

Upgrated Dewoitine D-520 71" span 20-26cc

Code: SEA 99N

ASSEMBLY MANUAL

"Graphics and specifications may change without notice".





Specifications

Wing span	70.9 in 180 cm
Wing area	764.2 sq.in 49.3sq dm
Weight	10.1-11 lbs 4.6-5.0 kg
Length	56.8 in 144.2 cm
Engine	1.2 cu.in 2-stroke
	1.2-1.25 cu.in 4-stroke
	20-26cc

ELECTRIC CONVERSION: OPTIONAL

Radio----- 7 channels with 8 servos

INTRODUCTION

Thank you for choosing the **Upgrated Dewoitine D-520 71" span 20-26cc** ARTF by **SG MODELS**. The **Upgrated Dewoitine D-520 71" span 20-26cc** was designed with the intermediate/advanced sport flyer in mind. It is a semi scale airplane which is easy to fly and quick to assemble. The airframe is conventionally built using balsa, plywood to make it stronger than the average ARTF, yet the design allows the aeroplane to be kept light. You will find that most of the work has been done for you already. The motor mount has been fitted and the hinges are pre-installed. Flying the **Upgrated Dewoitine D-520 71" span 20-26cc** is simply a joy.

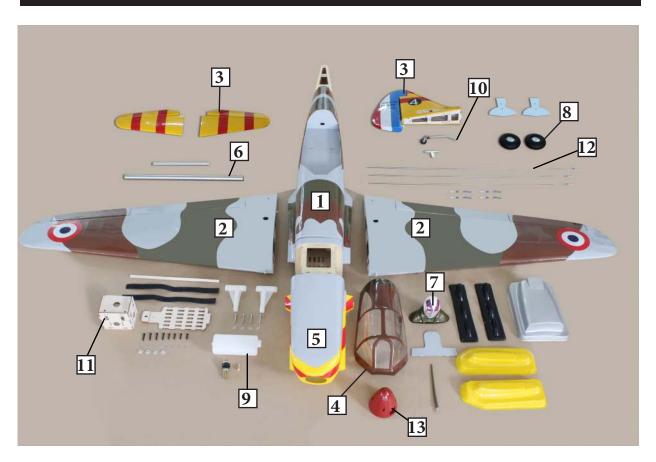
This instruction manual is designed to help you build a great flying aeroplane. Please read this manual throughly before starting assembly of your **Upgrated Dewoitine D-520 71" span 20-26cc** Use the parts listing below to indentify all parts.

WARNING

Please be aware that this aeroplane is not a toy and if assembled or used incorrectly it is capable of causing injury to people or property. WHEN YOU FLY THIS AEROPLANE YOU ASSUME ALL RISK & REPONSIBILITY.

If you are inexperienced with basic R/C flight we strongly recommend you contact your R/C supplier and join your local R/C model Flying Club. R/C Model Flying Clubs offer a variety of training procedures designed to help the new pilot on his way to successful R/C flight. They will also be able to advise on any insurance and safety regulations that may apply.

KIT CONTENTS



KIT CONTENTS

SEA99N Upgrated Dewoitine D-520 71" span 20-26cc

- 1. Fuselage
- 2. Wing set (2)
- 3. Tail set (2)
- 4. Canopy
- 5. Cowling
- 6. Wing tube
- 7. Pilot
- 8. Wheels
- 9. Fuel tank
- 10. Tail wheel
- 11. Ep Motor box
- 12. Pushrod set
- 13. Spinner

ADDITIONAL ITEMS REQUIRED

- □ 20-26cc gasoline engine.□ Computer radio 7 channel with 8 servos.
- \Box Glow plug to suit engine.
- ☐ Propeller to suit engine.
- ☐ Protective foam rubber for radio system.

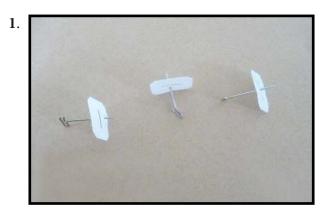
TOOLS & SUPPLIES NEEDED

- ☐ Thin cyanoacrylate glue.
- ☐ Medium cyanoacrylate glue.
- \square 30 minute epoxy.
- 5 minute epoxy.
- Hand or electric drill.
- ☐ Assorted drill bits.
- ☐ Modelling knife.
- ☐ Straight edge ruler.
- □ 2mm ball driver.
- ☐ Phillips head screwdriver.
- ☐ 220 grit sandpaper.
- ☐ 90° square or builder's triangle.
- ☐ Wire cutters.
- ☐ Masking tape & T-pins.
- ☐ Thread-lock.
- ☐ Paper towels.

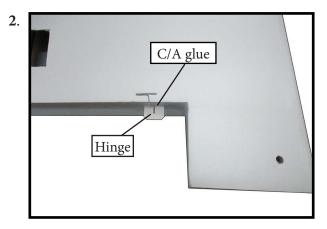
HINGING THE FLAP

Note: The control surfaces, including the ailerons, elevators, and rudder, are prehinged with hinges installed, but the hinges are not glued in place. It is imperative that you properly adhere the hinges in place per the steps that follow using a high-quality thin C/A glue.

Carefully remove the flap from one of the wing panels. Note the position of the hinges.



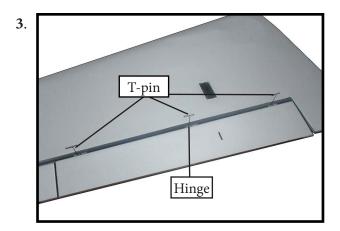
Remove each hinge from the wing panel and flap and place a T-pin in the center of each hinge. Slide each hinge into the wing panel until the T-pin is snug against the wing panel. This will help ensure an equal amount of hinge is on either side of the hinge line when the flap is mounted to the aileron.

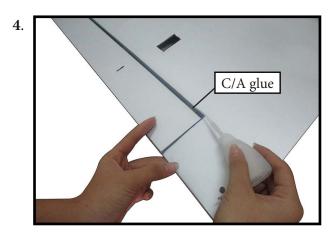


Slide the wing panel on the flap until there is only a slight gap. The hinge is now centered on the wing panel and flap. Remove the T-pins and snug the aileron against the wing panel. A gap of 1/64" or less should be maintained between the wing panel and flap.

Deflect the flap and completely saturate each hinge with thin C/A glue. The ailerons front surface should lightly contact the wing during this procedure. Ideally, when the hinges are glued in place, a 1/64" gap or less will be maintained throughout the lengh of the flap to the wing panel hinge line.

NOTE: The hinge is constructed of a special material that allows the C/A to wick or penetrate and distribute throughout the hinge, securely bonding it to the wood structure of the wing panel and flap.



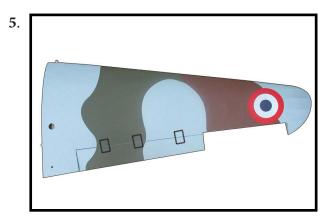


Turn the wing panel over and deflect the flap in the opposite direction from the opposite side. Apply thin C/A glue to each hinge, making sure that the C/A penetrates into both the aileron and wing panel.

Using C/A remover/debonder and a paper towel, remove any excess C/A glue that may have accumulated on the wing or in the flap hinge area.

Repeat this process with the other wing panel, securely hinging the aileron in place.

After both flap are securely hinged, firmly grasp the wing panel and aileron to make sure the hinges are securely glued and cannot be pulled out. Do this by carefully applying medium pressure, trying to separate the flap from the wing panel. Use caution not to crush the wing structure.

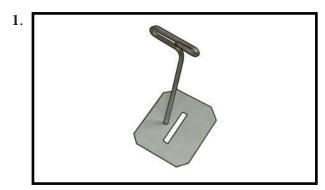


Note: Work the aileron up and down several times to "work in" the hinges and check for proper movement.

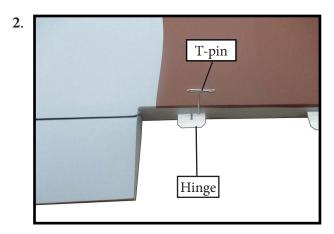
HINGING THE AILERON

Note: The control surfaces, including the ailerons, elevators, and rudder, are prehinged with hinges installed, but the hinges are not glued in place. It is imperative that you properly adhere the hinges in place per the steps that follow using a high-quality thin C/A glue.

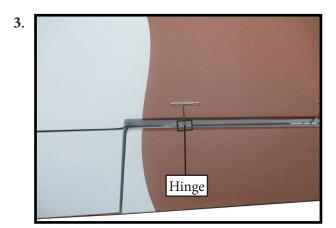
Carefully remove the aileron from one of the wing panels. Note the position of the hinges.



Remove each hinge from the wing panel and aileron and place a T-pin in the center of each hinge. Slide each hinge into the wing panel until the T-pin is snug against the wing panel. This will help ensure an equal amount of hinge is on either side of the hinge line when the aileron is mounted to the aileron.

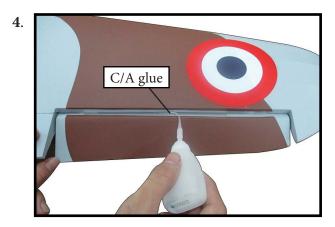


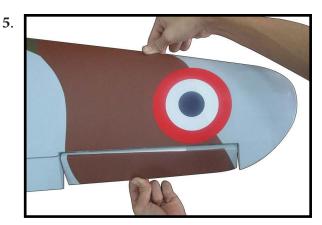
Slide the wing panel on the aileron until there is only a slight gap. The hinge is now centered on the wing panel and aileron. Remove the T-pins and snug the aileron against the wing panel. A gap of 1/64" or less should be maintained between the wing panel and aileron.

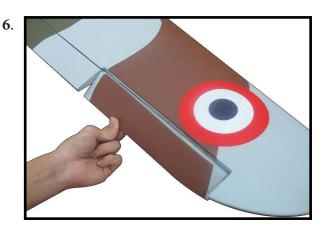


Deflect the aileron and completely saturate each hinge with thin C/A glue. The ailerons front surface should lightly contact the wing during this procedure. Ideally, when the hinges are glued in place, a 1/64" gap or less will be maintained throughout the lengh of the aileron to the wing panel hinge line.

NOTE: The hinge is constructed of a special material that allows the C/A to wick or penetrate and distribute throughout the hinge, securely bonding it to the wood structure of the wing panel and aileron.





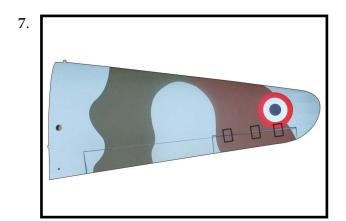


Turn the wing panel over and deflect the aileron in the opposite direction from the opposite side. Apply thin C/A glue to each hinge, making sure that the C/A penetrates into both the aileron and wing panel.

Using C/A remover/debonder and a paper towel, remove any excess C/A glue that may have accumulated on the wing or in the aileron hinge area.

Repeat this process with the other wing panel, securely hinging the aileron in place.

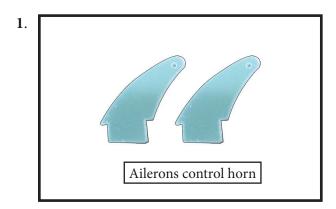
After both ailerons are securely hinged, firmly grasp the wing panel and aileron to make sure the hinges are securely glued and cannot be pulled out. Do this by carefully applying medium pressure, trying to separate the aileron from the wing panel. Use caution not to crush the wing structure.



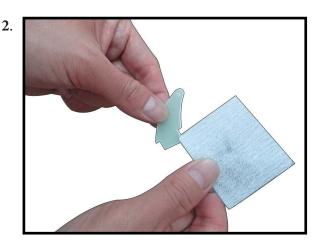
Note: Work the aileron up and down several times to "work in" the hinges and check for proper movement.

INSTALL THE AILERONS CONTROL HORN

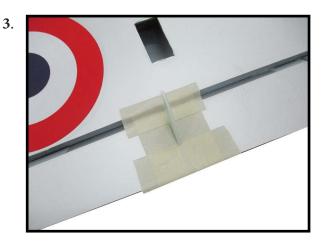
Locate the aileron and flap control horns. The taller control horn is used for the ailerons, and the shorter horn for the flaps.



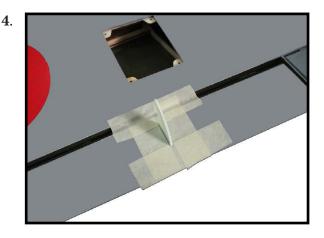
Use sandpaper to scuff the bottom of the aileron and flap control horns. Use a paper towel and isopropyl alcohol to remove any oils or debris from the control horns.



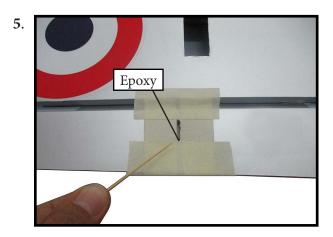
Check the fit of the control horns to the aileron and flap. They should rest flush against the control surface as shown.



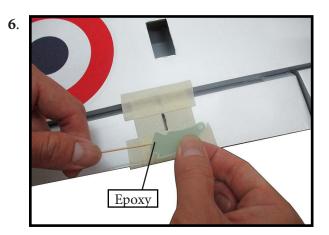
Place low-tack tape 1/32 inch (1mm) from the control horn slot. This will prevent epoxy from getting on the control surface when the control horns are glued in place.



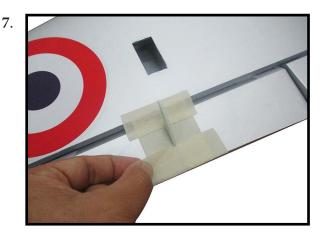
Remove the control horns from the control surfaces. Apply epoxy to the slot in the aileron and flap. Make sure the epoxy gets into the slot for a good bond between the surfaces and control horn.



Apply epoxy to the area of the control horns that fist into the slots. Use enough epoxy so the control horns will be fully bonded to the fied surfaces.

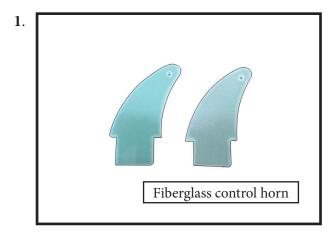


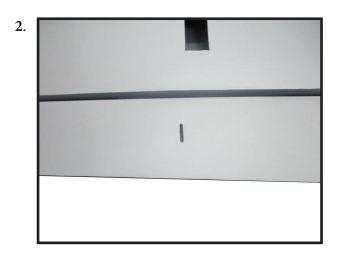
Before the epoxy fully cures, remove the tape from around the control horn. This will allow the epoxy to flow around the control horn, creating a small filet between the control horn and surface for a fished look and secure bond.

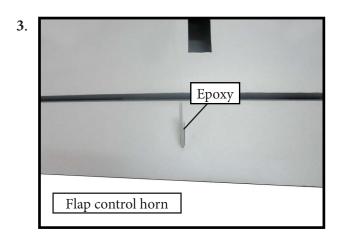


INSTALL FLAP CONTROL HORN

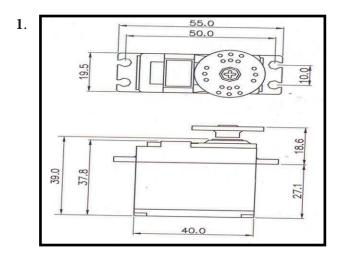
Install the flap control horn using the same method as same as the aileron control horns.

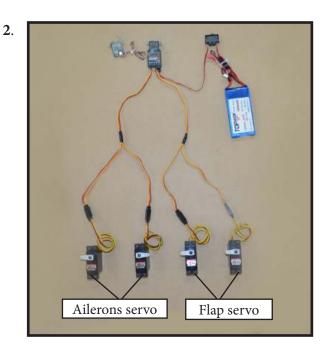






INSTALLING THE AILERON SERVOS





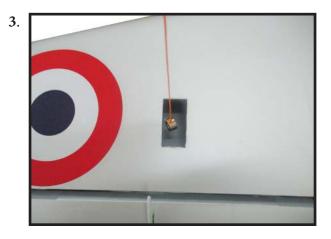
Minimum servo spec.

Torque: 80 oz-in (5.8 kg-cm) @ 4.8V; 100 oz-in (7.2 kg-cm) @ 6.0V

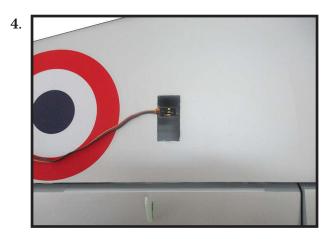
Install the rubber grommets and brass collets onto the aileron servo. Test fit the servo into the aileron servo mount.

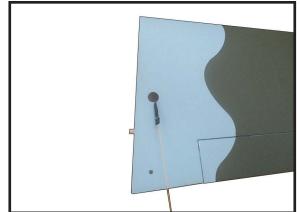
Because the size of servos differ, you may need to adjust the size of the precut opening in the mount. The notch in the sides of the mount allow the servo lead to pass through.

Using a small weight (Weighted fuel pickup works well) and thread, feed the string through the wing as indicated.



Apply 2-3 drops of thin C/A to each of the mounting holes. Allow the C/A to cure without using accelerator.





8



6.



Attach servo lead to the aileron servo.

9



Attach the string to the servo lead and carefully thread it though the wing. Once you have thread the lead throught the wing, remove the string so it can use for

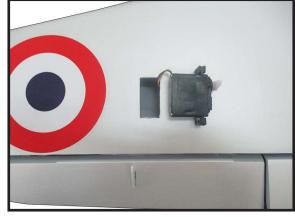
the other servo lead.

Repeat the procedure for the other wing half.



Repeat the procedure for the flap servo.

7.



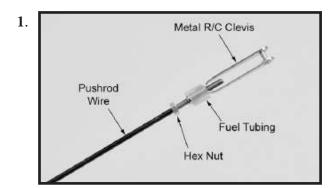
1.

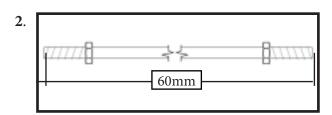


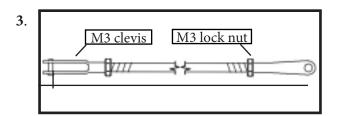
Reinstall the servo into the servo mount and secure the servo inplace using the wood screws provided with you radio system.

AILERON PUSHROD INSTALLATION

Please study images below.



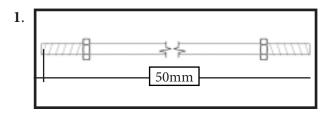


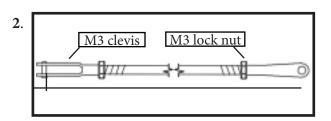


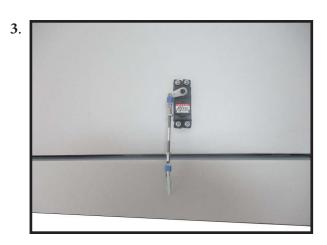


INSTALLING THE FLAP PUSHROD

Repeat the procedure for the aileron pushrod.





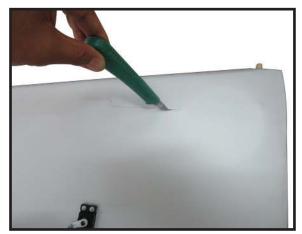


INSTALLING RETRACTABLE LANDING GEAR

Locate items necessary to install Sprin Landing Gear.

You use this fork set JP ER-120-84degree.



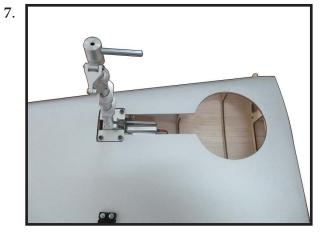


6.

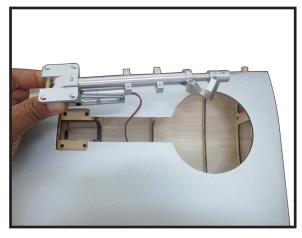


3.

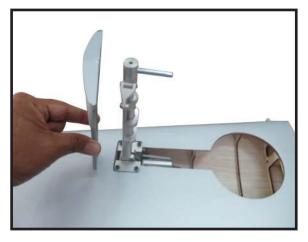




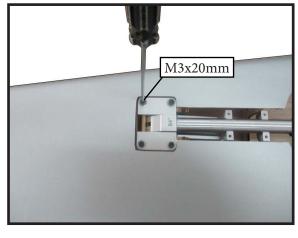
4.

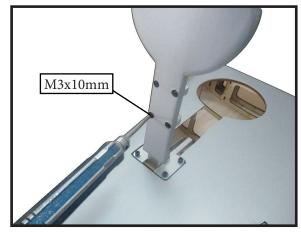


8.



5.



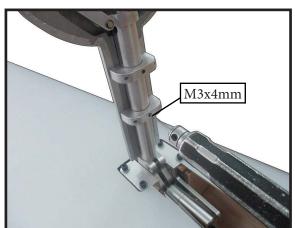




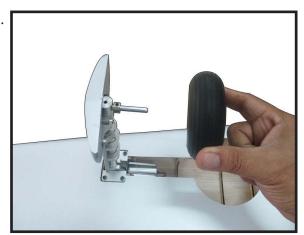
14.



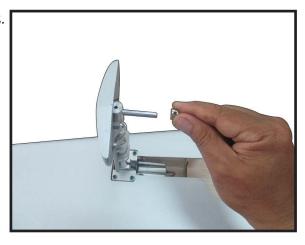
11.



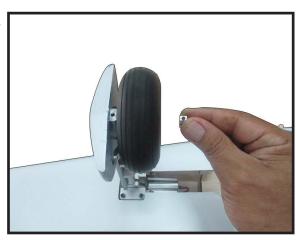
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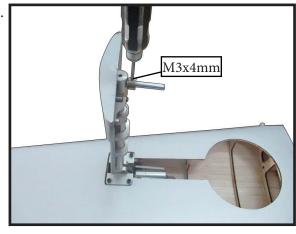
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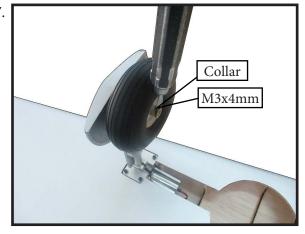


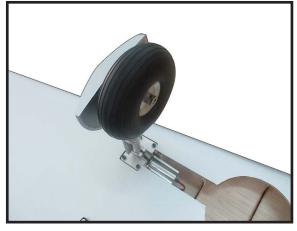
16.



13.







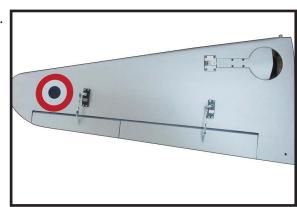
22.



19.



23.



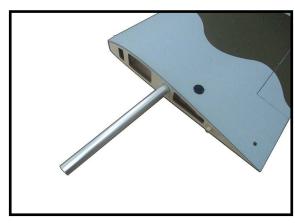
WING ASSEMBLY

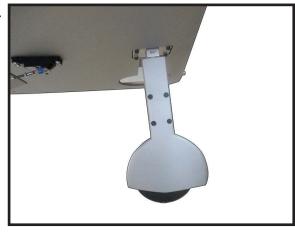
20.



Please see below pictures.

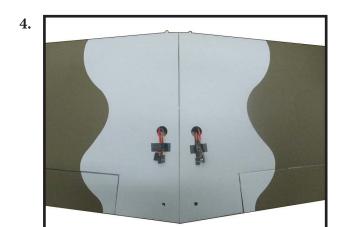








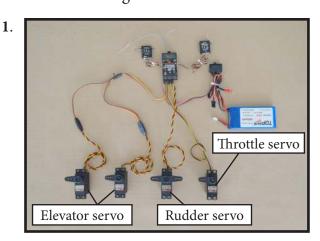




INSTALLING THE FUSELAGE SERVOS

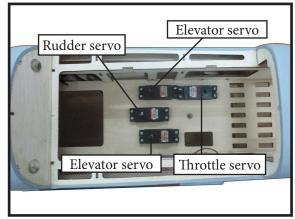
Because the size of servos differ, you may need to adjust the size of the precut opening in the mount. The notch in the sides of the mount allow the servo lead to pass through.

Install the rubber grommets and brass collets into all servos. Test fit the servos into the fuselage servo mounts.



Secure the servos with the screws provided with your radio system.

2.

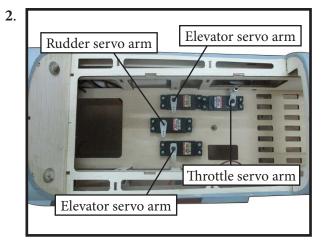


THROTTLE SERVO ARM INSTALLATION

Install adjustable servo connector in the servo arm as same as picture below:

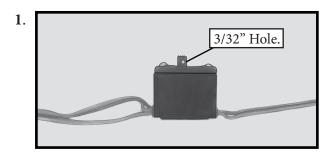
Adjustable servo connector.

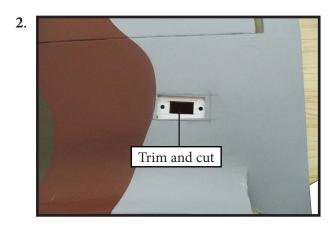
Servo arm.

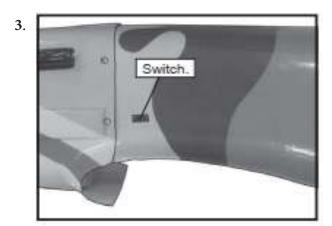


INSTALLING THE RECEIVER SWITCH

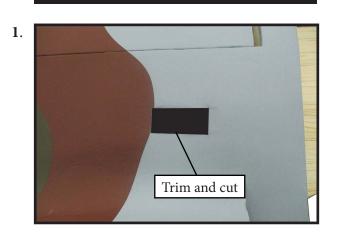
Install the switch into the precut hole in the side, in the fuselage.

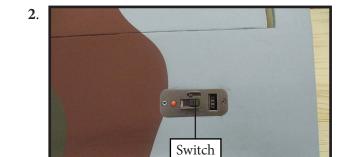






INSTALLING THE ENGINE SWITCH

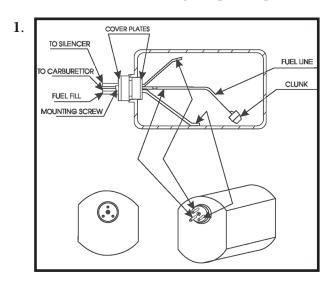




INSTALLING THE STOPPER ASSEMBLY

Using a modeling knife, carefully cut off the rear portion of one of the 3 nylon tubes leaving 1/2" protruding from the rear of the stopper. This will be the fuel pick up tube.

Using a modeling knife, cut one length of silicon fuel line. Connect one end of the line to the weighted fuel pick up and the other end to the nylon pick up tube.





3. Vent tube Fuel pick up tube Fuel fill tube

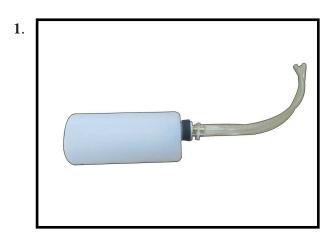
Carefully bend the second nylon tube up at a 45° angle. This tube is the vent tube.

Test fit the stopper assembly into the tank. It may be necessary to remove some of the flashing around the tank opening using a modeling knife. If flashing is present, make sure none falls into the tank.

With the stopper assembly in place, the weighted pick-up should rest away from the rear of the tank and move freely inside the tank. The top of the vent tube should rest just below the top of the tank. It should not touch the top of the tank.

When satisfied with the alignment of the stopper assembly tighten the 3 x 20mm machine screw until the rubber stopper expands and seals the tank opening. Do not overtighten the assembly as this could cause the tank to split.

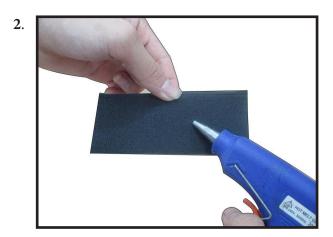
FUEL TANK INSTALLATION

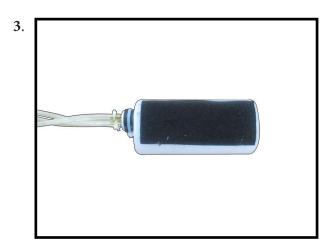


You should mark which tube is the vent and which is the fuel pickup when you attach fuel tubing to the tubes in the stopper. Once the tank is installed inside the fuselage, it may be difficult to determine which is which.

Slide the fuel tank into the fuselage. Guide the lines from the tank through the hole in the fiewall.

Use plywood template to hold in place the fuel tank with C/A glue to secure the fueltank inside the fuselage.









Vent tube

Fuel pick up tube

Fuel fill tube

Connect the lines from the tank to the engine and muffler. The vent line will connect to the muffler and the line from the clunk tothe carburetor.

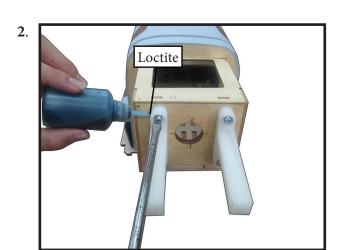
Blow through one of the lines to ensure the fuel lines have not become kinked inside the fuel tank compartment. Air should flow through easily.

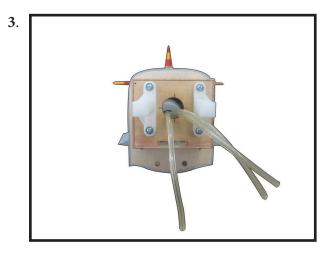
MOUNTING THE ENGINE

Locate the items necessary to install the engine mount included with your model.

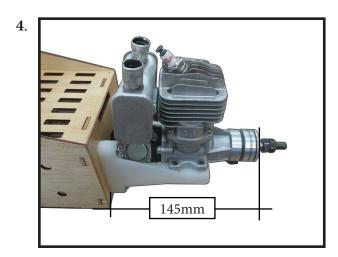


Use four 4x30mm head bolts and four 4mm washers to attach the engine mount rails to the firewall. Tighten the screws. Make sure to use threadlock on the screws to help prevent them from vibrating loose.

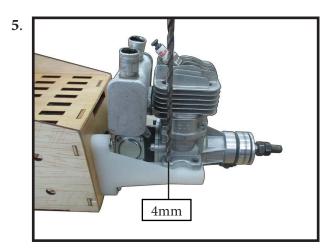




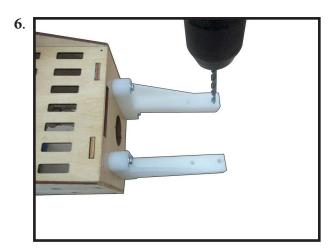
Position the engine with the drive washer (145mm) forward of the fiewall as shown.



Use a pin drill and 4mm drill bit to drill a small indentation in the mount for the engine mounting screw.



Use a drill to drill the four holes in the engine mount rails.

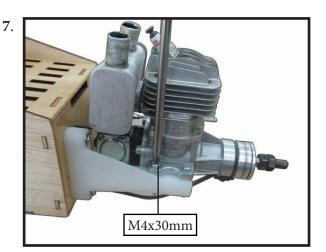


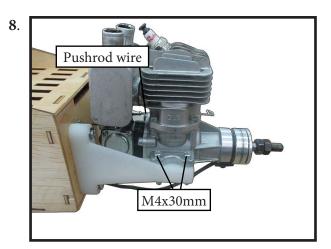
On the fie wall has the location for the throttle pusshrod tube (pre-drill).

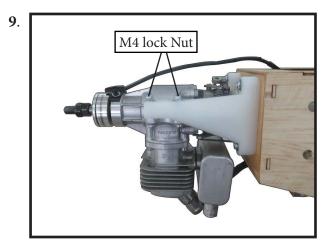
Slide the pushrod tube in the fiewall and guide it through the fuel tank mount. Use medium C/A to glue the tube to the fiewall and the fuel tank mount.

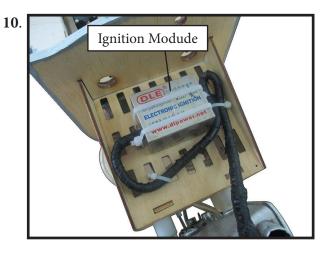
Connect the Z-bend in the 450mm throttle pushrod to the outer hole of the carburetor arm.

Slide the throttle pushrod wire into the tube. Position the engine between the mounts. Use four M4x30mm machine screws to secure the engine to the mount as shown.



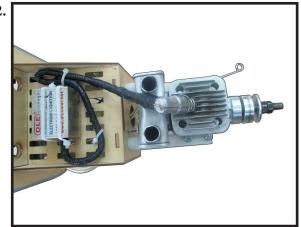








12.



servo horn perpendicular to the servo center line.

15.

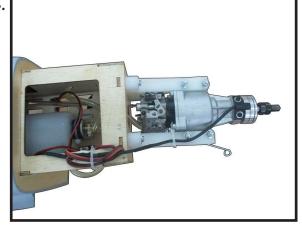


Reinstall the servo horn by sliding the

connector over the pushrod wire. Center the throttle stick and trim and install the

Move the throttle stick to the closed position and move the carburetor to closed. Use a 2.5mm hex wrench to tighten the screw that secures the throttle pushrod wire. Make sure to use threadlock on the screw so it does not vibrate loose.

13.



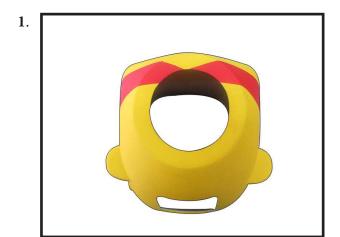
16.

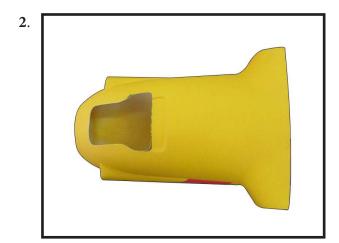


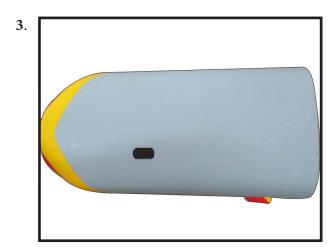


COWLING

Please see below pictures.

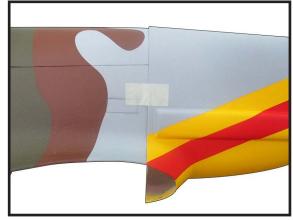






Tape the cowl to the fuselage using low-tack tape.



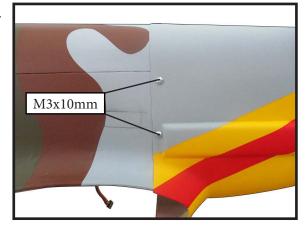


Use a drill and drill bit to drill the holes for the cowl mounting screws. Make sure the cowl position is correct before drilling each hole.



Install the muffler and muffler extension onto the engine and make the cutout in the cowl for muffler clearance. Connect the fuel and pressure lines to the carburetor, muffler and fuel filer valve. Secure the cowl to fuselage using the M3x10mm socket head screws. Putting a small length of silicon fuel tube under the head of the screw helps with vibration.

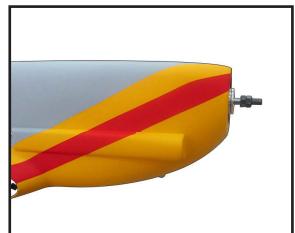




11.



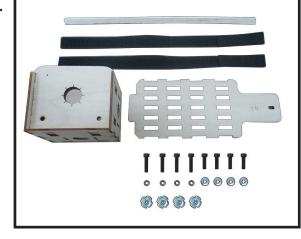
8.



ELECTRIC POWER CONVERSION

Locate the items neccessary to install the electric power conversion included with your model.

1.



9.



Recommend the items necessary to install the electric power conversion parts included with your model.

- Motor: 110 - 2000 Watts

- Propeller: 17x8 ~ 19x10

- ESC: 85A

- 6S- 8S Lipo



Attach the electric motor box to the firewall centered with the cross lines drawn on the electric motor box and firewall. Using M4x25mm to secure the motor box to the firewall. Please see pictures below.



3.

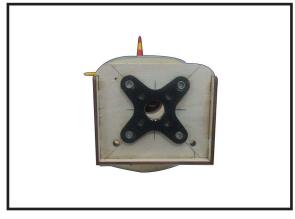


Attach the motor mount to the front of the electric motor box using four 4mm blind nut, four M4x25mm hex head bolts to secure the motor. Please see picture shown.

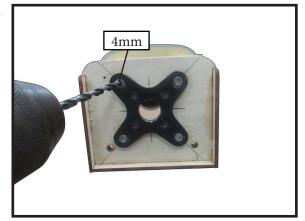




5.

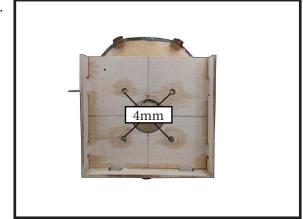


6.



Then, use 4mm drill bit to enlarge the holes on the electric motor box.



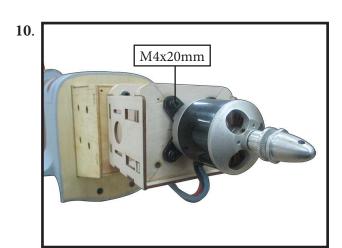


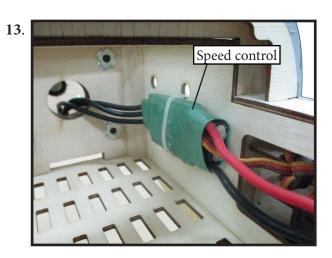
8.

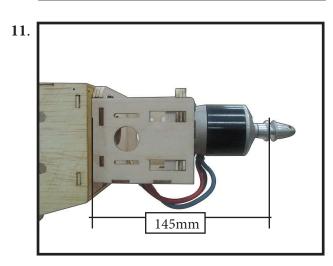


Attach the motor to the front of the electric motor box using four 4mm blind nut, four M3x15mm hex head bolts to secure the motor. Please see picture shown.

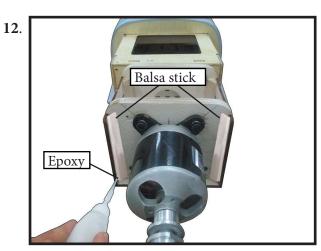
Attach the speed control to the side of the motor box using two-sided tape and tie wraps. Connect the appropriate leads from the speed control to the motor. Make sure the leads will not interfere with the operation of the motor.

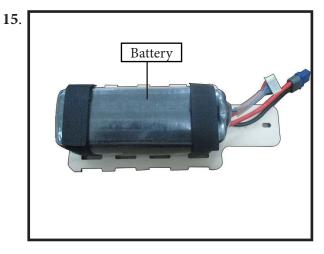






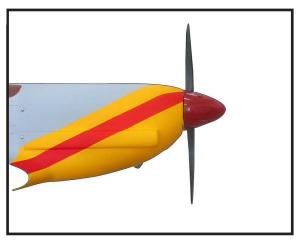








2.



17.

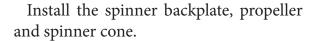


HINGING THE RUDDER

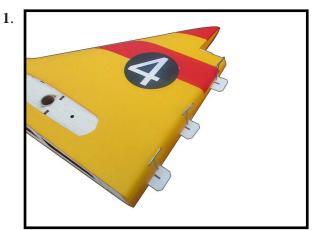
Glue the top three rudder hinges in place using the same techniques used to hinge the elevator.

The lower hinge will be glued when the fin/rudder assembly is attached to the fuselage.

INSTALLING THE SPINNER

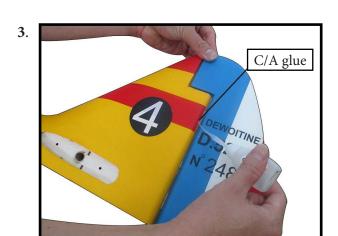


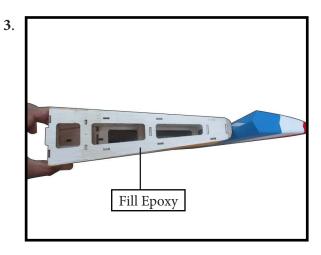


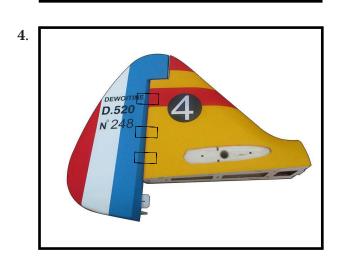


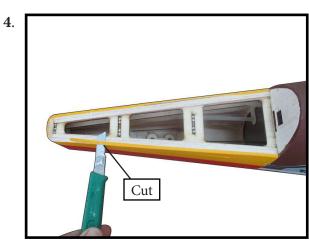
The propeller should not touch any part of the spinner cone. If it does, use a sharp modeling knife and carefully trim away the spinner cone where the propeller comes in contact with it.

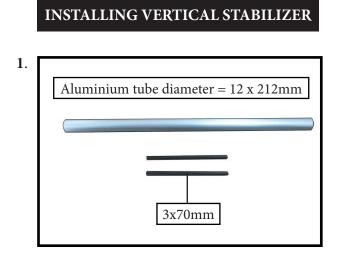


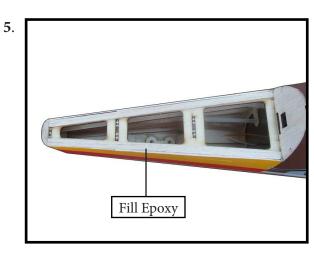


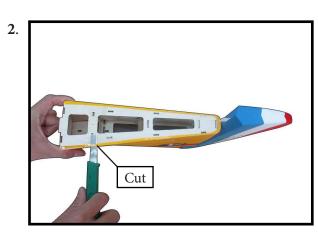


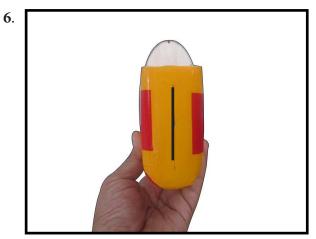


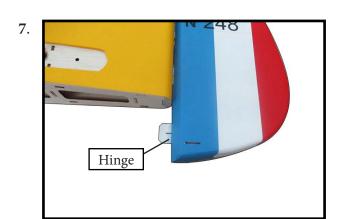


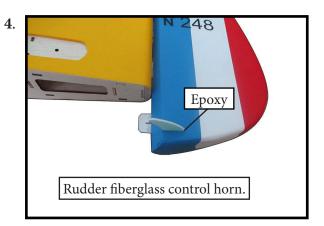






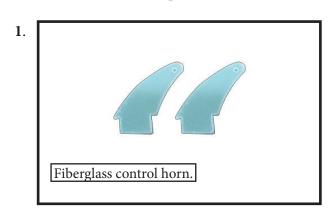


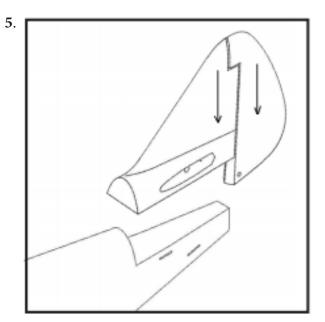


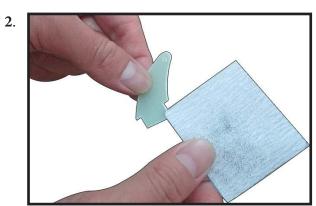


INSTALL RUDDER CONTROL HORN

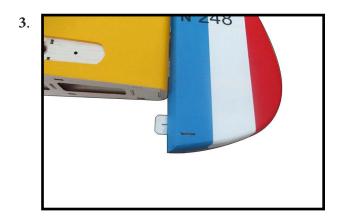
Repeat steps to install the rudder control horn as same as steps done for elevator.



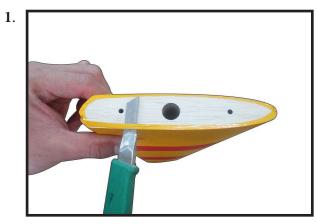


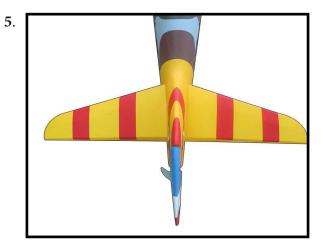


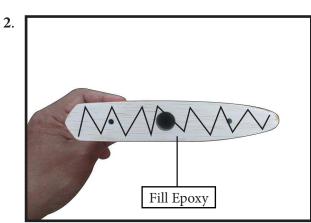


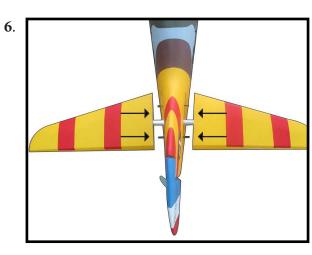


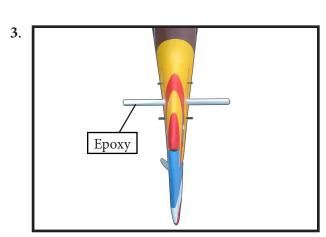
INSTALLING HORIZONTAL FIN

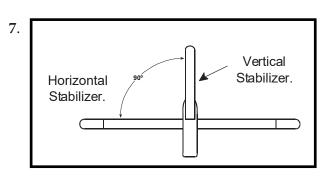


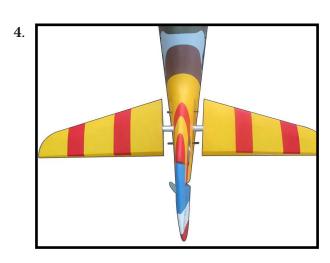


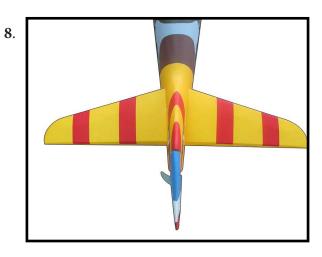


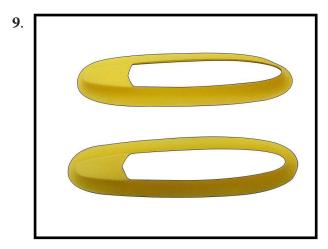


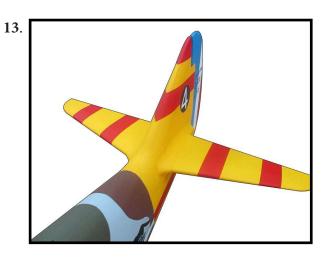


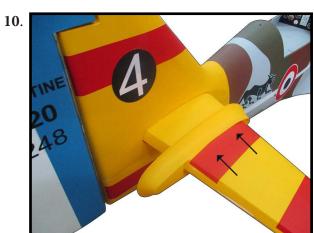




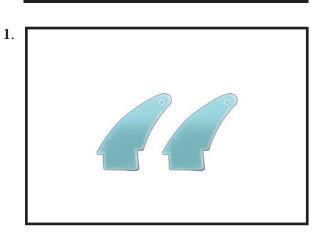


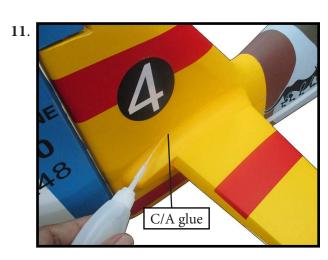


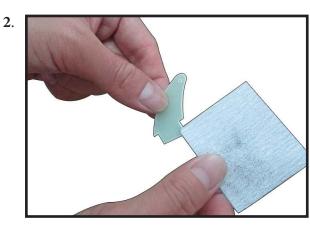






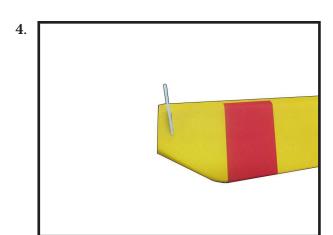




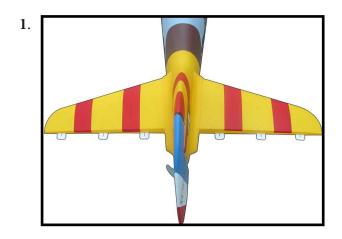


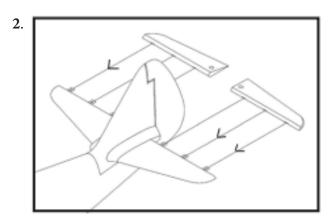


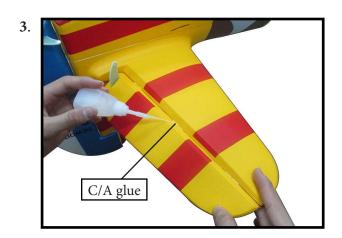




HINGING THE ELEVATOR







4.



ELEVATOR PUSHROD INSTALLATION

Install the elevator control horn using the same method as with the aileron control horns.

Position the elevator control horn on the both side of elevator.

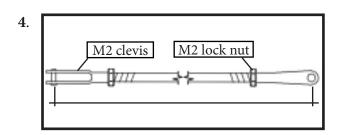


Thread one clevis and M2 lock nut on to each elevator control rod. Thread the horns on until they are flush with the ends of the control rods.

Elevator and rudder pushrods assembly as pictures below.

Pushrod Wire Fuel Tubing Hex Nut

3. 820mm



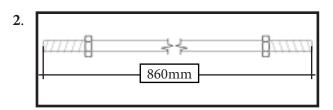


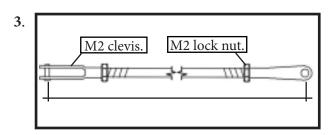


RUDDER PUSHROD INSTALLATION

Repeat steps as same as steps done for elevator.









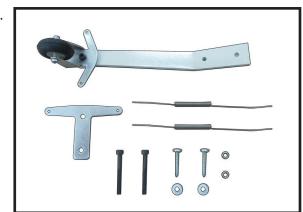




MOUNTING THE TAIL WHEEL

Locate items necessary to install tail wheel.

1.

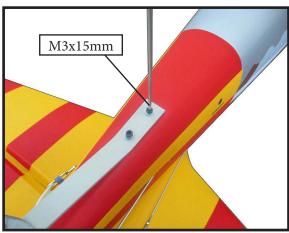


5.



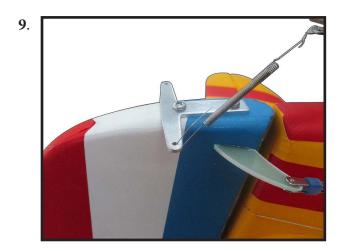












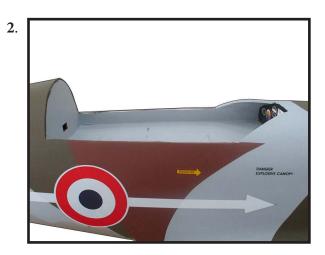


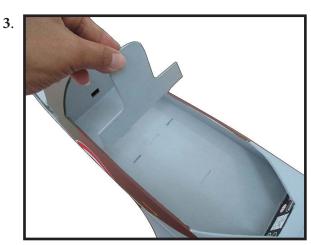


INSTALLATION COCKPIT, PILOT AND CANOPY

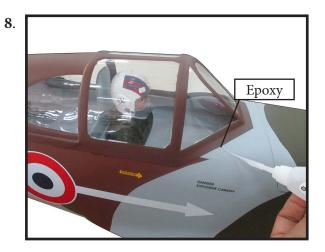
Locate items necessary to install.

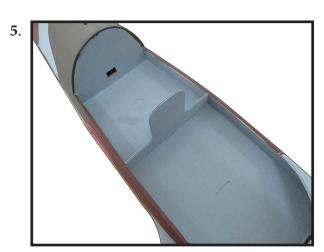




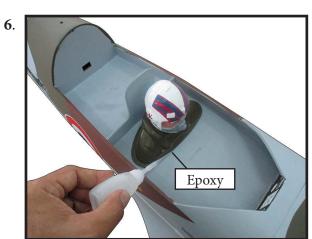


4. Epoxy











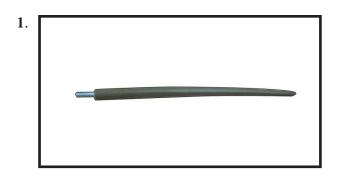




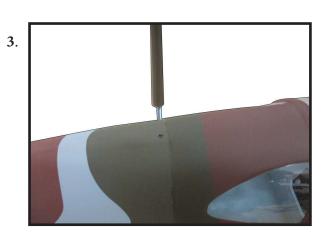


INSTALLING NEEDED ANTEN

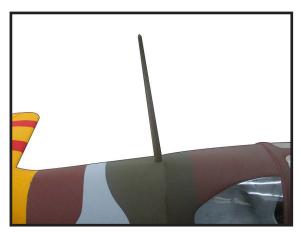
Parts requirement. See pictures below.







4.



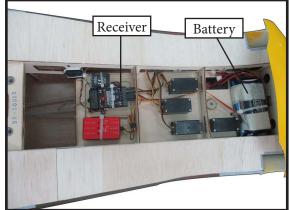
INSTALLING THE BATTERY-RECEVER

Plug the servos leads and the switch lead into the receiver. Plug the battery pack lead into the switch also.

Wrap the receiver and battery pack in the protective foam rubber to protect them from vibration.

Route the antenna in the antenna tube inside the fuselage and secure it to the bottom of fuselage using a plastic tape.

1.



ATTACKMENT WING-FUSELAGE

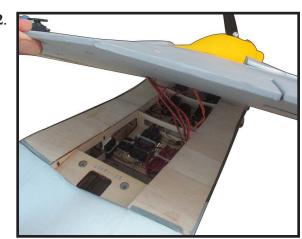
Attach the aluminium tube into fuselage.



5.



2.



6.



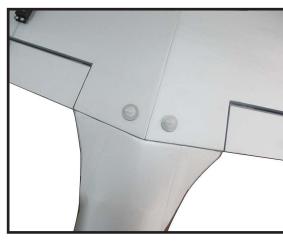
3.



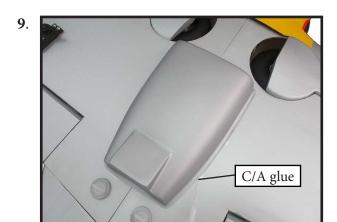
7.



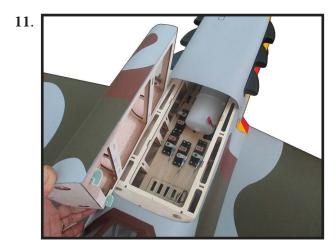
4. |

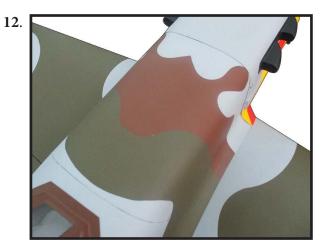












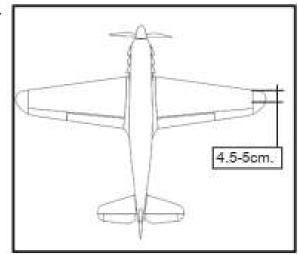
APPLY THE DECALS

- 1) If all the decals are precut and ready to stick. Please be certain the model is clean and free from oily fingerprints and dust. Position decal on the model where desired, using the photos on the box and aid in their location.
- 2) If all the decals are not precut, please use scissors or a sharp hobby knife to cut the decals from the sheet. Please be certain the model is clean and free from oily fingerprints and dust. Position decal on the model where desired, using the photos on the box and aid in their location.

BALANCING

- 1) It is critical that your airplane be balanced correctly. Improper balance will cause your plane to lose control and crash. The center of gravity is located 4.5 5cm back from the leading edge of the wing, measured at the wing tip.
- 2) If the nose of the plane falls, the plane is nose heavy. To correct this first move the battery pack further back in the fuselage. If this is not possible or does not correct it, stick small amounts of lead weight on the fuselage sides under the horizontal stabilizer. If the tail of the plane falls, the plane is tail heavy.

To correct this, move the battery and receiver forward orif this is not possible, stick weight onto the firewall or use a brass heavy hub spinner hub. When balanced correctly, the airplane should sit level or slightly nose down when youlift it up with your fingers.



CONTROL THROWS

- 1) We highly recommend setting up the **Upgrated Dewoitine D-520 71" span 20-26cc** using the control throws listed as below. We have listed control throws for both Low Rate (initial test flying/sport flying) and High Rate (aerobatic flying).
- 2) Turn on the radio system, and with the trim tabs on the transmitter in neutral, center the control surfaces by making adjustments to the clevises or adjustable servo connectors. The servo arms should be centered also.
- 3) When the elevator, rudder and aileron control surfaces are centered, use a ruler and check the amount of the control throw in each surface. The control throws should be measured at the widest point of each surface!

Ailerons: Rudder: High Rate:

Up: 15 mm Right: 20 mm
Down: 15 mm Left: 20 mm
Low Rate: Low Rate:

Up : 10 mm Right : 15 mm Down : 10 mm Left : 15 mm

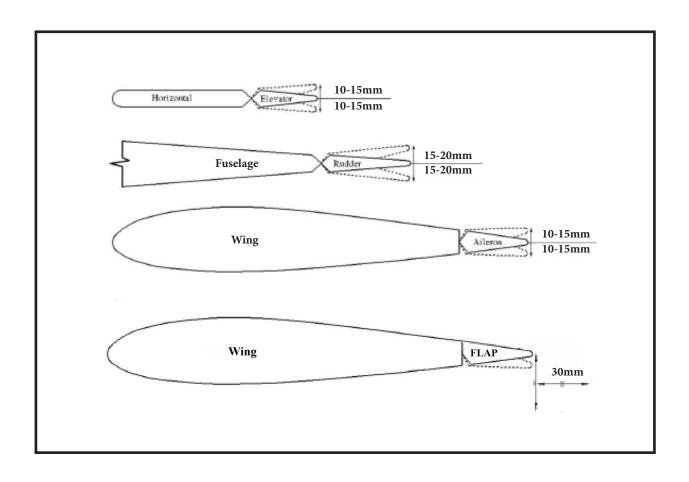
Elevator: Flap:

High Rate: Mid: 30 mm

Up: 15 mm Down: 15 mm

Low Rate : Up : 10 mm Down : 10 mm

4) By moving the position of the adjustable control horn out from the control surface, you will decrease the amount of throw of that control surface. Moving the adjustable control horn toward the control surface will increase the amount of throw.



FLIGHT PREPARATION.

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

- □ A) Plug in your radio system per the manufacturer's instructions and turn everything on.
- □ B) Check the elevator first. Pull back on the elevator stick. The elevator halves should move up. If it they do not, flip the servo reversing switch on your transmitter to change the direction.
- □ C) Check the rudder. Looking from behind the airplane, move the rudder stick to the right. The rudder should move to the right. If it does not, flip the servo reversing switch on your transmitter to change the direction.
- □ D) Check the throttle. Moving the throttle stick forward should open the carburetor barrel. If it does not, flip the servo reversing switch on your transmitter to change the direction.
- □E) From behind the airplane, look at the aileron on the right wing half. Move the aileron stick to the right. The right aileron should move up and the other aileron should move down. If it does not, flip the servo reversing switch on your transmitter to change the direction.

PREFLIGHT CHECK.

- □ 1) Completely charge your transmitter and receiver batteries before your first day of flying.
- □ 2) Check every bolt and every glue joint in the **Upgrated Dewoitine D-520 71**" **span 20-26cc** to ensure that everything is tight and well bonded.
- \square 3) Double check the balance of the airplane. Do this with the fuel tank empty.
- □ 4) Check the control surfaces. All should move in the correct direction and not bind in any way.
- \Box 5) If your radio transmitter is equipped with dual rate switches double check that they are on the low rate setting for your first few flights.
- \Box 6) Check to ensure the control surfaces are moving the proper amount for both low and high rate settings.
- □7) Check the receiver antenna. It should be fully extended and not coiled up inside the fuselage.
- □ 8) Properly balance the propeller. An out of balance propeller will cause excessive vibration which could lead to engine and/or airframe failure.

We wish you many safe and enjoyable flights with your Upgrated Dewoitine D-520 71" span 20-26cc.

If you have any queries, or are interested in our products, please feel free to contact us

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