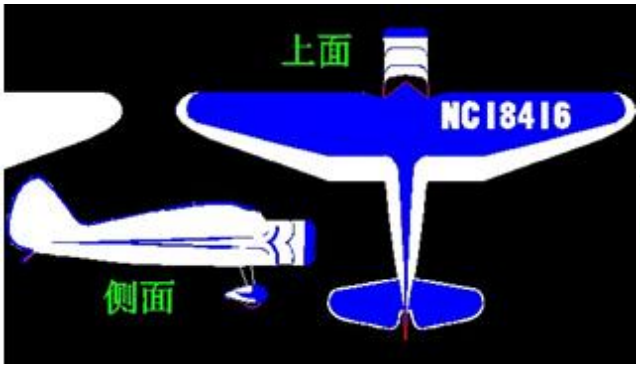
MONOCULP/SR 9

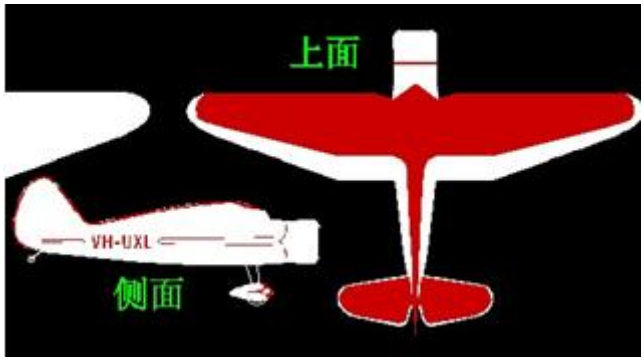
MANUAL

BR COLOR

BY COLOR



BW COLOR



RW COLOR

Fuselage parts

Rudder Horn

Cowling

M3X 16 6
Socket Screw
M3 Washer

Canopy

M2X8 30

M3X16 3
Self Tapping Screw

Tail Wheel Set

Landing Gear

M4X20 4
Socket Screw
M4 Washer
M4 Lock nut

M3X16 4
TP Screw

Hook & Loop Fastening Tape

380CC Fuel Tank

Throttle Servo Tray

2mm Linkage Stop 1

2X200mm Throttle PushRod

Main Wing parts

M6X22 Nylon Screw 2

Carbon Wing Tube 17x19x780mm

Ball Link-L

3X65mm Push Rod

Control Linkage

Elevator parts

M3X16 Screw 4

M3 Washer 4

Carbon Stab Tube 6x8x270mm

Ball Link-S

3X140 mm Push Rod

Control Linkage

Rudder parts

Dia.0.6mm
Wire
1200mmx2

Cable Copper Fixer 8

Ø2mm

M3 4
Pull-Pull
Coupler

Ball Link-S

Control Linkage

M2X8 20

Caution!

You should not regard this plane as a toy!

To ensure safety, please read this instruction manual thoroughly before assembly.

Building and operating a model plane requires diligent practice and correct guidance. An inexperienced flyer can cause serious injury and property damage.

Seek the assistance of an experienced RC pilot or model airplane club for help with assembly, operation and maintenance to ensure your flying experience is both enjoyable and safe.

Fly only in AMA (Academy of Model Aeronautics) approved areas. Approved areas or areas approved by the Model Association of your country.

Main Landing Gear Installation and Tail wheel Set

Drill a hole and make it fit the steering tube. (Do not glue it into position untill the tail wheel installation step is completed.)

Assembly photo for the tail wheel parts.

Use the tail wheel bracket as a template and drill holes for the mounting bolts.

Install the blind nuts through the openning in the rear of the fuselage.

Attach the tail wheel bracket and secure the bolts with Blue Loctite.

Insert the steering arm into the rudder steering tube and position the tube ready for gluing. Tighten the set nuts.

Epoxy the steering tube in place as shown.





Main Landing Gear Installation

Install the landing gear in the pre-drilled holes with the supplied bolts and locking nuts. Secure the bolts with Blue Loctite.

Insert the landing gear into the covers before you install the landing gear axles.

Install the landing gear axles with lock nuts but do not tighten yet.

Install the wheel and tighten the collar set screw using a drop of Blue Loctite. Make sure the wheel rotates freely.

Slipping the wheel pant over the axles and mark the position for the two attached bolts.

Drill the holes for the attached bolts and install the blind nuts as shown.

Mount the wheel pants andsecure the bolts with a drop ofBlue Loctite.








Doors and Stairs

Find out below parts for this step.

Findout the holes inside of the fuselage for the locks of the door.

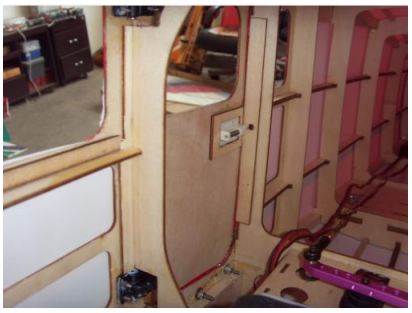
Stick the locks onto the door in the right position.

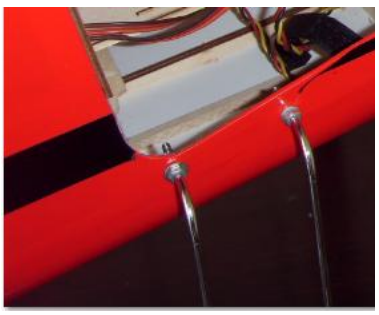
Find out the holes inside of the fuselage for the hinges of the door.

Fix it up with self-taps as shown.

Install the stairs into the fuselage with screws as shown.

Repeat it the same on the other side of the fuselage.





Rudder Installation

Drill holes for the mounting screws. Fit the servos as shown with the servo label facing the rudder. Harden the area around the holes with a drop of thin CA

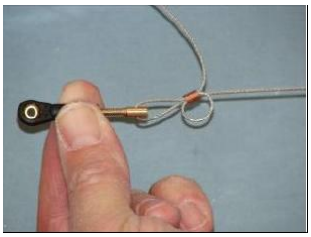
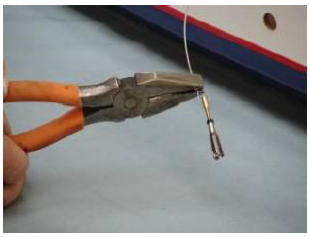
Use brass crimps on eachcable and thread, the cablethrough the end of thepull-pull connector.

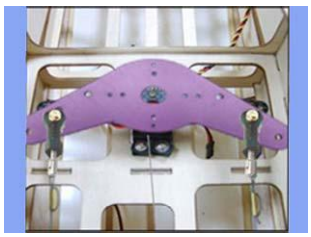
Crimp the brass tube with acrimping tool or pliers

A drop of thin CA may be applied to the brass tube to help secure the cable

Install the rudder ball linkswith bolts and locking nuts.

Check the pull-pull cables. Rudder and the rudder servo should both be in the neutral position.



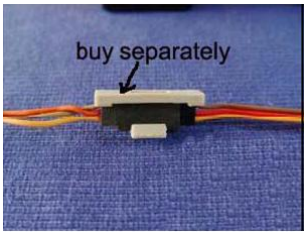

Stabilizer Installation

Use the safety clips (buyseparately) to secure theservo and servo extension.

Install servos as shown with the servo label facing the rear of the fuselage.

Install the stab with mounting bolts and washers. Assemble the servo arm in the vertical position as shown. Adjust the pushrod length so that the servo and elevator are both in the neutral position.

Repeat the previous steps for the other wing. Install the stabilizer tube and bolts.



Engine Installation

Use a drill to drill screw holes for engine Installation.

The holes position for 3W & DL have been laser scribed on the firewall.

Insert the bolts through flat fender washers, the firewall and into the engine stand offs. Tighten firmly. Secure mounting bolt nuts with Blue Loctite.

Use a bit to drill a pushrod exit hole on the firewall in line with the engine carburetor throttle arm.

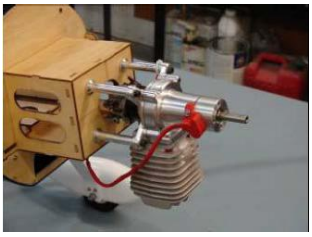
Attach the ball link to the throttle pushrod and secure to the carburetor throttle arm with a bolt and nylon lock nut.

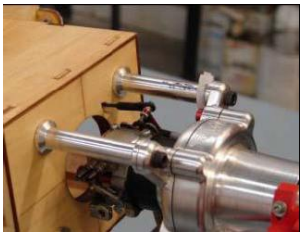
Insert the throttle servo into the servo mounting tray with an output arm forward. Insert the throttle pushrod into the servo arm easy link.

Mark a line for the throttle servo tray, then glue it to the fuselage.

Use a drill to drill the servo mounting holes. Install the servo with servo screws.

Insert the throttle pushrod into the servo easy link. Move the servo arm to the center position. So that carburetor is half open. Tighten the easy link set screw.



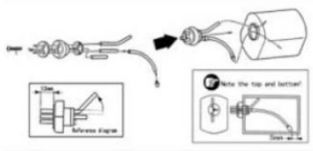
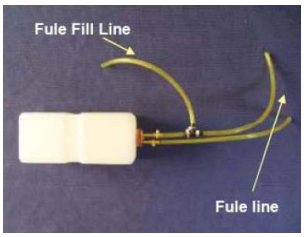


Fuel Tank

Install the inside parts of fueltank as shown.

Assemble the outside fuelpipe as shown.

Tighten the velcro ties secure the fuel tank.

LED light

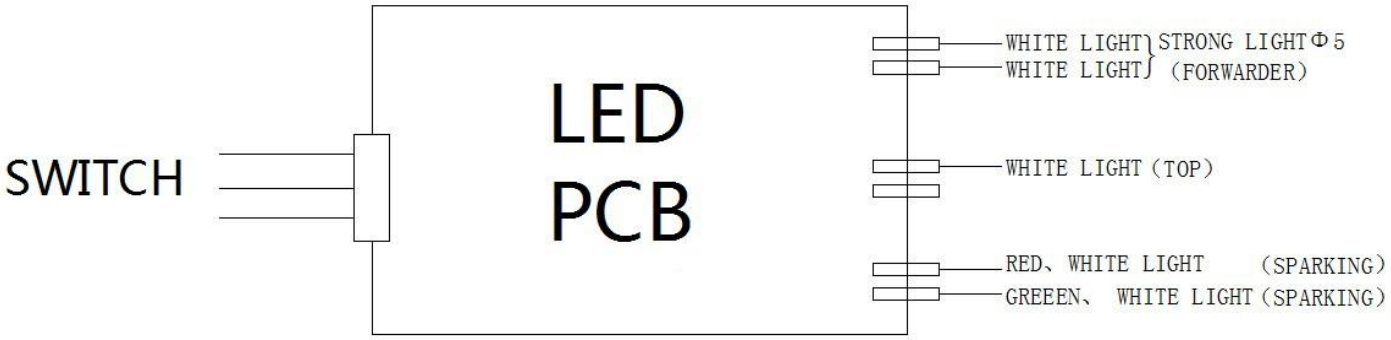
Find out the LED light system.

Insert the LED light into the tubes as shown.

Find out the holes for the LED light in the wings, both the wing tips and the middle of the wings.

The voltage for the light is 6V.

Insert the LED light wire into the tubes for the wire specially.



Main Wing Assembly

Remove the covering from the servo position as shown.

Remove the covering from the servo position as shown.

Put the servo into the servo hole, and mark the position for the screws to secure the servo in place. Pull the extension lead through to the root of the wing.

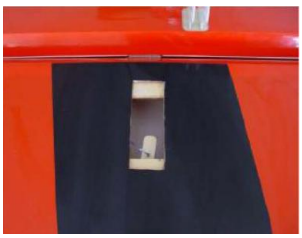
Drill holes for the servomounting screws and harden the wood aroundthe holes with a drop ofthin CA.

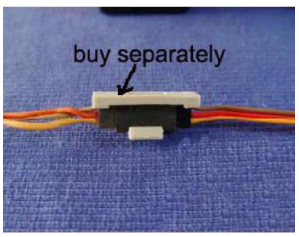
Install servo arm facing toward the wing tip and adjust pushrod length to ensure the aileron and servo are in the neutral position.

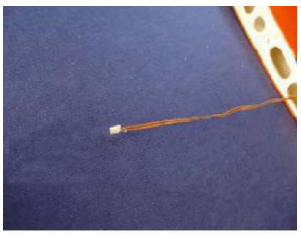
Repeat the previous steps for the other wing.

Please install the wing tube and wing bolts in the final assembly.

Connect the two wings with carbon fiber tube and four nylon screw supplied.







Wing Support

Find out 4 pcs wing support cover and 2 pcs of wing support.

Insert the wing support into the support cover.

Screw the wing support onto the wing and the fuselage.

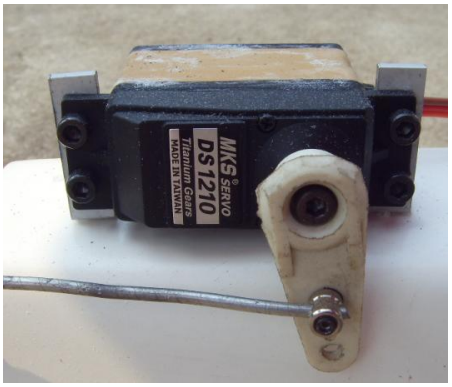
Stick or screw the wing support cover with glue or screws.

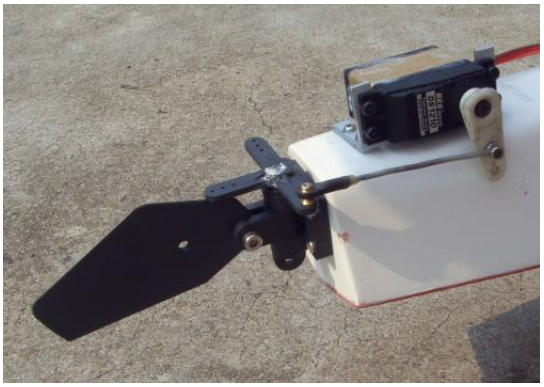
Install the props and the scale spinner.

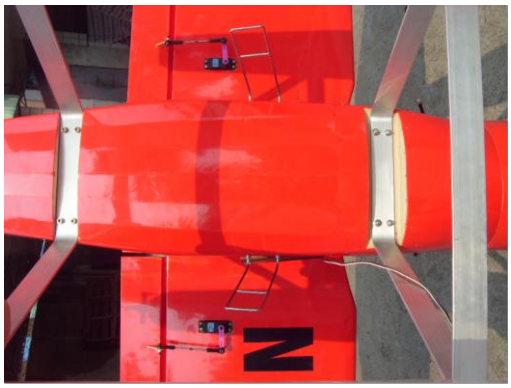


Float Installation

(Buy separately. If you want this part, please contact with your local distributor.)



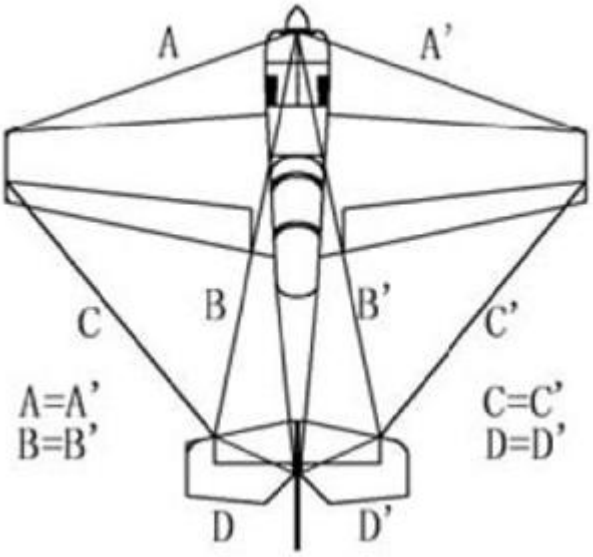


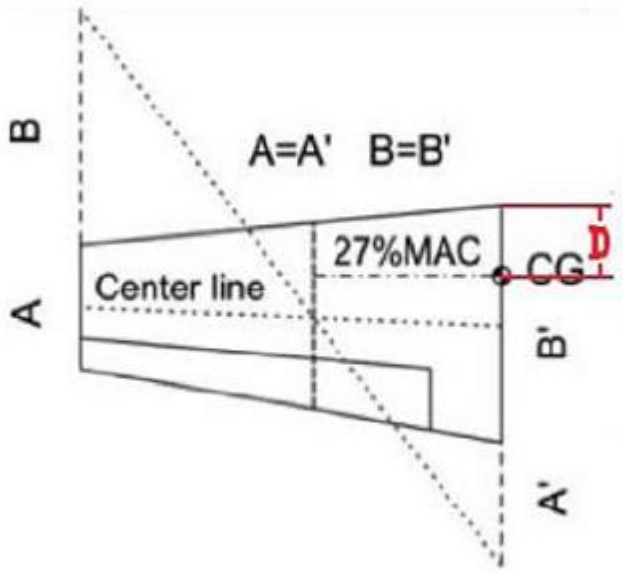


Center of Gravity

The center of gravity is on the rear of the wing tube.

Your balance at the CG will determine the fin al mounting location for batteries. Mount batteries and secure with Nylon zip ties.





Measuer the CG from the leading edge of wing root rib. Adiust the battery pack location. For CG proper position should be at 27% MAC. This recommendation balance point is for your first flights. The CG can be moved around later to fit your personal taste.

D = 50mm

Power on to trim your plane.

1. Range check the radio (test whether the Engine/Motor is running or not).
2. Ensure that the serveos and control surfaces move smoothly and in the correct direction.
3. Adjust the servo throw. The chart below is the recommended throws for the first flight. You can adjust the servo arms and control horn length later to fit yout flying style.

Control Throw:

	Surface	Throws	Exp
Common flying	Ailcron	20 degrees	25%
	Elevator	20 degrees	25%
	Rudder	30 degrees	30%

3 D flying	Aileron	40 degrees	45%
	Elevator	40 degrees	45%
	Rudder	45 degrees	45%

Trail run the Engine to check its stability at high speed and low speed to ensure there are no problems with vibration on the model. Run the motor at high speed about 30 min,check the Engine and make sure the temperature is bleow the prescription of manufacturer.Once everything is right.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