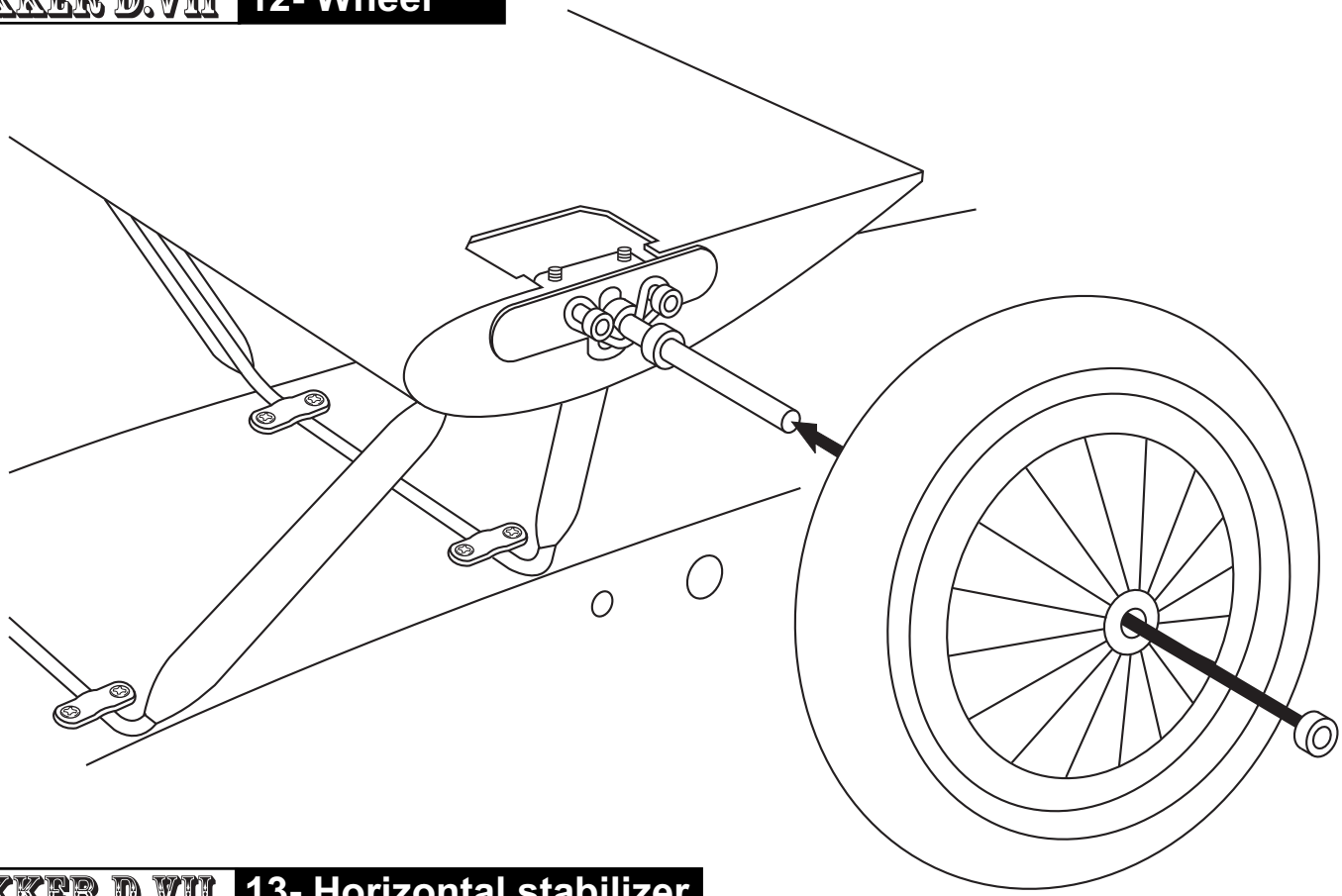




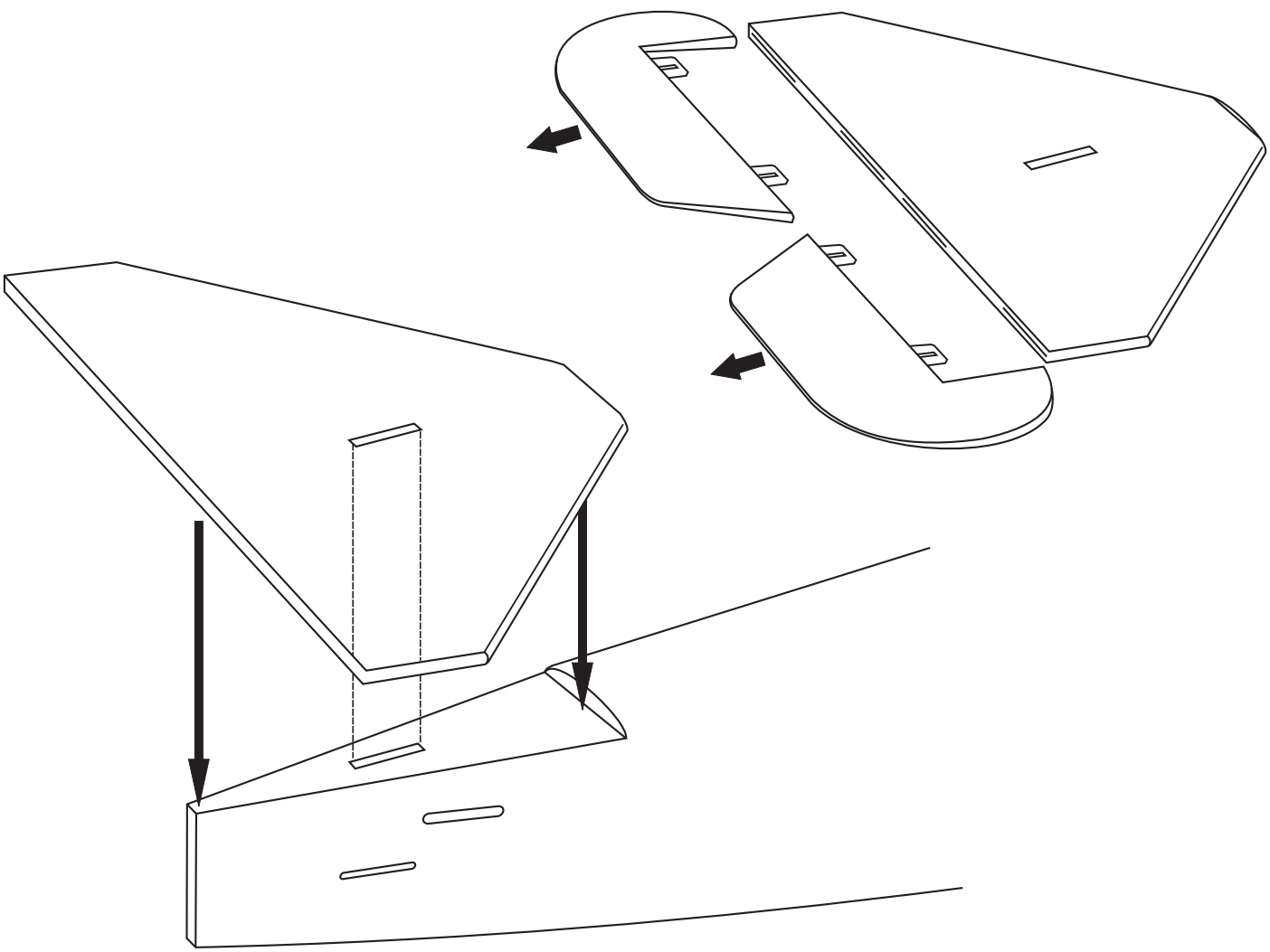
3.7mm collar 4

4mm collar 6

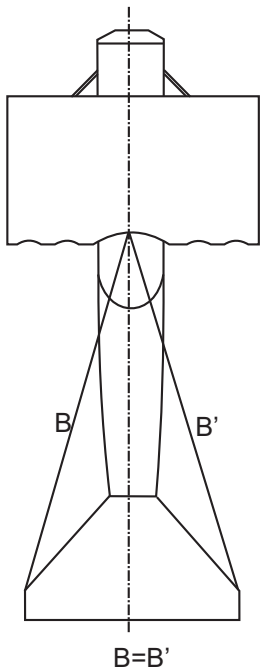
FOKKER D.VII **12- Wheel**

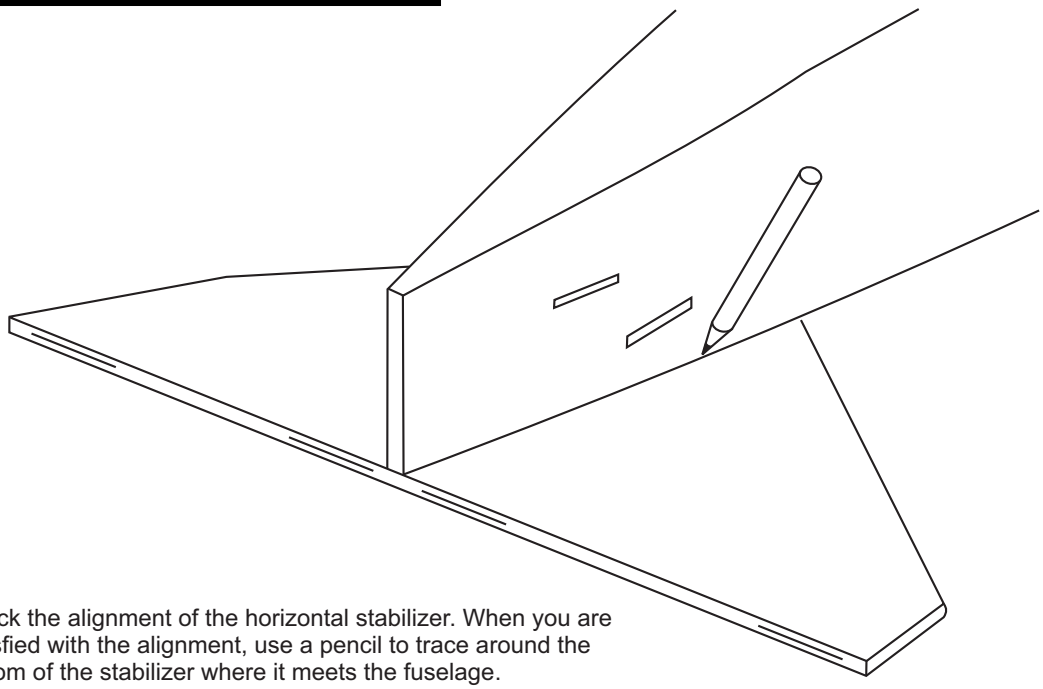


FOKKER D.VII **13- Horizontal stabilizer**

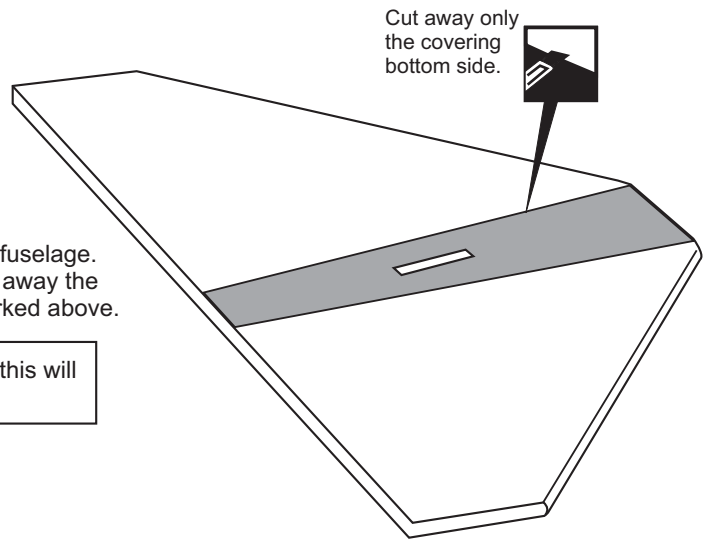


14- Horizontal stabilizer



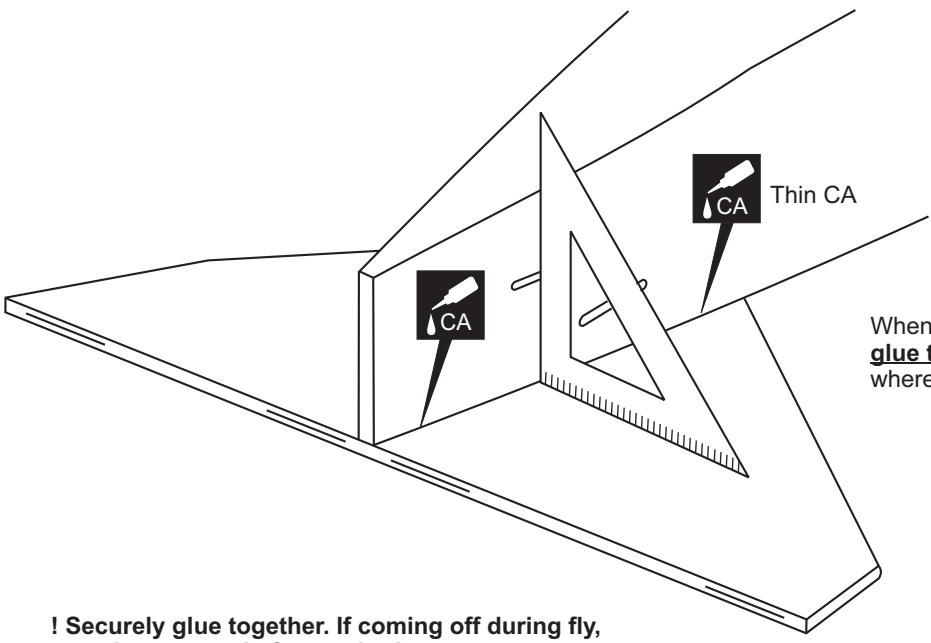


Check the alignment of the horizontal stabilizer. When you are satisfied with the alignment, use a pencil to trace around the bottom of the stabilizer where it meets the fuselage.



Remove the horizontal stabilizer from the fuselage. Using the 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**.**



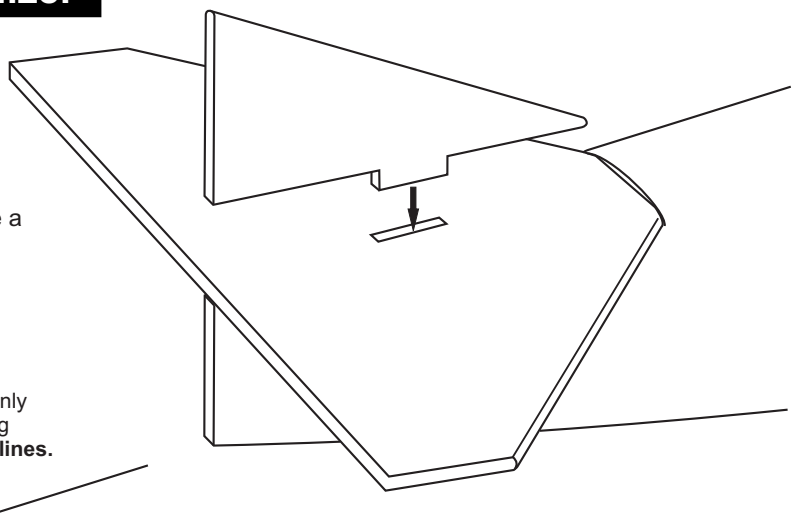
When you are satisfied with the alignment, **glue the bottom side** of the horizontal stabilizer where it meets the fuselage.

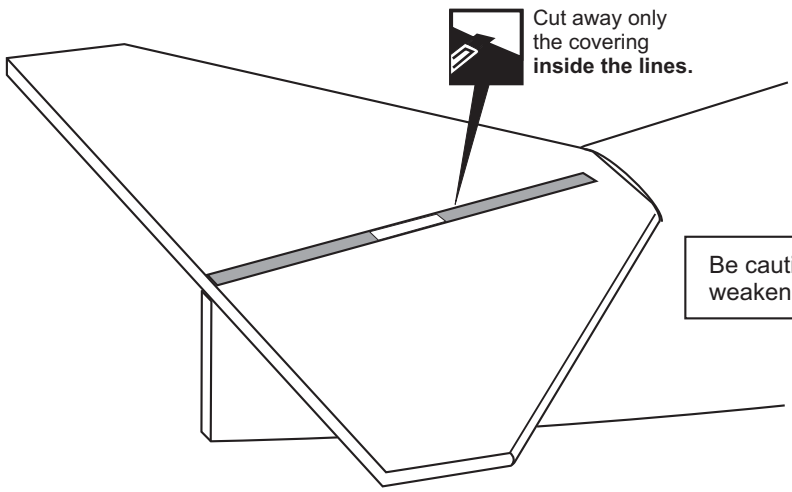
! Securely glue together. If coming off during fly, you lose control of your air plane.

FOKKER D.VII 15- Vertical stabilizer

Trial fit the vertical stabilizer in place on the horizontal stabilizer. Check the alignment of the vertical stabilizer with the horizontal stabilizer.

When you are satisfied with the alignment, use a pencil to trace around the top of the horizontal stabilizer where it meets the vertical stabilizer.





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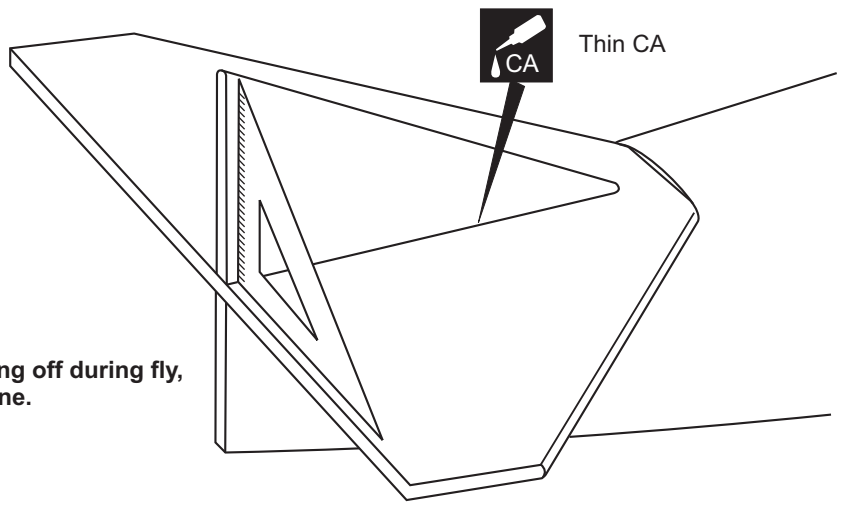
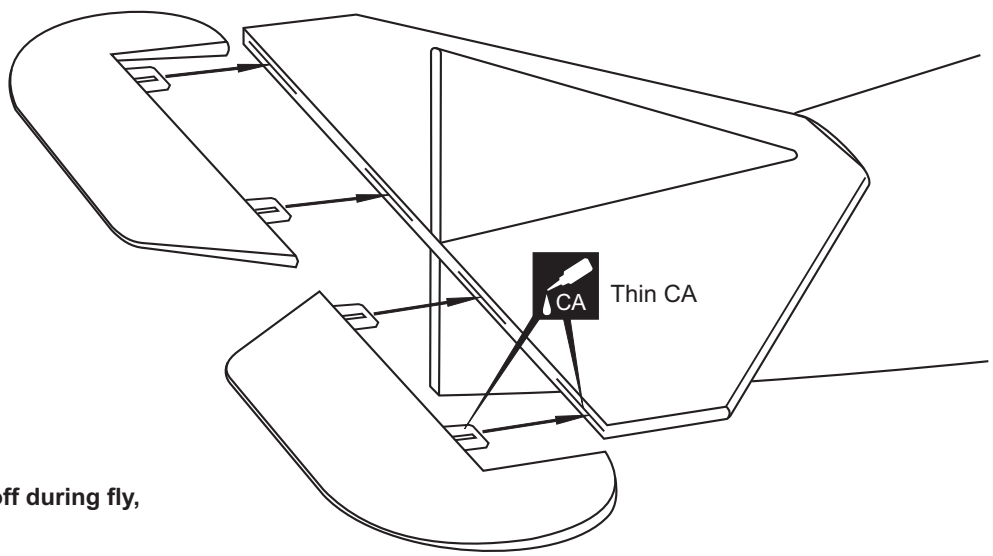


! Securely glue together. If coming off during fly, you lose control of your air plane.

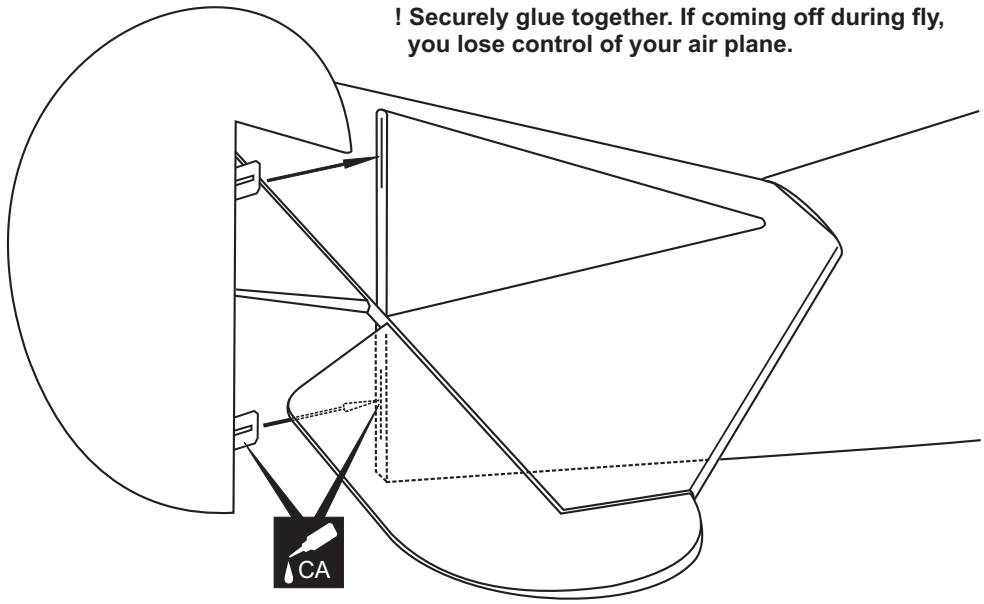
FOKKER D.VII 16- Elevator



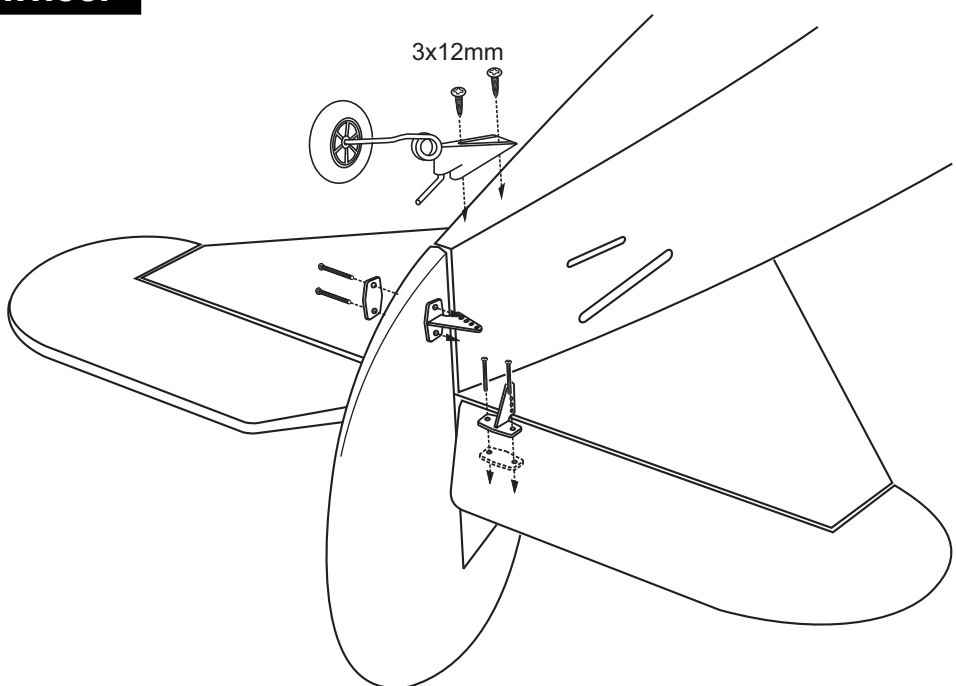
! Securely glue together. If coming off during fly, you lose control of your air plane.

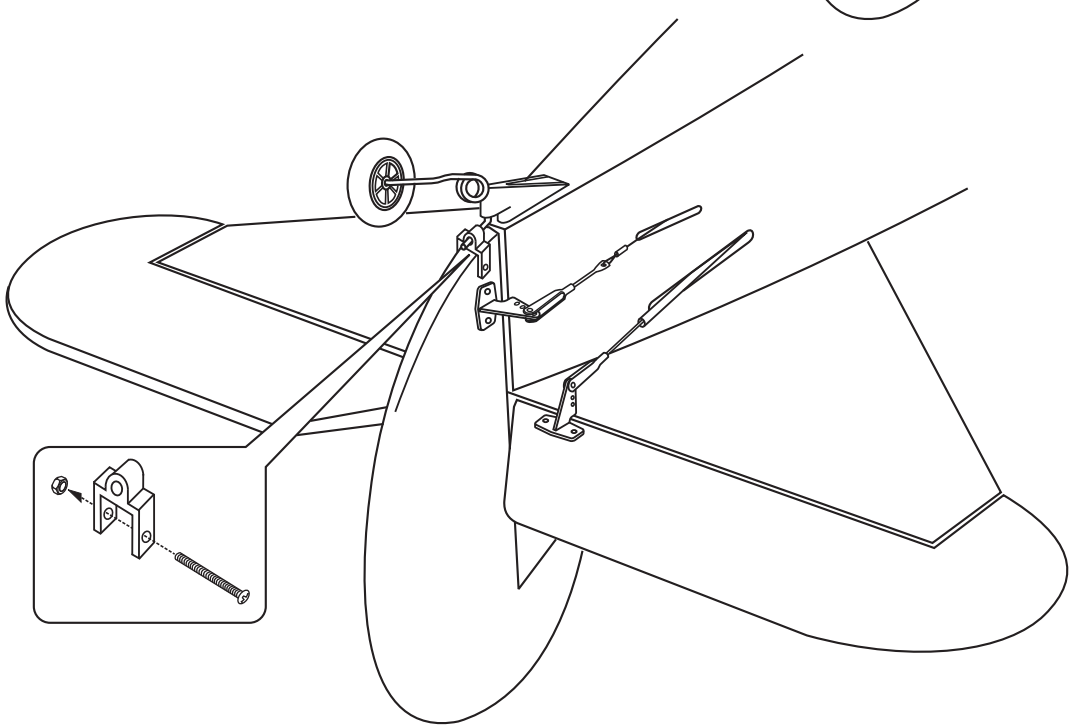
FOKKER D.VII 17- Rudder

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

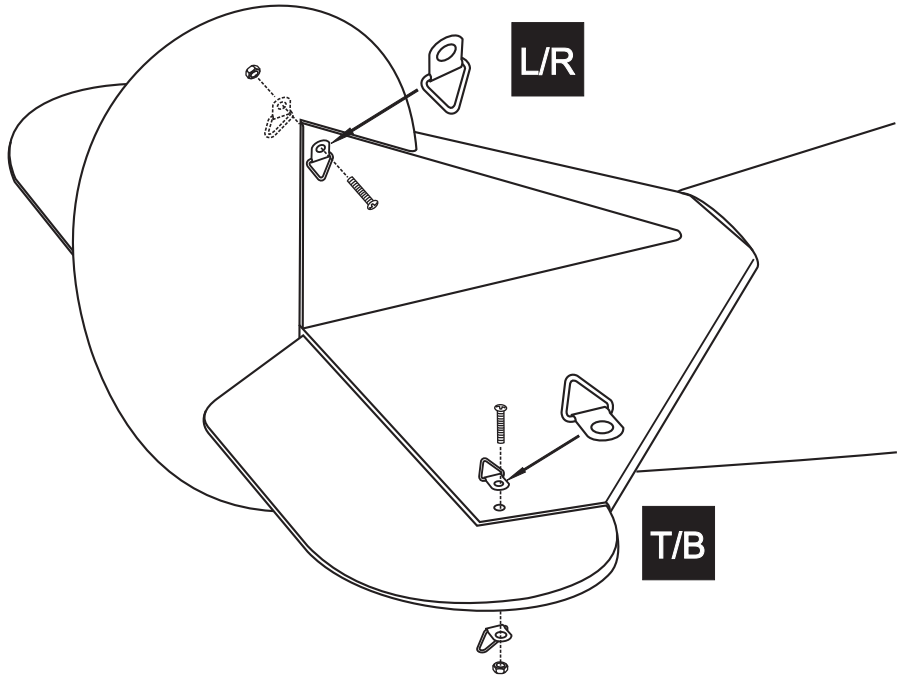


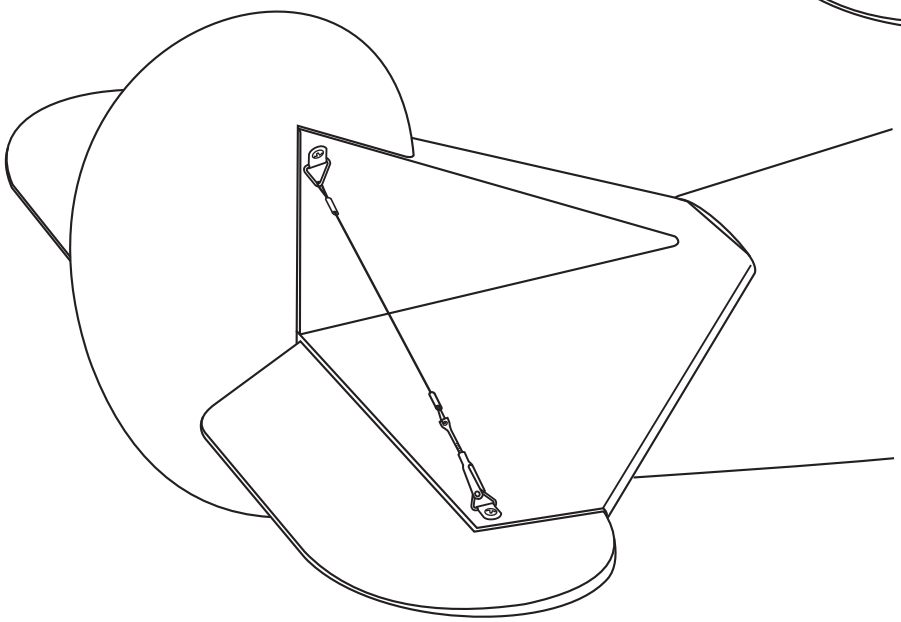
FOKKER D.VII 18- Tail wheel

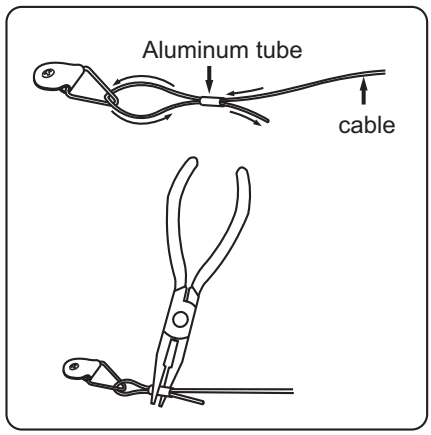


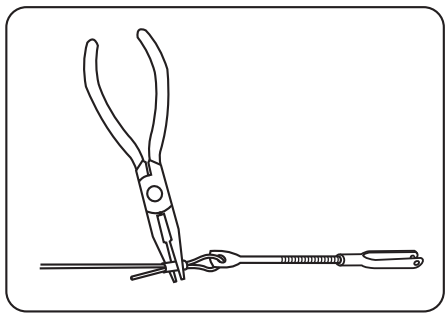


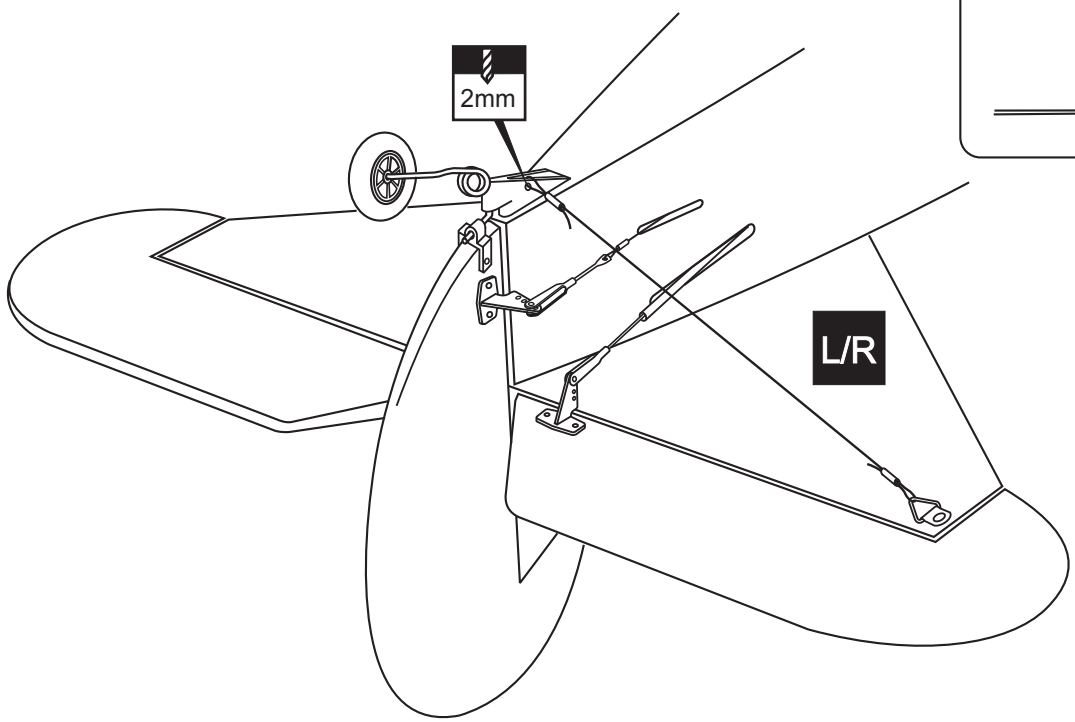
19- Ligament cable











0.7mm dia. Cable ...1 roll

2mm metal tube 8

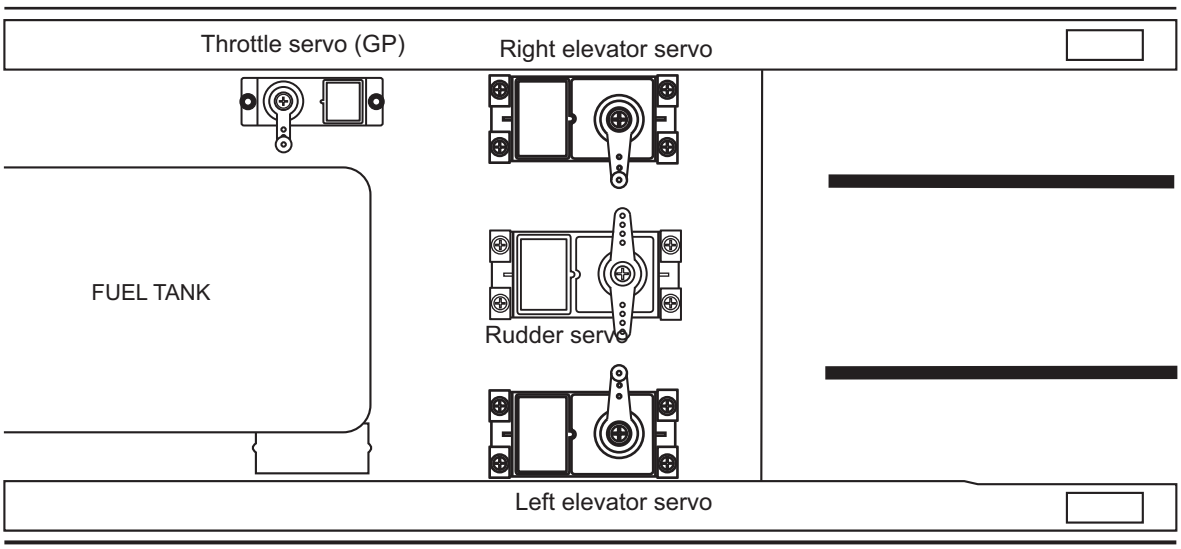
.....2

.....2

.....4

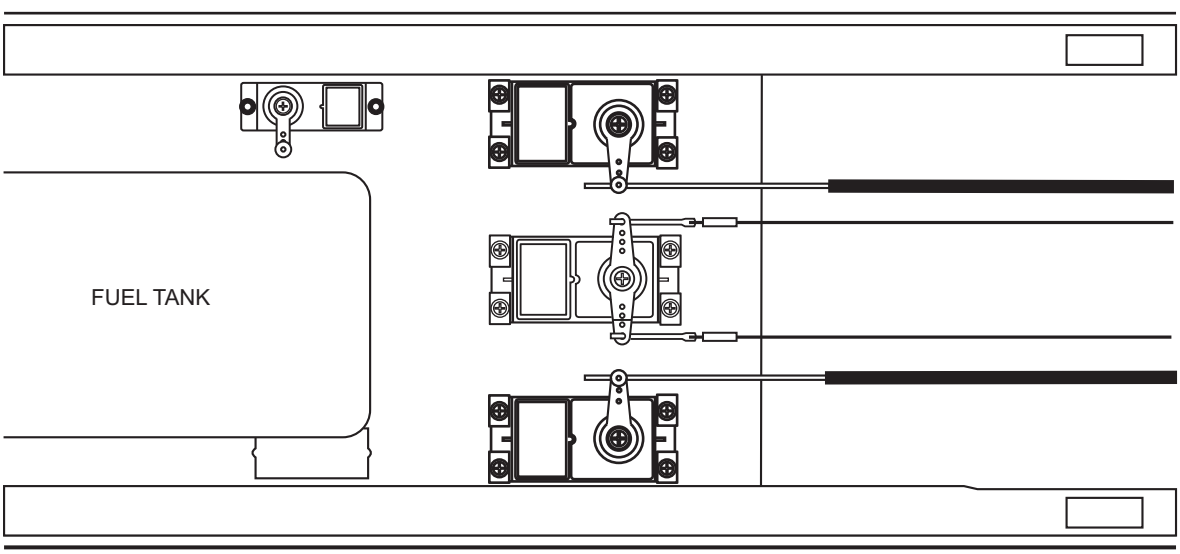
FOKKER D.VII 20- Servo

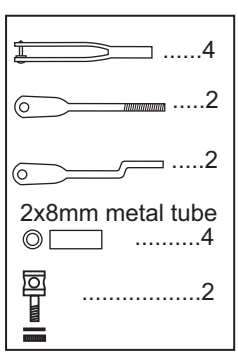
FUSELAGE - TOP VIEW

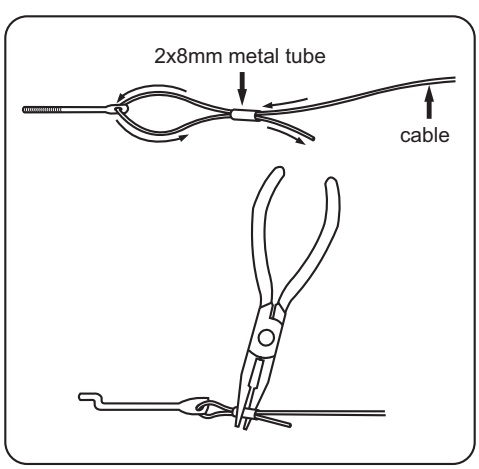


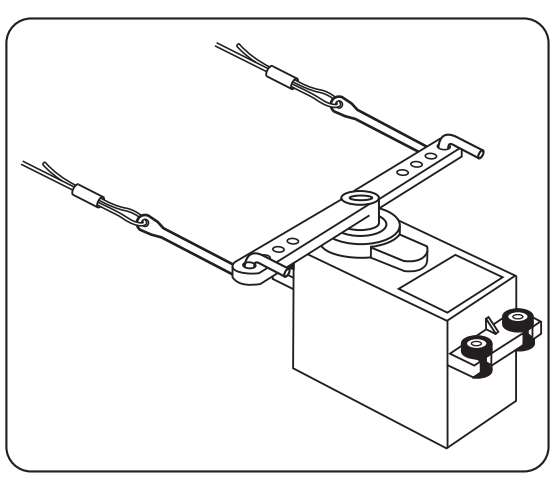
FOKKER D.VII 21- Linkages

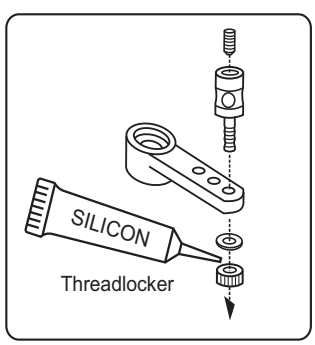
FUSELAGE - TOP VIEW



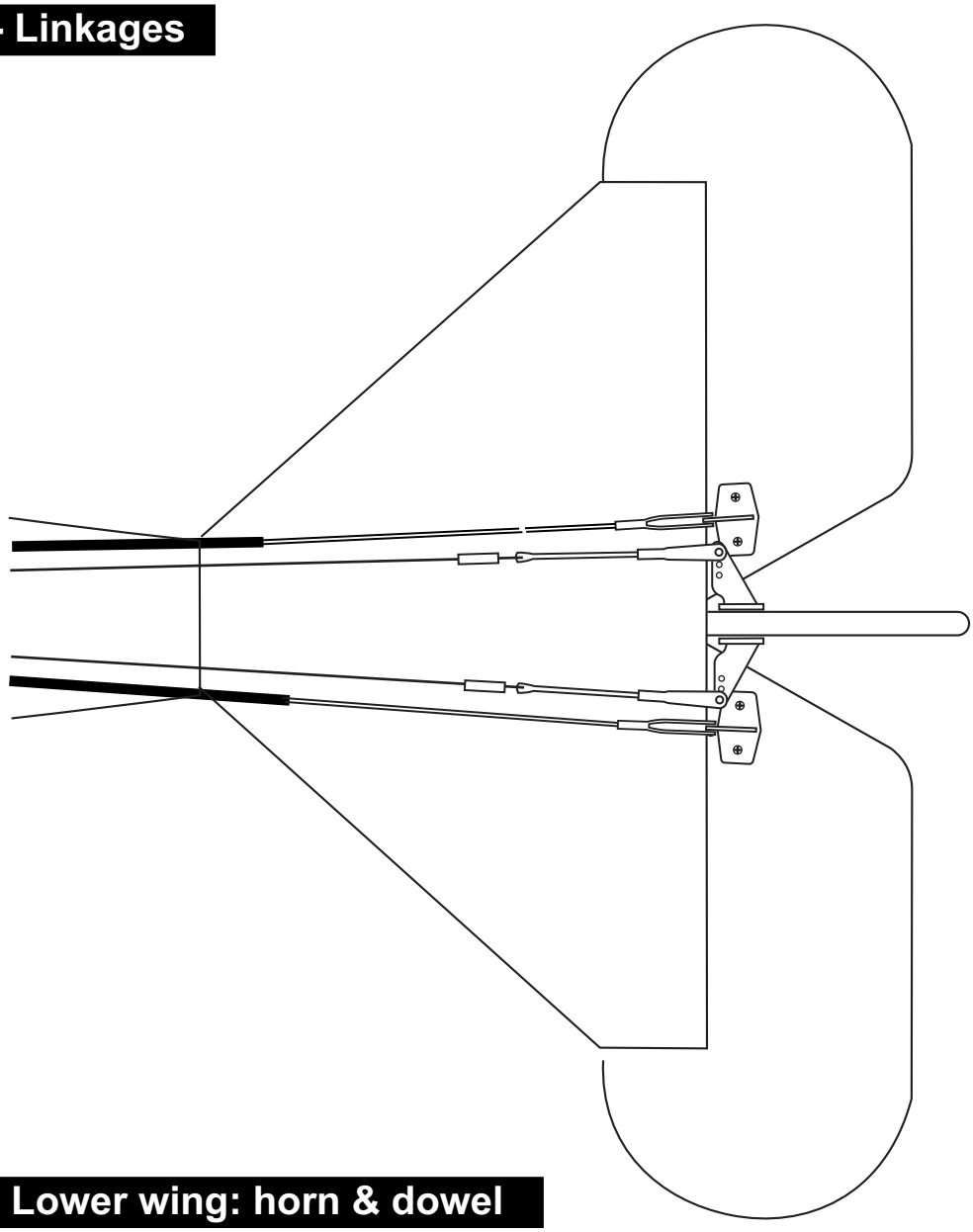




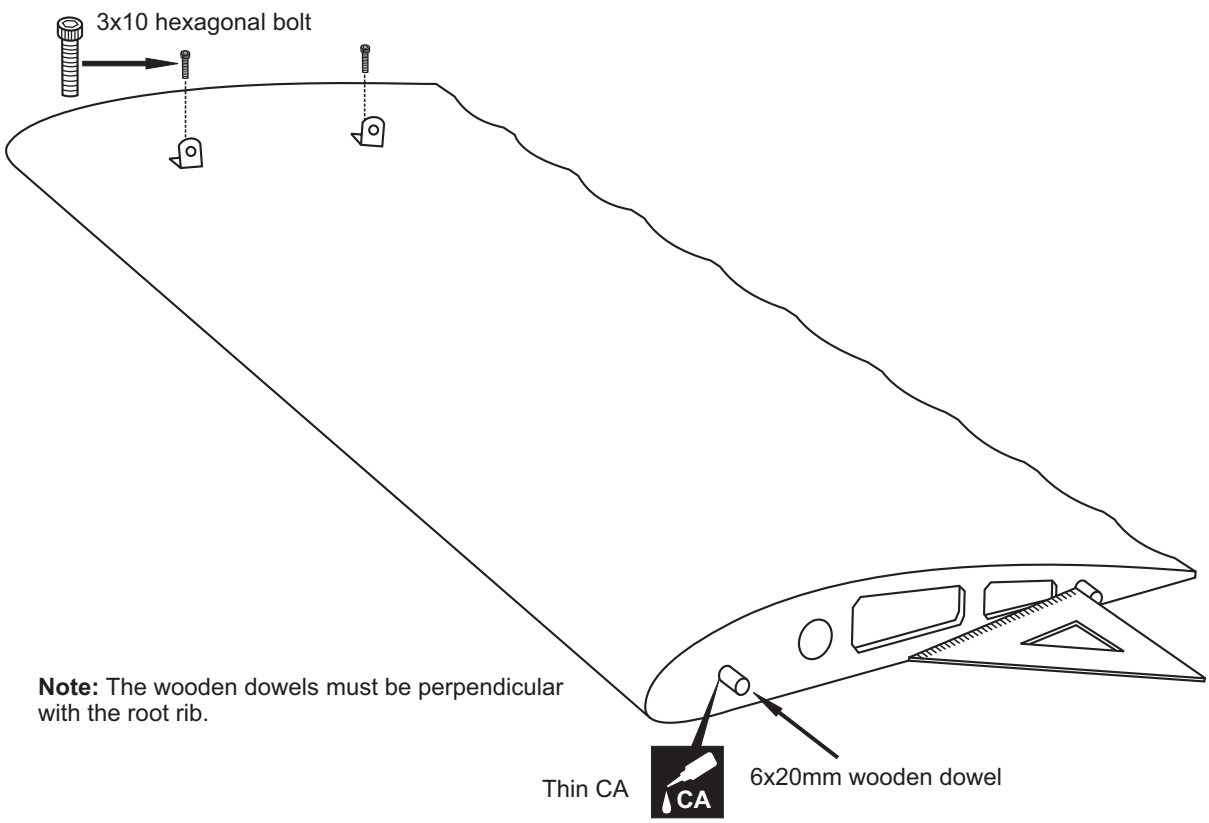




22- Linkages



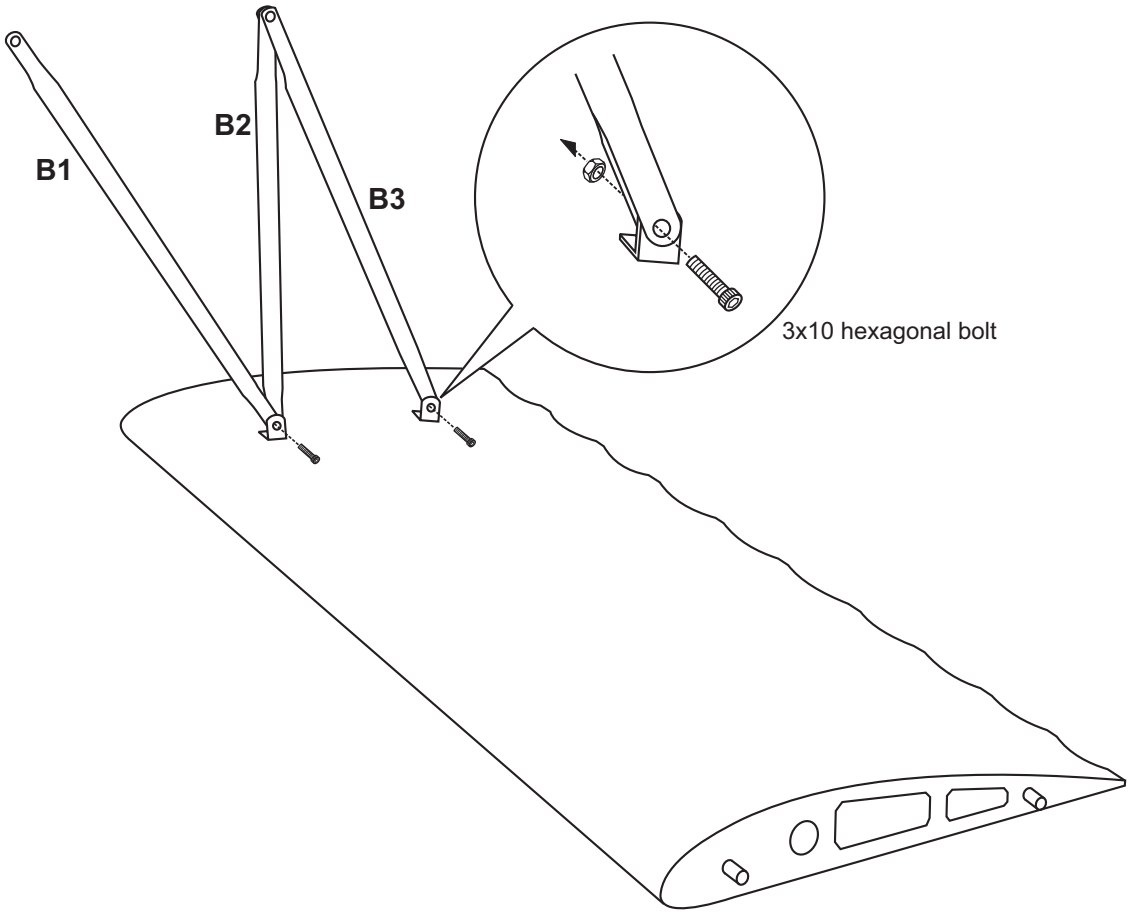
23- Lower wing: horn & dowel



Note: The wooden dowels must be perpendicular with the root rib.

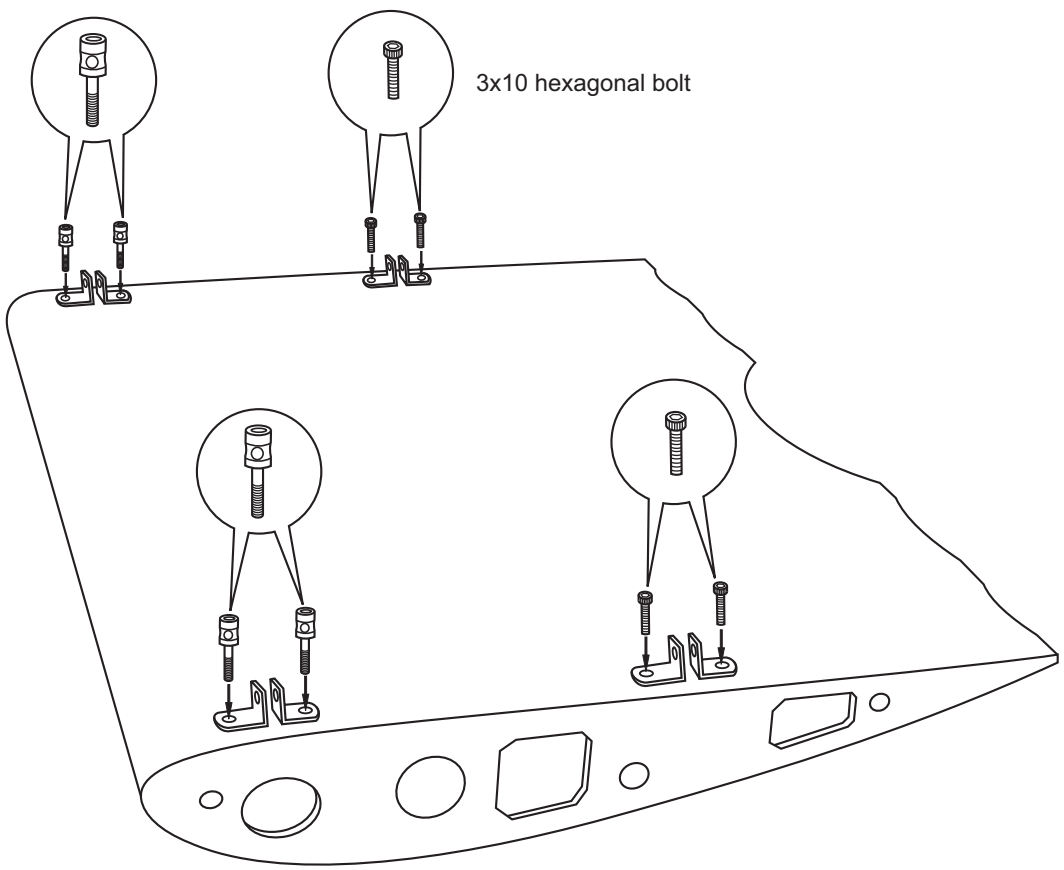
FOKKER D.VII

24- Lower wing: brace

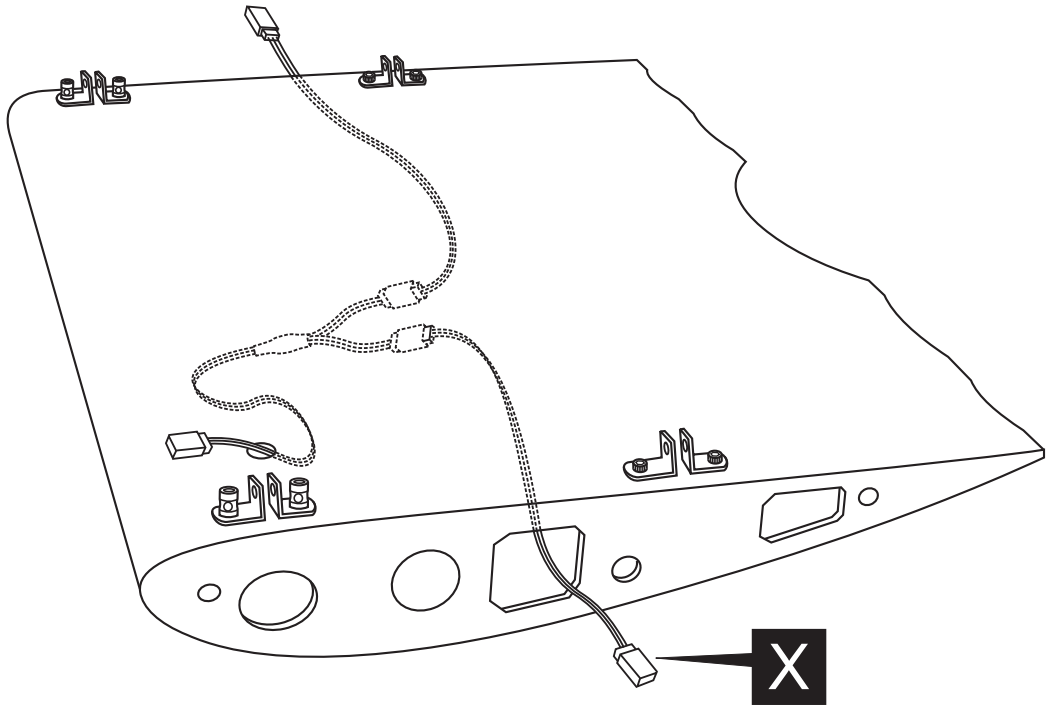


FOKKER D.VII

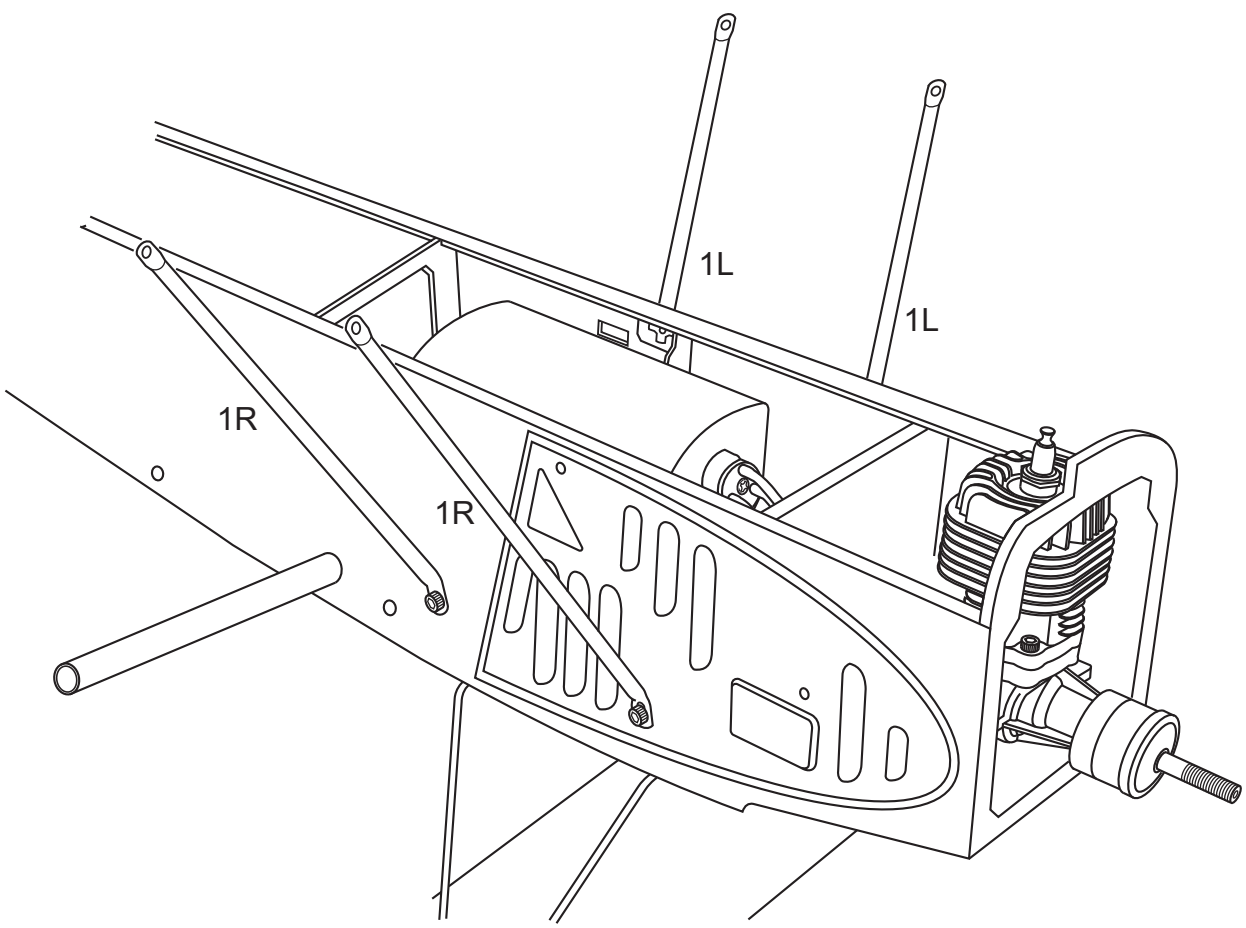
25- Center wing

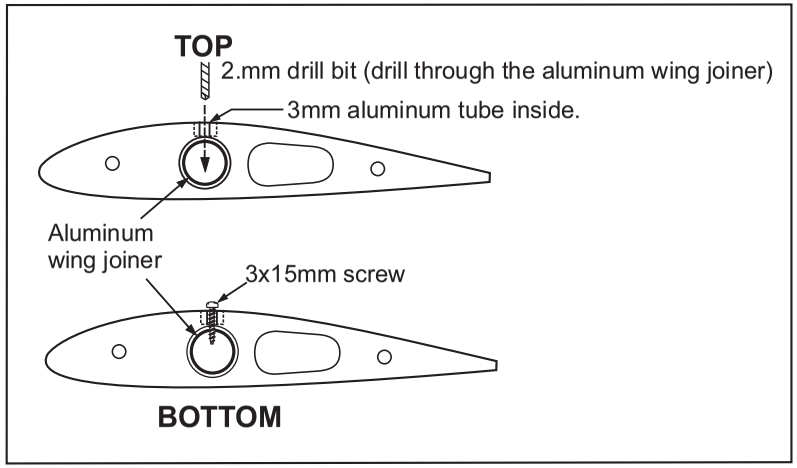


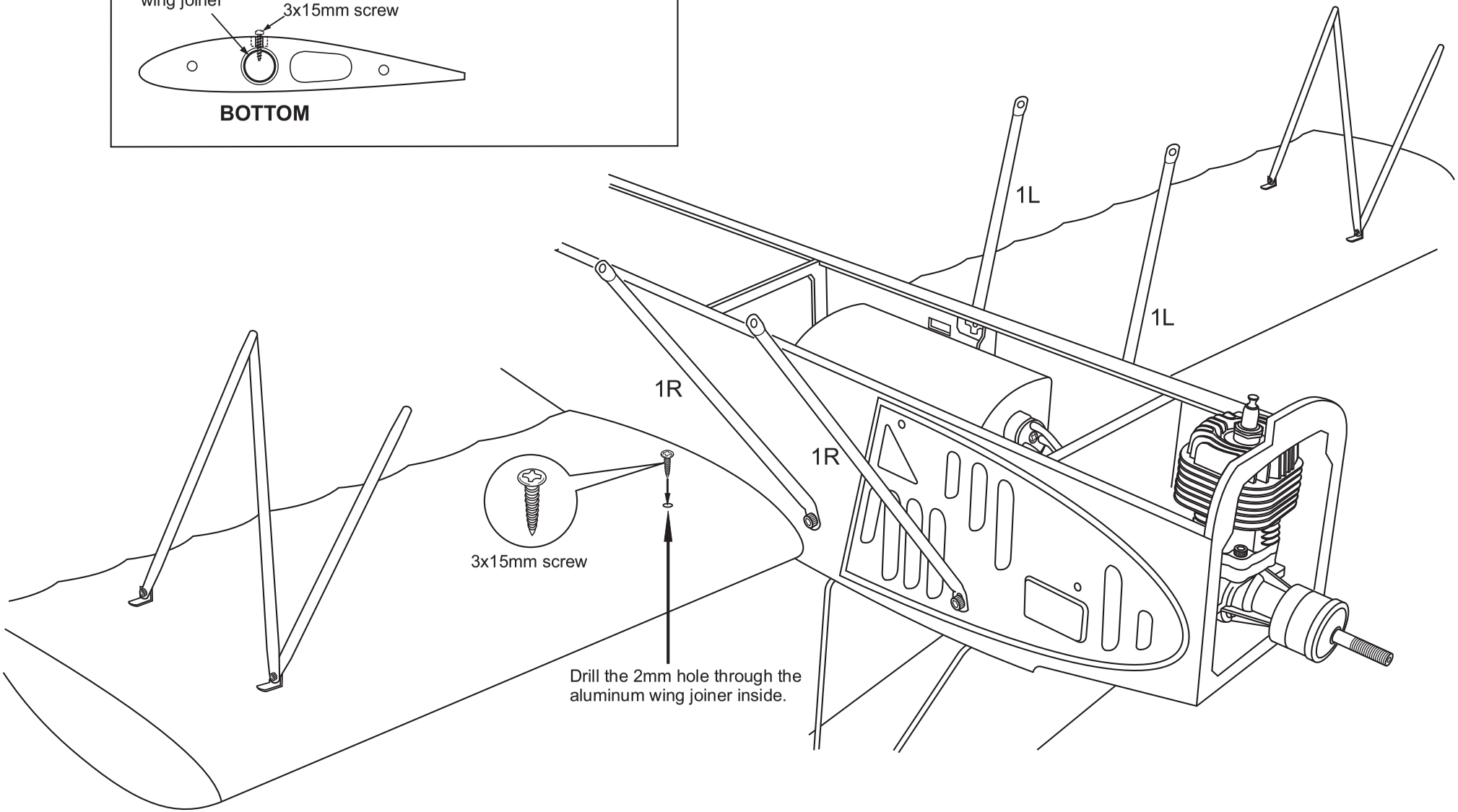
26- Center wing

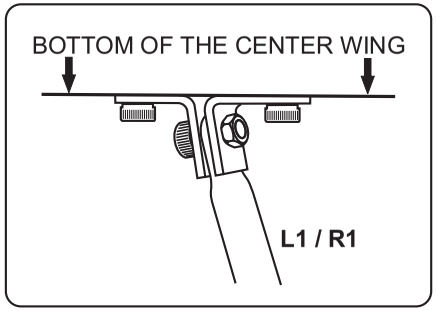


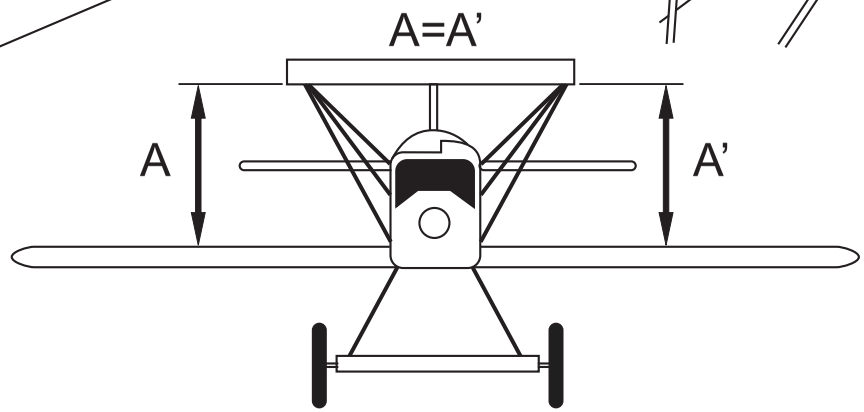
27- Wing brace & Aluminum wing joiner




TOP
2.mm drill bit (drill through the aluminum wing joiner)
3mm aluminum tube inside.
Aluminum
wing joiner
3x15mm screw
BOTTOM

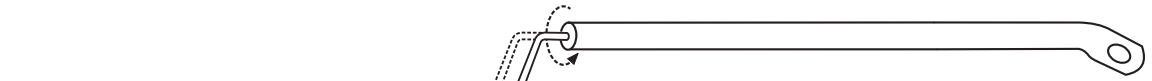

1L
1L
1R
1R
3x15mm screw
Drill the 2mm hole through the
aluminum wing joiner inside.


BOTTOM OF THE CENTER WING
L1 / R1

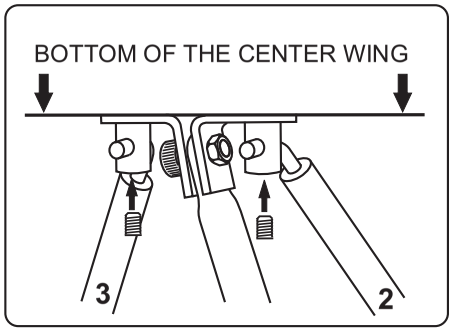

A=A'
A
A'

30- Wing brace (2) (3) installation

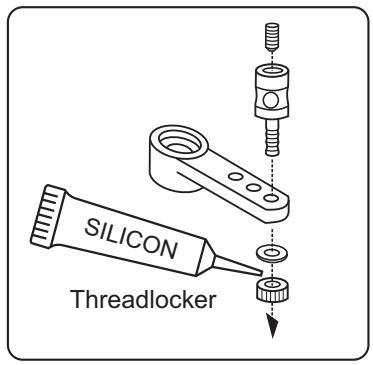
FOKKER D.VII

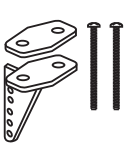


Rotate the iron bar to change the
length of the (2) and (3) wing brace.



31- Upper wing: servo & horn





Plastic control horn with screws
.....2 Set

Connector
.....2

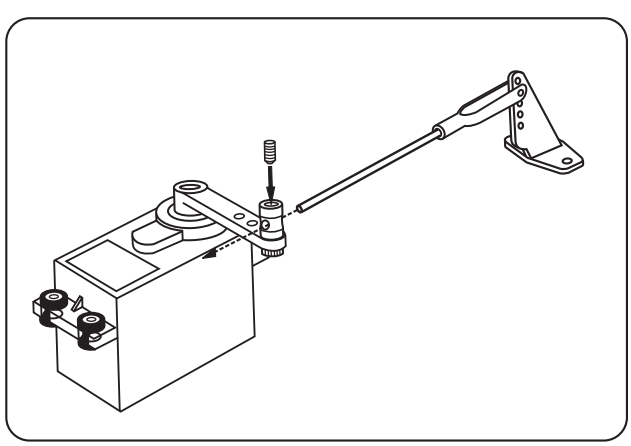
.....4

3x15mm hex bolt

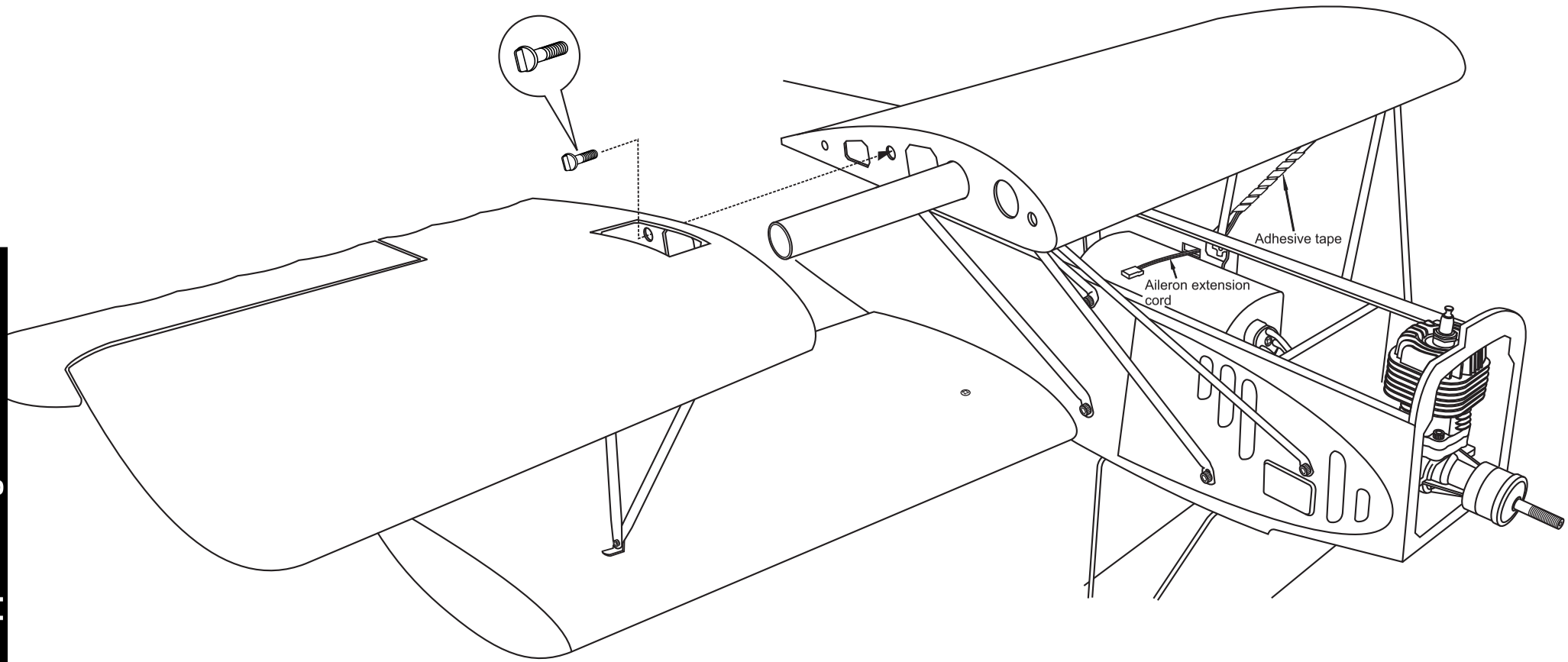
.....4

2x175mm rod / clevis

.....2

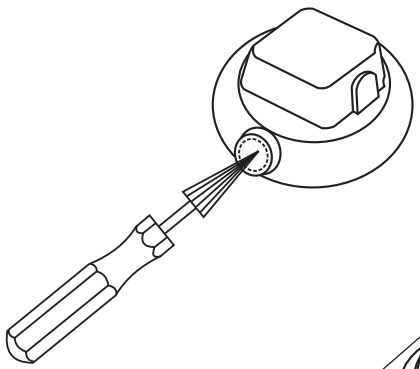


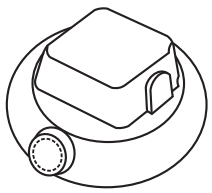
FOKKER D.VII 32- Upper wing: servo & horn

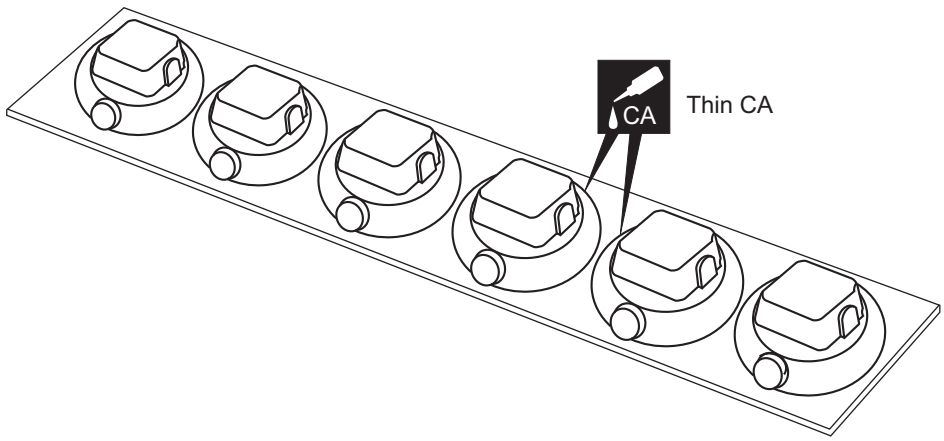


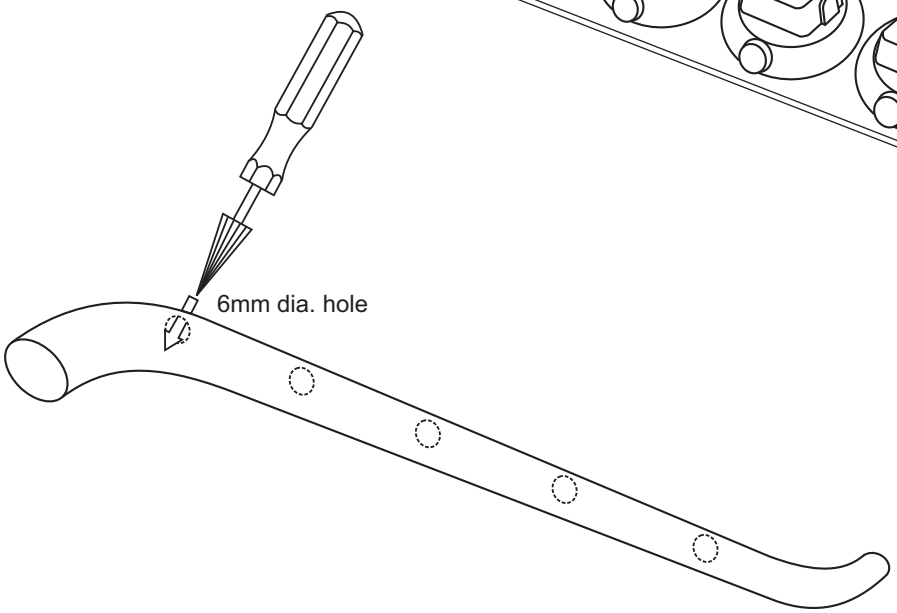
6x40 nylon bolt ...2

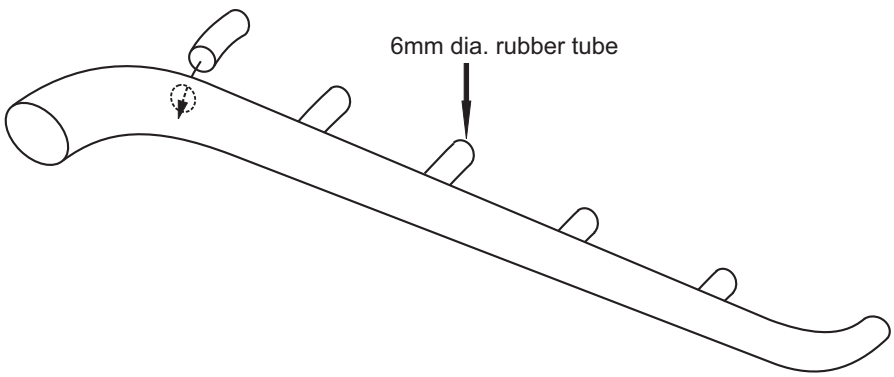
33- Dummy engine & Exhaust pipe

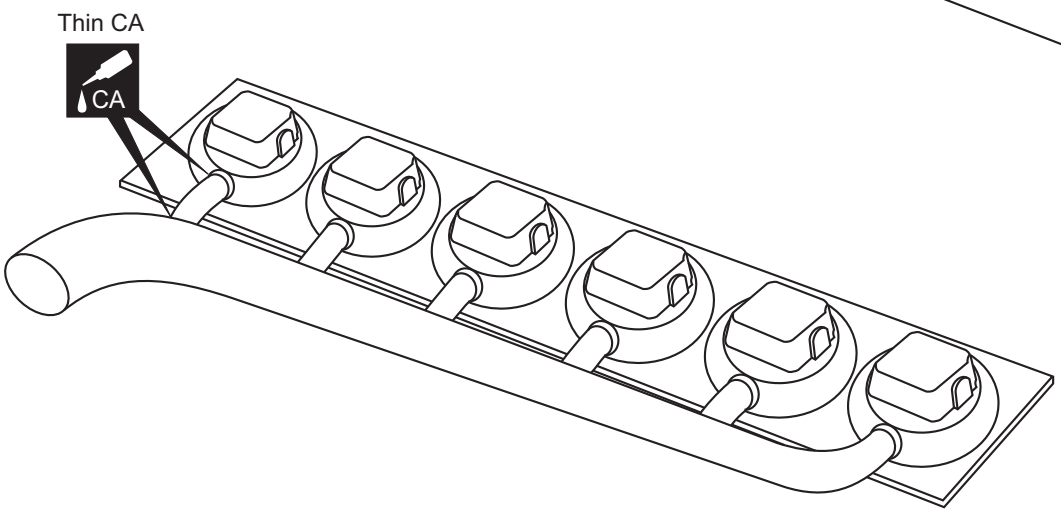




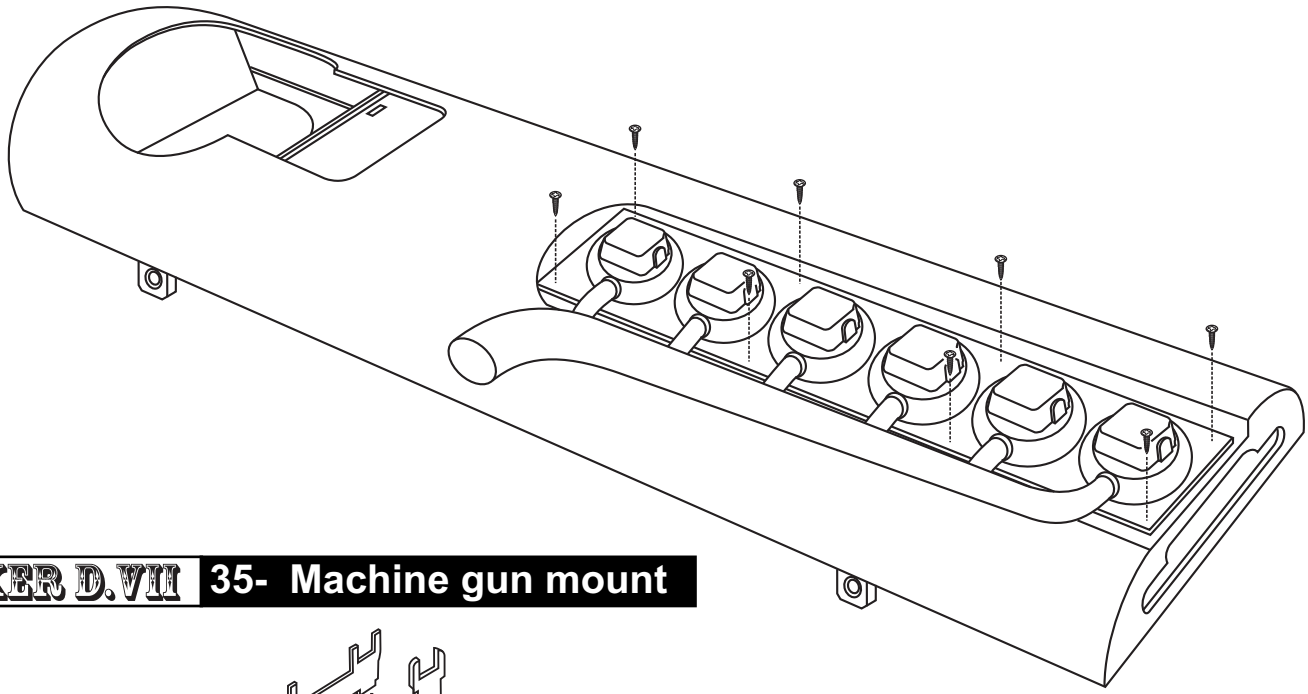




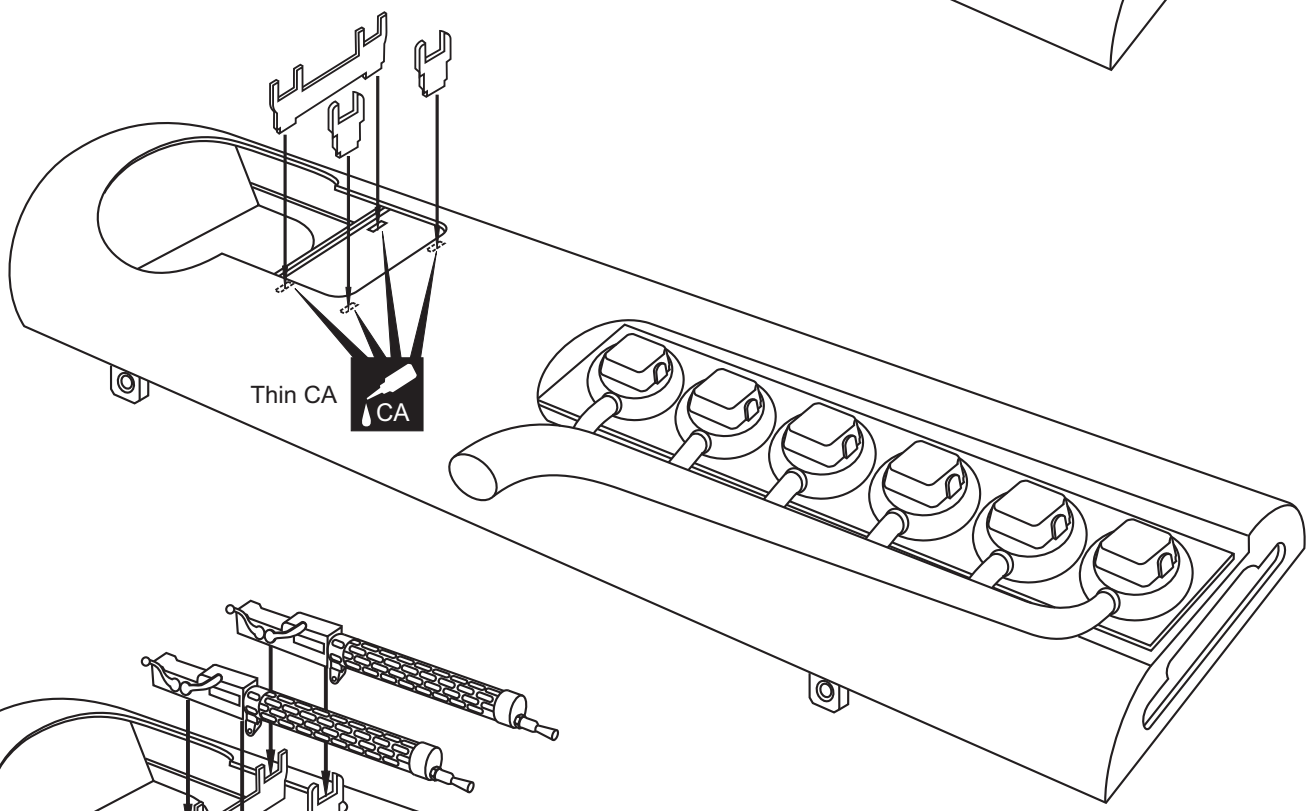


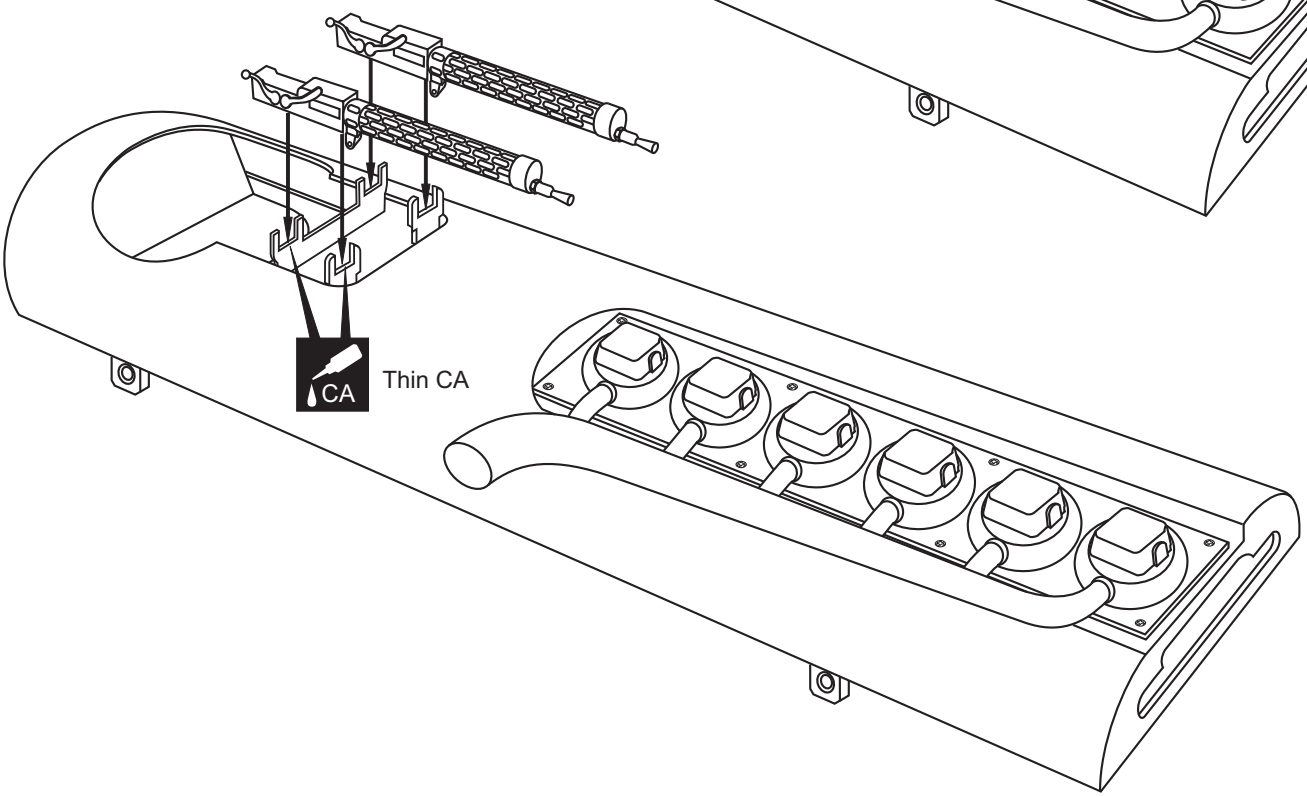


FOKKER D.VII **34- Dummy engine & Exhaust pipe**

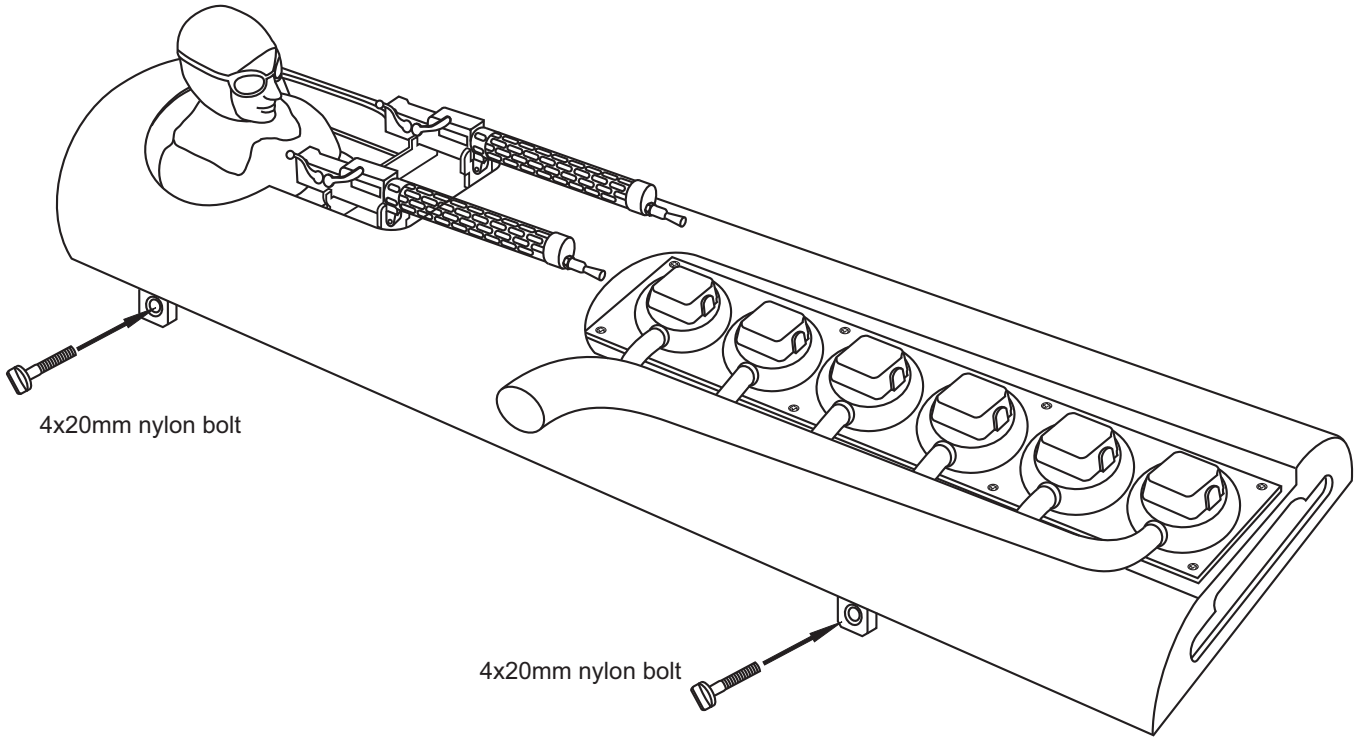


FOKKER D.VII **35- Machine gun mount**



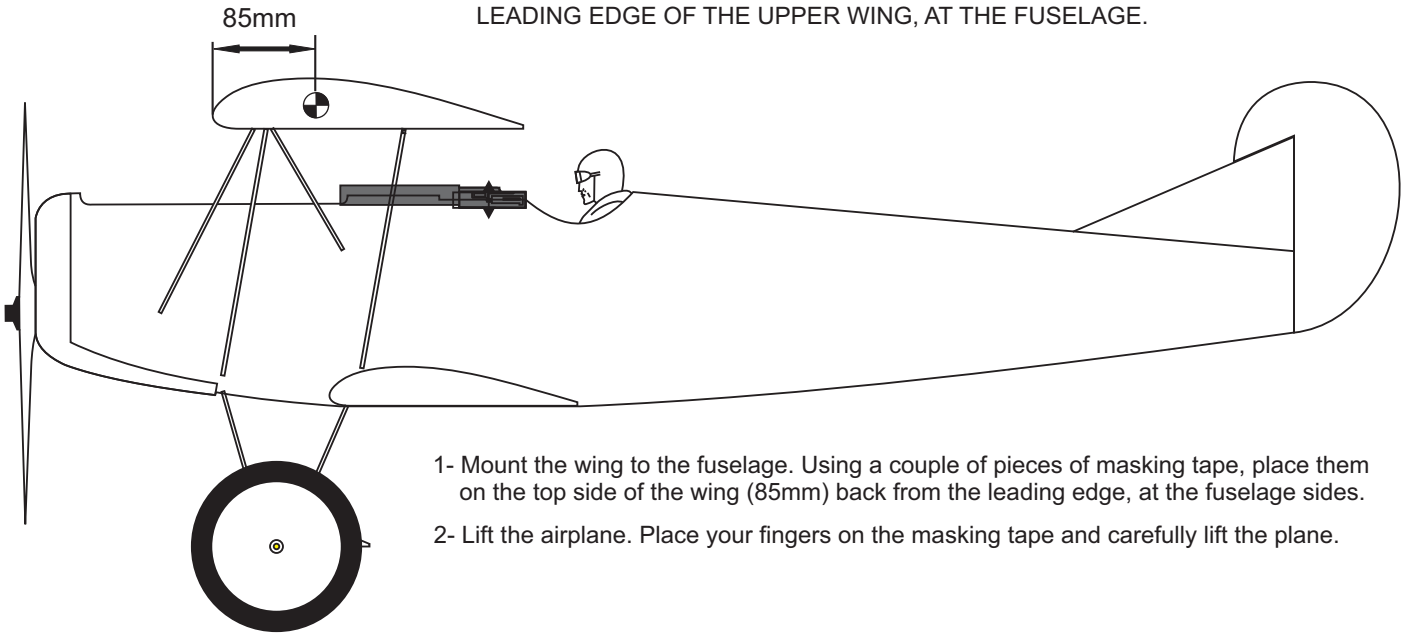


FOKKER D.VII 36- Pilot figure



FOKKER D.VII 37- Balance

THE CENTER OF GRAVITY IS LOCATED 85mm BACK FROM THE LEADING EDGE OF THE UPPER WING, AT THE FUSELAGE.

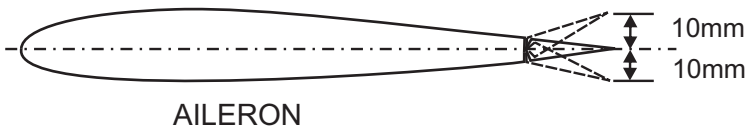


1- Mount the wing to the fuselage. Using a couple of pieces of masking tape, place them on the top side of the wing (85mm) back from the leading edge, at the fuselage sides.

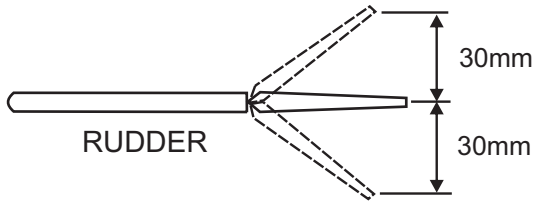
2- Lift the airplane. Place your fingers on the masking tape and carefully lift the plane.

3- If the nose of the plane falls, the plane is heavy nose. To correct this, move the battery pack further back in the fuselage.
If the tail of plane falls, the plane is tail heavy. To correct this, move the battery forward or if this is not possible, stick weight onto the firewall (For this model, the additional weight needed is 350-450gr depending on the engine you use).
When balanced correctly, the airplane should level or slightly nose down when you lift it up with your fingers.

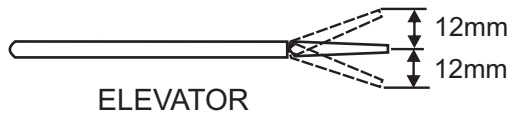
DO NOT try to fly an out-of-balance model !



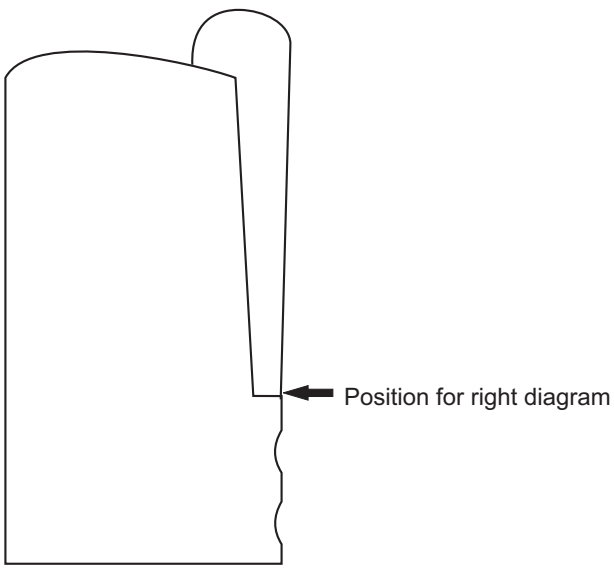
AILERON

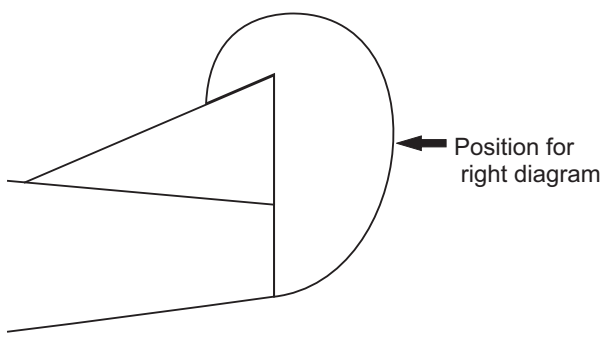


RUDDER



ELEVATOR





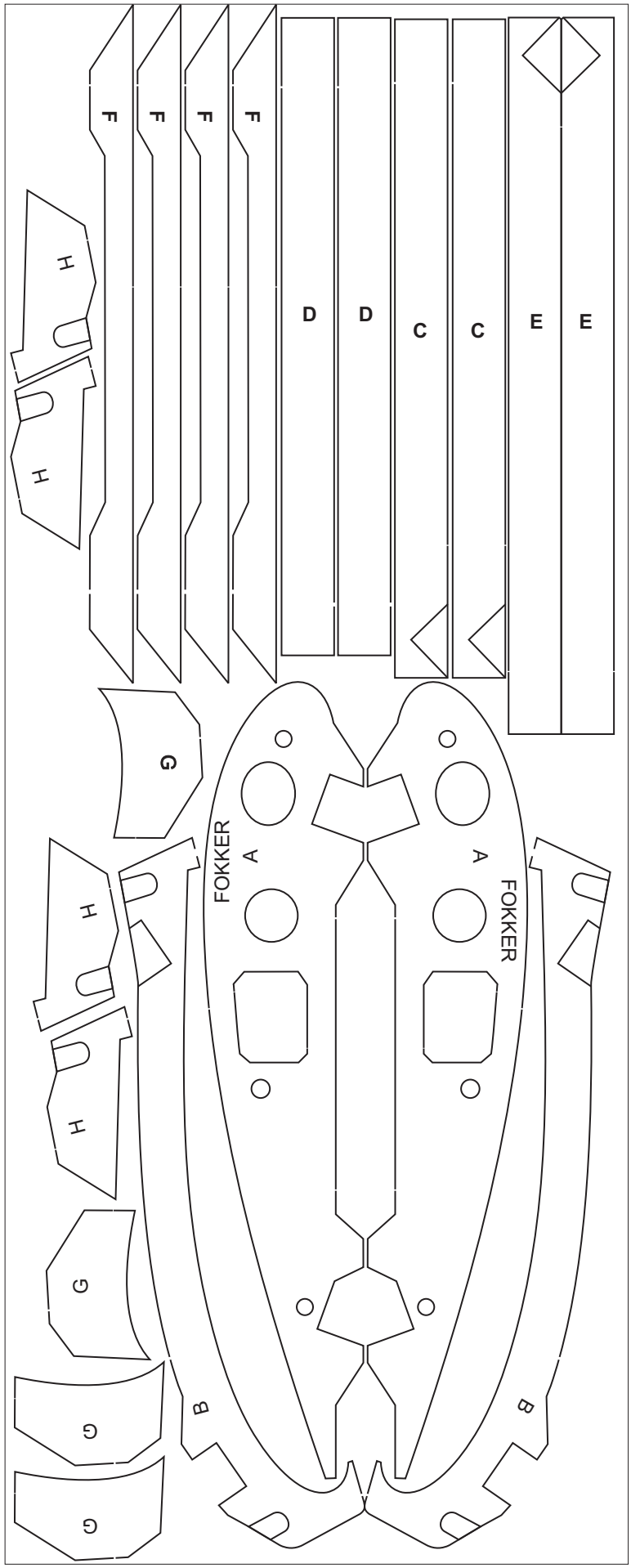
IMPORTANT: Flying your model at these throws will provide you with the greatest chance for successful first flights.
If,after you have become accustomed to the way the Fokker D.Vll flies, you would like to change the throws to suit your taste that is fine. However, too much control throw could make the model difficult to control, so remember, “more is not always better”.

LOW RATE

Aileron	: 10mm up / down
Elevator	: 12mm up / down
Rudder	: 30mm right / left

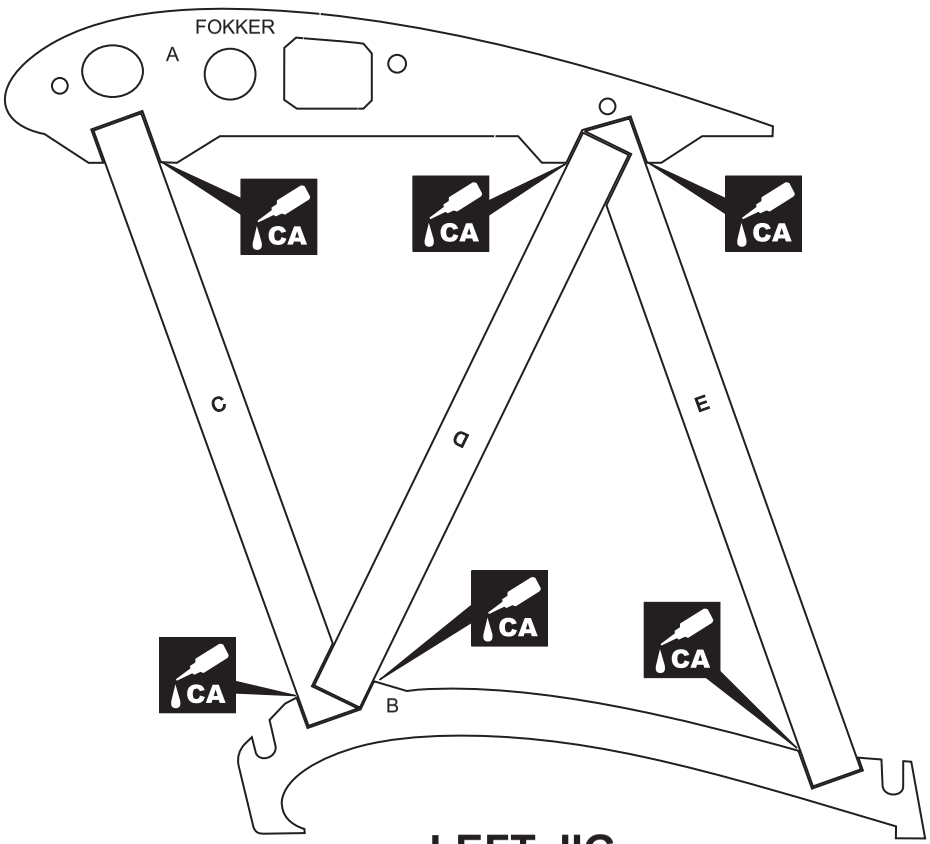
HIGH RATE

Aileron	: 14mm up / down
Elevator	: 15mm up / down
Rudder	: 35mm right / left


F
F
F
F
D
D
C
C
E
E
H
H
G
FOKKER
A
A
FOKKER
H
H
G
G
G
B
B

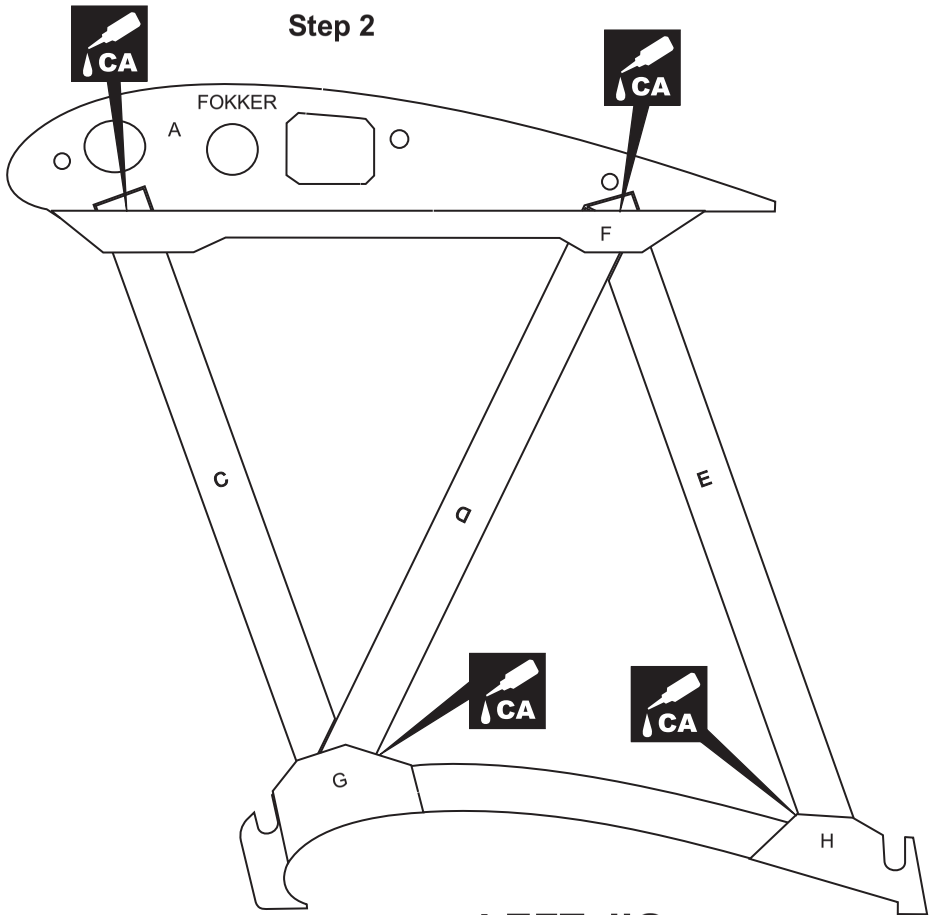
Assemble the Jig (Right and Left)

Step 1



LEFT JIG

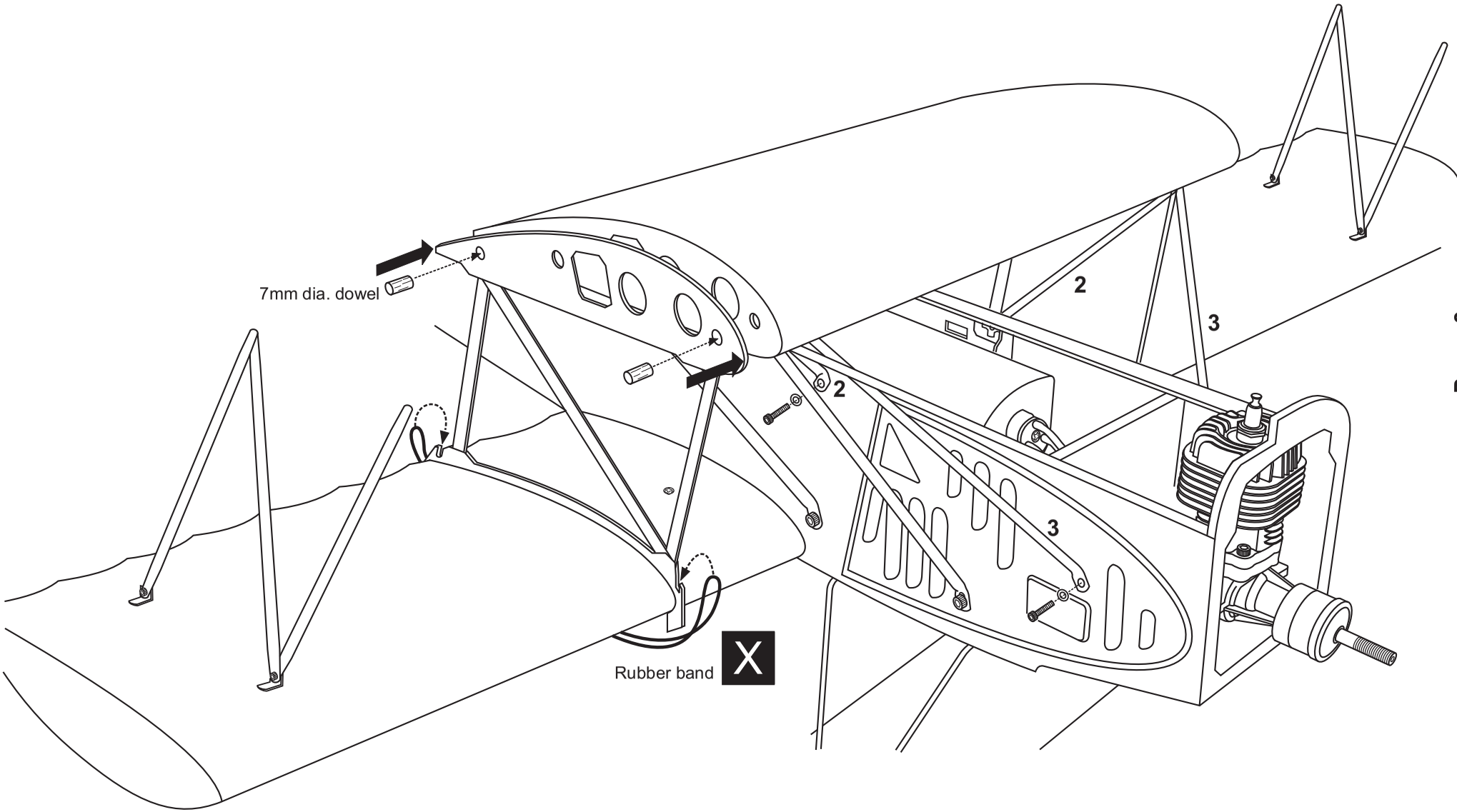
Step 2



LEFT JIG

Note: The F piece is glue on the right side of the Right Jig and other F piece is glue on the left side of the Left Jig.
The G and H pieces are glue on both sides of the Jig.

Installing the jigs in position as shown (Right jig and Left jig) and adjust the center wing. Check the alignment before tightening all hex bolts.



And it will be easier to transport