

Before start ,please carefully read the explanations!

JU-87



Specification:

Length	:1530 mm(60.2")
Wing Span	:2000 mm(78.7")
Wing Area	:63.96 sq. dm 6.88 sq. ft
Wing Loading	:86 g/sq. dm 28.2 oz/sq. ft
Flying Weight	:5.5 kg(12.1 lbs)
Radio	:6ch&8 servos
Engine	:108 2-cycle 120 4-cycle

INSTRUCTION MANUAL



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 a 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.

REQUIRED FOR OPERATION (Purchase separately!)



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

1 A minimum 6 channel radio for airplanes (with 8 servos), and dry batteries.



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

12 AA-size Batteries



A minimum 6 channel transmitter for airplanes.

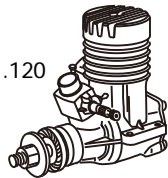


For handling the radio properly, refer to its instruction manual.

2 Engine and Muffler

Model Airplane Engine 4-cycle .120

Muffler



Glow Plug



3 Propeller Spinner

Purchase a propeller that will match your engine.



4 in Spinner



15"X7

4

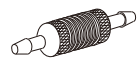
Sponge Sheet



Silicone Tube



Fuel Filter



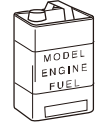
5

Required for engine starting:

Glow engine fuel only.



WARNING: Normal gasoline cannot be used with glow engines.



Fuel Pump



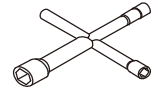
Booster Cord



4 D-size Batteries



Plug Wrench



6

Glue Instant Glue



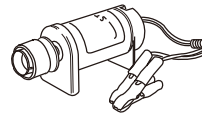
Epoxy Glue



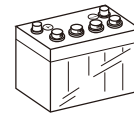
7

Other equipment for enhancing airplane operation & performance

Engine Starter



12V Battery (for starter)



9

Optional parts: rubber wheel with metal hub.

TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



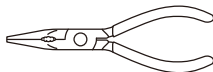
Phillips Screw Driver (l, m, s)



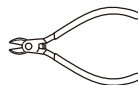
Awl



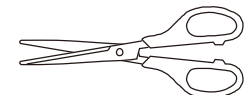
Needle Nose Pliers



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.

3

Symbols used throughout this instruction manual, comprise:

Do not overlook this Symbol!



Warning!



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!



Accessory list for this page.

	Horn	2		Servo tray	2
	Plate	2		Wooden Block	2
	Clevis	2		Pin hinge	8
	Retainer	2		TP Screw (2.3x12mm)	8
	Rod (2x300mm)	2		TP Screw (2.3x12mm)	16
	Screw (2x35mm)	4			

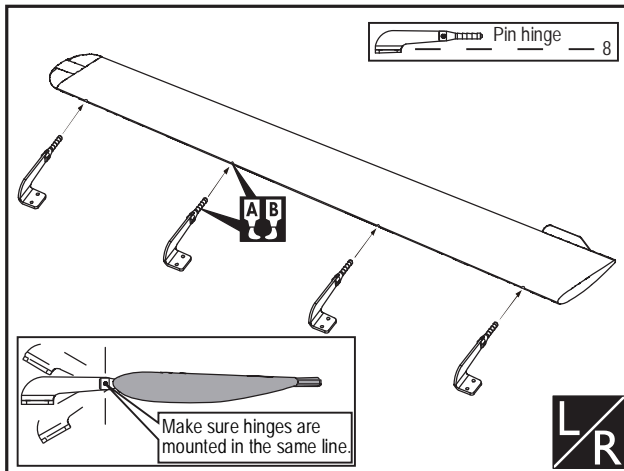
3

Install the servo.



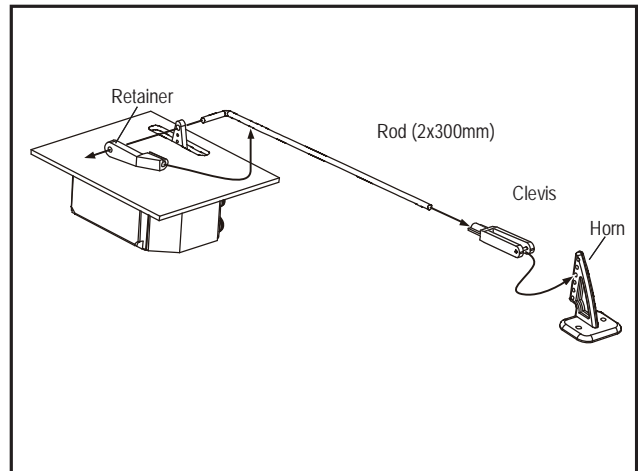
1

Epoxy pin hinges to aileron steadily.



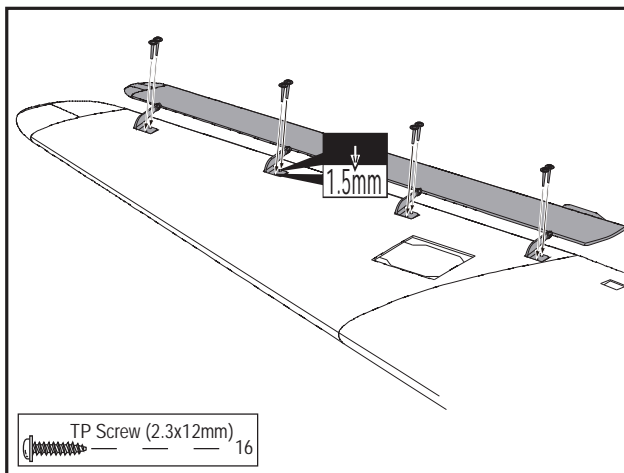
4

Install the nylon control horn and connect the linkage.



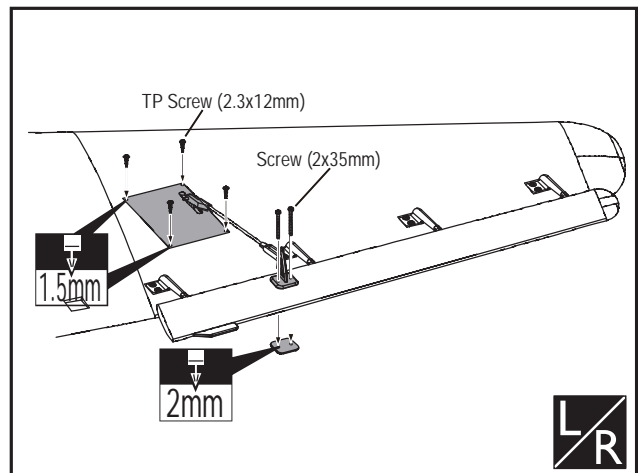
2

Mount aileron hinges on the wing.



5

Secure the servo. Install the nylon control horn and connect the linkage.



Apply epoxy glue.



Assemble left and right sides 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!



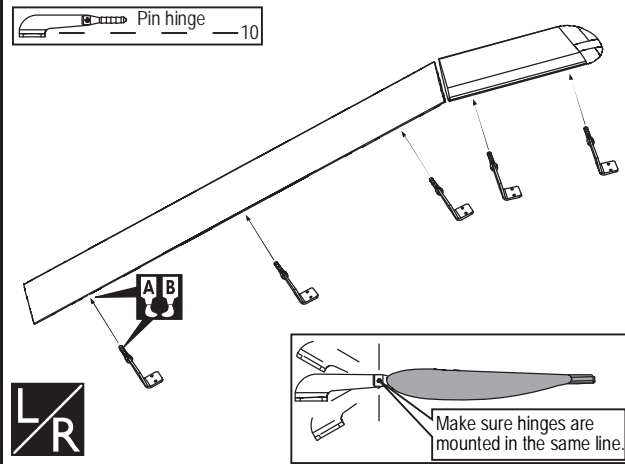


Accessory list for this page.

-  Main wing joiner 2
-  Pin hinge 10
-  TP Screw (2.3x12mm) 20
-  Steel wire (1.5x200mm) 2

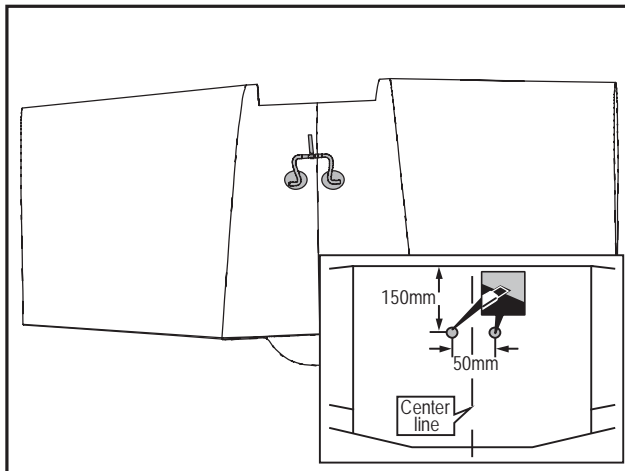
8

Epoxy pin hinges to flap.



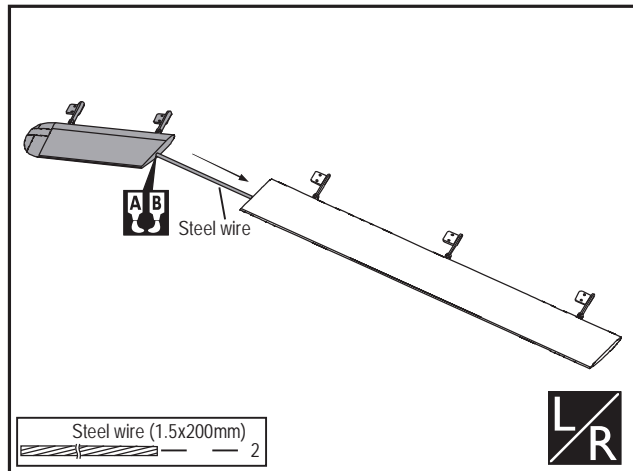
6

Pull out servo extension line from exit.



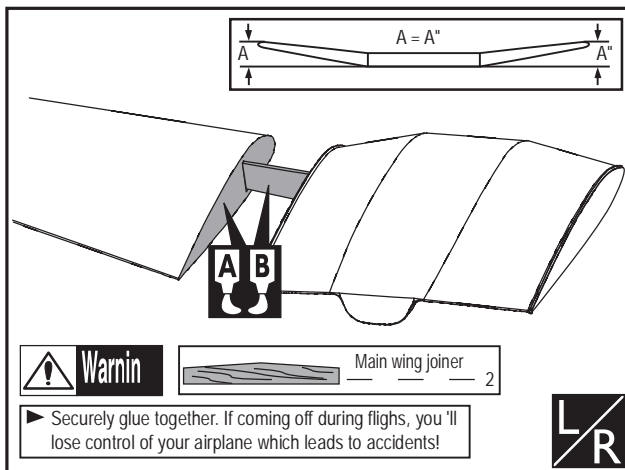
9

Insert steel wire to inner and outer flaps for connection



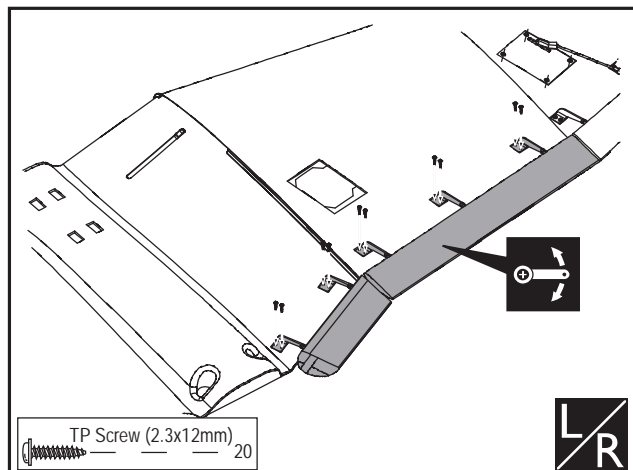
7

Epoxy three main wing panels together.



10

Mount flap hinges on the wing.



Apply epoxy glue.



Assemble left and right sides 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!



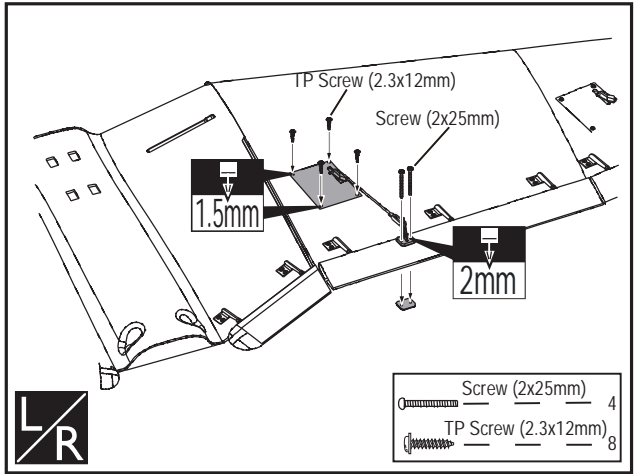


Accessory list for this page.

	Servo tray	2
	Wooden Block	2
	Horn	2
	Plate	2
	Clevis	2
	Retainer	2
	Rod (2x300mm)	2
	TP Screw (2.3x12mm)	8
	Screw (2x25mm)	4
	Landing gear	1
	TP Screw (2.6x14mm)	8
	Landing gear straps	4

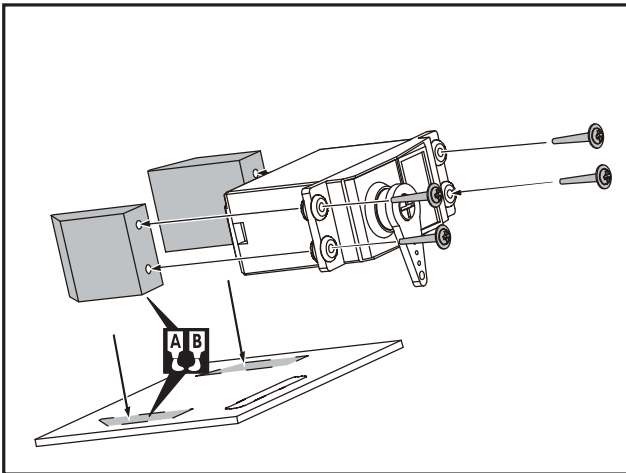
13

Secure the flap servo. Install the nylon control horn and connect the linkage.



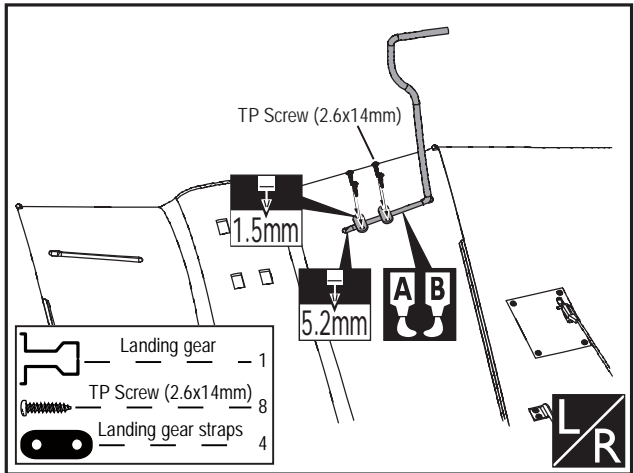
11

Install the servo.



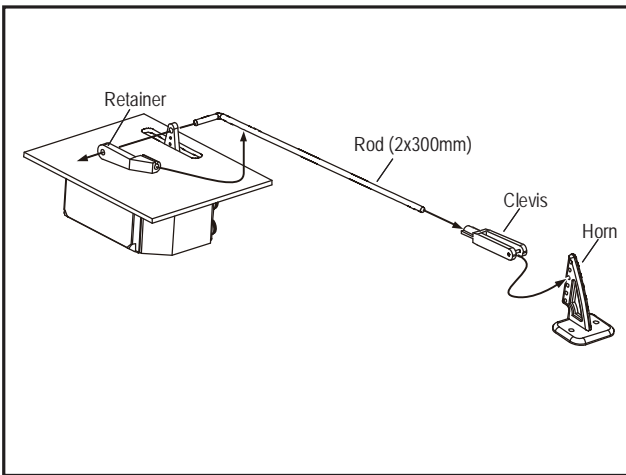
14

Mount landing gear on the underside of wing.



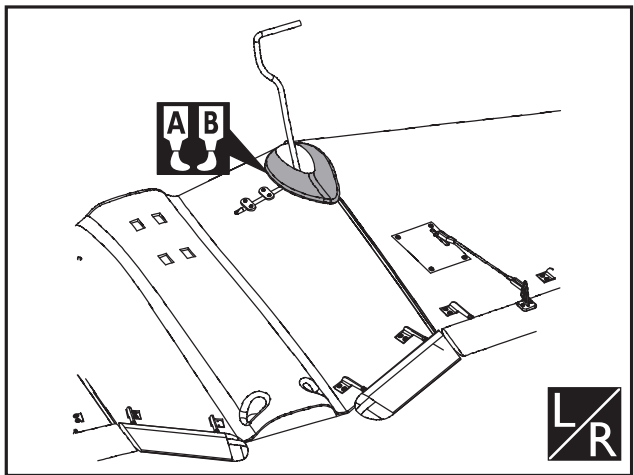
12

Install the nylon control horn and connect the linkage.



15

Epoxy the plastic part.



Apply epoxy glue.



Assemble left and right sides 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!



Warning!

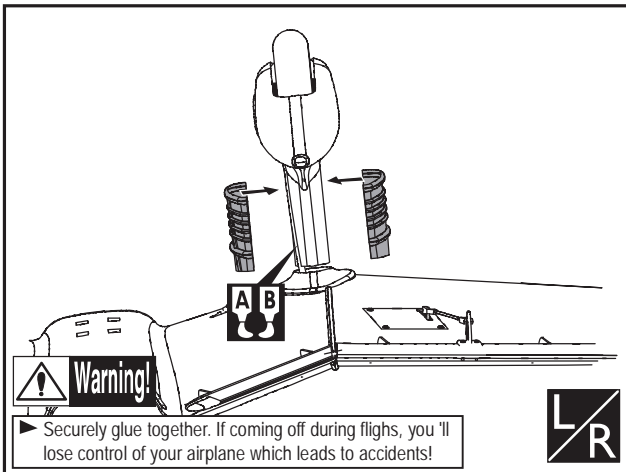


Accessory list for this page.

-  PVC part — 4
-  PVC part — 2
-  Wheel (100mm) — 2
-  Collar (5mm) — 4
-  TP Screw (2.6x14mm) — 8
-  Landing gear straps — 4

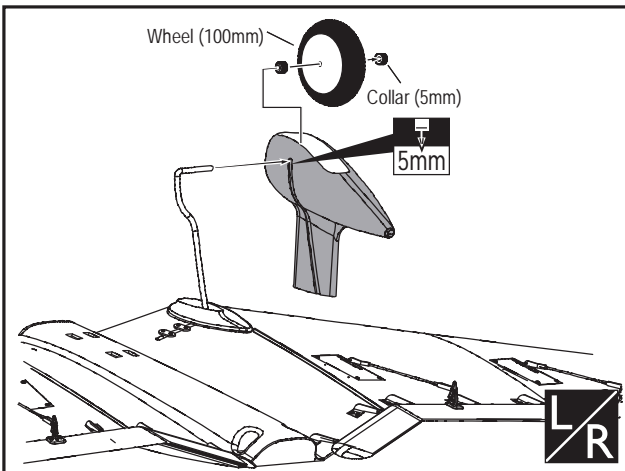
18

Epoxy the parts round wheel part.



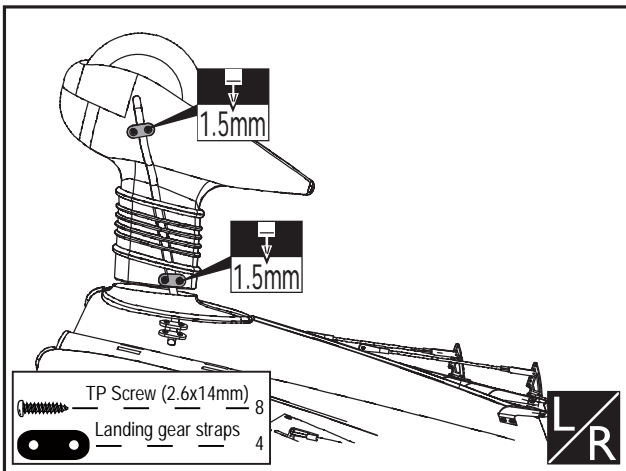
16

Mount wheel part and tire.



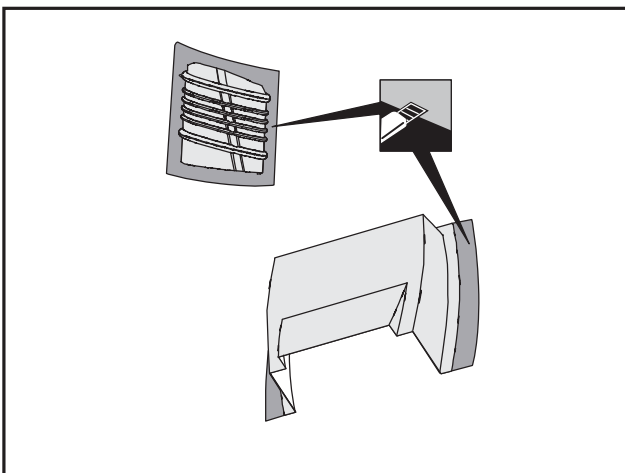
19

Attach landing wire to wheel part steadily.



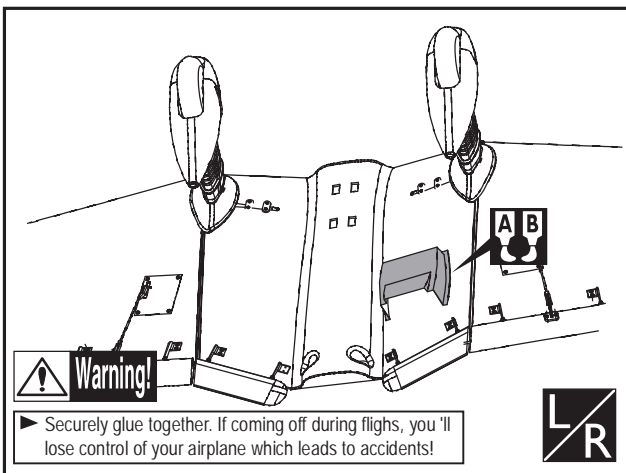
17

Cut off the surplus part of pvc parts.



20

Epoxy plastic part underneath the wing.



Apply epoxy glue.



Assemble left and right sides 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!



Warning!

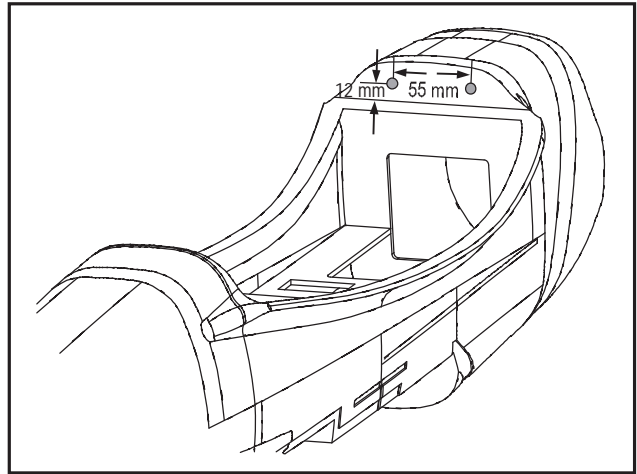


Accessory list for this page.

-  Screw (6x50mm) — 2
-  Blind Nut (6mm) — 2
-  Wood dowel (6x50mm) — 2

23

Drill holes in the fuselage to install the main wing.



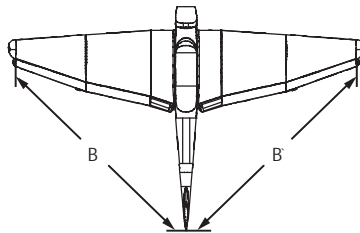
21



Assembly of main wing.

- ▶ Drill 6.2mm holes at the place of main wing.
- ▶ Install the wing to the fuselage with 6x50mm screws as shown in the diagrams below.



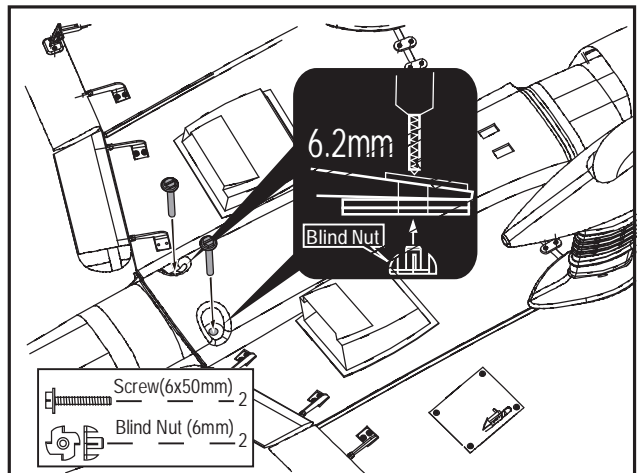
A = A'
B = B'



-  Screw (6x50mm) — 2
-  Blind Nut (6mm) — 2

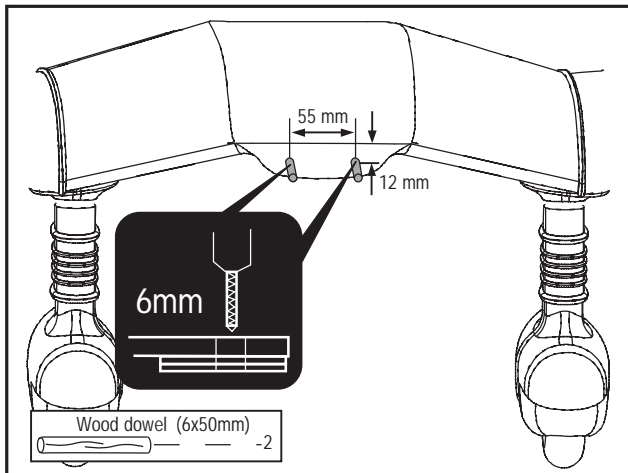
24

Mount the main wing on the fuselage.



22

Epoxy the dowel on the leading edge of wing.



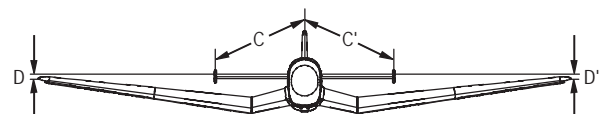
25

Assemble horizontal tail, vertical tail, tail gear separately.



- 警告** **Warning!** ▶ Make sure to glue securely. If not properly glued, a failure in flight may occur.
- ▶ Securely glue together. If coming off during flights, you'll lose control of your airplane which leads to accidents!
- ▶ Temporarily fasten down the main wing and check its correct position.

C = C'
D = D'



Apply epoxy glue.



Assemble left and right sides 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!



Warning!

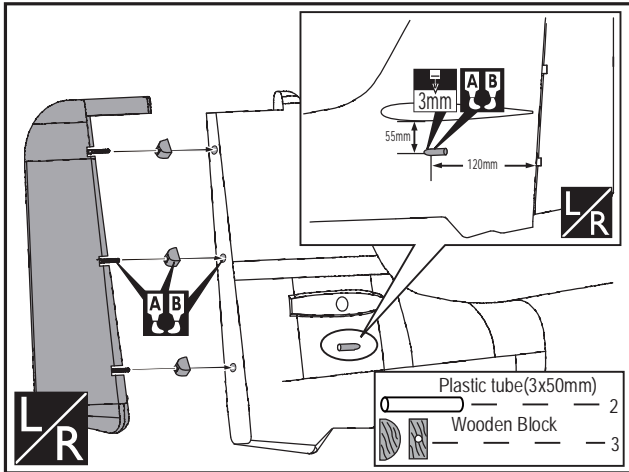


Accessory list for this page.

-  Wooden Block — 3
-  Pin hinge — 9
-  Plastic tube(3x50mm) — 2

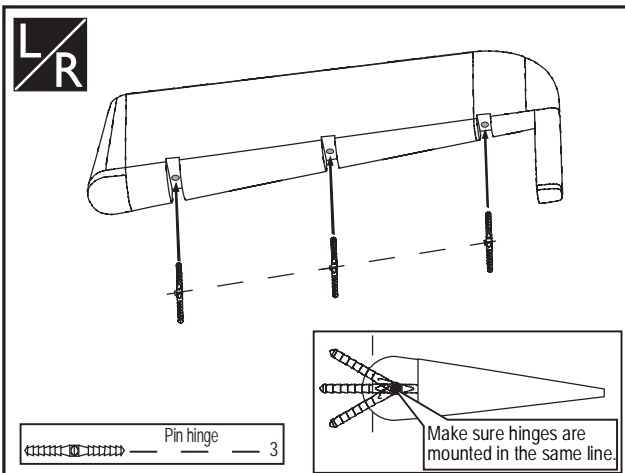
28

Epoxy rudder steadily in position. Mount plastic tube for guiding pushrod.



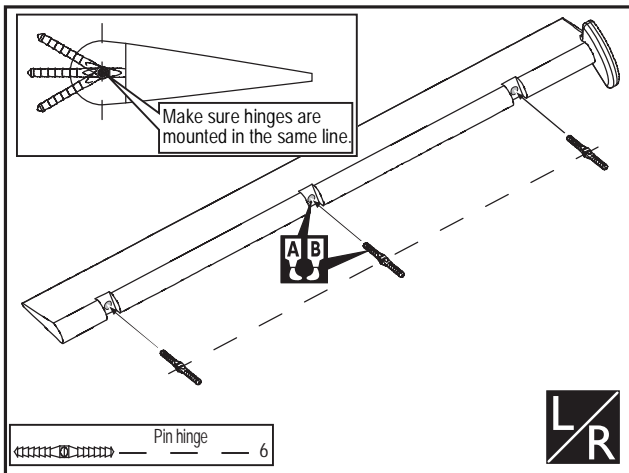
26

Epoxy pin hinges to rudder.



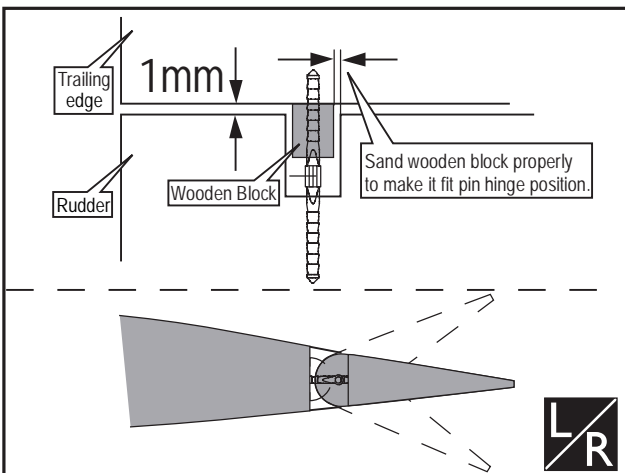
29

Epoxy pin hinges to elevator.



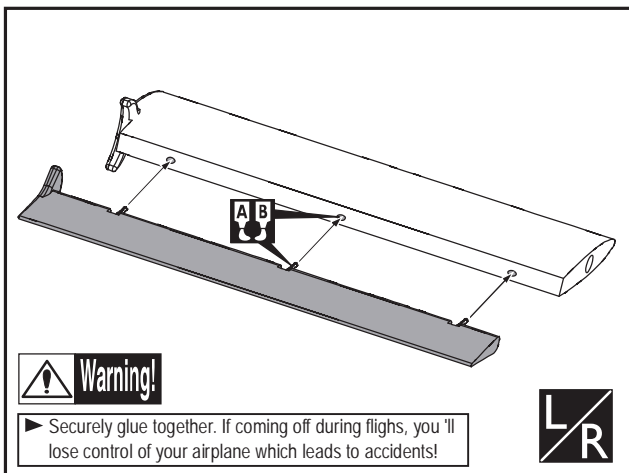
27

Leave some space with width of 1mm between trailing edge and aileron.



30

Epoxy pin hinges to horizontal tail.



Apply epoxy glue.



Assemble left and right sides 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!



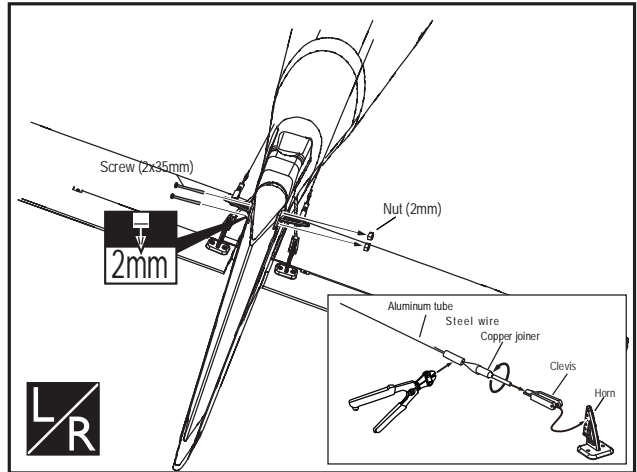


Accessory list for this page.

	Horn	4		Stab joiner (12x230mm)	1
	Plate	2		Tail landing gear	1
	Clevis	4		Tail gear supporter	1
	Fiberglass pushrod	2		Tail gear supporter	1
	Screw (2x35mm)	6		TP Screw (2.3x12mm)	6
	Nut (2mm)	2		Collar (3mm)	2
	Steel wire (0.5x1500mm)	2			
	Copper joiner	2			
	Copper joiner	2			
	Aluminum tube (3x6mm)	2			

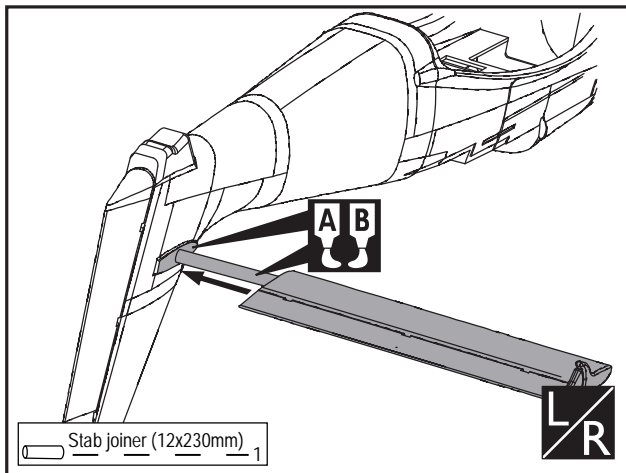
33

Rudder. Connect the linkage rod to the horn.



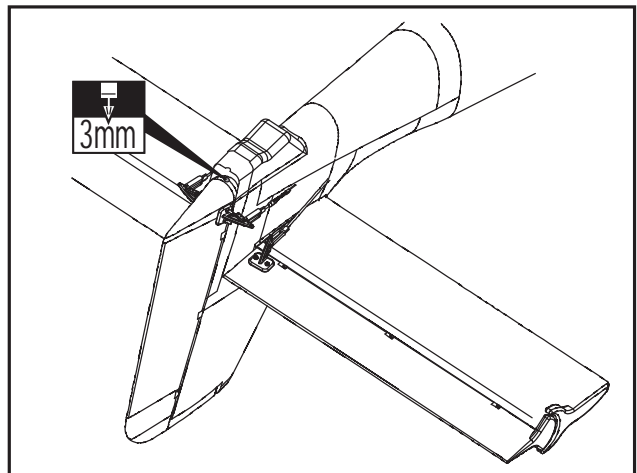
31

Epoxy the horizontal tail to fuselage.



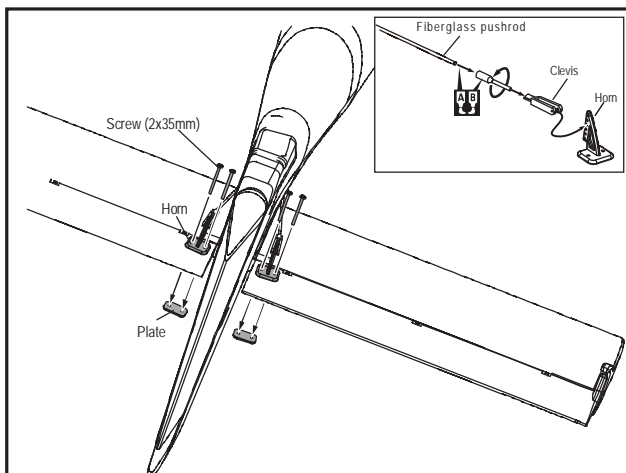
34

Drill holes for mounting tail gear.



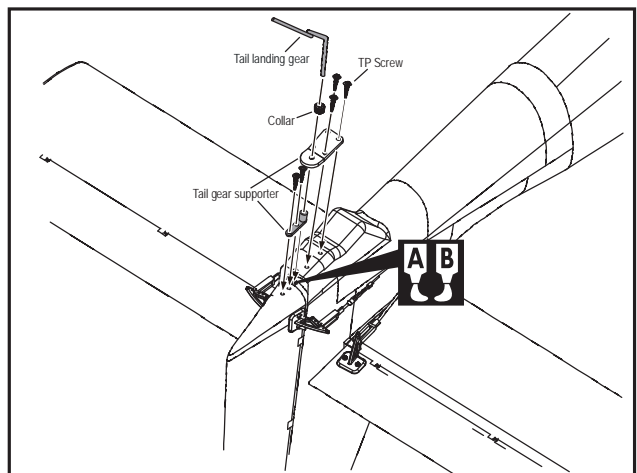
32

Elevator. Connect the linkage rod to the horn.



35

Mount tail gear.



Apply epoxy glue.



Assemble left and right sides 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!



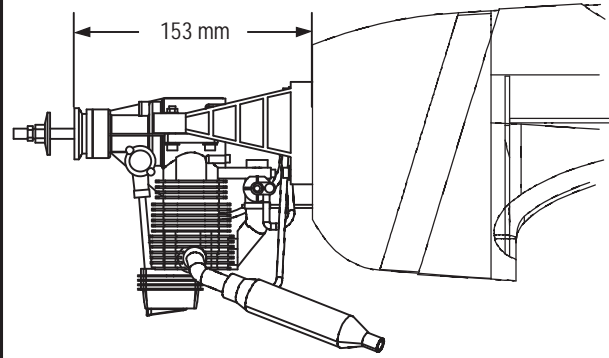


Accessory list for this page.

-  Tail wheel (45mm) — 1
-  Collar (3mm) — 2
-  Blind Nut (4mm) — 4

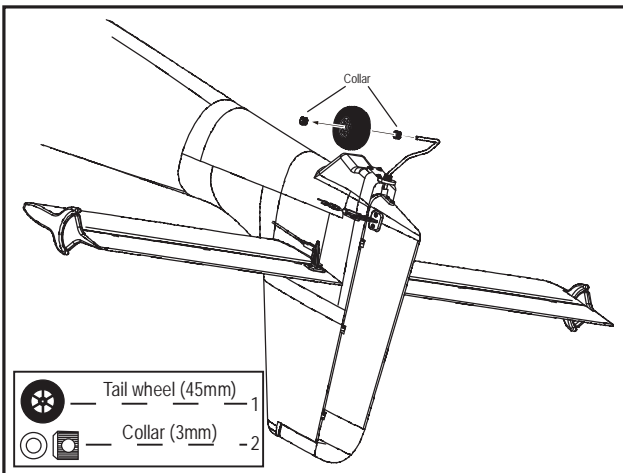
38

Assemble the engine.



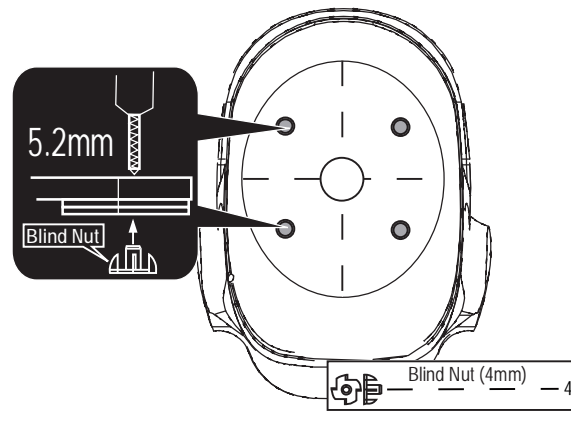
36

Assembly of tail wheel.



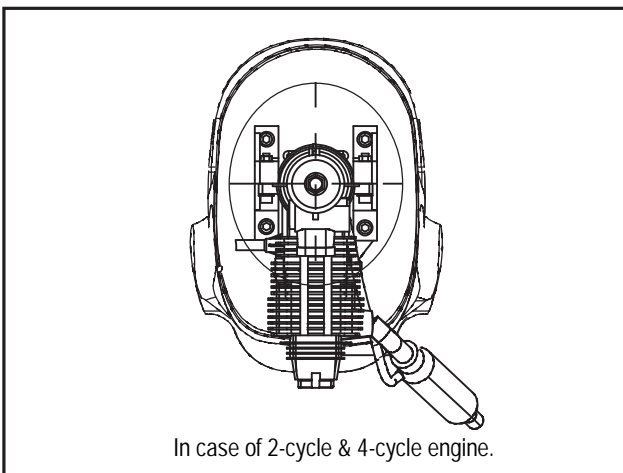
39

Drill four holes at the diameters as shown for engine mount.



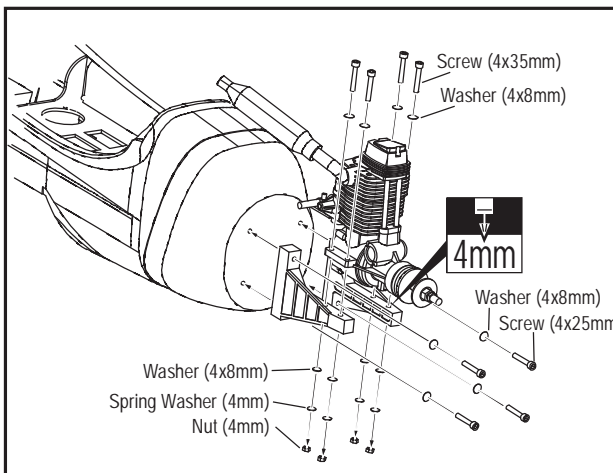
37

Assemble the engine.



40

Assemble the engine.



Apply epoxy glue.



Assemble left and right sides 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!



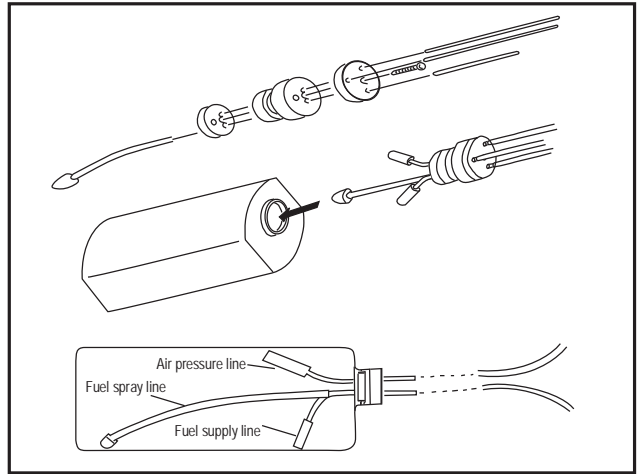


Accessory list for this page.

- Screw (4x35mm) — 4
- Screw (4x25mm) — 4
- Washer (4x8mm) — 12
- Spring Washer (4mm) — 4
- Nut (4mm) — 4
- Linkage Stopper — 1
- Plastic tube (2x500mm) — 1
- Engine mount (68x105mm) — 2
- Fuel tank (448cc) — 1

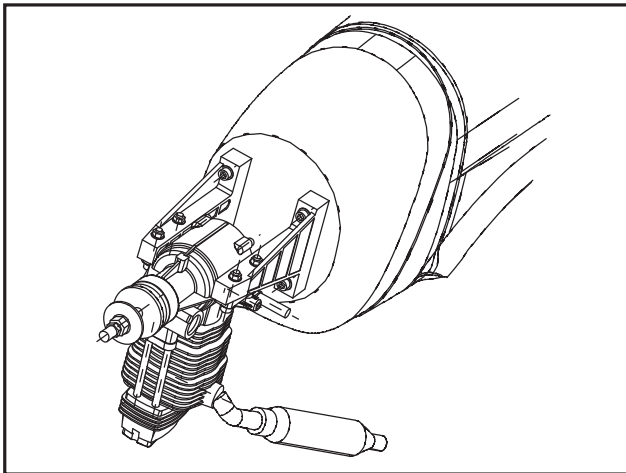
43

Assembly of the fuel tank.



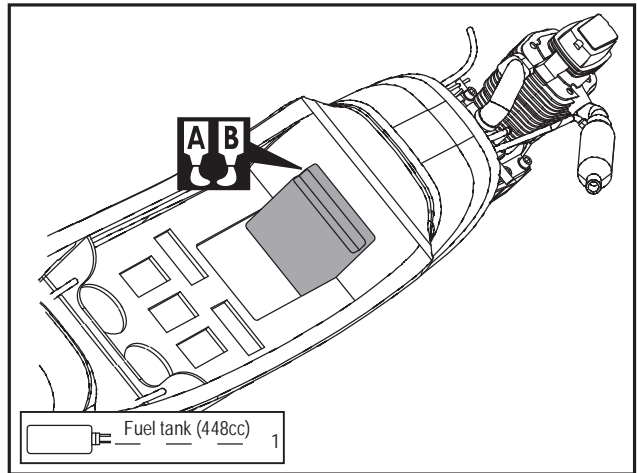
41

Install the engine.



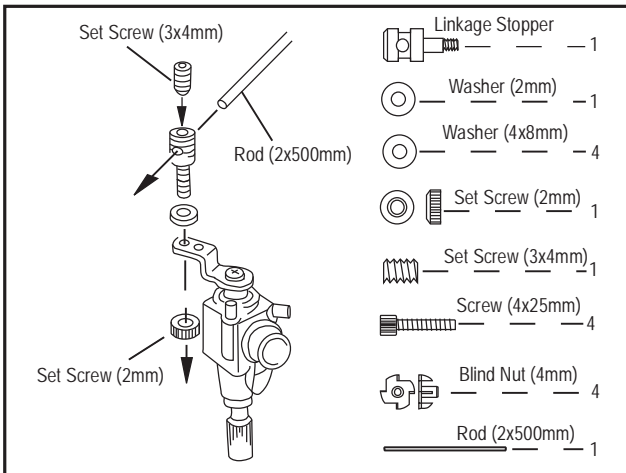
44

Mount the fuel tank into the fuselage.



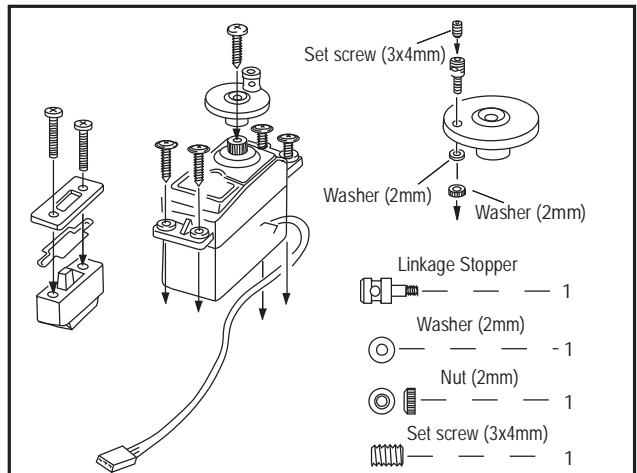
42

Assemble the engine.



45

Assemble the servos and switch in the fuselage.



Apply epoxy glue.



Assemble left and right sides 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!



Warning!

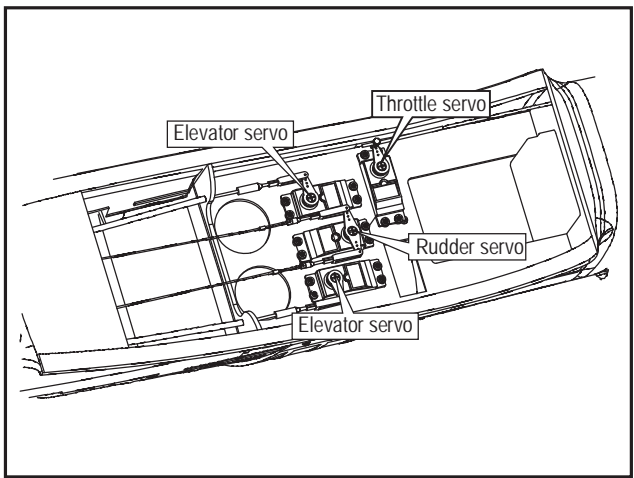


Accessory list for this page.

- TP Screw(2.3x6mm) 24
- Copper part 12
- Ply plate (3mm) 2
- Copper joiner 2
- Aluminum tube(3x6mm) 2
- Clevis 2
- Linkage Stopper 1

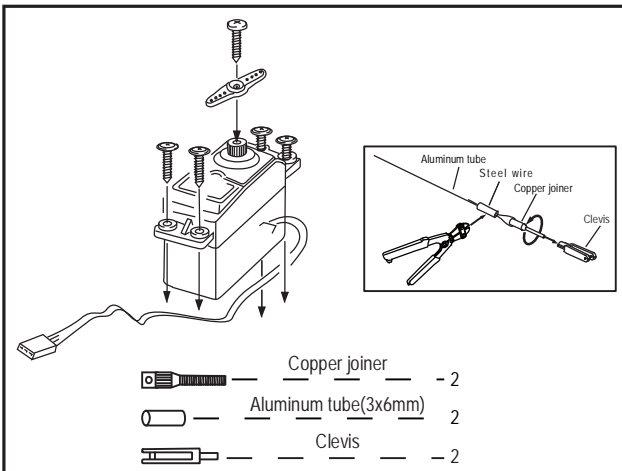
48

Assemble the servos and switch in the fuselage.



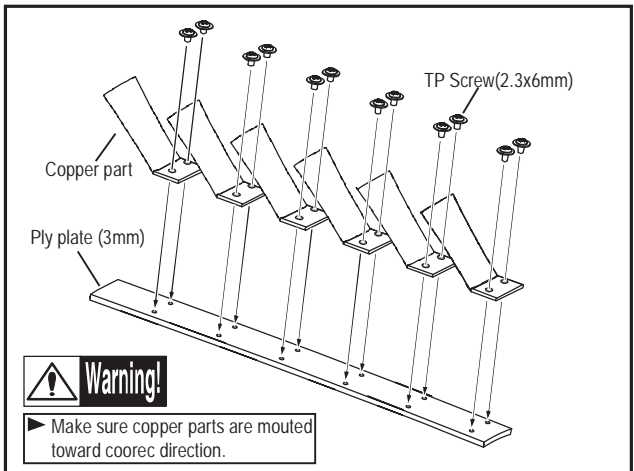
46

Install the nylon control ring for switch and connect the linkage.



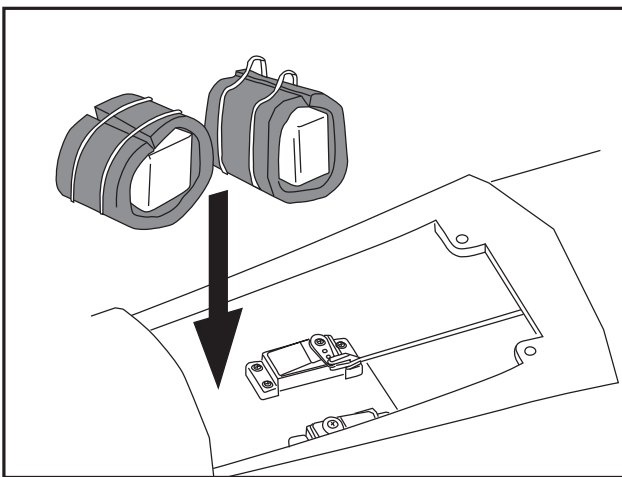
49

Mount copper parts on ply plate with screws.



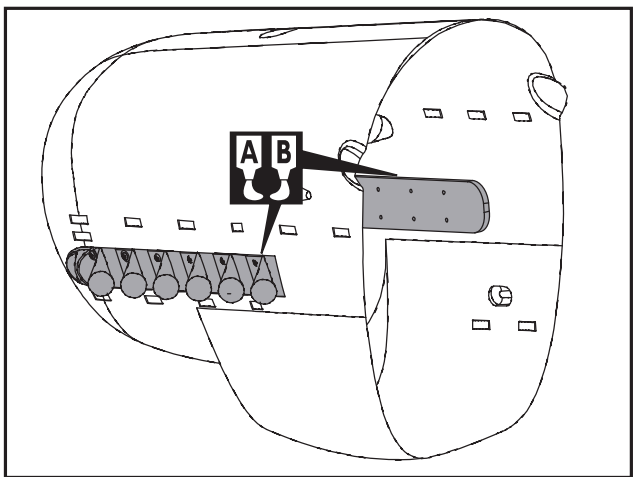
47

Mounting of the receiver and the battery.



50

Epoxy exhaust parts on the cowling.



Apply epoxy glue.



Assemble left and right sides 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.

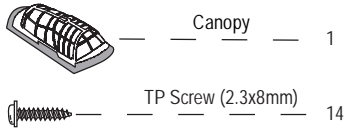
Do not overlook this symbol!



Warning!

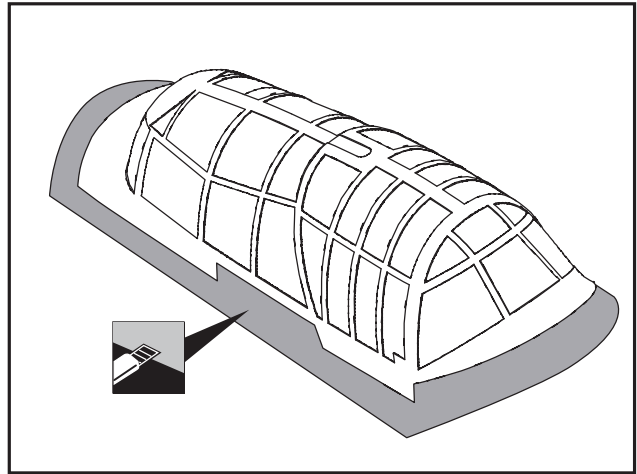


Accessory list for this page.



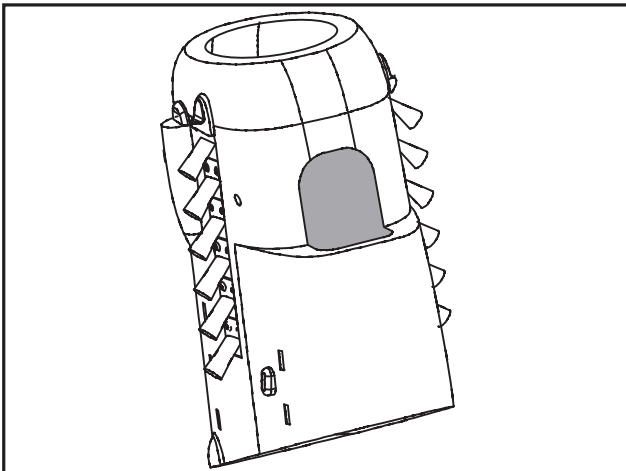
53

Cut away the surplus parts of canopy carefully along the shaded line.



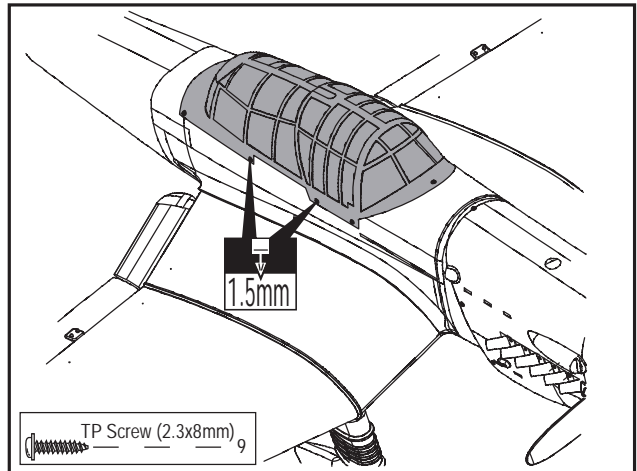
51

Trim the cowling for engine and muffler.



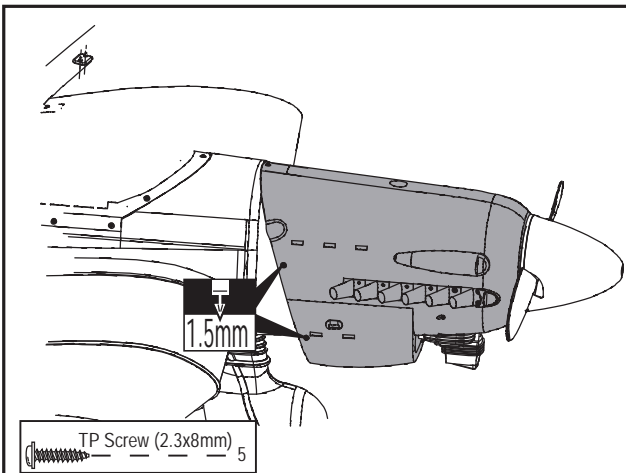
54

Fix the canopy with self-tapping screws.



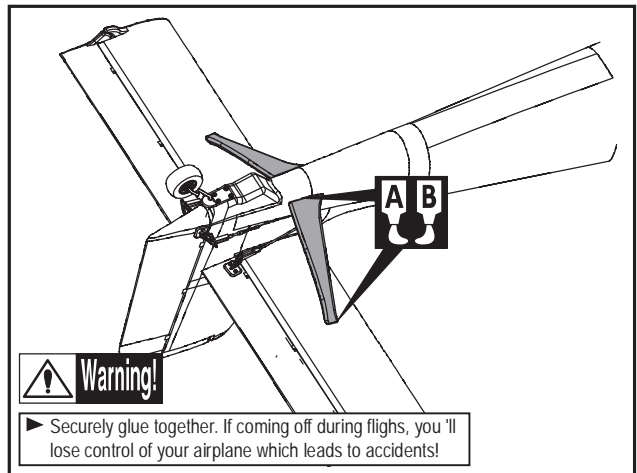
52

Assemble the cowling.



55

Epoxy fiberglass struts to fuselage and stabilizer.



Apply epoxy glue.



Assemble left and right sides the same way.



Pay close attention here!



Apply instant glue (CA glue, super glue).



Ensure smooth non-binding movement while assembling.



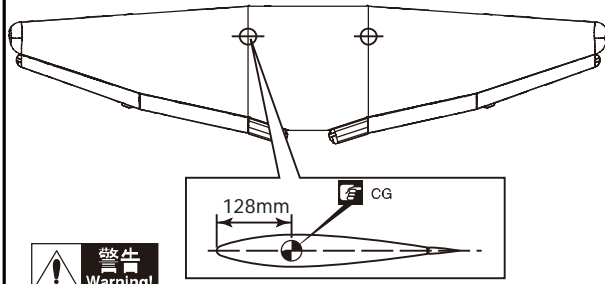
Cut off shaded portion.

Do not overlook this symbol!



56 Centre of Gravity.

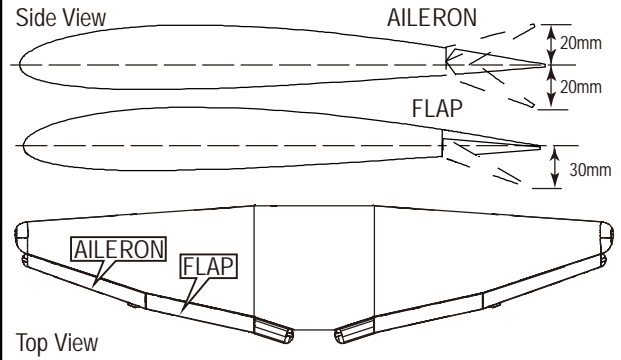
Never fly before checking the CG's required position.
In order to obtain the CG specified, reposition the receiver and battery.



▶ **NEVER fly the model without well balancing.**

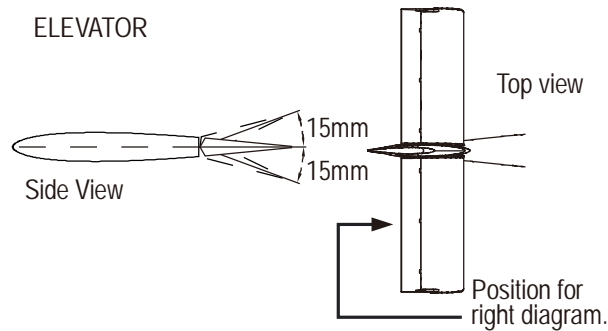
58 Adjustment.

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.



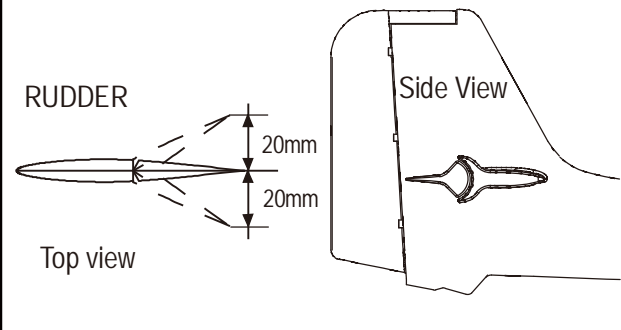
57 Adjustment.

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.



59 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.



Apply epoxy glue.

Assemble left and right sides 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!

