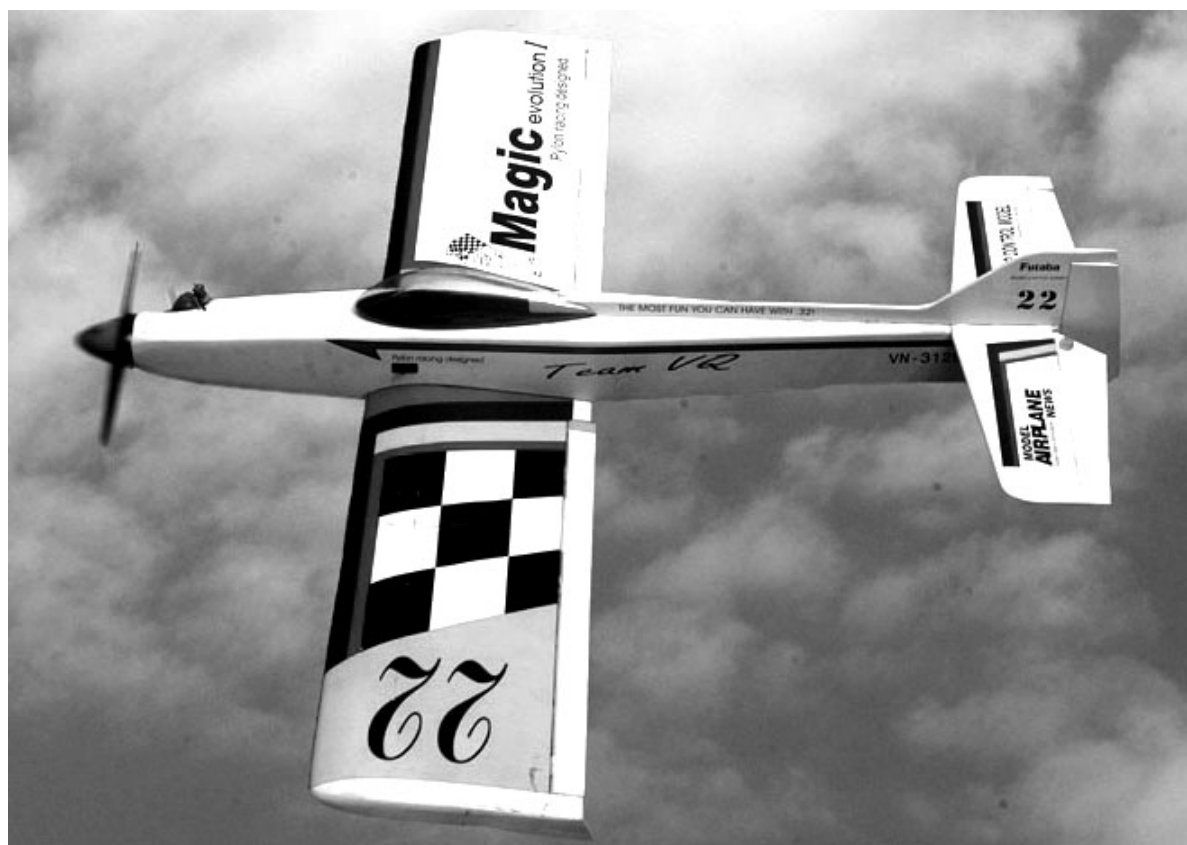


Radio control model
INSTRUCTION MANUAL
MAGIC
PYLON RACING

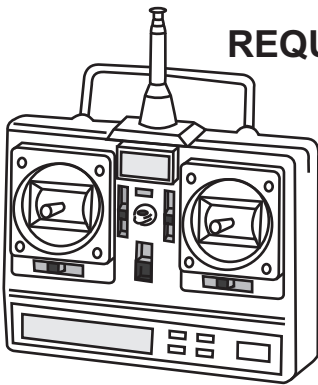


Wingspan: 1148mm (45.2")
Radio : 4 channels
Engine : .25 -.32 two-stroke

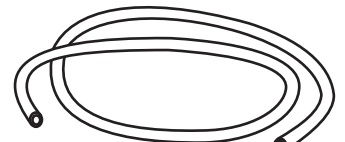
WARNING! This radio control model is not a toy. If modified or flown carelessly it could go out of control and cause serious bodily injury or property damage.
Before flying your airplane, ensure the air field is spacious enough.
Always fly it outdoors in safe areas with no debris or obstacles.



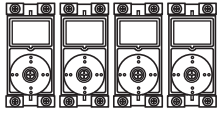
REQUIRED FOR OPERATION (Purchase separately)



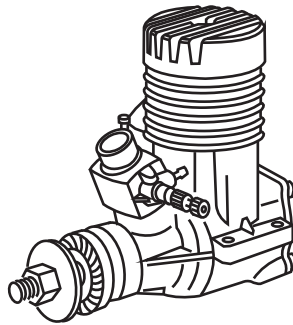
9 x 6 for .25 - 2 cycle engine
9.5x6 for .32 - 2 cycle engine



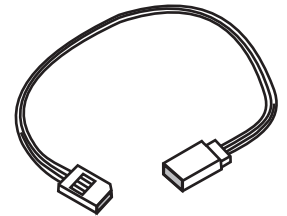
Silicone tube



Minimum 4 channel radio for airplane
.Motor control x1 .Aileron x1
.Elevator x1 .Rudder x1



.25 ~ .32 - 2 cycle



Extension for aileron servo.

GLUE (Purchase separately)



Cyanoacrylate Glue



Silicon Glue



Epoxy Glue (30 minutes type)
(5 minutes type)

TOLLS REQUIRED (Purchase separately)

Hobby knife 

Needle nose Pliers 

Sander 

Phillip screw driver 

Scissors 

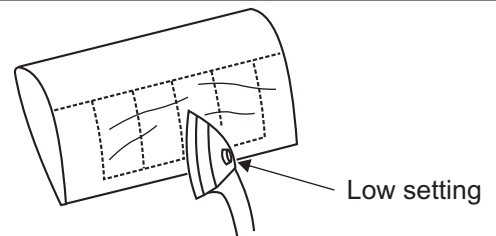
Hex Wrench 


Awl 


Wire Cutters 


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 covering.





 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"	

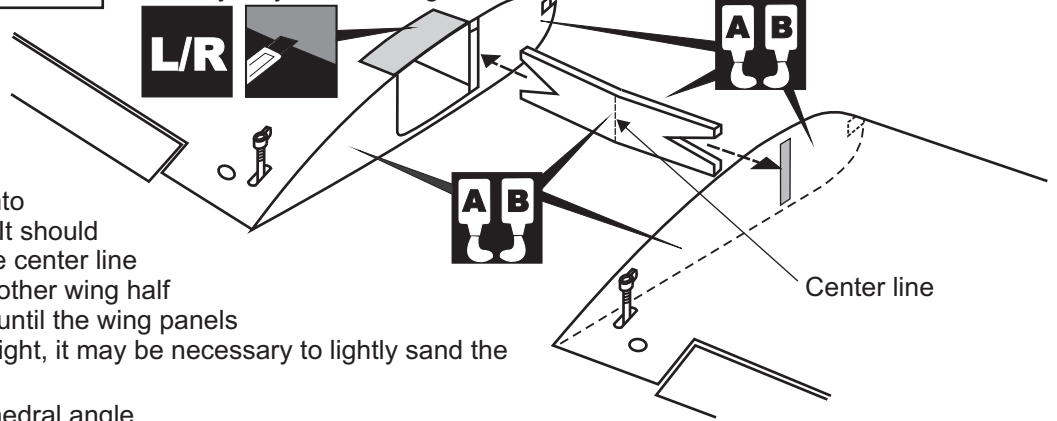
1- Joining the wing

- 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. Next, slide the other wing half onto the dihedral brace until the wing panels meet. If the fit is overly tight, it may be necessary to lightly sand the dihedral brace.
- 3- Check for the correct dihedral angle
- 4- Apply a generous amount of epoxy into the wing joiner cavity of one wing half. Next, 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.
- 5- Do the same way with the other wing half. 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 kerosene and a paper towel.
- 6- Apply masking tape at the wing joint to hold the wing together securely while the epoxy cures. (Or using litter CA glue)

WARNING: 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.

Cut away only the covering.

TOP VIEW



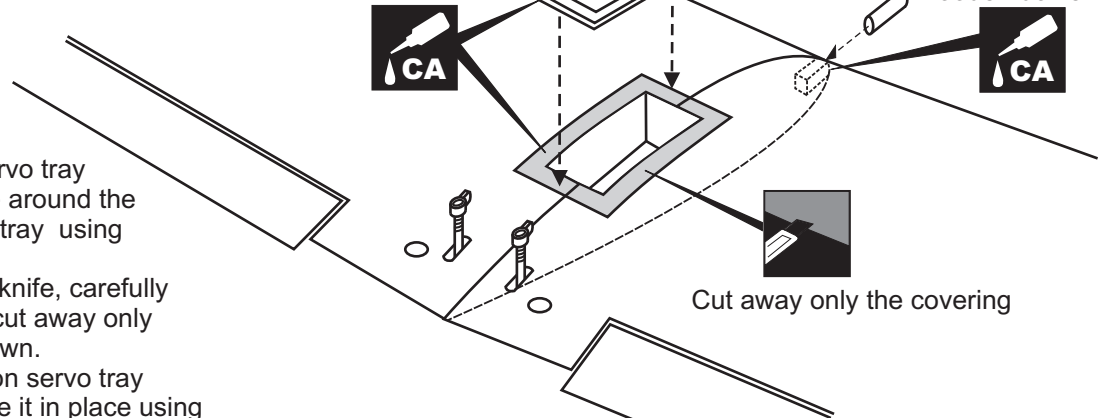
2- Aileron servo tray

- 1- Using the aileron servo tray as a template. Trace around the outside of the servo tray using a felt tipped pen.
- 2- With a sharp hobby knife, carefully cut along the lines (cut away only the covering) as shown.
- 3- Reposition the aileron servo tray as shown and secure it in place using CA glue.
- 4- Slide the dowel into the hole on leading edge as shown and secure it in place using CA glue.

TOP VIEW

Aileron servo tray (Ply wood)

Wooden dowel



Cut away only the covering

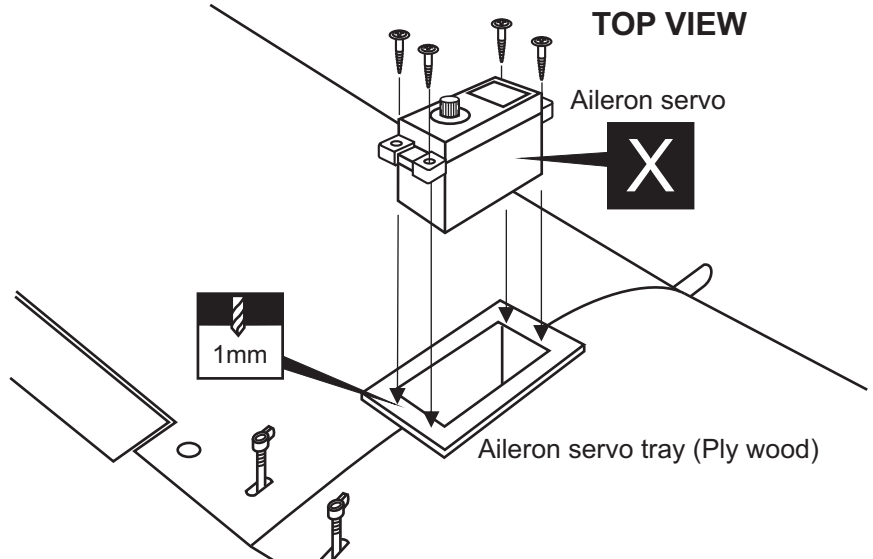
! Make sure to glue securely, If not properly glued, a failure in flight may occur.

3- Aileron servo

- 1- Install the rubber servo grommets and eyelets in the aileron servo and place the servo into the aileron servo tray as shown. Using a pencil, mark the position of the four servo mounting holes.
- 2- Remove the servo from the servo tray. Drill the four mounting holes as marked using 1mm drill bit.
- 3- Place the aileron servo back in its tray and secure it in place using the four screws included with the servo.

TOP VIEW

Aileron servo



Aileron servo tray (Ply wood)

4-Aileron Linkage

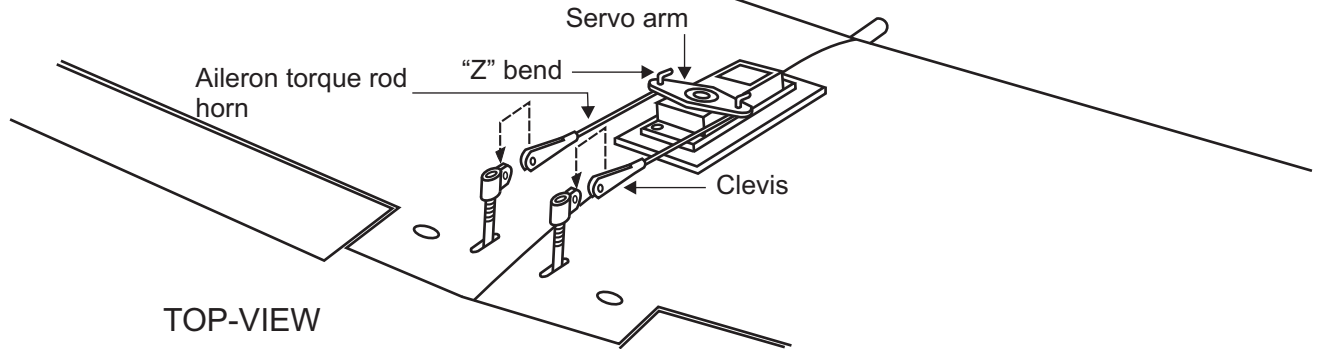
Clevis

.....2

1- Install one clevis onto each of the aileron torque rod horn. With the aileron and aileron servo in the neutral position, mark the position where each of the linkages will attach to the servo arm.

2- Insert the aileron linkages into the servo arm accordingly.

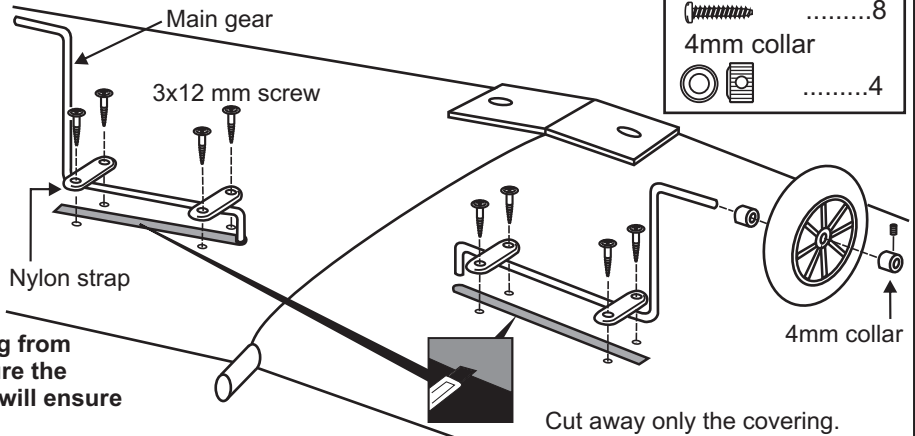
Ensure that the servo is centered. If necessary, adjust the metal clevises so the ailerons are also in the neutral position.



5- 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 axes and secure them with the supplied wheel collars.

*** 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.



Nylon strap

.....4

3x10mm screw

.....8

4mm collar

.....4

6- Horizontal stabilizer

FUSELAGE TOP-VIEW

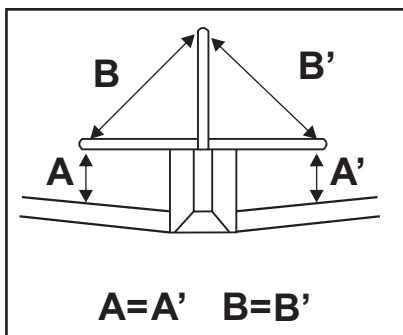
Control horn

.....2

2x12mm screw

.....4

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



(30 min.)

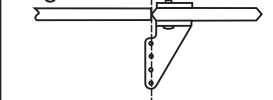
Cut away only the covering.



2mm

2x12mm screw

Hinge Line/Control horn Alignment



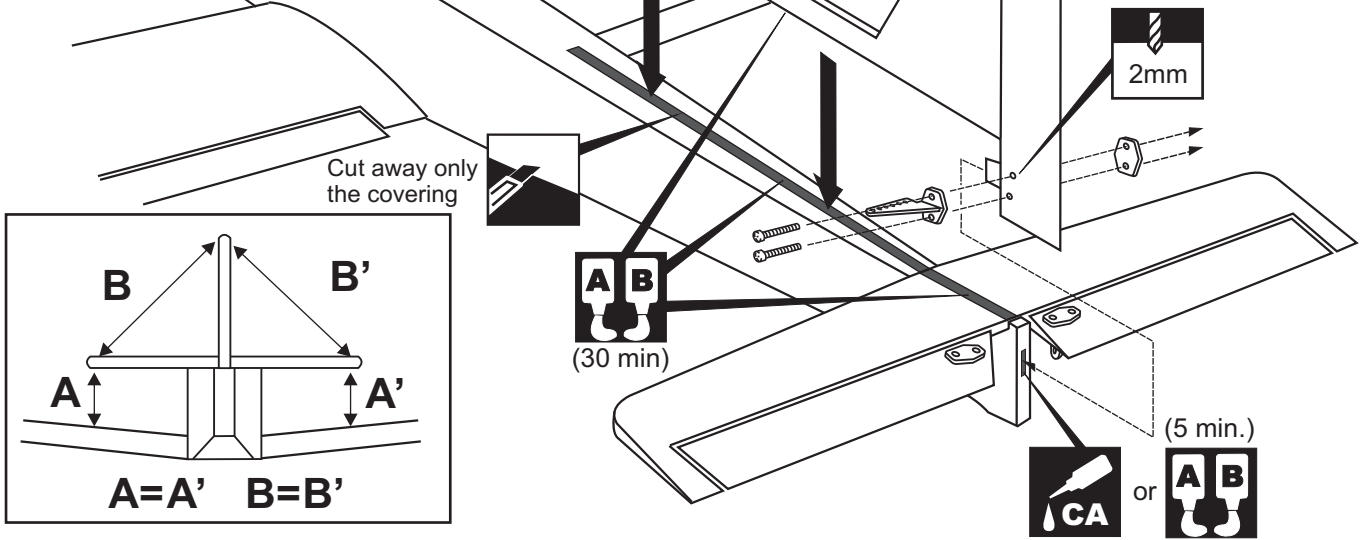
- 1- Trial pit the horizontal stabilizer in place on the fuselage
- 2- Use a pencil to trace around the bottom of the stabilizer where it meets the fuselage.
- 3- Remove the horizontal stabilizer from the fuselage, cut away the covering inside the lines which were marked above.
- 4- Install the horizontal stabilizer onto the fuselage, secure it in place using epoxy or CA glue.

*** 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.

7- Vertical stabilizer

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

- Control horn1
 2x12mm screw2



* **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.

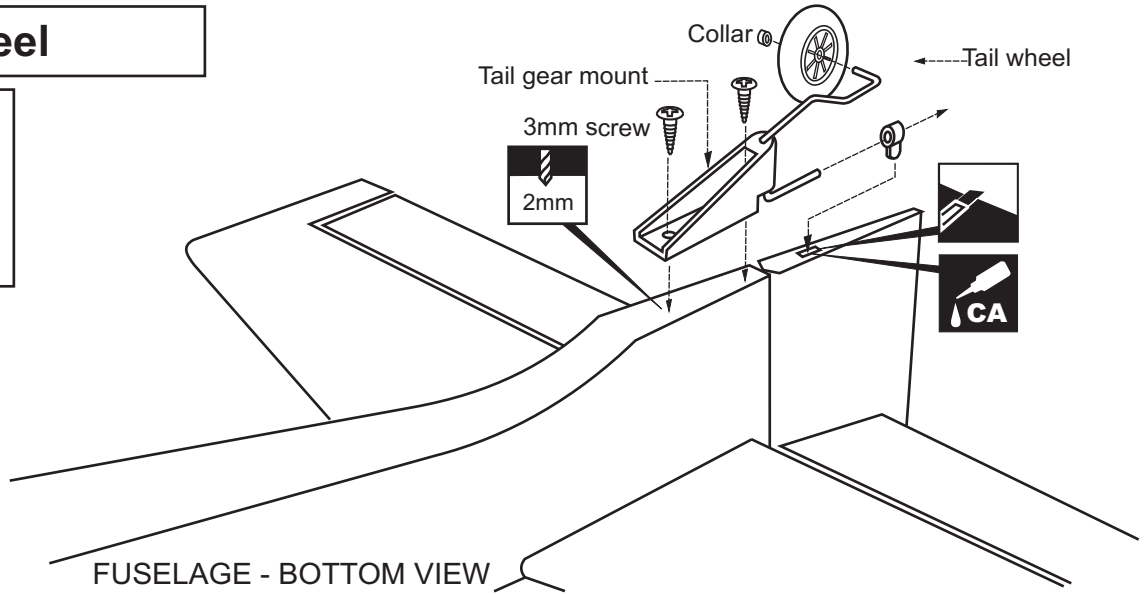
8- Tail wheel

2mm collar

.....1

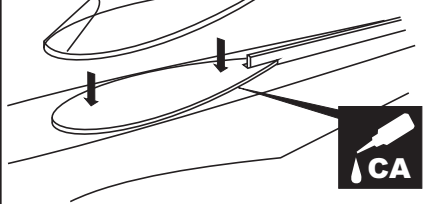
3x10mm screw

.....2

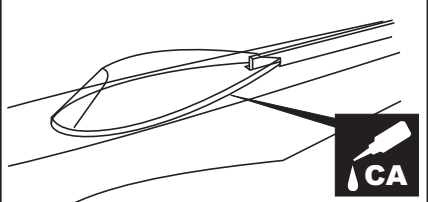


9- Canopy

1

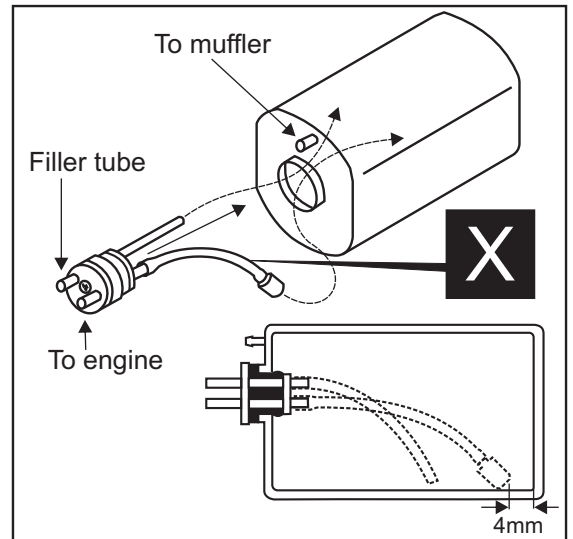
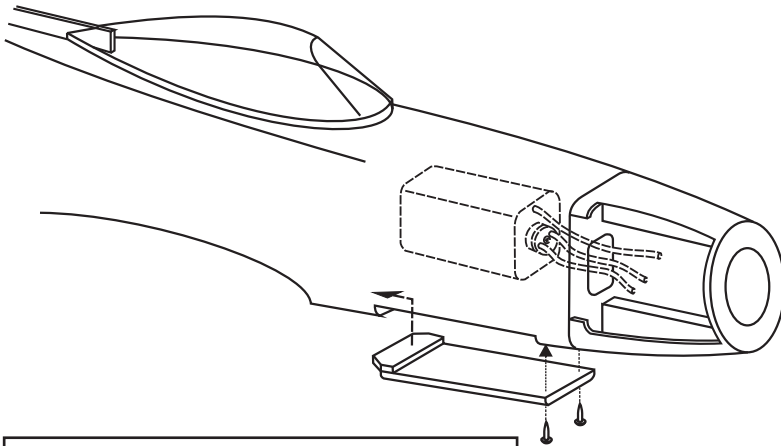


2

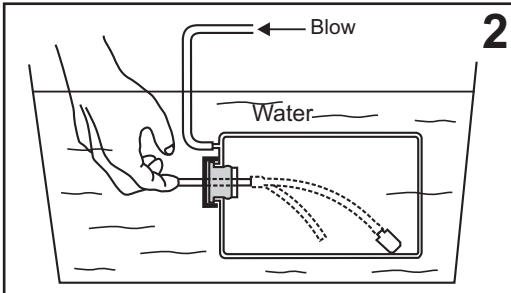


Glue the canopy on the cockpit floor do not use to much or it will make the canopy white residue.

10- Fuel tank



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



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

11- Engine

3X20mm screw

.....4

3mm washer

.....4

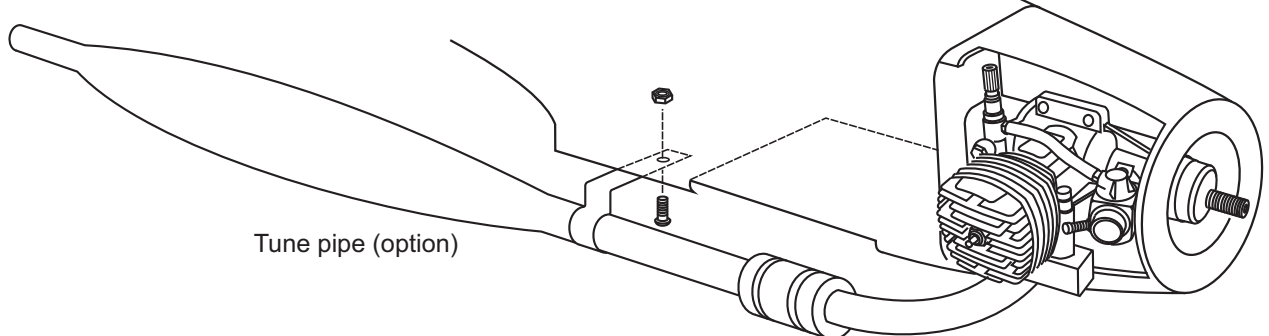
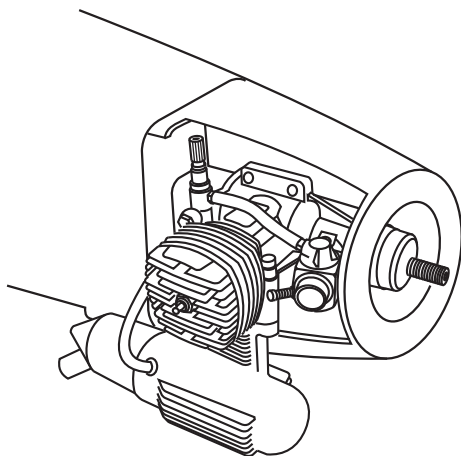
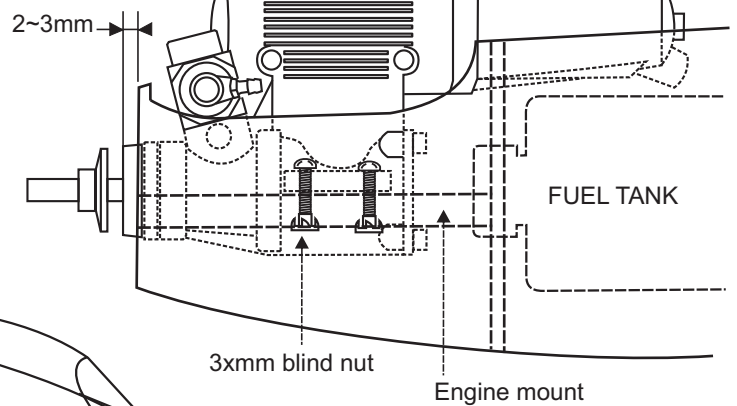
3mm blind nut

.....4




- 1- Position the engine on the engine mounts. Using a pencil or felt tipped pen, mark the engine mounting plate where the four holes are to be drilled.
- 2- Remove the engine and drill a 4mm hole through the engine mount at each of the four marks made in step 1.
- 3- Insert the four blind-nuts in to the bottom of engine mounts.
- 4- Reposition the engine on to the engine mounts and secure it in place with four 3x20mm screw.

SIDE-VIEW




12-Battery - receiver - servo

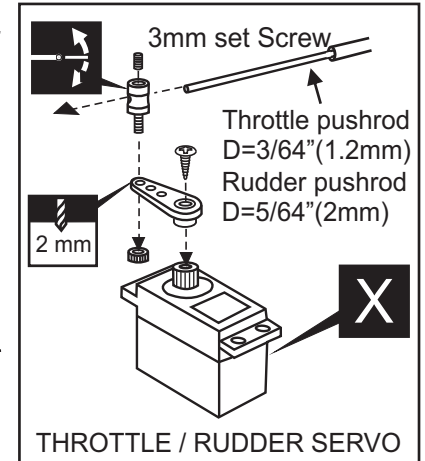
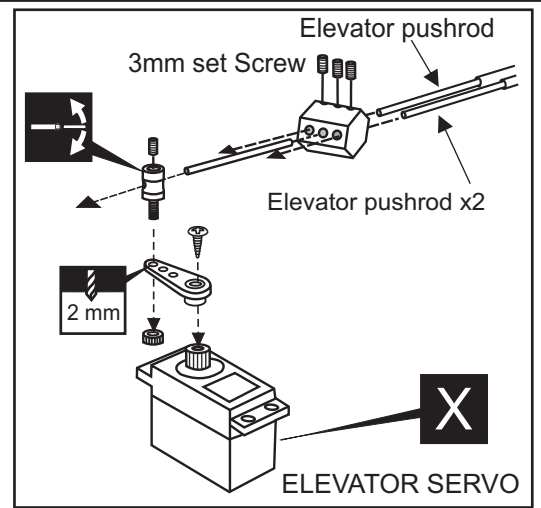
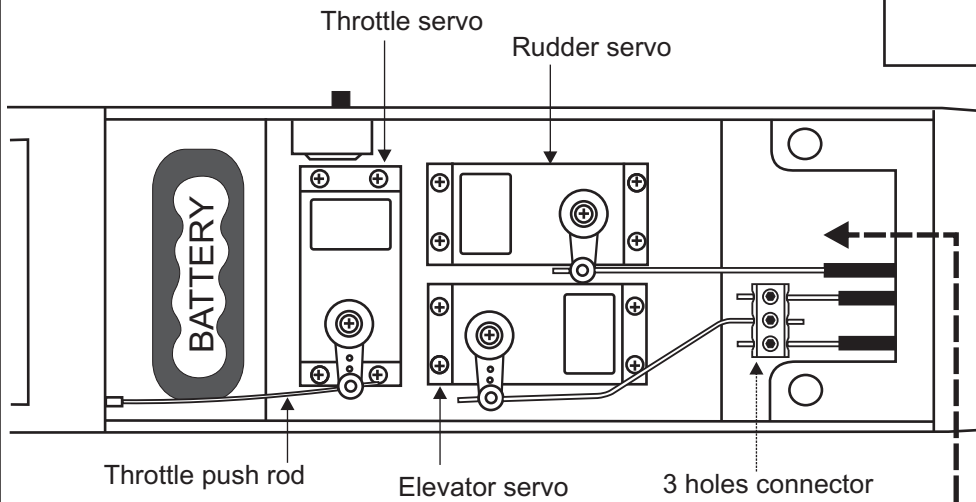
Linkage stopper

3

Connector

1

FUSELAGE - BOTTOM VIEW

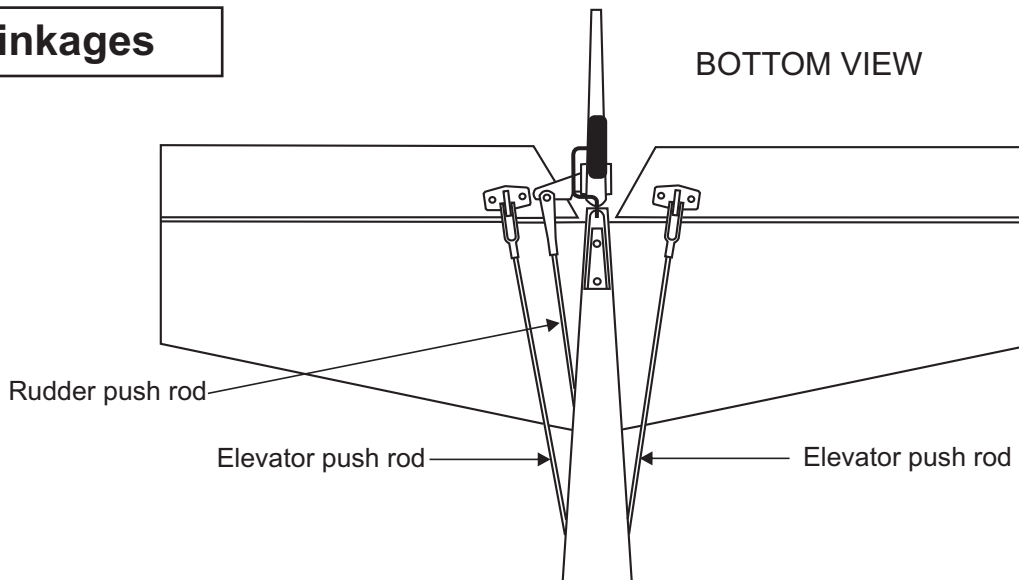


- 1- Shift the location of the receiver and battery pack as needed to obtain the specified CG.
- 2- Carefully install the receiver and battery pack to ensure that they will not shift during flight.



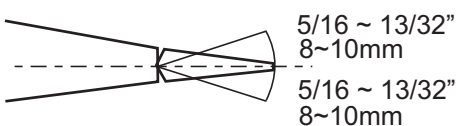
13- Linkages

BOTTOM VIEW

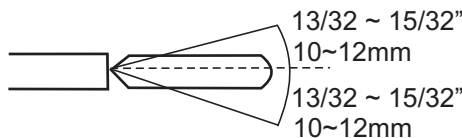


14- Control surface

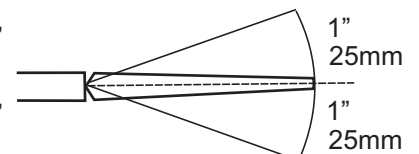
Adjust the travel of the control surfaces to achieve the values stated in the diagrams. These value will be suitable for average flight requirements. Adjust the values to suit your particular needs.



AILERON STROKE



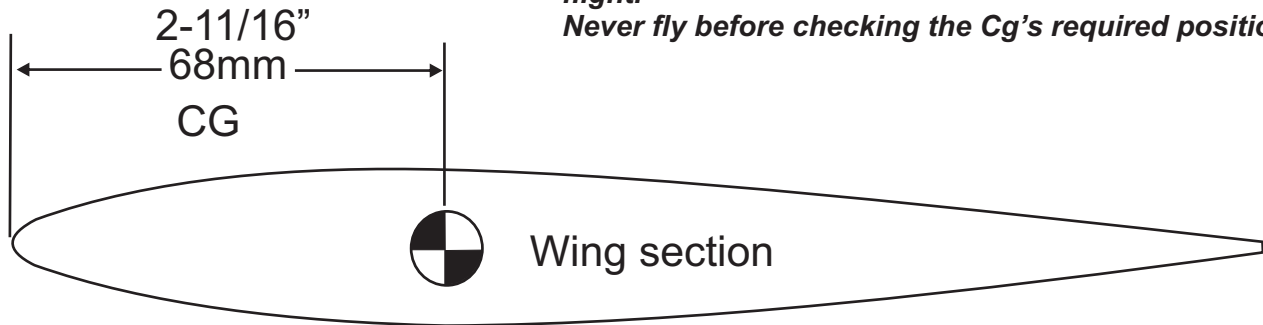
ELEVATOR STROKE



RUDDER STROKE

15- Control surface

**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.**



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.

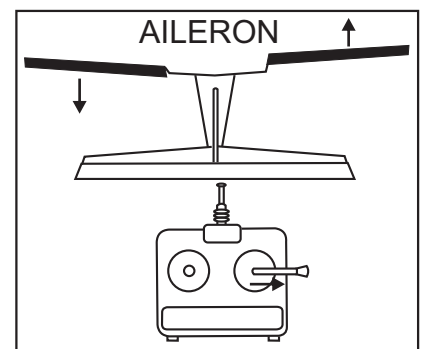
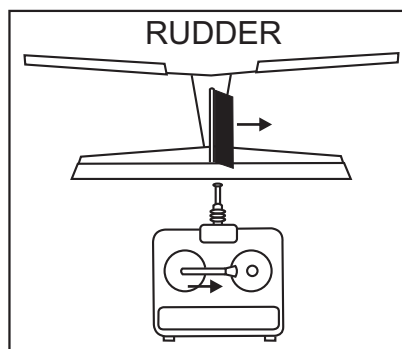
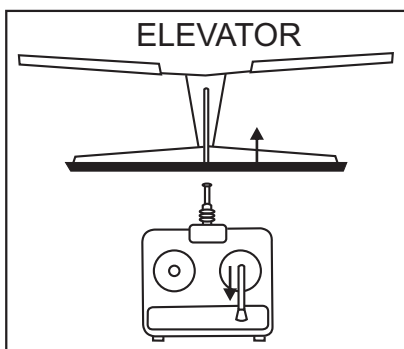
RANGE TEST YOUR RADIO

Fully extend the transmitter and receiver antenna.

Turn on the radio in your plane. With your plane on the ground, you should be able to walk 30 paces away from your plane and still have complete control of all functions. If not, do NOT attempt to fly.

Be sure that your batteries are fully charged per the instructions included with your radio

Check the operation and direction of the elevator, rudder, ailerons and throttle:



CAUTIONS FOR SAFETY

Ensure the airfield is spacious enough.

Ensure the spinner and propeller are securely attached. Immediately disuse defective propeller as well as deformed spinners.

Adjust the engine always from behind, but never from in front or the sides as rotating propeller may badly injure you.

Do not allow watching people to get too close to a rotating propeller.

Always take off and landing your airplane into the wind.

Switch off the transmitter and receiver after landing.

Do not fly your airplane above people standing around.

WARNING

Do not put in a large-than recommended engine. A bigger engine does not necessarily mean better performance.

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.