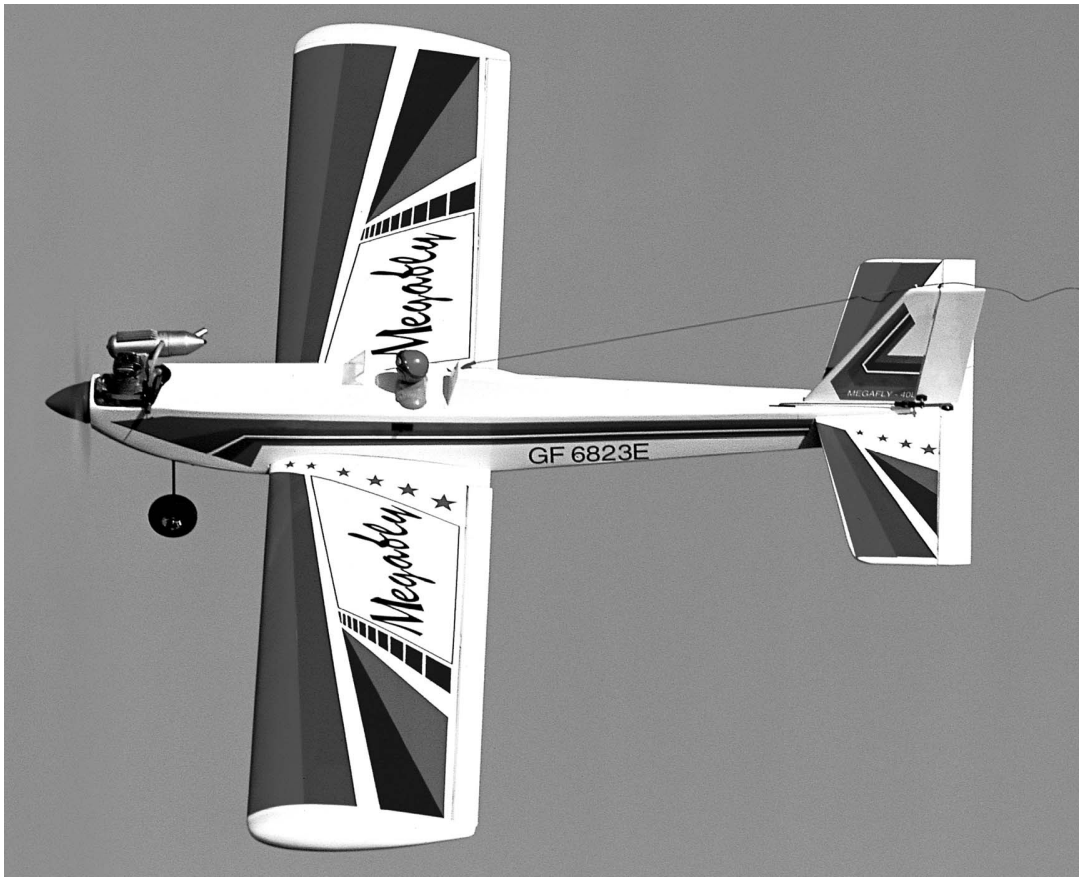
RADIO CONTROL MODEL

ASSEMBLY INSTRUCTION

Mega fly

.40 ARF LOW WING TRAINER

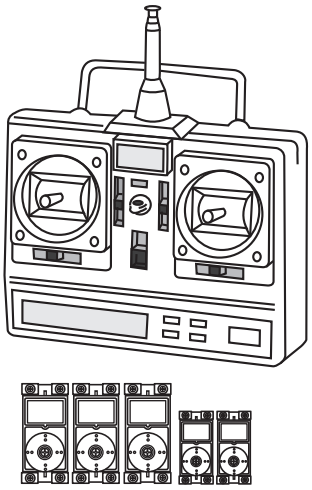


Wingspan **1510mm**
Fuselage length **1070mm**
Engine: 40 - 46 2T / 52 - 60 4T
Electric Motor: 600-700W
Radio: 5 channel / 4-5 servo
RC Functions: Rudder - Elevator - Aileron - Throttle

RADIO CONTROL MODEL®

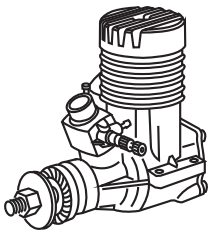
WARNING! This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of controll and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice if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

REQUIRED FOR OPERATION (Purchase separetely)

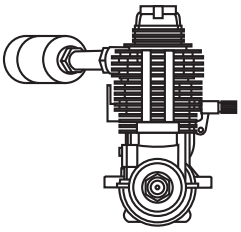


Radio a 5 channel (min)
4 servo (Motorx1, Rudderx1
Elevatorx1, Aileronx2: mini
or standard servo.

10.5x6 for .40 - 2 cycle engine
11x6 for .46 - 2 cycle engine
11x7 for .52 - 4 cycle engine
12x7 ~13x6 - Electric motor

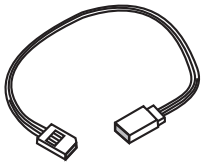


.40 - .46 - 2T

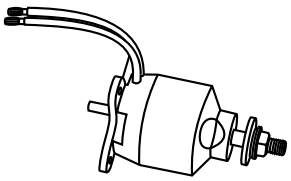


.52 - .70 4T

Silicone tube



Extension for aileron servo.



Brushless Motor
600-720W
or equivalent.
LiPo 4500 mAh (5-6)S

GLUE (Purchase)

Silicon sealer

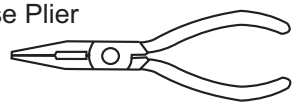
Cyanoacrylate Glue

Epoxy glue (5 minute type)
Epoxy glue (30 minute type)

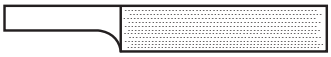
TOOL REQUIRED

Hobby knife

Needle nose Plier

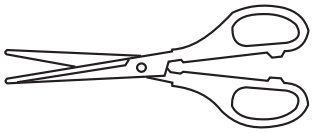


Sander



Phillip screw driver

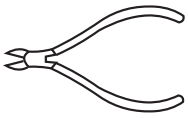
Scissor



Hex Wrench

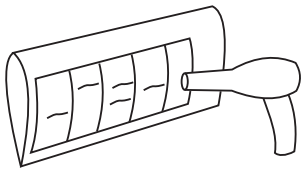
Awl

Wire Cutters



Masking tape - Straight Edged Ruler - Drill and Assorted Drill Bits

If exposed to direct sunlight and / or heat, wrinkles can appear. Storing the model in a coll 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.



1.5mm 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

A B Use epoxy glue

CA Apply cyano glue

L/R Assemble left and right sides the same way.

X 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.

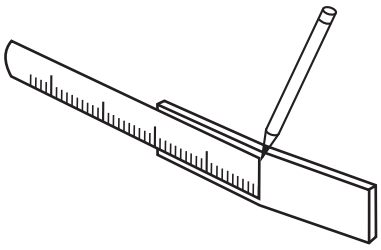
TABELLA DI CONVERSIONE

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”	

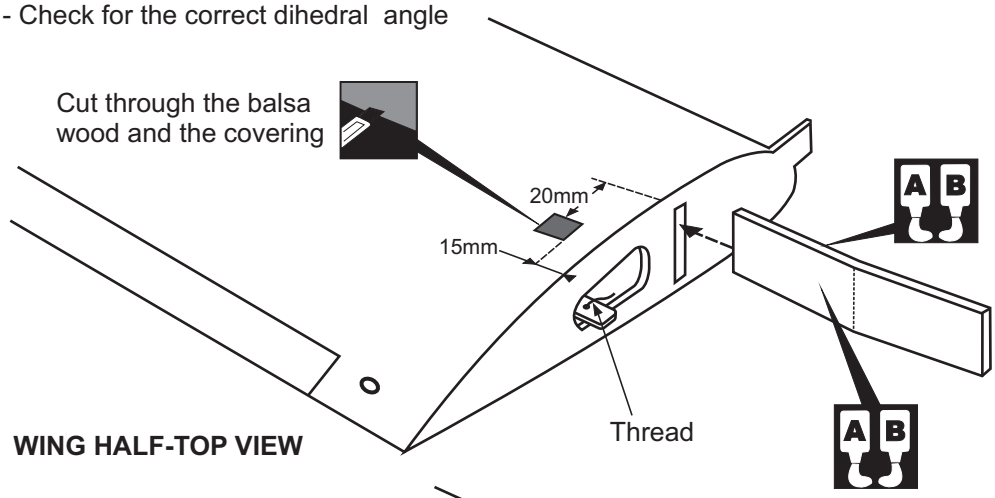
1- Joining the wing

Before gluing:

- Draw the center line on the wing joiner.
- Trial fit each part before gluing . Be certain that there are no gaps. If the parts will join, but with a gaps, sand or trim the parts a little at a time until the parts meet exactly with no gaps.
- Check for the correct dihedral angle

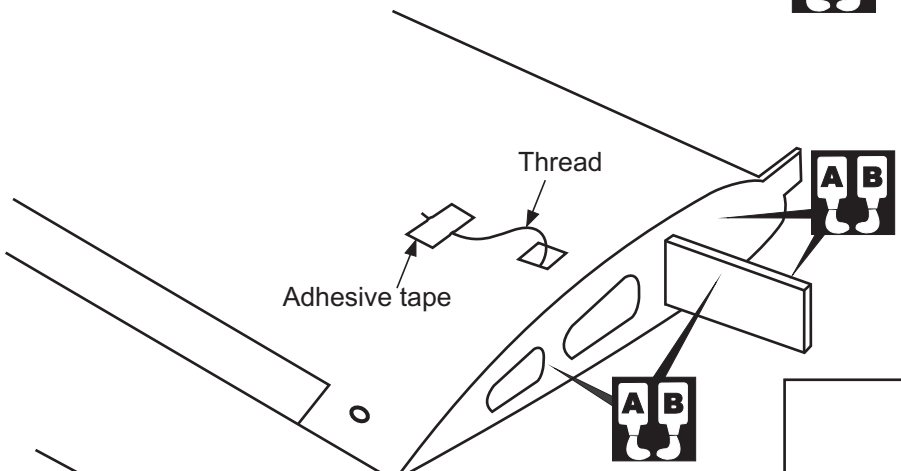


Draw the center line on the wing joiner

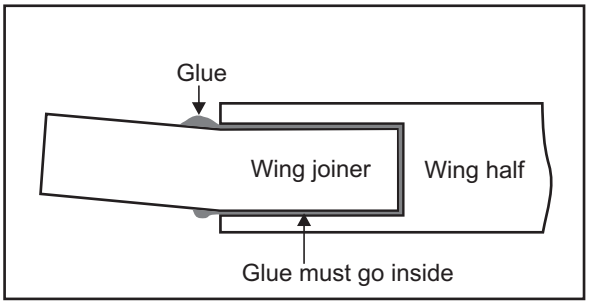


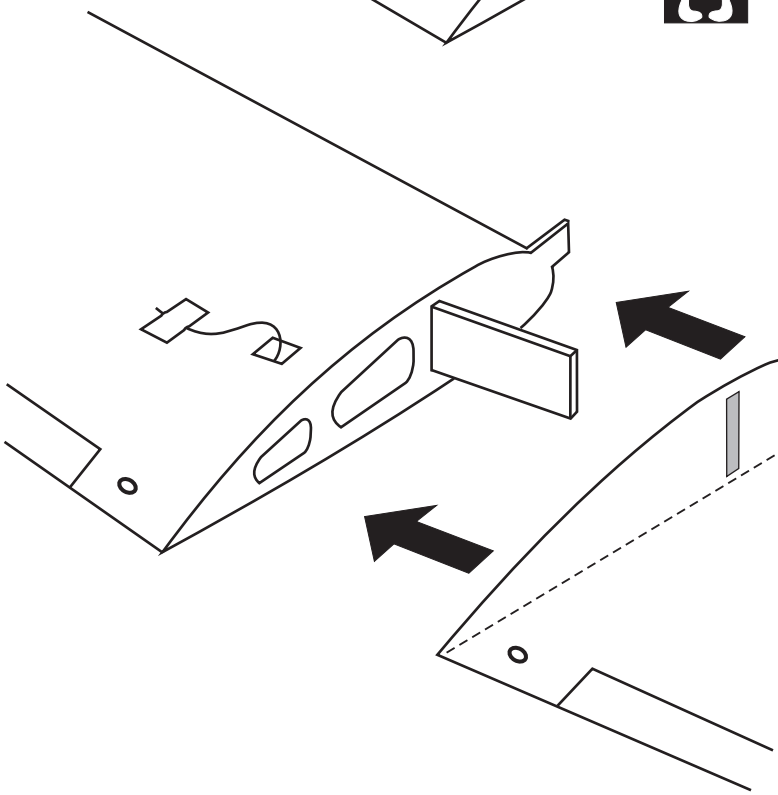
WING HALF-TOP VIEW

! Make sure to glue securely, If not properly glued, a failure in flight may occur.

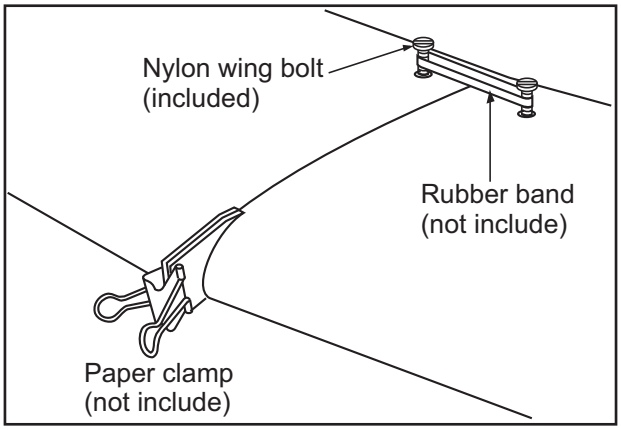


Pull the thread to out of the wing through the square hole you make above and secure it in place with the adhesive tape.





Hold the wing halves together with paper clamp and rubber band

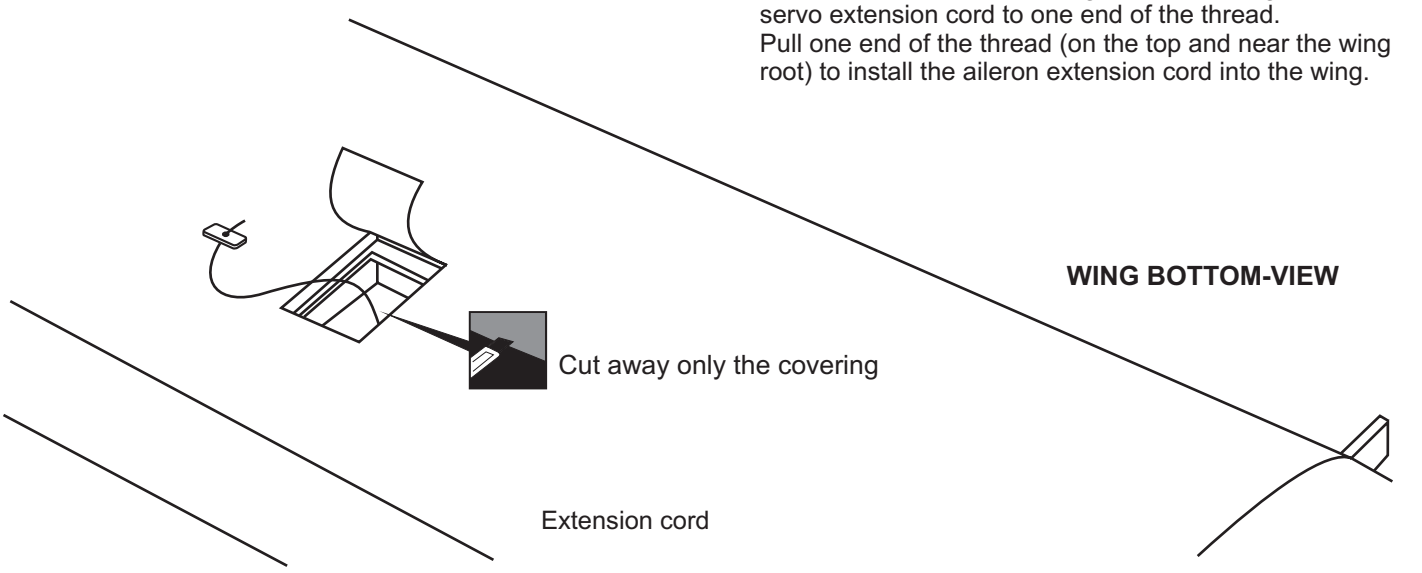


Note: The two wing halves roots must fit together perfectly.

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.

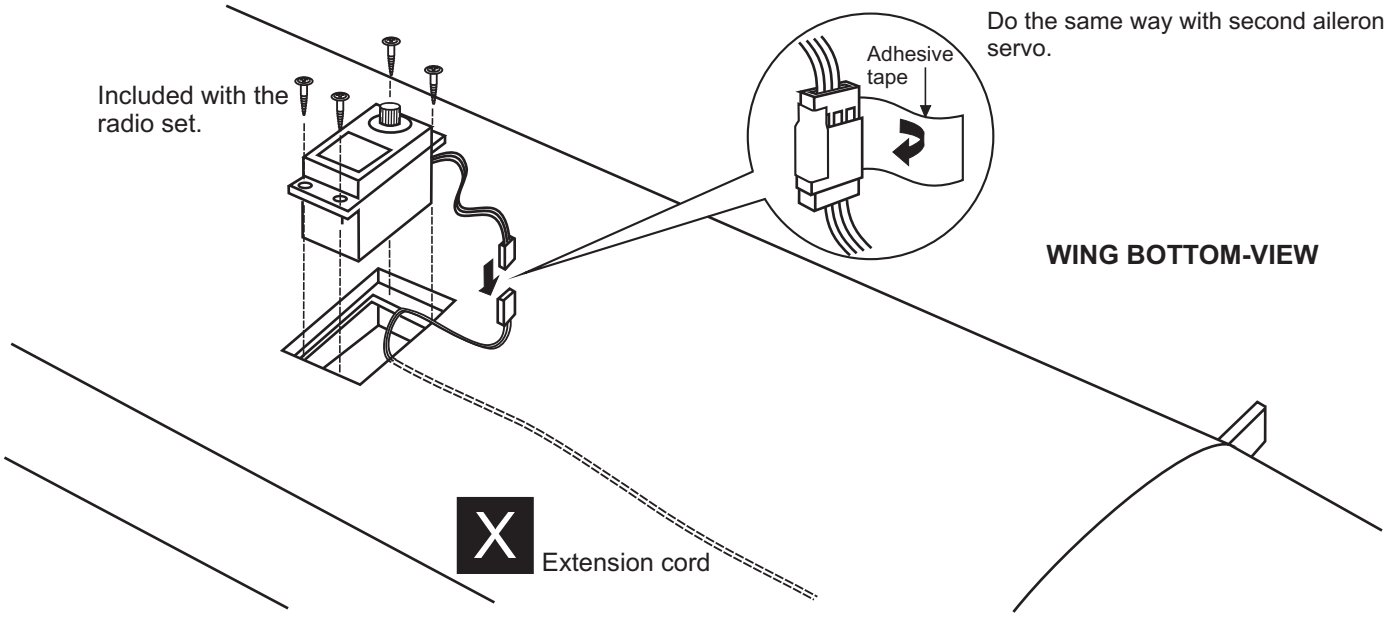
2- Aileron servo installation

Cut away the covering of the wing bottom where the aileron servo goes.
Pull the thread out of the wing and connecting the aileron servo extension cord to one end of the thread.
Pull one end of the thread (on the top and near the wing root) to install the aileron extension cord into the wing.

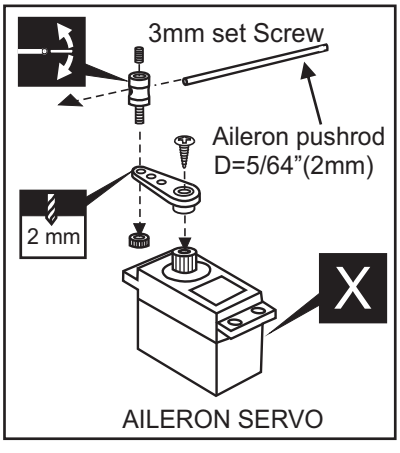


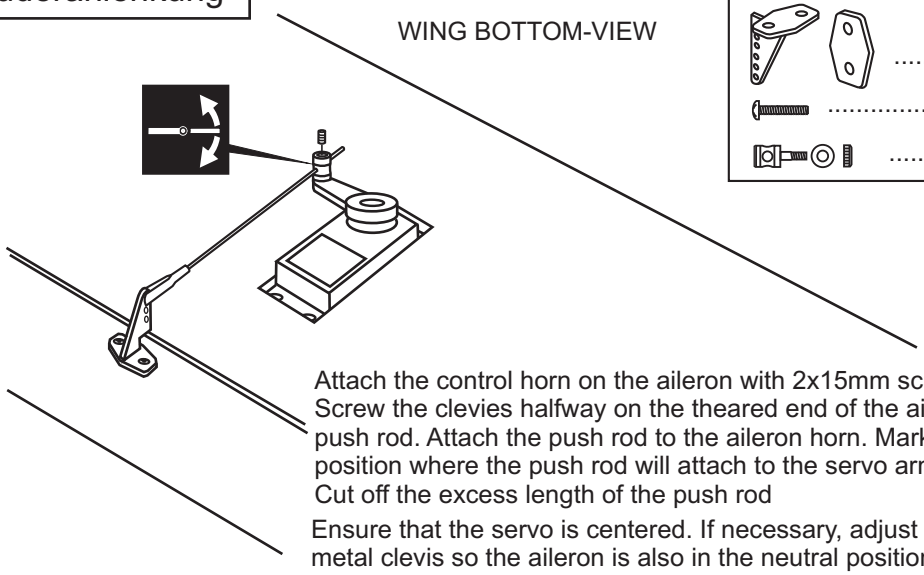
3- Aileron servo installation

Connect the aileron extension cord to the aileron servo and secure with adhesive tape before install the aileron servo on to the wing.
Do the same way with second aileron servo.



3- Aileron linkage / Querruderanlenkung





Plastic control horn

Attach the control horn on the aileron with 2x15mm screws. Screw the clevies halfway on the theared end of the aileron push rod. Attach the push rod to the aileron horn. Mark the position where the push rod will attach to the servo arm. Cut off the excess length of the push rod

Ensure that the servo is centered. If necessary, adjust the metal clevis so the aileron is also in the neutral position.

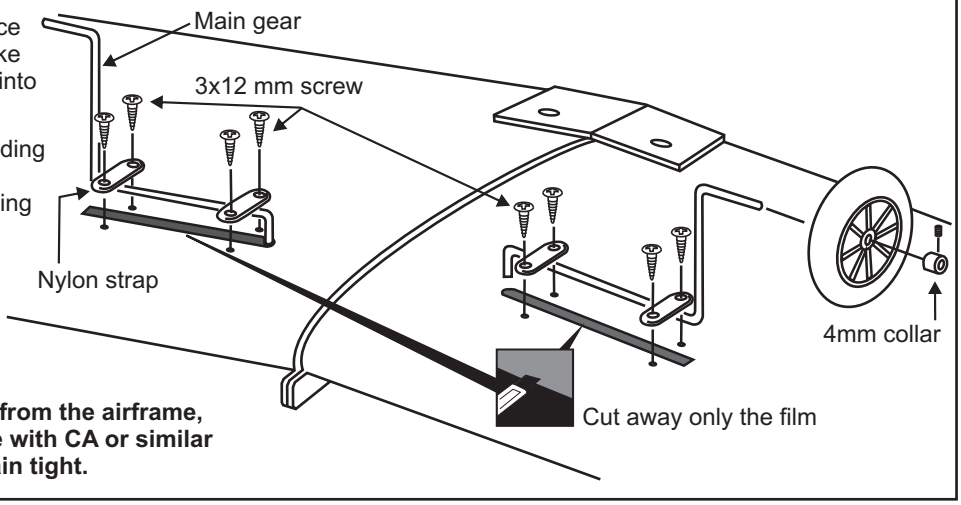
4- Main wing/installing the main gear

1- Locate the main landing gear struts and place them into the landing gear slot as show. Make sure that the ends of the struts are inserted into the holes in the landing gear channel.

2- Position the four nylon straps across the landing gear struts. Using the eight 3x12mm screws located in the hardware bag, fasten the landing gear to the bottom of the wing as show.

3- Slide one wheel onto each of the landing gear axles and secure them with the supplied wheel collars

BOTTOM VIEW



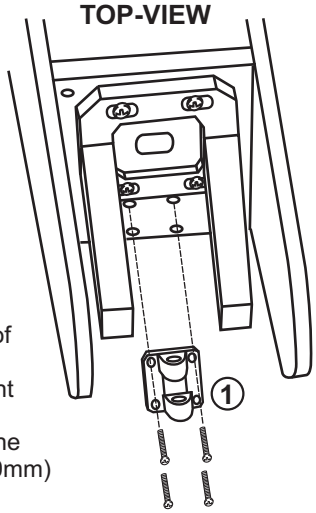
*** WARNING: When removing any covering from the airframe, please ensure that you secure the cut edge with CA or similar cement. This will ensure the covering remain tight.**

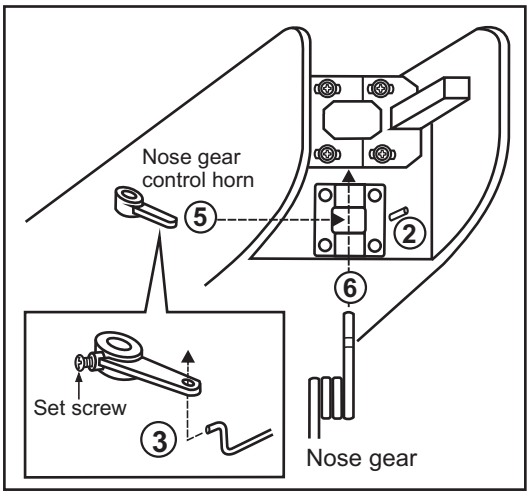
5- Nose gear

(1/8x19/32") 3x15mm screw ...4

1-Securely attach the nose gear mount to the fire-wall using the four 3x15mm screws
2-Insert the white plastic tube into the fuselage, through the firewall.
3-Insert the Z-bend of the nose gear control pushrod into the hole on the nose gear control horn.
4-Insert the pushrod into the plastic tube
5-Position the nose gear control horn on the center of the nose gear mount.
6-With the screw hole facing forward,slide the straight end of the nose gear on to the nose gear mount.
7-When satisfied with the fit and alignment, secure the nose gear control horn in place with 1/8x13/32"(3x10mm) set screw.

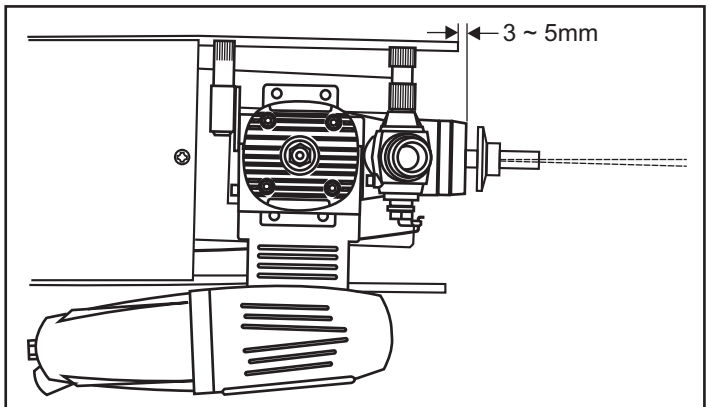
TOP-VIEW





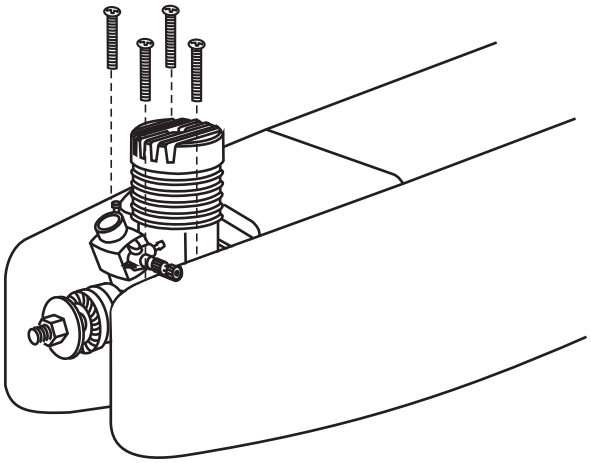
6 -Engine

FUSELAGE - TOP VIEW

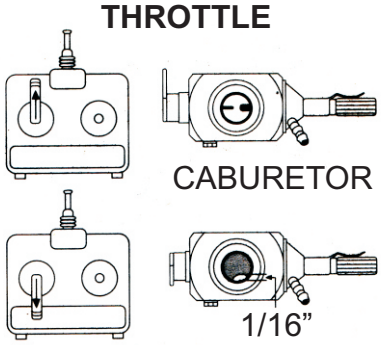


! Engine thrust on balk head is already adjust at factory

1/8x25/32"(3x20mm) screw



THROTTLE

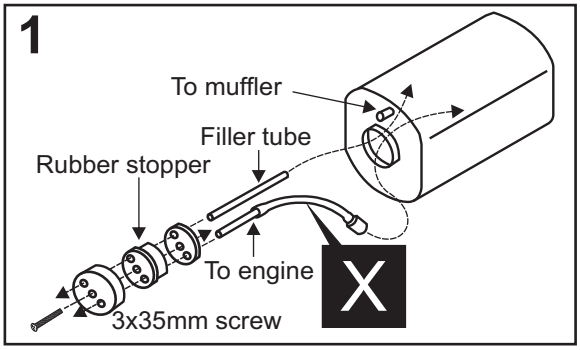


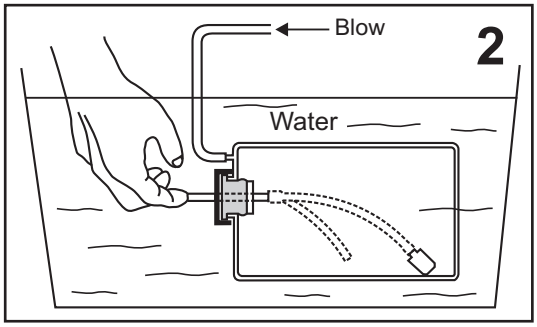
1-Insert the Z-bend into the hole on the throttle lever of your engine. Note: It maybe easier to temporarily remove the carburetor from the engine to insert the Z-bend. It may also be necessary to slightly enlarge the hole to accept the Z-bend.

2-Set the engine on the engine mounting beams. Adjust the pacing of the beams so they are centered in the relation to the mounting plate and so they are almost touching both sides of the engine crankcase.
3-Position the engine on the engine mount beams so the distance from the prop hub to the fire wall is 5mm
4-Using a pencil, mark the engine mounting plate where the four holes are to be drilled
5-Remove the engine and drill a 9/64"(3.5mm) hole through the beam at each of the four marks made in step 4 above.
6-Reposition the engine on the mounting beam, aligning it with the holes. Secure it in place with the four 1/8x25/32"(3x20mm) screws.

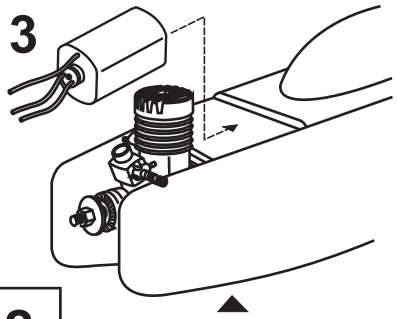
7-Fuel tank

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 foam padding).

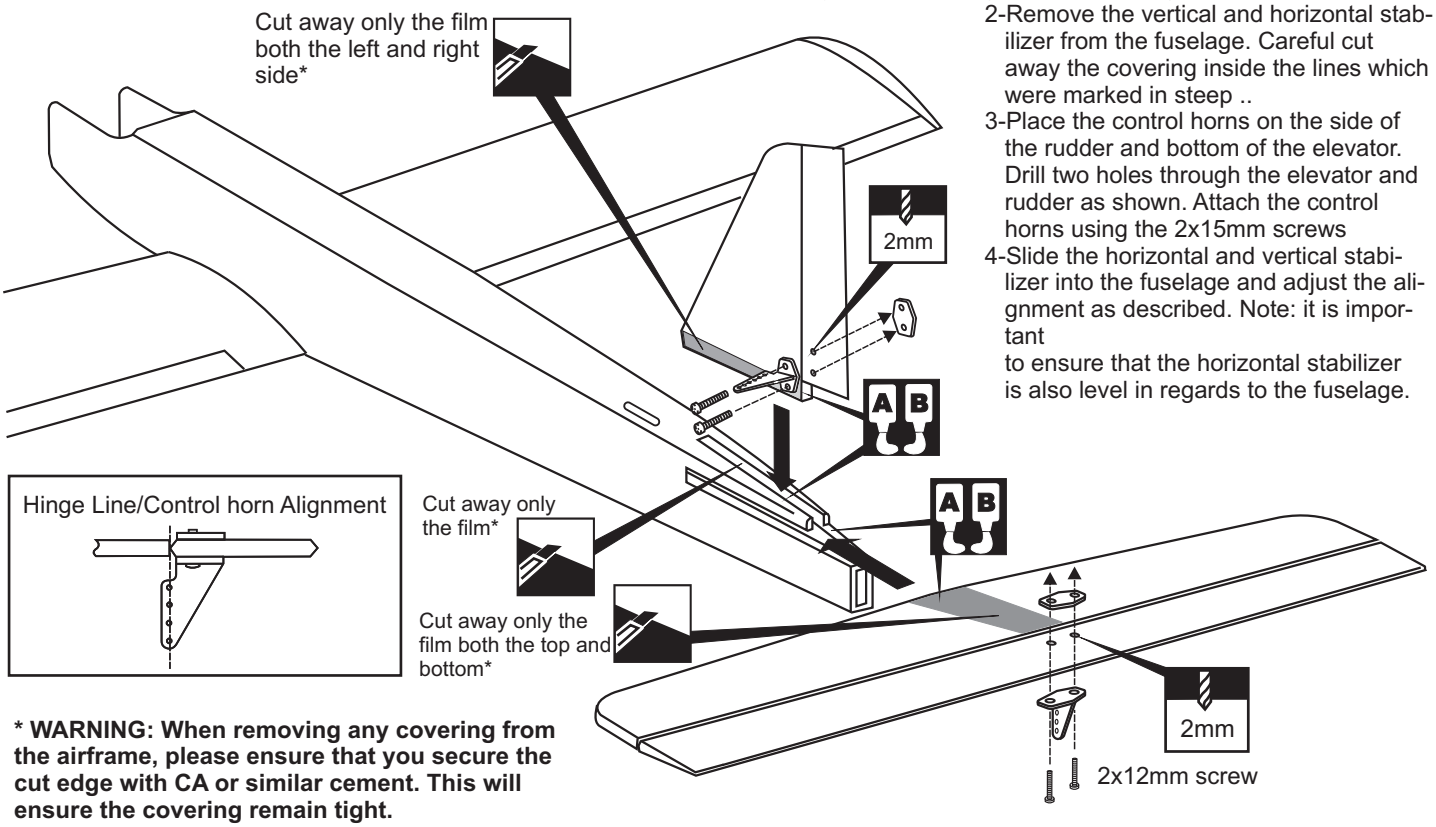
8-Vertical / Horizontal Tail

1-Slide the vertical and horizontal stabilizer on the fuselage, use a pencil to trace around the bottom and the top (horizontal stabilizer) and the right and the left (vertical stabilizer).

2-Remove the vertical and horizontal stabilizer from the fuselage. Careful cut away the covering inside the lines which were marked in steep ..

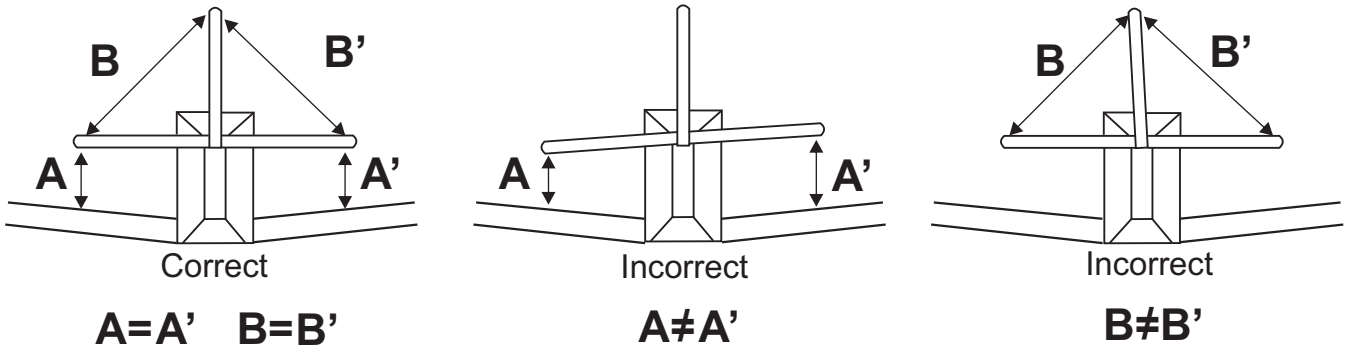
3-Place the control horns on the side of the rudder and bottom of the elevator. Drill two holes through the elevator and rudder as shown. Attach the control horns using the 2x15mm screws

4-Slide the horizontal and vertical stabilizer into the fuselage and adjust the alignment as described. Note: it is important
to ensure that the horizontal stabilizer is also level in regards to the fuselage.



*** 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.**

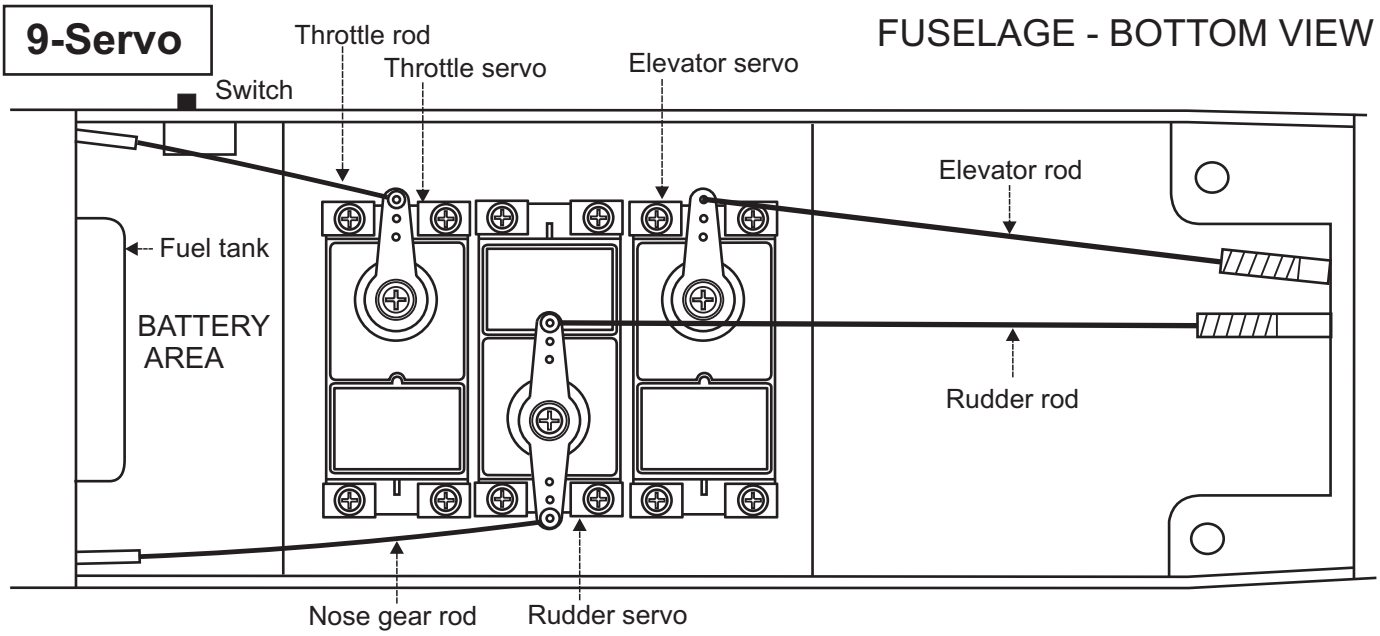
Attach the Vertical Stabilizer and the Horizontal Stabilizer



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.

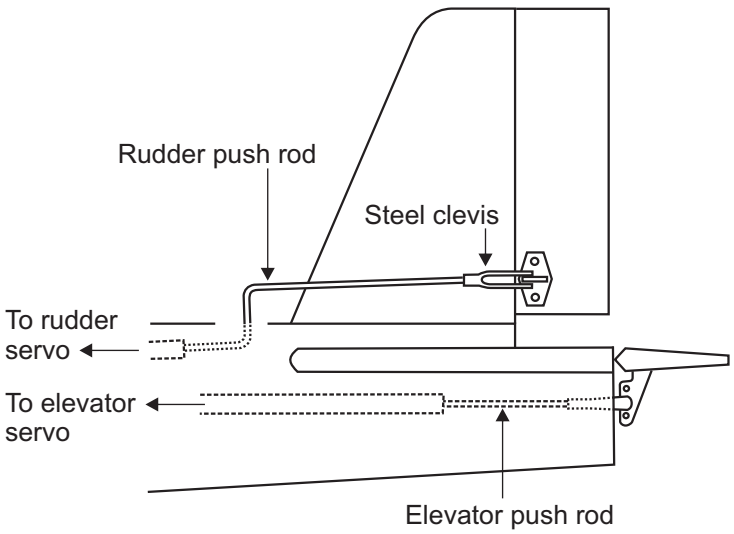
9-Servo

FUSELAGE - BOTTOM VIEW

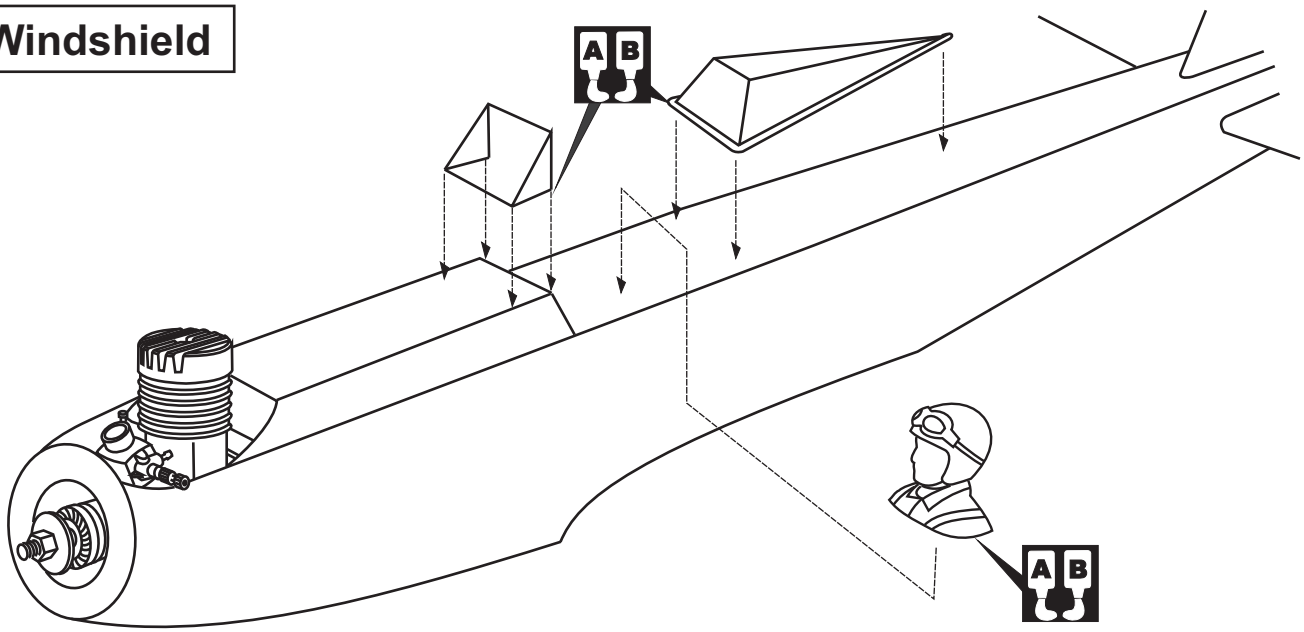


10- Linkage

Rudder - elevator linkages

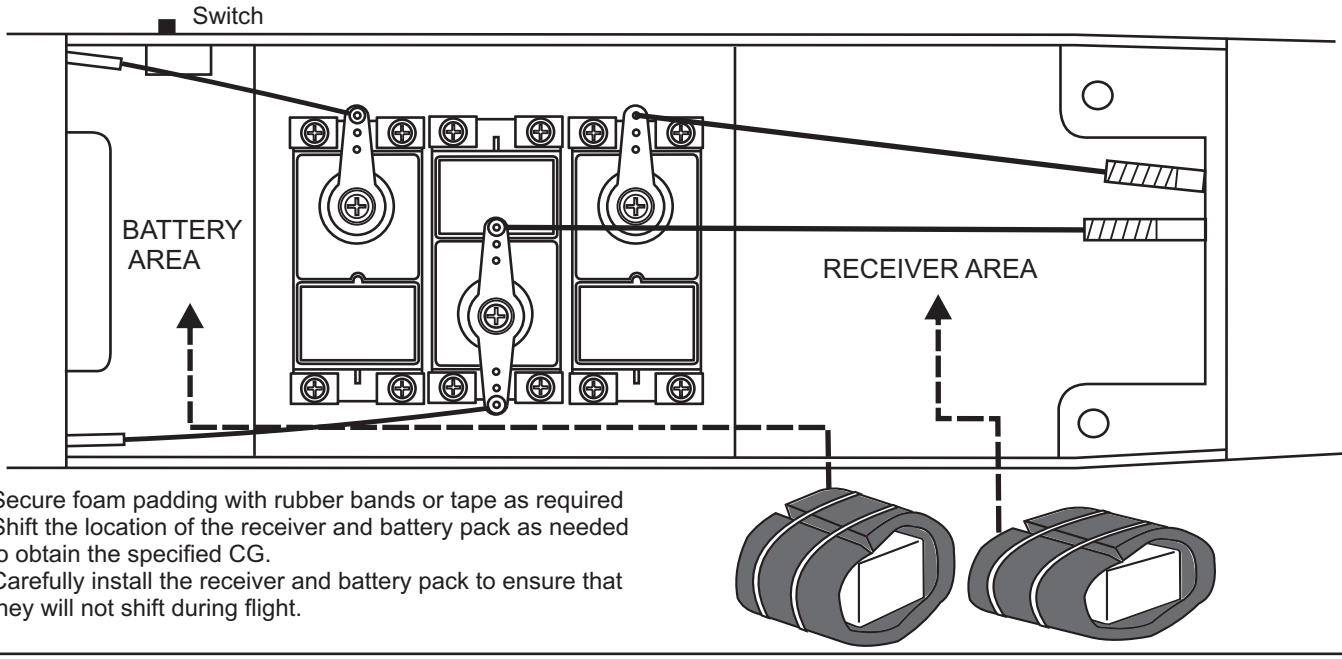


11- Windshield



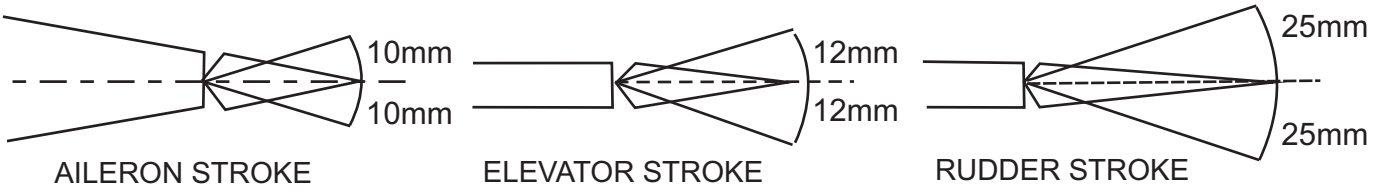
12-Battery - receiver

FUSELAGE - BOTTOM VIEW



1- Secure foam padding with rubber bands or tape as required
2- Shift the location of the receiver and battery pack as needed to obtain the specified CG.
3- Carefully install the receiver and battery pack to ensure that they will not shift during flight.

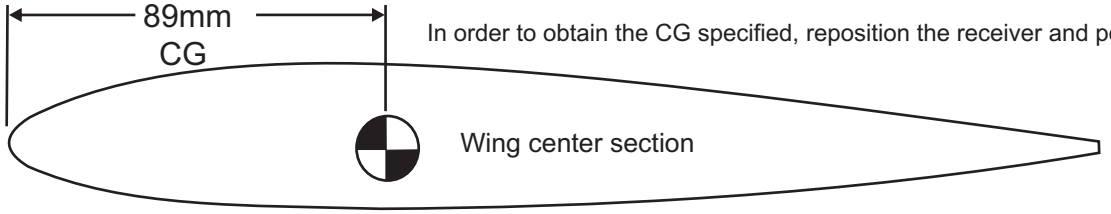
13-Control surface



14-Balance

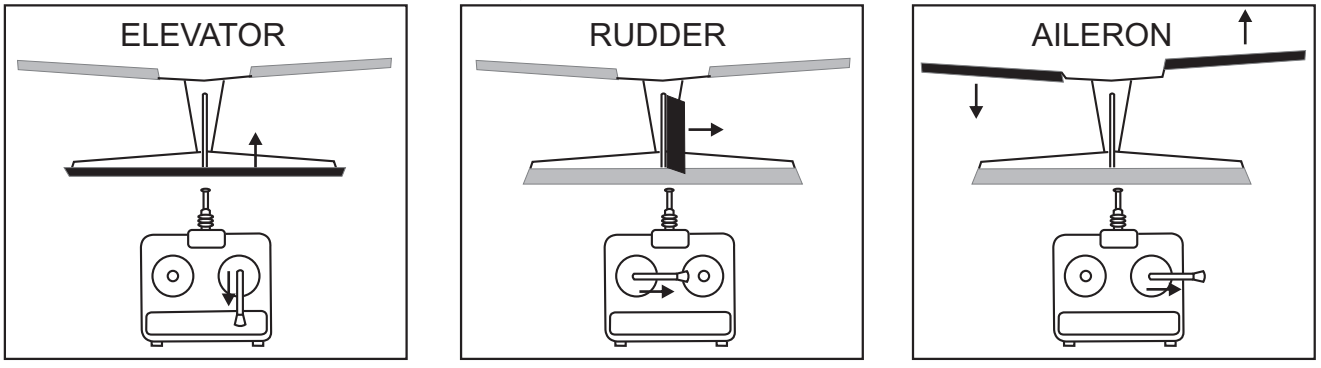
WARNING ! Securely install the receiver and power pack, ensuring they will not come loose or rattle during flight.
Never fly before checking the Cg's required position.

In order to obtain the CG specified, reposition the receiver and power pack



16-Pre-Flight check

Check that each clevis is securely snapped into position.
Check that all servo horn screws are tight.
Charge the transmitter and receiver battery.



WARNING:

- In the beginning, first time fliers should always be assisted by an experienced flier and never fly alone.
- This model aircraft is designed to be powered by a 2 cycle .40 ~ .46 engine or a 4 cycle .48 ~ .52 engine. Installing a more powerful engine than specified or flying the MEGA FLY aggressively may lead to serious damages and accidents.

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