







MTH HOBBY PRODUCTS INDUSTRIAL CO., LTD. www.mth.com.tw mthhobby@mth.com.tw © MTH HOBBY 2015

SPECIFICATIONS

Wing Span: 1600mm Wing Area: 45 dm² Length: 1240mm Total Weight: 1900g (with battery 2600mAh) Radio: 4 ~ 6(if use flap) channels Motor: 850KV brushless Thrust: 2 KGS and up Battery: Li-Po 4-cell 2600mAh and up ESC: 60A Engine: 10cc 2-stroke(Gas) .46 2-stroke .60 4-stroke Propeller for EP: 12 x 8" Propeller for GP: 12 x 6" (Gas) Propeller for GP: 11 x 6" Warning An RC aircraft is not a toy! If misused, it can cause serious bodily harm and damage to property. Fly only in open areas, following all instructions included with your radio. Before beginning the assembly, remove each part from its bag for inspection. Closely inspect the fuselage, wing panels, rudder and stabilizer for damage. If you find any damaged or missing parts, contact the place of purchase.







INSTRUCTION MANUAL



Recommended radio and equipment (Not included in kit):

4 or up channel radio Receiver Mini servos (9g) x 4 pieces 25 Amp or up brushless ESC x 1 piece 30mm Spinner x 1 piece

8x4" propeller x 1 piece Aluminum nut x 1 piece Y-harness x 1 piece 30cm Extension x 1 piece

Tools and suppliers needed (not included in kit):

1.5mm hex wrench 1mm/2mm driller Soldering Iron Shrinking tube Z-bender Sharp Hobby Knife Sharp-nose pliers Epoxy Instant glue Ruler Marker and transparent tape Side-cut pliers

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Cross wrench #0/#1 Rubber band Heat gun UHU glue Driller 2mm/3mm/4mm



Bend the plastic hinge so it can move freely.



Use epoxy to secure the hinges into the aileron and main wing.



Use epoxy to secure the hinges into the elevator and horizontal.



Use epoxy to secure the hinges into the rudder and vertical.



Place the following accessories on the working table:

Servo arm/adjustable rod stand/M3x4 mm hex screw/plastic nut/clip/2mm threaded rod/silicone tube/M2x15mm screws/2mm nut/plastic plates

Drill 2mm hole on the servo arm. Install the adjustable rod stand on the servo arm and secure with M3x4mm hex screw and plastic nut. Don't screw too tight, it has to move freely. Thread clip onto the 2.0mm rod. Insert one piece of silicone tube to the rod. Assemble M2x15mm screw, 2mm nut and two pieces of plastic plates for completing control horn set.

Use hobby knife to remove the covering over the hole for servo tray and plug exit on the main wing.



Use iron to trim the edges of the servo tray ad plug exit.





Try to fit the servos on the servo tray with two blocks to hole in place. If use flap, please equip 2 servos.



Drop some instant glue into the screw holes for the servo tray for reinforcement.



Use instant glue the blocks in place. (if use flap, please refer to the bottom page of the manual).



Connect the extension with servo plug. Secure the servo tray on the main wing. Use sharp-nose plier to pull the cable out of the plug hole.



When the glue is dried enough, use the screws come with the servo to secure the servo in place.



If want to use fly; please refer to the attachment #A(Page 14) and saw the flap off. Keep the space around 1mm between the flap and aileron. According to the marking on the

attachment A, use hobby knife to open the hinge holes on the rear edge of main wing and aileron.



Try to fit the rod, find the location for control horn on the aileron and mark the location for Z-bend. (If use flap, please repeat the same steps for the second servo.)



Use Z-bender to make a Z on the marked location.



Drill 2mm hole on the control horn. Thread in M2x15mm screw to fix the plate. Connect the rod onto the control horn.



Insert the washers to the wing blots M4x35mm and insert the bolt to its hole on the main wing. Slide a piece of 5mm silicone tube for preventing missing.



Use epoxy to secure one side of wing joiner one main wing. When assemble the main wing to the fuselage; slide another end of wing joiner to main wing and secure the main wing. (If want to reinforce the strength of the main wing; you can use epoxy to secure the two wing halves together, but in this way, the two wing halves cannot be separated.)



Apply transparent tape to hold the main wing until the glue is dried enough.



Use hobby knife to remove the covering over the slots for the vertical ad horizontal.



Remover the covering over the pre-served holes on the horizontal.



Remove the covering over the exits for rods on the tail.



Try to fit the vertical and horizontal onto the fuselage. Don't spread any glue right now.



Remove the covering over the main gear slot and cooling holes.



Make sure the length of A must be equal to B and the angle between horizontal and vertical must be 90 degree.



Use marker to mark the line on vertical, horizontal and fuselage for where they contact with each other for two sides.



Remove the horizontal and vertical out of the fuselage. Use hobby knife to remove the covering inside the marking area. Be careful not to cut into the wood, as doing so will weaken the construction. .



Remove the covering inside the marking on the fuselage. Be careful not to cut into the wood, as doing so will weaken the construction.

Use epoxy to secure the vertical and horizontal to the fuselage.



If intended to use electric; please take F29 – F35 out of the hardware bag for assembling the motor mount.



Use glue to secure the F32 on the top of F33.



Use instant glue to secure F29-F33 in place with SF logo facing top.



Use 2.6 x 8 mm tapping screws and gear plates to secure the main gear in main gear slot.



When the glue is dried enough; spread some epoxy on F34 and secure F34 inside the motor mount; spread some epoxy on the corners of F34 for reinforcement.



Assemble wheel with collars on the main gear and secure with M3 x4mm hex screw.



When the glue is dried enough; install the motor mount inside the head of fuselage, use instant glue to secure the motor mount in place. Place F35 inside the motor mount and use epoxy to secure it in place. Spread some epoxy on two sides of motor mount.



Install nose gear control horn on the top of nose gear; secure with M3x4mm hex screw.



Install nose gear assembly into the nose gear mount, place a collar on top of it and secure with M3x4mm hex screw.



Take on piece of M2 x 450mm rod out of the hardware bag; screw in clevis on one end; slide in a small piece of silicon tube, pull the rod through the fuselage, and screw in clevis on another end for connecting with nose gear control horn.



FOR GP ONLY: A) Take one piece of M2 x 450mm rod out of the hardware bag and insert through the pre-served holes inside the fuselage. Thread the clevis on the end of rod and slide in one piece of silicone tube. B) Install the receiver battery and switch.



Please refer to the drawing and assemble the rods for the elevator and rudder. Use UHU glue to secure the conjunctions.



Slide in shrinking tube on the conjunction. Use heat gun to make the tube shrinking for reinforcement.



Drop some instant glue around the screws for servo mount.



C) There is circle marking on the firewall. Use hobby knife to cut open the hole according to the marking.



FOR EP ONLY:

A) Place the motor mount on the working table with the F32 facing top. Place the motor plate on the top of the motor mount, use marker to mark the position for the screws.



D) Use epoxy to secure the motor mount on the firewall.



B) Remove the motor plane. Drill 3mm holes on the marked positions. Drop some instant glue around the screw holes. Use hobby knife to remove the center circle.



E) Pull the cable of the ESC out of the side hole of the motor mount and connect with the motor.



F) Secure the motor on the motor mount with the screws come with motor.



G) Apply a piece of hook and loop strap around the battery tray. Connect the RSC with battery for checking the motor rotation. The rotation must be anticlockwise.



H) Assemble propeller and spinner.

 Secure the servos onto the servo tray and connect with the rods. Use sharp-nose plier to remove the extra rod.



Please connect servo with Y-harness. (The servo for flap also has to connect the Y-harness).



FOR GP ONLY:

A) There are pre-marked screw holes on the firewall. Drill 4mm screw holes on these markings. Use M4x20mm screws, 4mm washers and M4 nuts to secure the engine mount on the firewall.



B) Use M4x25mm screws and M4 nuts to secure the engine onto the engine mount. Connect the throttle rod to the carburetor.



C) Assemble propeller and spinner onto the engine.



D) Secure the servos onto the servo tray and connect with rods. Use sharp-nose pliers to remove the extra rod.



E) Please take the picture as a reference and assemble the fuel tank combination. If equip with gas engine, please select the yellow fueling tube.



F) Connect the feed-line tubing and ventline tubing to the fuel tank. Please purchase correct tubing for the engine. Apply a piece of adhesive Velco tape on the bottom of fuel tank and another Velco tape on the battery tray.



G) Install the fuel tank into the fuselage and use Hook and Loop strap to secure the fuel tank in place. Connect the tube to engine.



H) Important: use wire wrap to secure both ends after assembling the clunk and fuel filter onto the fuel tube to prevent loose.



- I) 1. Use towel to clean all the surface.
 - 2. Spray some water on the location for applying sticker. Apply the sticker on the location.
 - 3. Use towel to wipe the sticker for pushing out the bubbles inside the sticker.



location is 95mm back from the leading edge against the fuselage.







