

Before start, please carefully read the explanations!

INSTRUCTION MANUAL

P51 - 120

RADIO CONTROL ENGINE POWER SCALE PLANE



Specification:

Length	: 1450mm (57")
Wing Span	: 1750mm (69")
Airfoil	: Semi-Symmetrical , 18%
Wing Area	: 42dm.sq
Flying Weight	: 4kg (158 oz.)
Wing Loading	: 100 g / dm.sq
Radio	: 4-7 channels , 7 servos
Engine	: 90-2 cycle 120-4 cycle



SAFETY PRECAUTIONS

This radio control model is not a toy!

First-time builders should seek advice from people having building experience in order to assemble the model correctly and to produce its performance to full extent.

Assemble this kit only in places out of children's reach!

Take enough safety precautions prior to operating this model.

You are responsible for this model's assembly and safe operation!

Always keep this instruction manual ready at hand for quick reference, even after completing the assembly.

MADE IN CHINA

REQUIRED FOR OPERATION (Purchase separately!)



CAUTION: For details concerning the equipment listed below (size, maker, etc.), check with your hobby shop.

1

A minimum 4 channel radio for airplanes (with 4 servos), and dry batteries.



CAUTION: Only use a minimum 4 channel radio for airplanes! (No other radio may be used!)
6 channel radio for airplane is highly recommend for this model.

12 AA-size Batteries



A minimum 4 channel transmitter for airplanes.



For handling the radio properly, refer to its instruction manual.

2

Engine and Muffler

Model Airplane Engine 4-cycle .52-70

Muffler



Glow Plug

3

Propeller Spinner



58 mm spinner

Purchase a propeller that will match your engine.



12 X 6

4

Sponge Sheet



Silicone Tube



Fuel Filter



5

Required for engine starting:

Glow engine fuel only.



WARNING: Normal gasoline cannot be used with glow engines.



Fuel Pump



Booster Cord



4 D-size Batteries



Plug Wrench



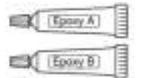
6

Glue

Instant Glue



Epoxy Glue



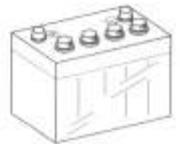
7

Other equipment for enhancing airplane operation & performance

Engine Starter



12V Battery (for starter)



TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



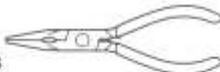
Phillips Screw Driver (l, m, s)



Awl



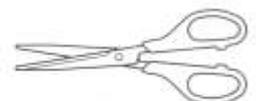
Needle Nose Pliers



Wire Cutters



Scissors



BEFORE YOU BEGIN

1

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

2

Check all parts. If you find any defective or missing parts, contact your local dealer or AMD directly.

3

Symbols used throughout this instruction manual, comprise:



Apply epoxy glue.



Drill holes with the specified diameter (2mm).



Cut off excess.



Pay close attention here!



Assemble left and right sides the same way.



Apply instant glue (CA glue, super glue).



Cut off shade portion.



Ensure smooth non-binding movement while assembling.



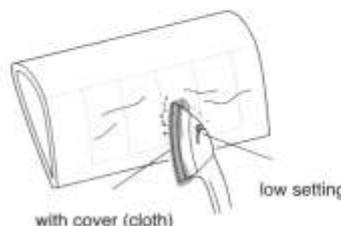
Must be purchased separately!

Do not overlook this Symbol!



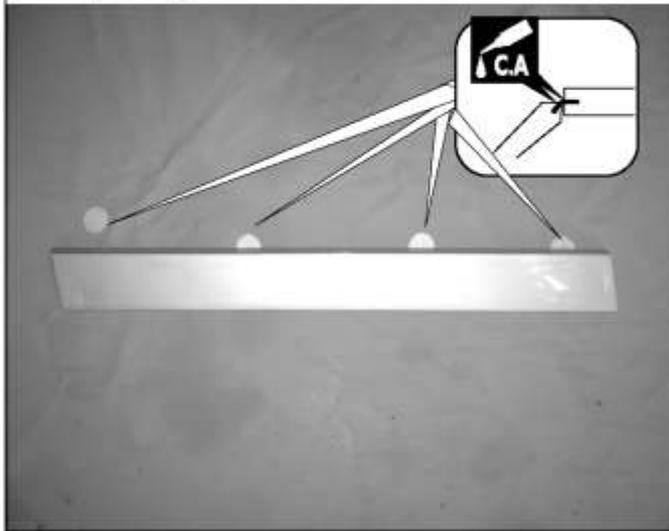
Warning!

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

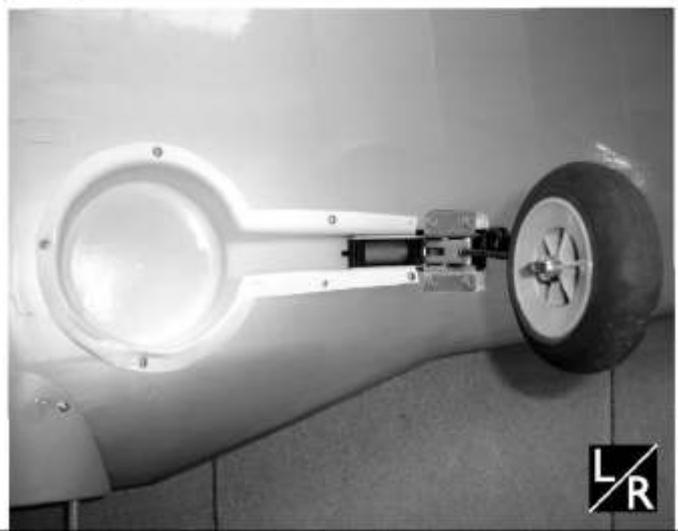


► Use an iron covered with a cloth! Start at low setting. Increase the setting if necessary. If it is too high, you may damage the film.

1 Glue the point hinge with epoxy. Be careful not to bind the hinges.



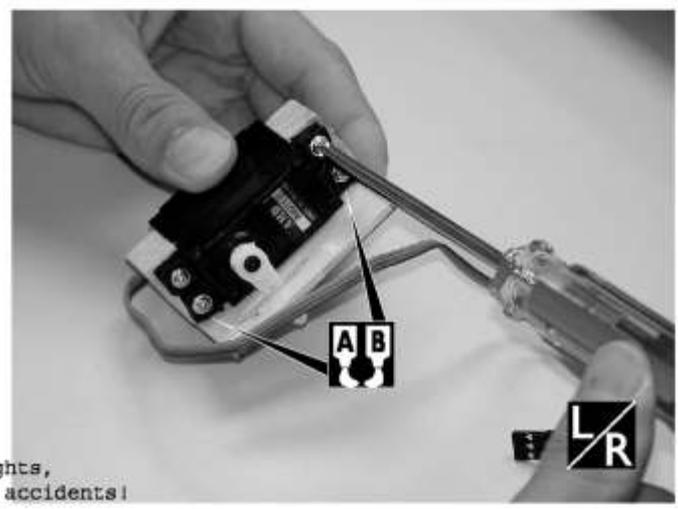
4 Install the retract landing gear and connect the air tube.



2 Be sure to apply instant type CA glue to both sides of each hinges.

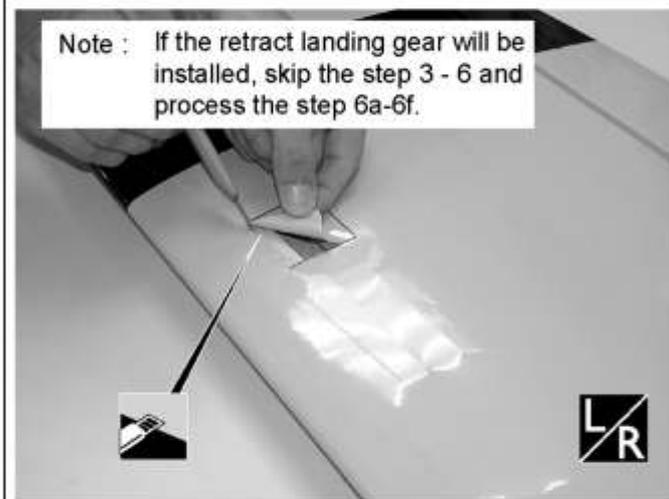


5 Epoxy the servo support and install the aileron servo.



3 Cut away the film on the position for the landing gear.

Note : If the retract landing gear will be installed, skip the step 3 - 6 and process the step 6a-6f.



6 Insert the servo extension wire through the foam. Connect the extension wire to servo.



AB Apply epoxy glue.

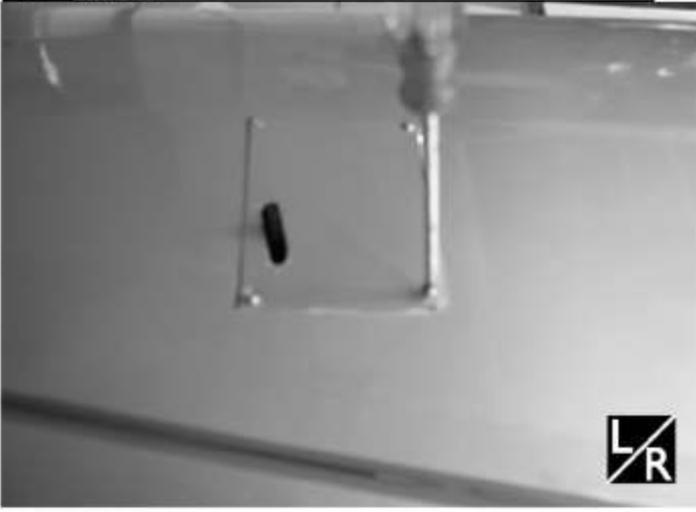
LR Assemble left and right the same way. **F** Pay close attention here!

CA Apply instant glue (CA glue, super glue). **→** Ensure smooth non-binding movement while assembling. **☐** Cut off shaded portion.

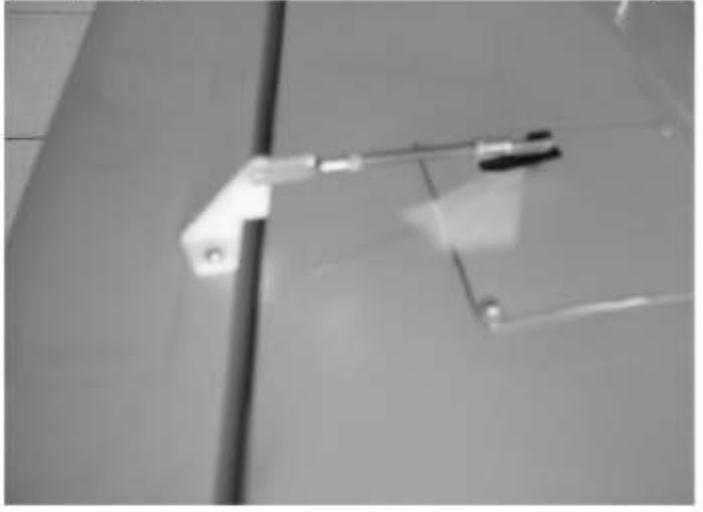
Do not overlook this symbol!



7 Epoxy the servo support and install the aileron servo.



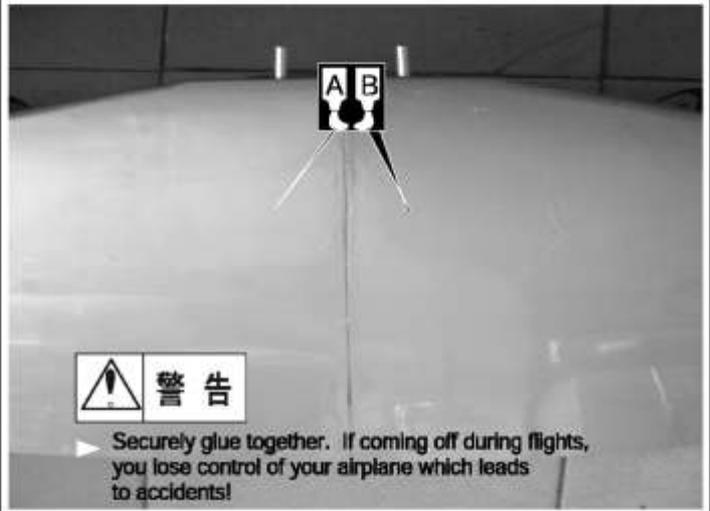
10 Cut the silicon tube for 2mm width and insert into the nylon connector.



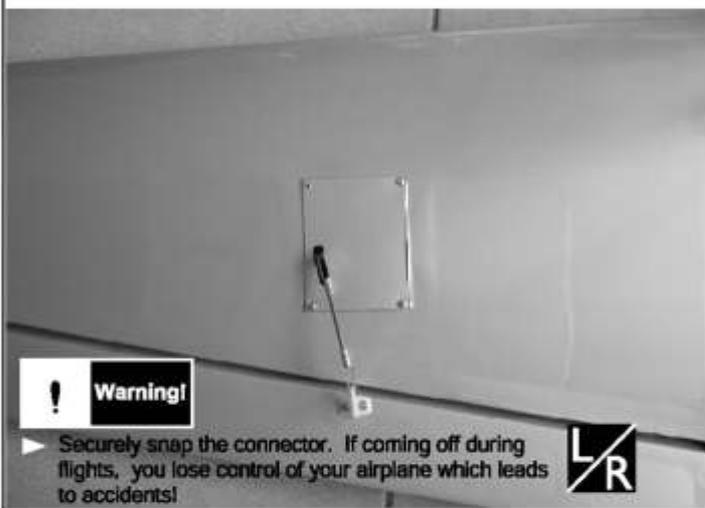
8 Install the nylon control horn and connect the linkage.



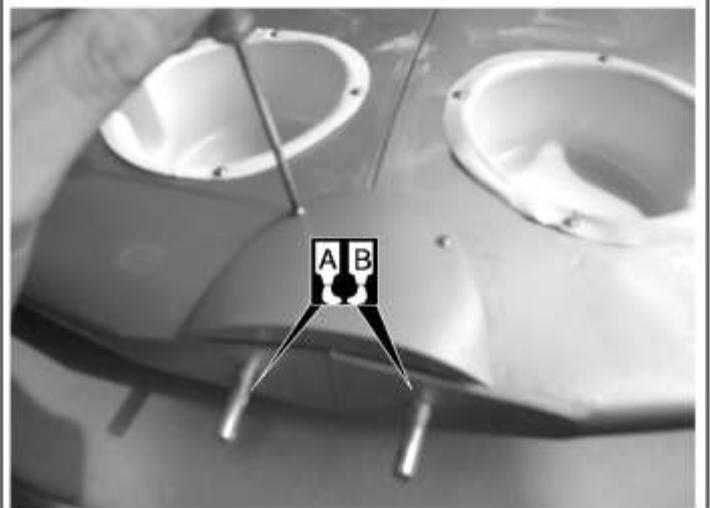
11 Apply 30 mins epoxy to join the wing.



9 Cut the silicon tube for 2mm width and insert into the nylon connector.



12 Epoxy the dowel in the leading edge install the aileron servo.



AB Apply epoxy glue.

LR Assemble left and right sides the same way.

⚠ Pay close attention here!

Do not overlook this symbol!

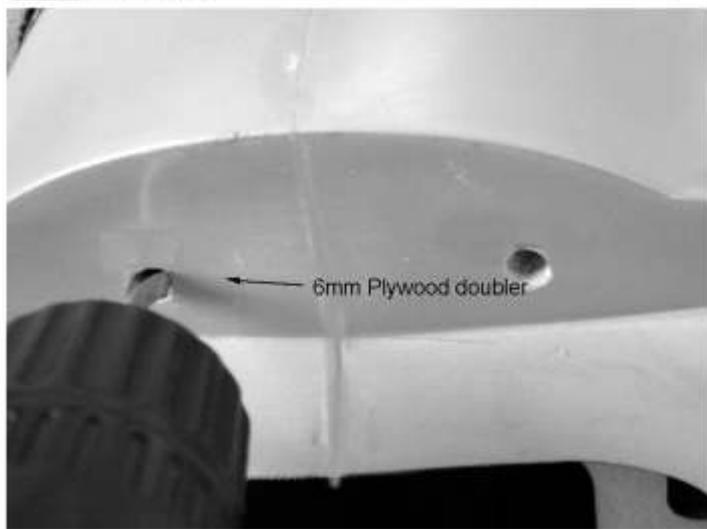
CA Apply instant glue (CA glue, super glue).

↔ Ensure smooth non-binding movement while assembling.

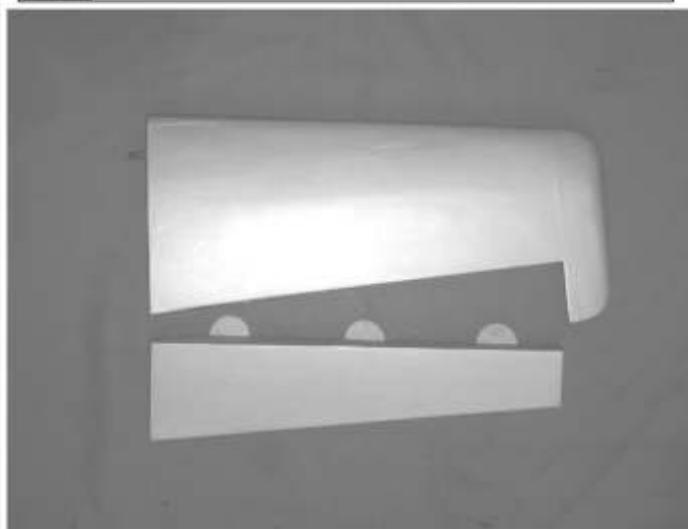
☐ Cut off shaded portion.

⚠ 警告
Warning!

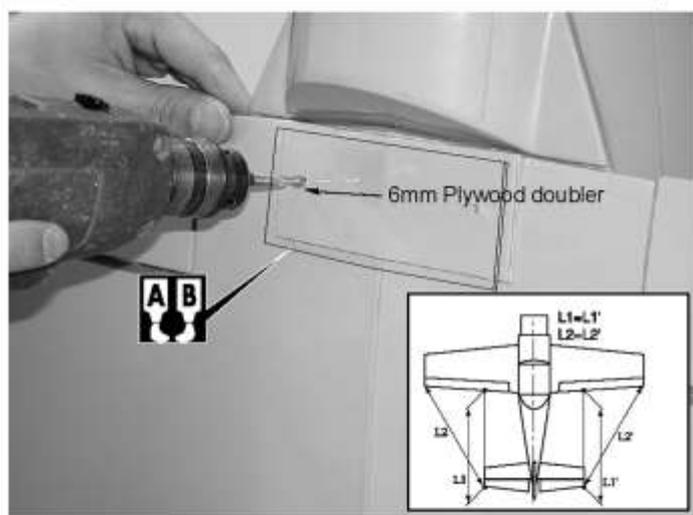
13 Mark the dowel position and drill the hole on fuselage.



16 Add epoxy in the hinges.



14 Screw in the nylon screw and mark the position on the wing panel and then drill the hole.



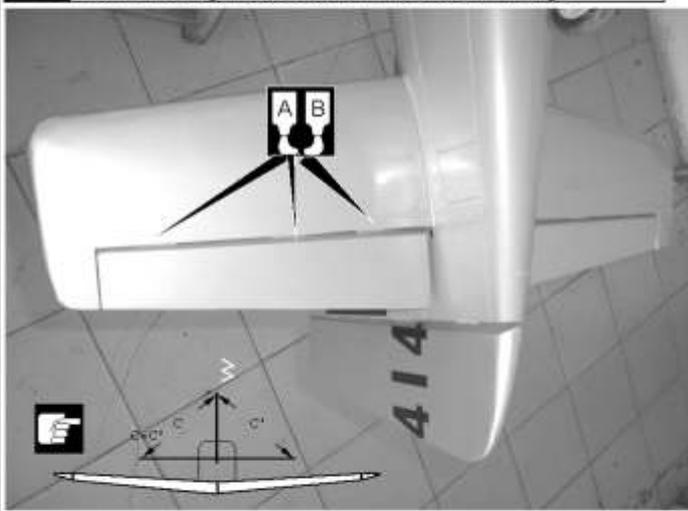
17 Mark sure the actuator in lever.



15 Fix the belly pan by typer screw. Drill the hole for the wing bolt.



18 Install the hinge with epoxy. Ensure smooth non-binding movement while assembling.



Apply epoxy glue.



Assemble left and right the same way.



Pay close attention here!



Apply instant glue (CA glue, super glue).



Ensure smooth non-binding movement while assembling.



Cut off shaded portion.

Do not overlook this symbol



19 Install the hinge with epoxy. Ensure smooth non-binding movement while assembling.



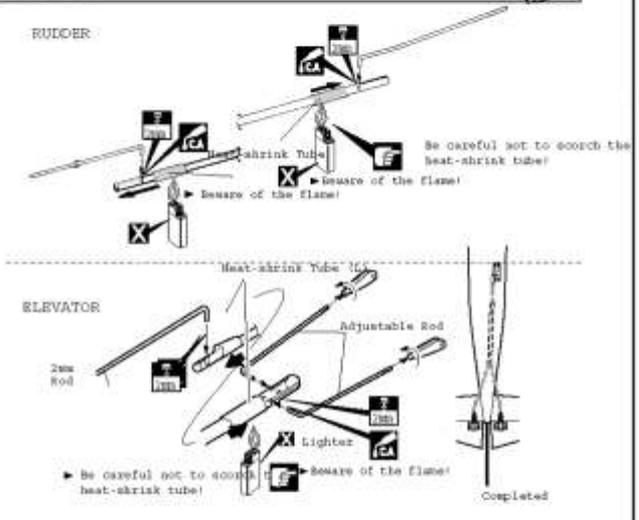
22 Mount the fuel tank with rubber band.



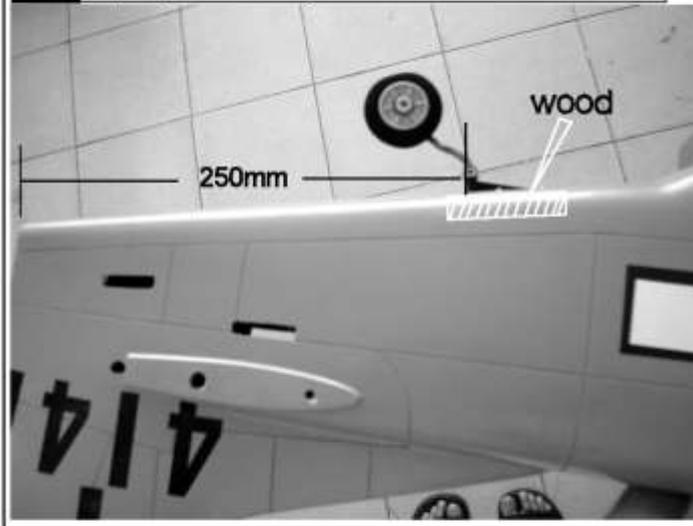
20 The wheel holder tire with screw.



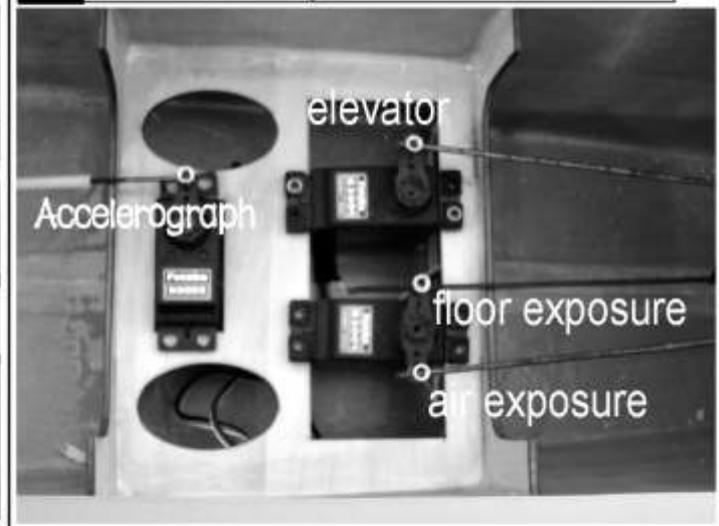
23 Assemble the linkage rods for elevator and rudder.



21 Apply CA to the hinge for installing the rudder. Epoxy the steering wire.



24 Install the servos and the valve of retract. Connect the linkage rods and air tube.



Apply epoxy glue.

Assemble left and right the same way. Pay close attention here!

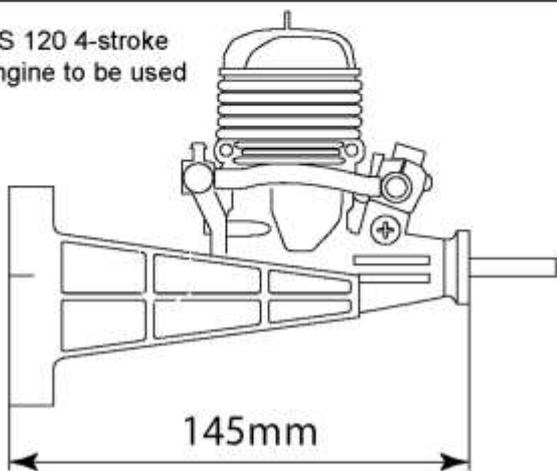
Apply instant glue (CA glue, super glue).

Ensure smooth non-binding movement while assembling. Cut off shaded portion.

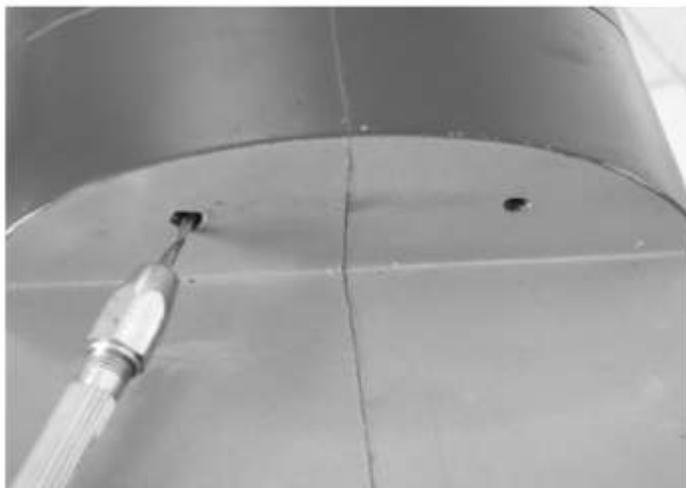
Do not overlook this symbol. 警告 Warning

25 Measure the distance from the firewall.

OS 120 4-stroke engine to be used



28 canopy support drill 3mm hole.



26 Install the engine through to the firewall.



29 canopy back screw hole.



27 Install the engine to the engine mount.



30 Install the canopy.



Apply epoxy glue.



Assemble left and right the same way.



Pay close attention here!



Apply instant glue (CA glue, super glue).



Ensure smooth non-binding movement while assembling.



Cut off shaded portion.

Do not overlook this symbol!



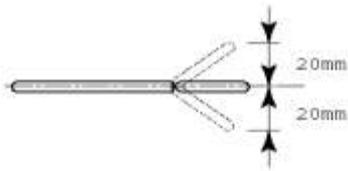
警告
Warning

31 Adjustment



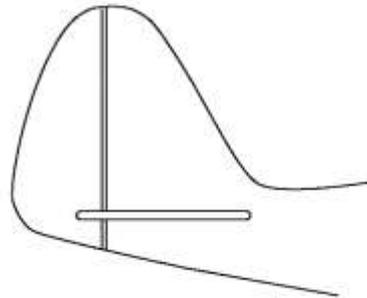
Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.

Top View



RUDDER

Side View

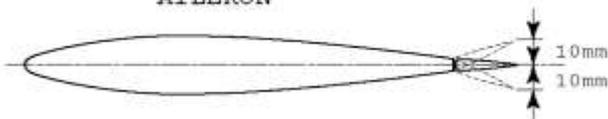


32 Adjustment



Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.

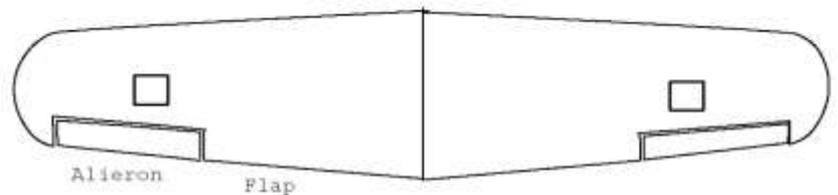
AILERON



FLAP (Optional)



Side View



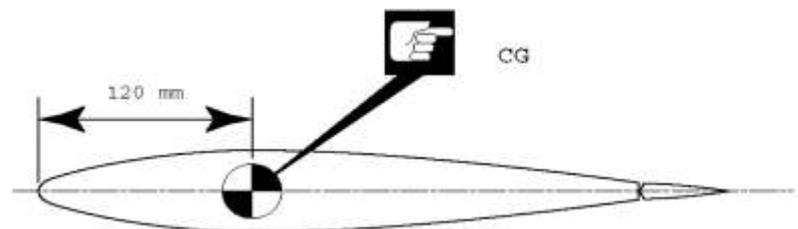
Top View

33 Centre of Gravity



Never fly before checking the CG's required position.

In order to obtain the CG specified, reposition the receiver and battery.



警告
Warning

NEVER fly the model without well balancing.



Pay close attention here!