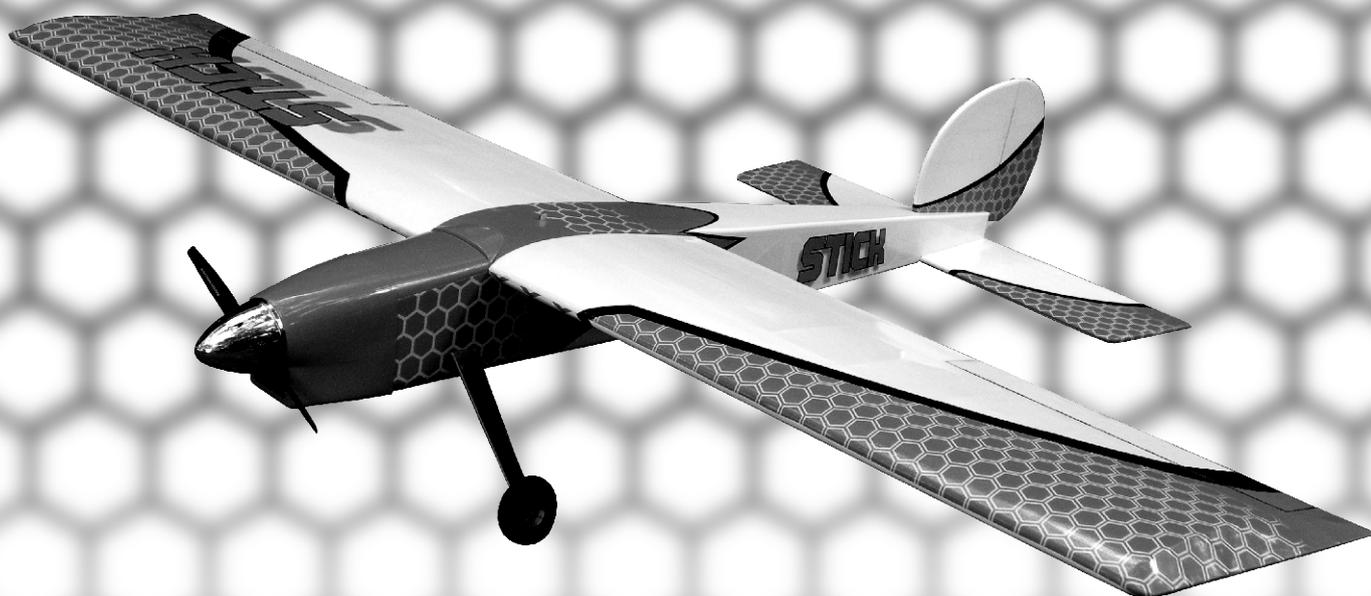


Radio control model - RC Flugmodell

STICK SPORT 90

90 Class - 2 Cycle engine
120 Class - 4 Cycle engine

INSTRUCTION MANUAL / Montageanleitung



TECHNISCHE DATEN

Spannweite	1940mm
Länge	1460mm
Elektroantrieb	1000 Watt (BOOST 90)
Verbrennerantrieb	15cc 2-T / 20cc 4-T
Fernsteuerung	5 Kanal / 5 Servos

SPECIFICATIONS

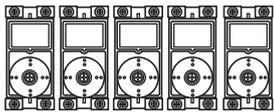
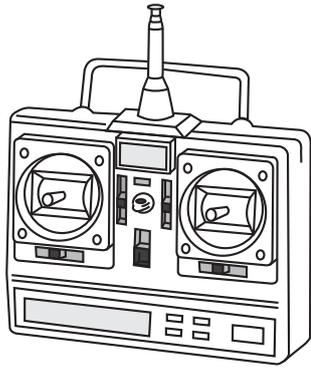
Wingspan	1940mm
Length	1460mm
Electric Motor	1000 Watt (BOOST 90)
Glow Engine	15cc 2-T / 20cc 4-T
Radio	5 Channel / 5 Servos



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 inexperienced.

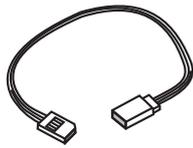
ACHTUNG! Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen. Bei unsachgemäßer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein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

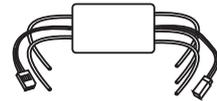


Minimum 5 channel radio for airplane with 5 servos

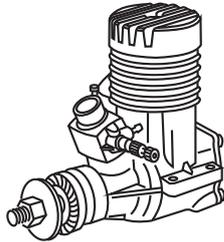
.Motor control x1 .Aileron x2
.Elevator x1 .Rudder x1



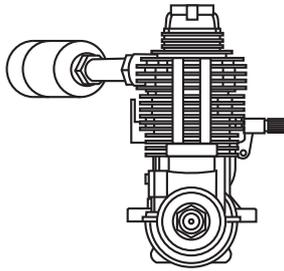
Extension for aileron servo, retract servo.



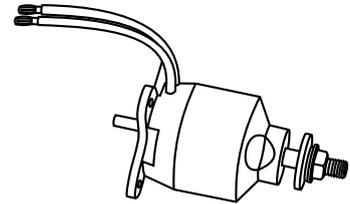
70A Regler



.90 - 2 cycle



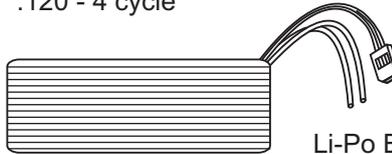
.120 - 4 cycle



BOOST 90
Brushless Motor
or equivalent.



Silicone tube



Li-Po Battery, 22.2V, 5300mAH

GLUE (Purchase separately)



Silicon sealer

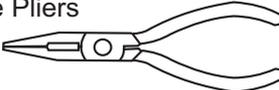
Cyanoacrylate
Glue

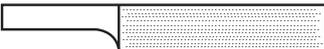


Epoxy Glue (5 minute type)
Epoxy Glue (30 minute type)

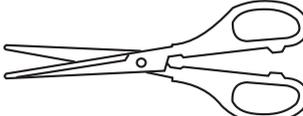
TOLLS REQUIRED (Purchase separately)

Hobby knife 

Needle nose Pliers 

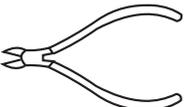
Sander 

Phillip screw driver 

Scissors 

Hex Wrench 

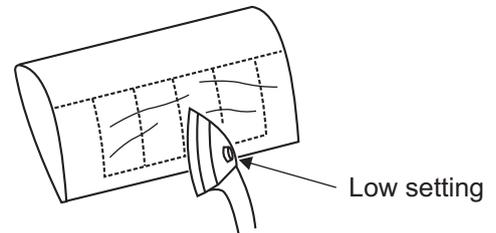
Awl 

Wire Cutters 

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

The pre-covered film on ARF kit may wrinkle due to variations of temperature. Smooth out as explained right.

* Use an iron or heat gun. Start as low setting. Increase the setting if necessary. If it is too high, you may damage the film



Symbols used throughout this instruction manual, comprise:

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

 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.

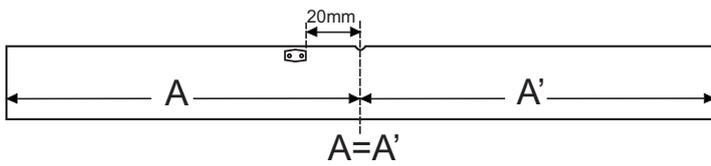
 Not included. These parts must be purchased separately

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

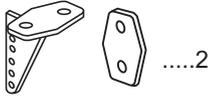
CONVERSION TABLE

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"	

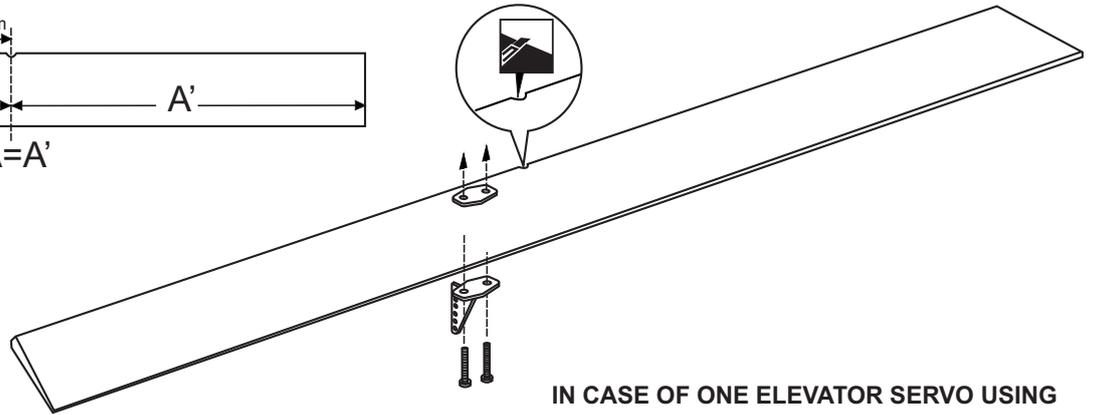
1- CONTROL HORN INSTALLATION



Plastic control horn and back plate

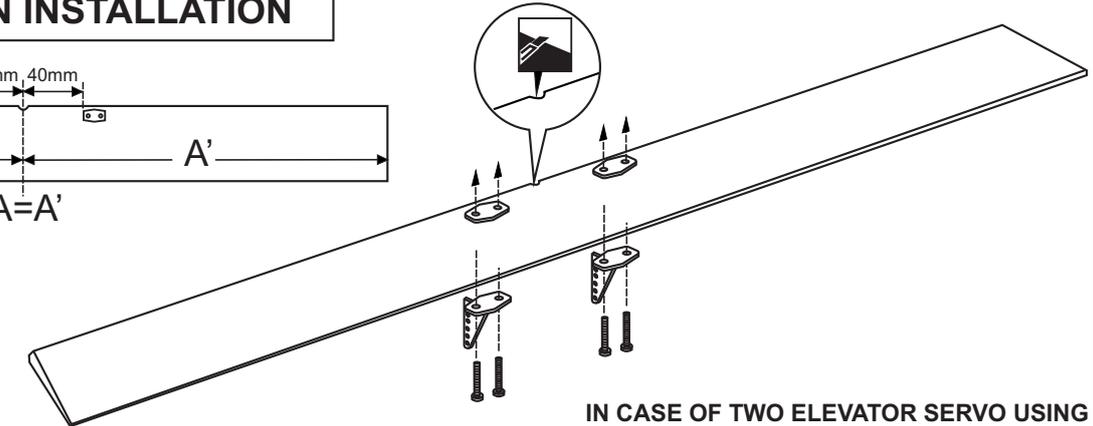
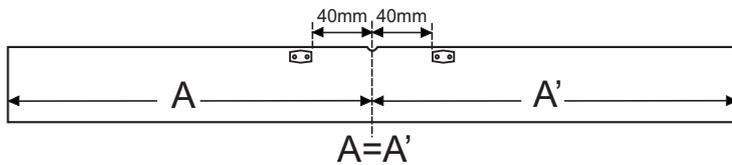


2x20mm screw



IN CASE OF ONE ELEVATOR SERVO USING

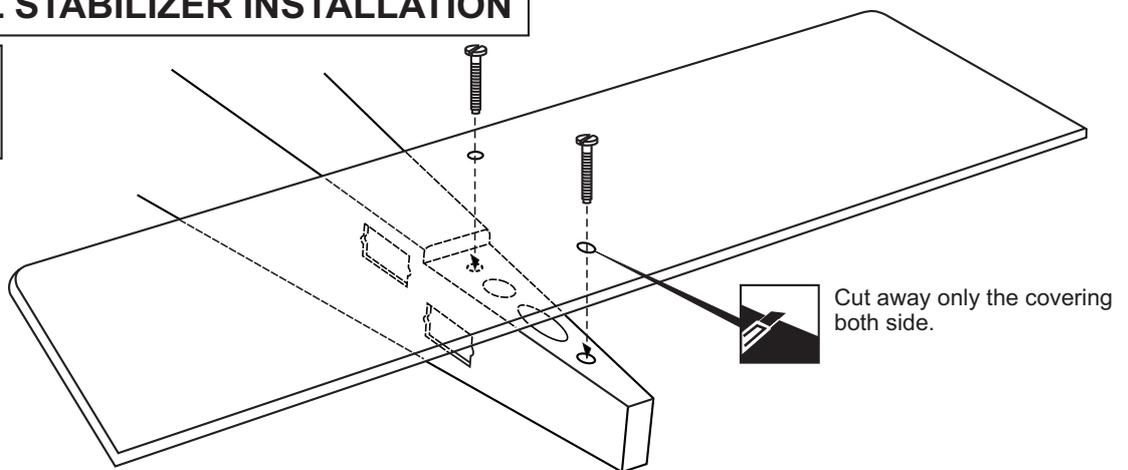
2- CONTROL HORN INSTALLATION



IN CASE OF TWO ELEVATOR SERVO USING

3- HORIZONTAL STABILIZER INSTALLATION

6x45mm Nylon bolt



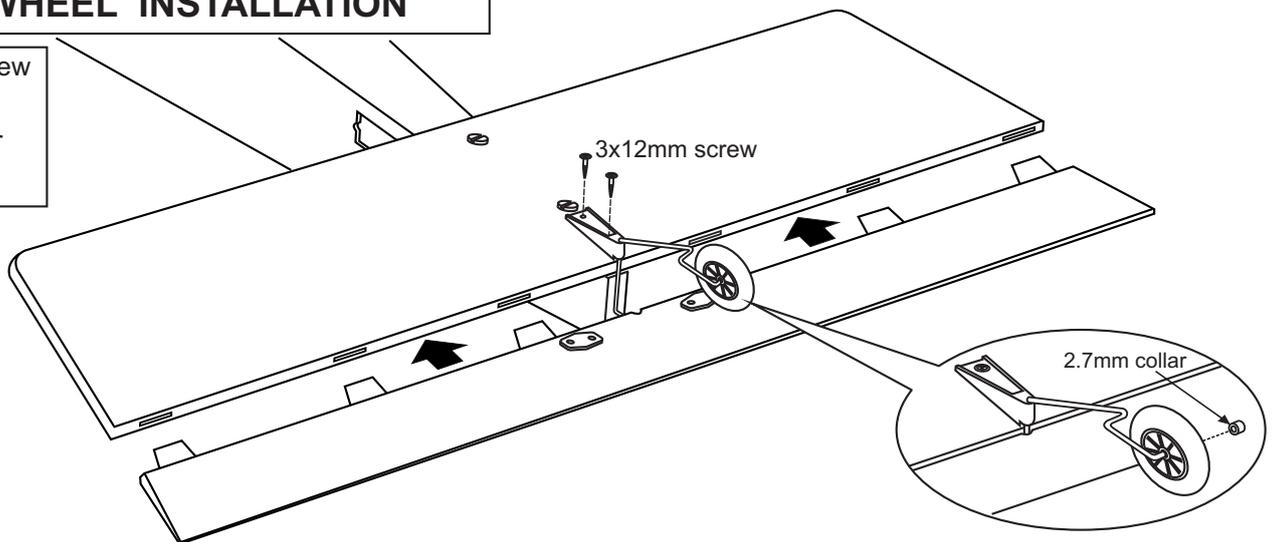
Cut away only the covering both side.

4- TAIL WHEEL INSTALLATION

3X12mm screw

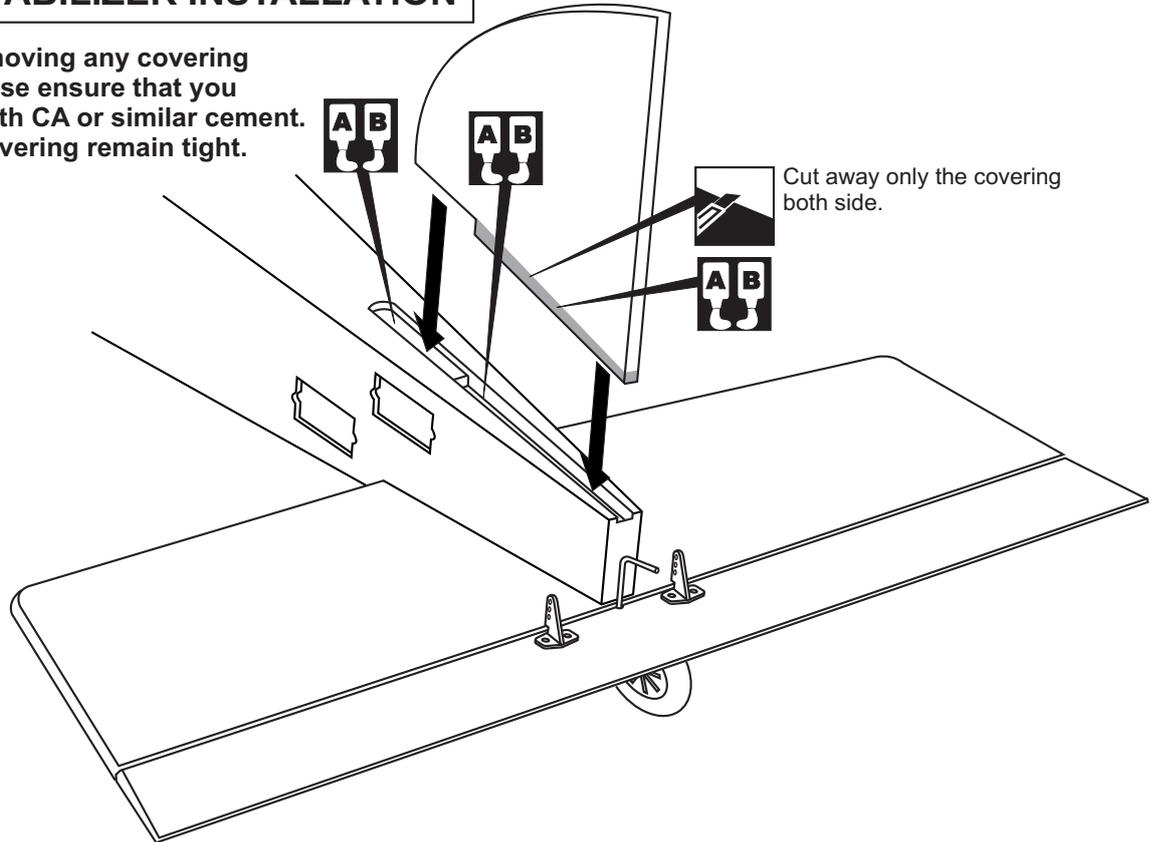


2.7mm collar

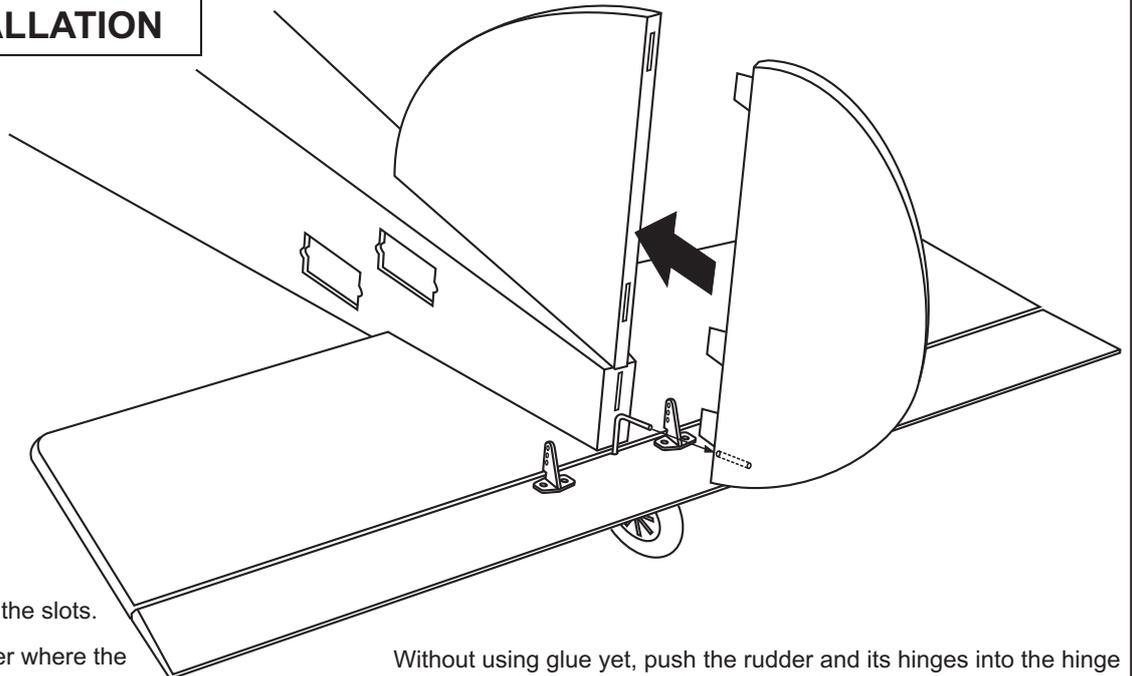


5- VERTICAL STABILIZER INSTALLATION

* **WARNING:** When removing any covering from the airframe, please ensure that you secure the cut edge with CA or similar cement. This will ensure the covering remain tight.



6- RUDDER INSTALLATION

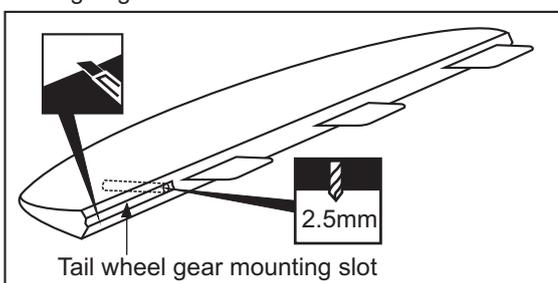


Test-fit the hinges of ruder into the slots.

Using a pencil, mark the rudder where the tail wheel gear meet the rudder.

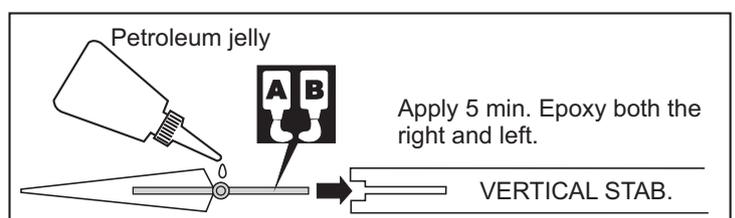
Cut 1-3/16" (30mm) long slots along the hinge line in the leading edge of the rudder.

Drill a 3/32"(2.5mm) diameter hole in tail wheel gear mounting slot, marking sure that you drill the hole perpendicular to the leading edge of the rudder.

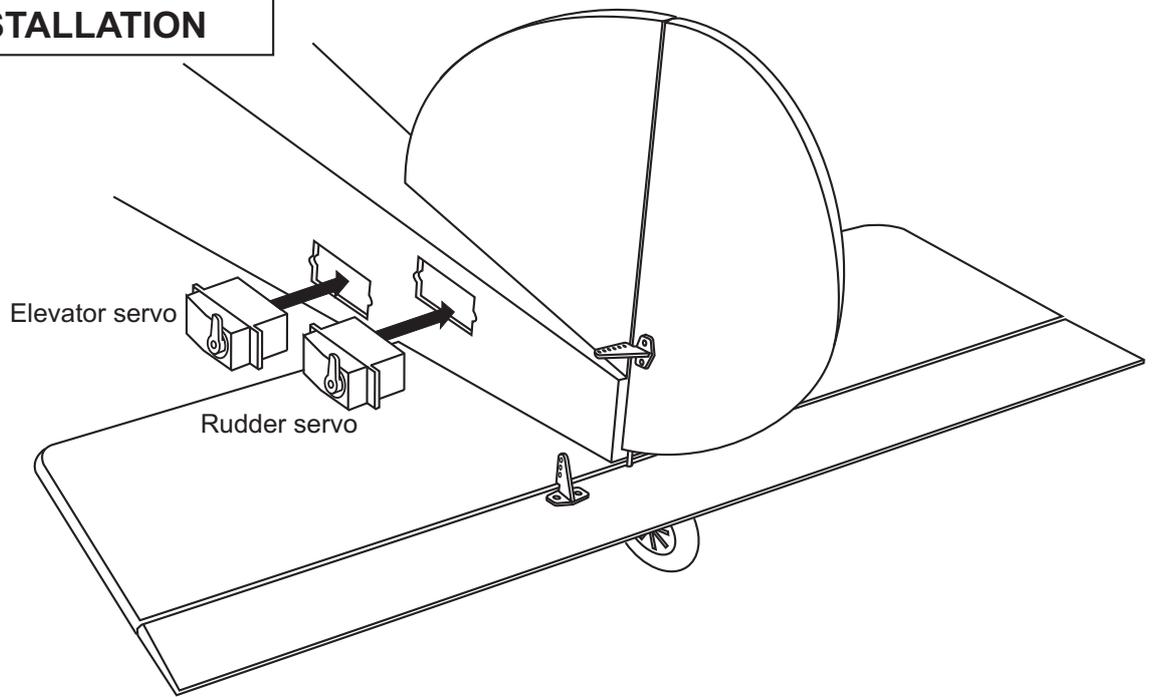


Without using glue yet, push the rudder and its hinges into the hinge slots in the trailing edge of the vertical stabilizer, marking sure that the tail wheel gear is firmly seated in the slot in the rudder. There should be a minimal hinge gap and the end of the rudder should not rub against the vertical stabilizer.

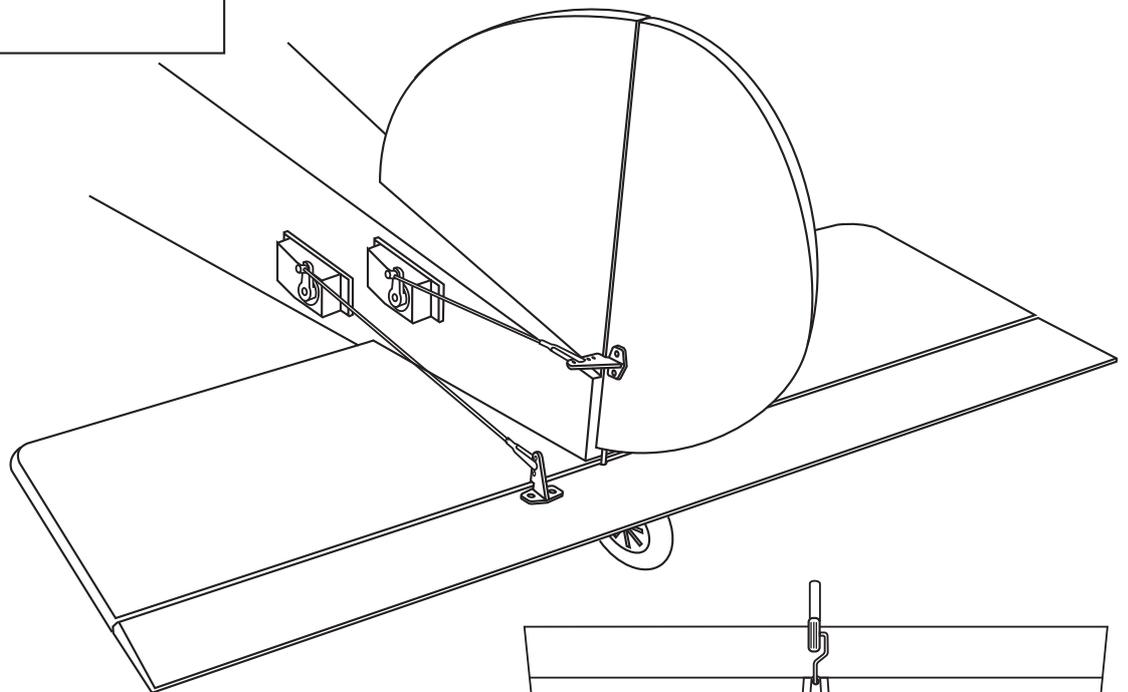
When satisfied with the fit and alignment, hinge the rudder to the vertical stabilizer, using 5 minute epoxy. Make sure to apply a thin layer of epoxy to the right and left of both hinges and to the inside the tail wheel gear mounting slot.



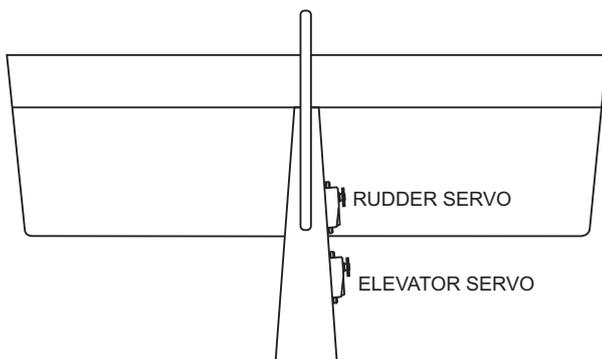
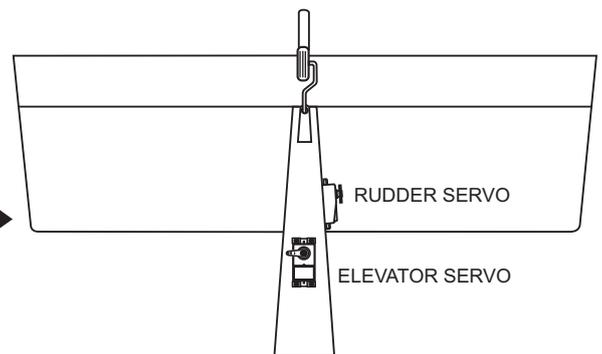
7- SERVO INSTALLATION



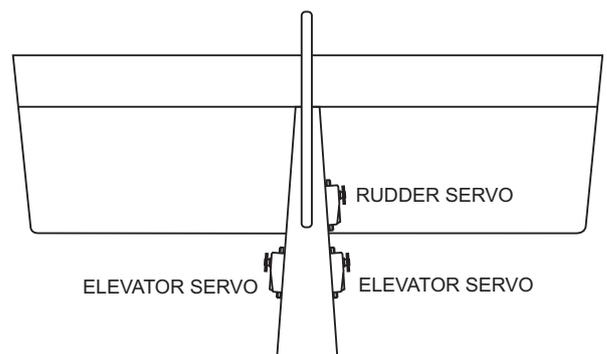
8- LINKAGE



IN CASE OF ONE RUDDER SERVO AND ONE ELEVATOR SERVO (ON THE BOTTOM OF THE FUSELAGE) USING.

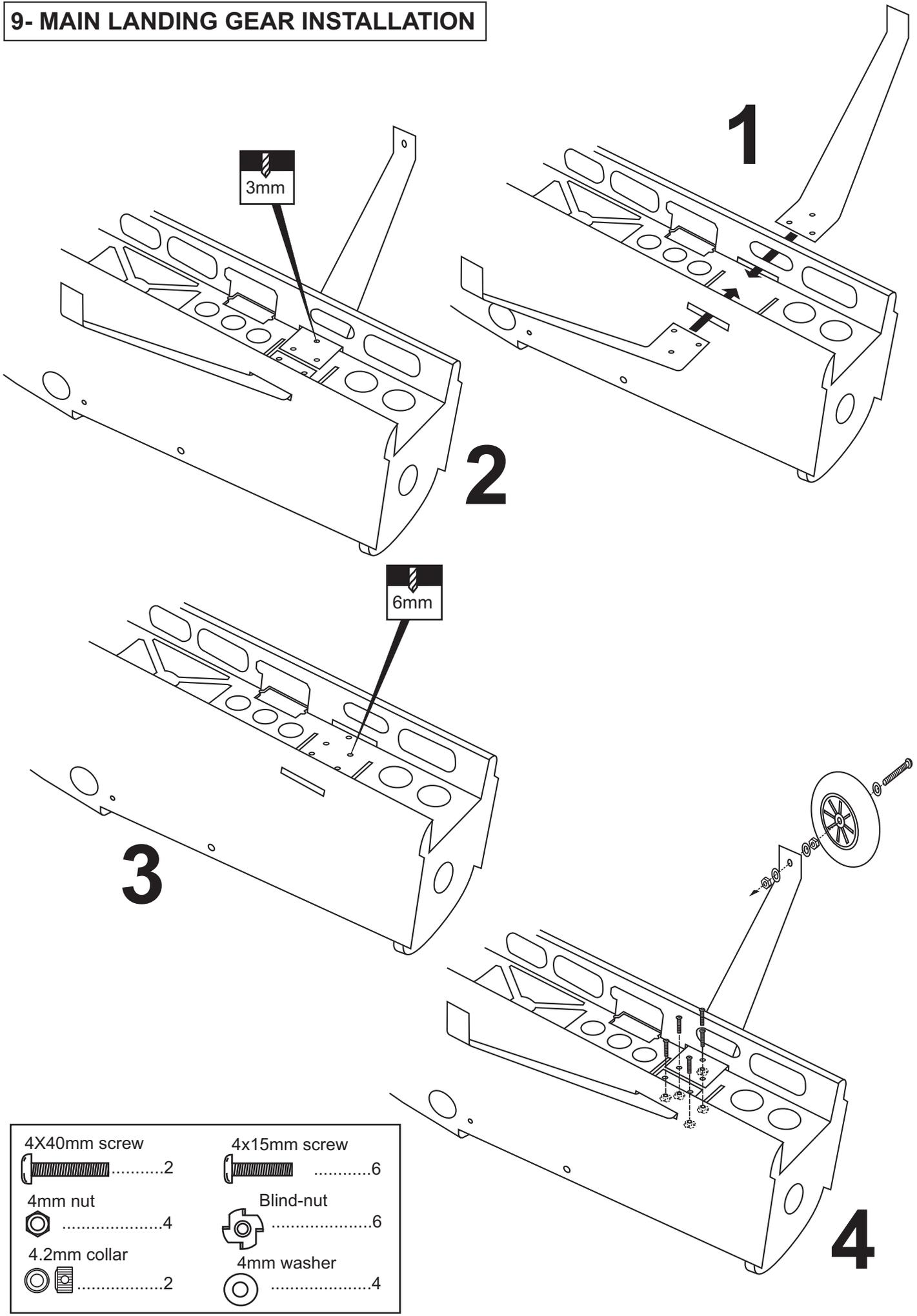


IN CASE OF ONE RUDDER SERVO AND ONE ELEVATOR SERVO (ON THE SIDE) USING.



IN CASE OF ONE RUDDER SERVO AND TWO ELEVATOR SERVO (ON THE LEFT AND RIGHT SIDE) USING.

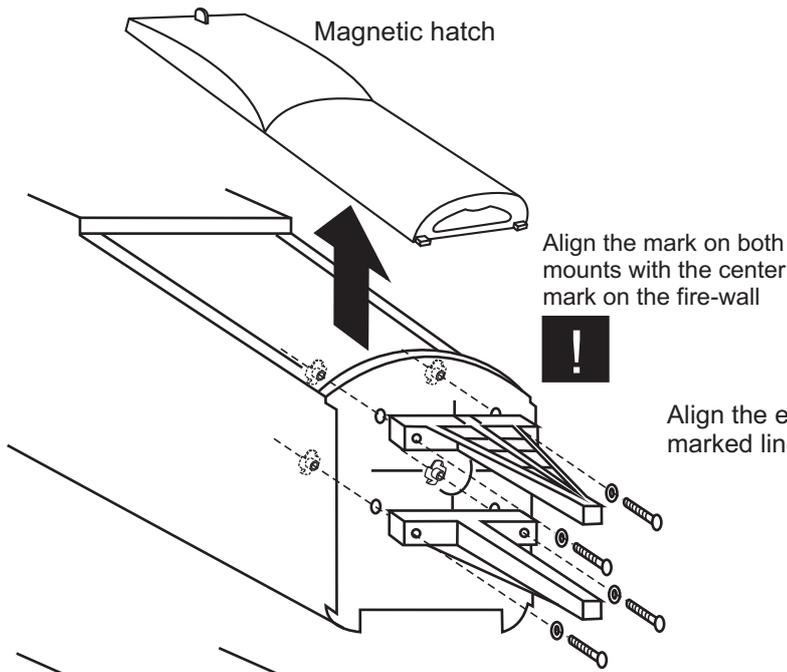
9- MAIN LANDING GEAR INSTALLATION



 4x40mm screw2	 4x15mm screw6
 4mm nut4	 Blind-nut6
 4.2mm collar2	 4mm washer4

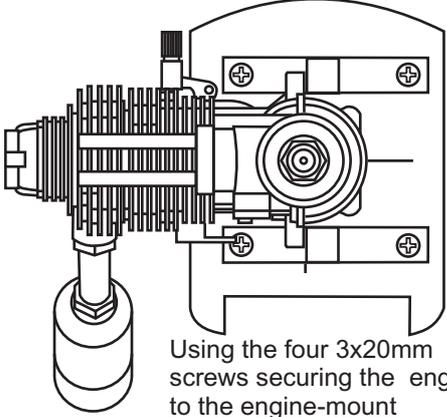
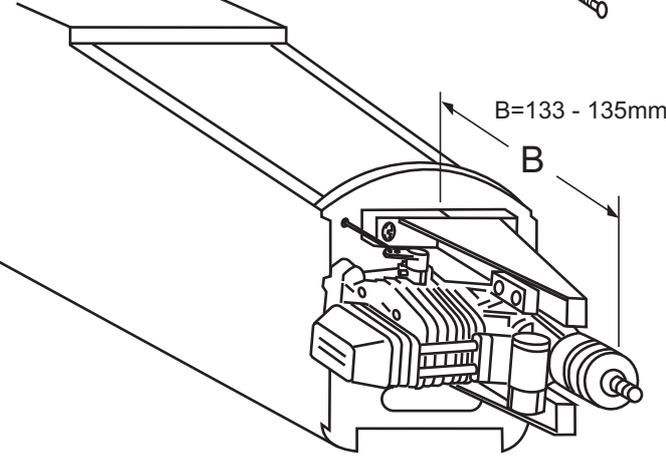
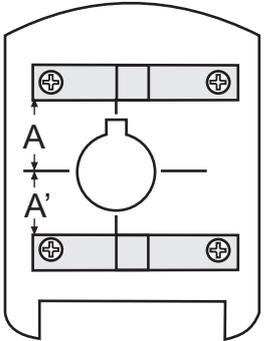
10- ENGINE INSTALLATION

- 4x25mm screw4
- Blind-nut4

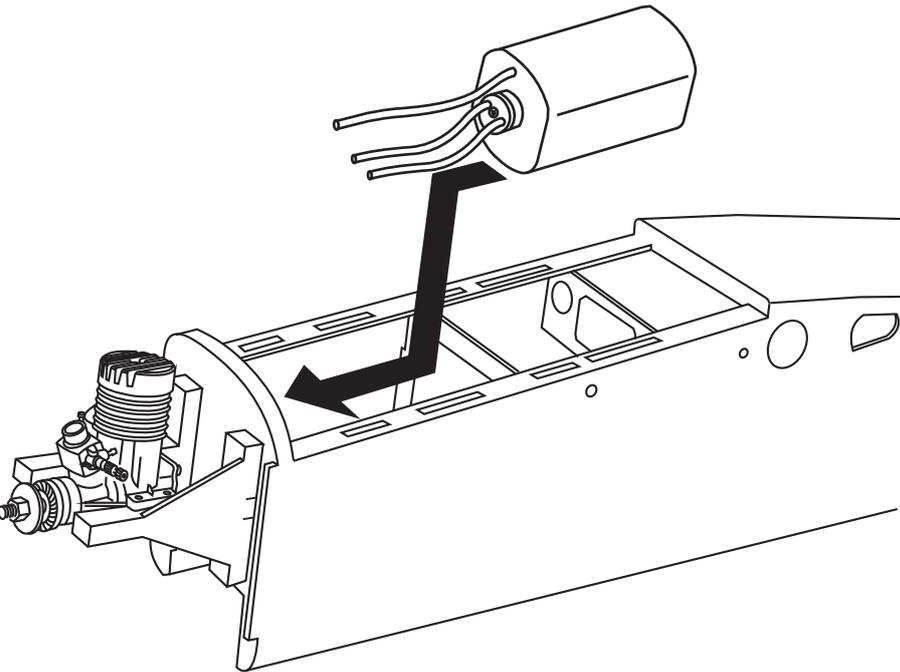
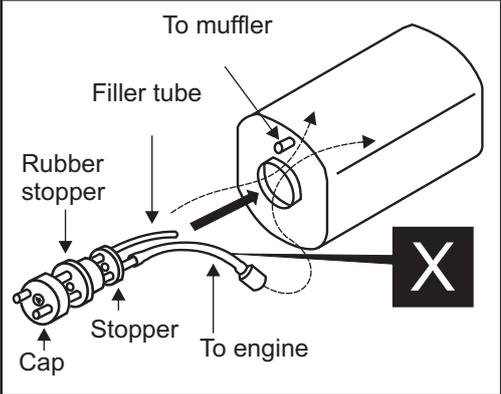


FRONT VIEW

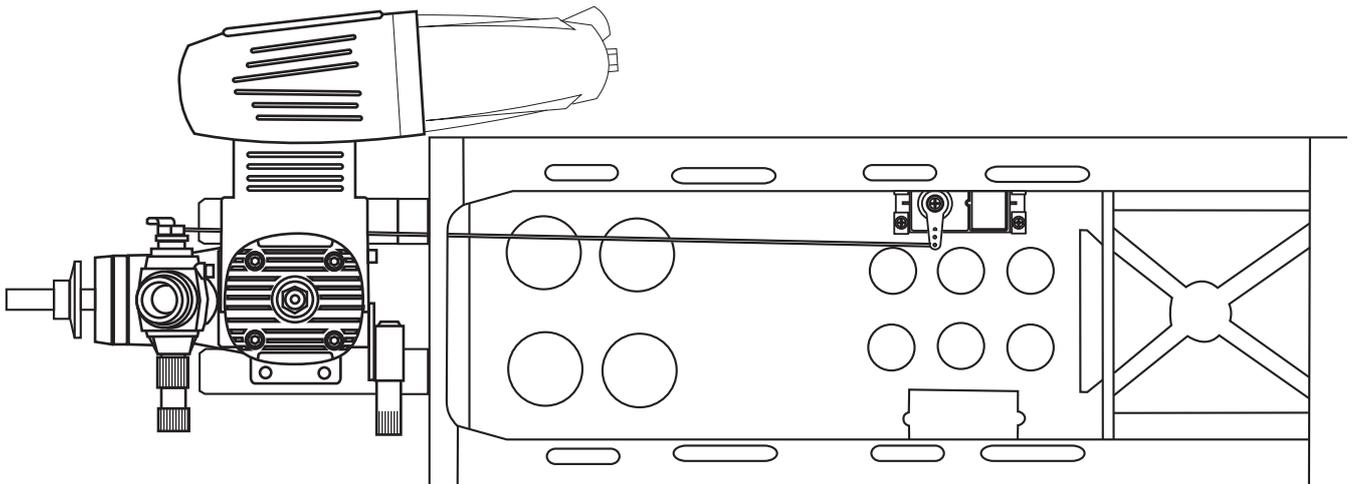
Align the engine center with fire-wall marked line (A=A')



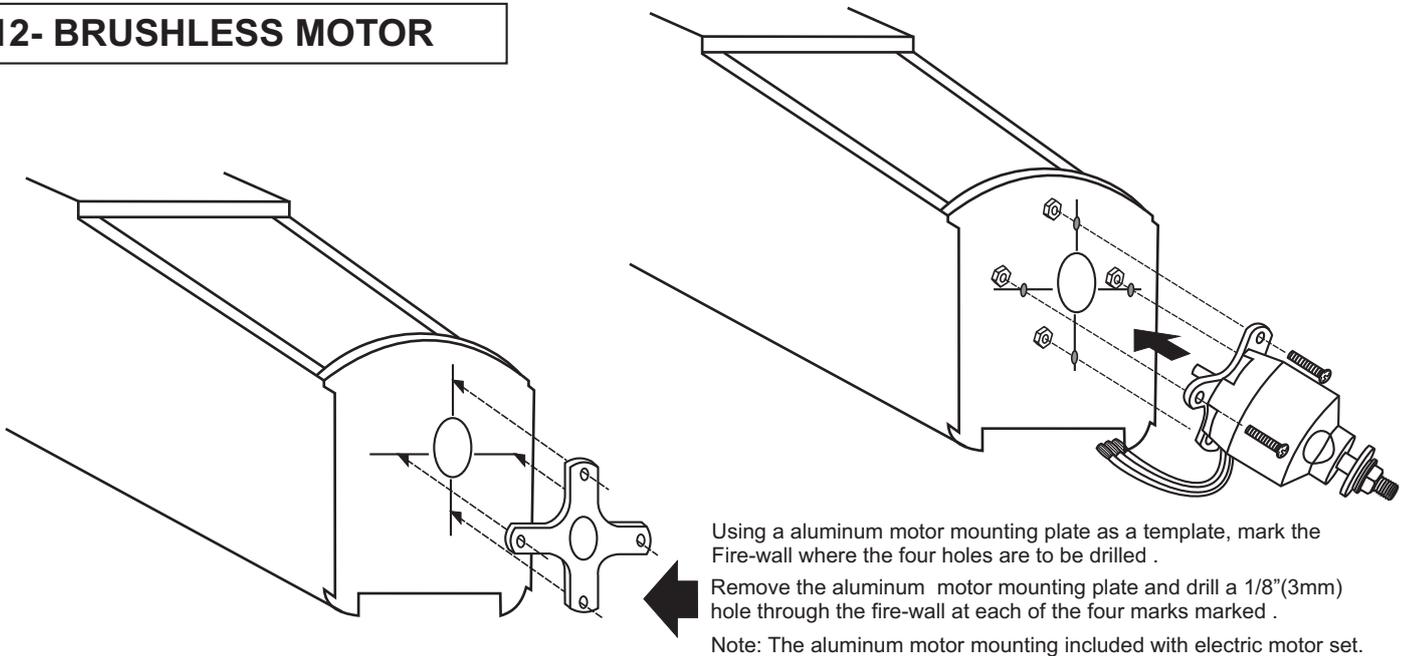
Using the four 3x20mm screws securing the engine to the engine-mount



11- THROTTLE SERVO



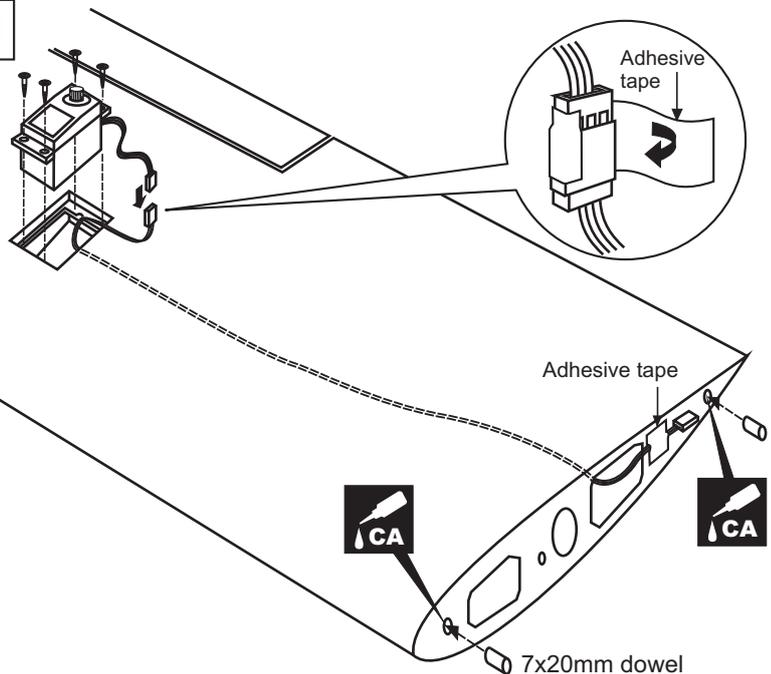
12- BRUSHLESS MOTOR



13- AILERON SERVO INSTALLATION

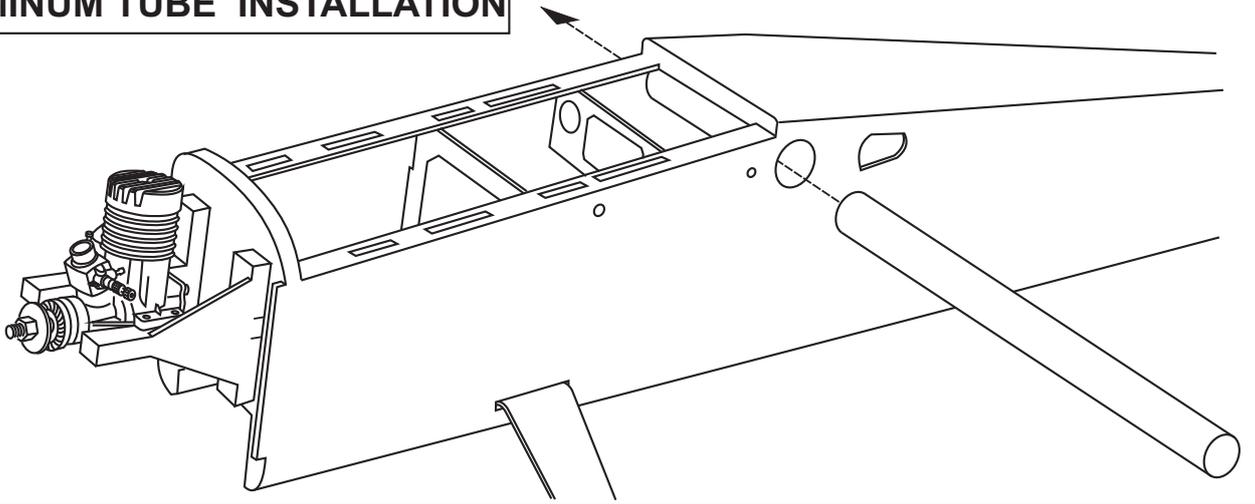
7x20mm dowel

4

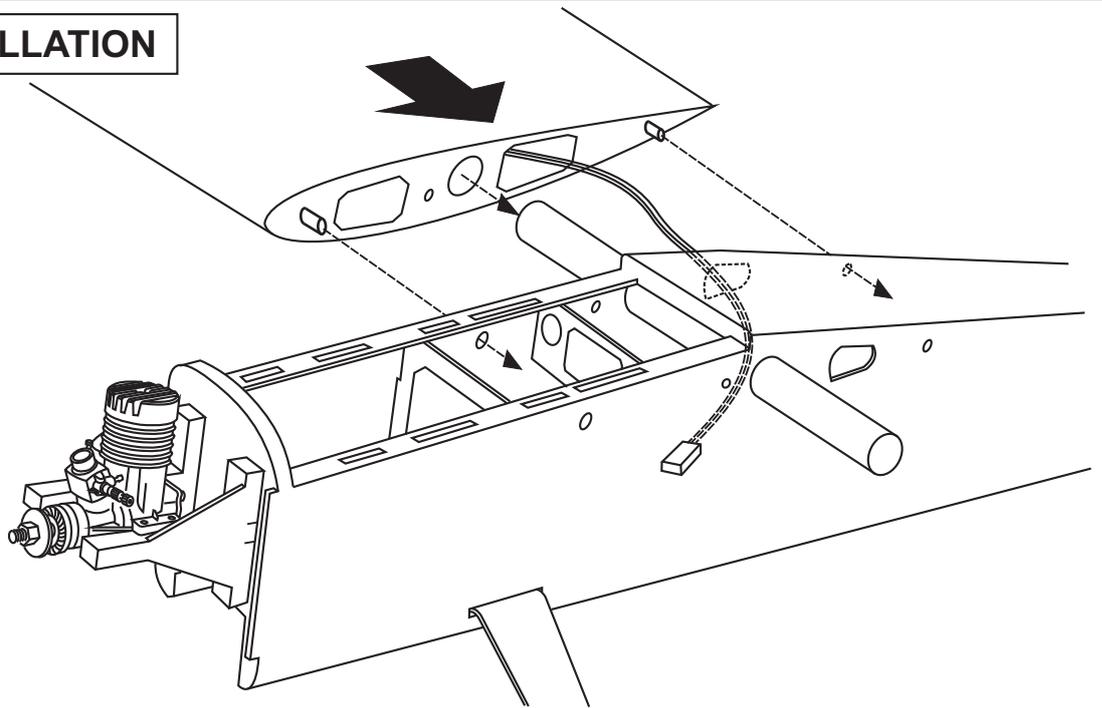


WING BOTTOM-VIEW

14- ALUMINUM TUBE INSTALLATION

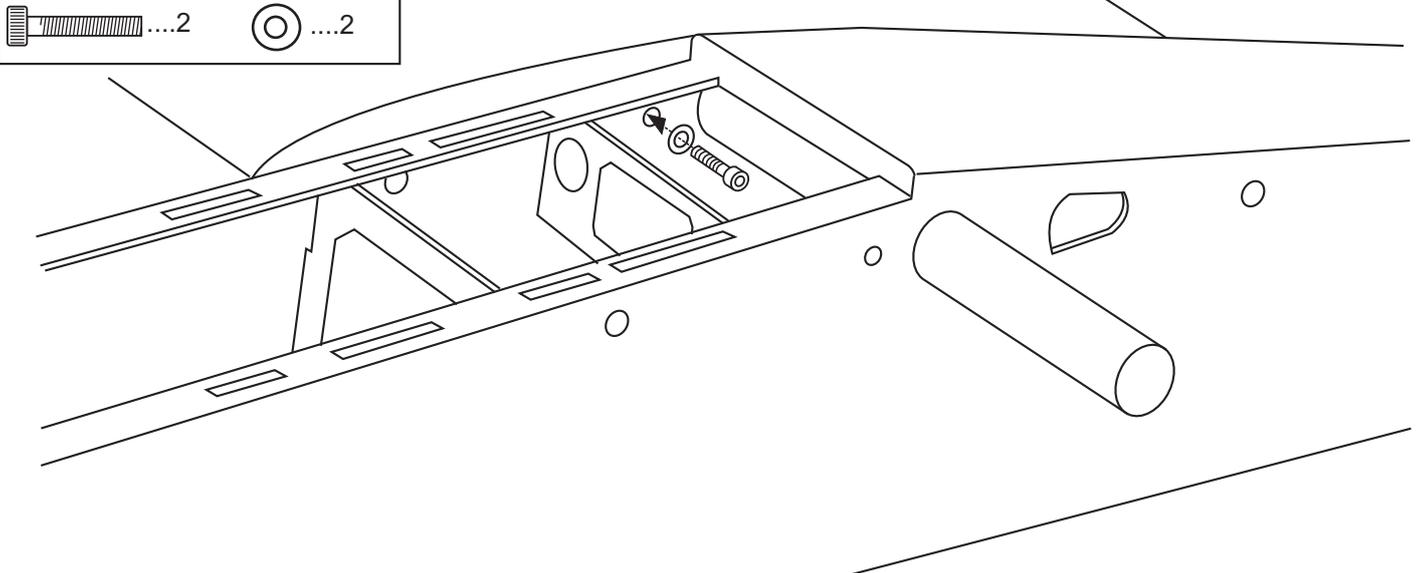


15- WING INSTALLATION



16- WING INSTALLATION

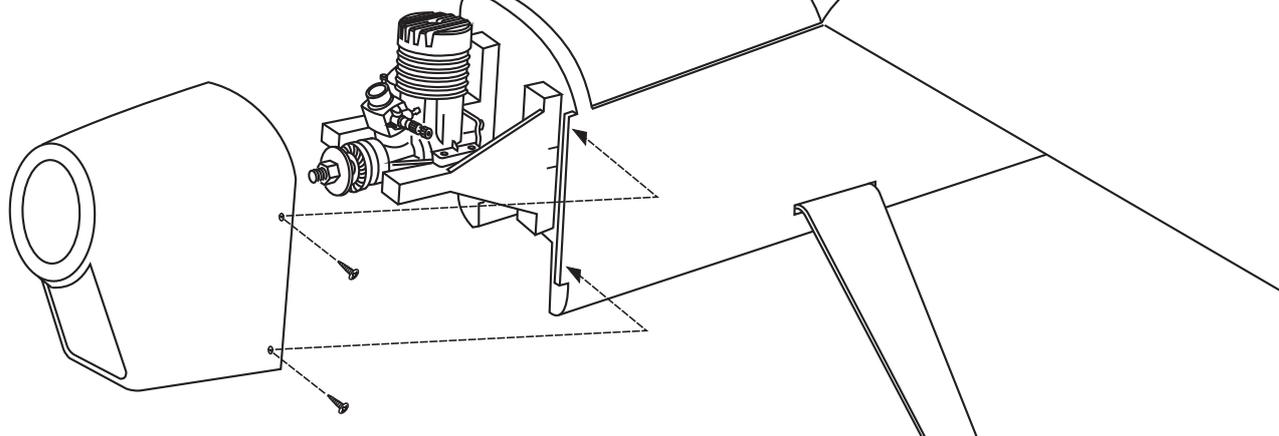
5x20mm screw2 5mm washer2



17- COWLING INSTALLATION

2.5x10mm screw

4



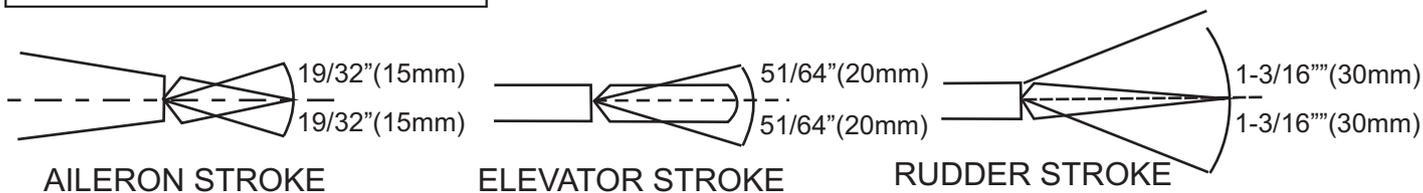
18- BALANCE

The recommended C.G (Center of Gravity) location for the Stick is 89 ~ 91mm
Adjust the location of the battery pack as required to achieve this C.G location.
If necessary , add weight to either the tail or nose until the correct balance is achieve.



WARNING ! Securely install the receiver and power pack, ensuring they will not come loose or rattle during flight. Never fly before checking the Cg's required position.

20- CONTROL SURFACE



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

All details are subject to change without notice !

Technische Änderungen und Irrtümer vorbehalten !