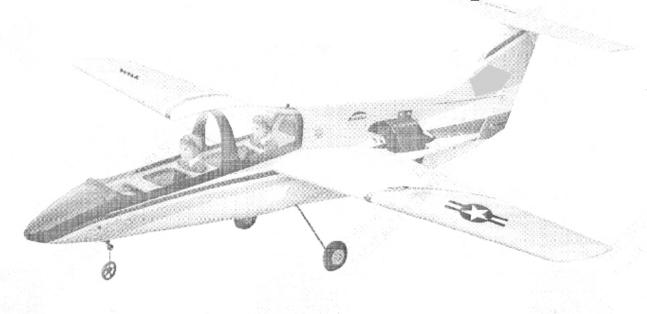
# Dragonfly



Requires: 4-channel radio w/ 4 micro servos,
Ducted Fan Propulsion Unit PL6800010
and Outrunner Motor KM0283110
30A (burst 35A) brushless ESC,
3 cells 11.1V 15C discharge 2100 mAh
Li - Po battery & charger.

#### ■ Specifications

Wing Span 36 in / 920 mm
Wing Area 225 sq in / 14.5 sq dm
Flying Weight 28 oz / 790 g
Fuselage Length 32.5 in / 830 mm

\*Specifications are subject to change without notice."

#### Warning! This model is not a toy.

It is designed for maximum performance. Please seek advice if one is not familiar with this kind of electric powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing. Always keep this instruction manual at hand for quick reference.



## Dragonfly

## 

#### BEFORE YOU BEGIN



Check all parts. If you find any defective or missing parts contact your local dealer. Please DRY FIT and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts, but will not extend to the parts that are good before gluing to defective parts during assembly. Warranty will not cover any parts modified by customer.

Symbols used throughout this instruction manual comprise of the following: -



Apply epoxy glue.



Apply instant glue (C.A.glue, super glue.)



Apply thread locker



Must be purchased separately!



Assemble left and right sides the same way.



Ensure smooth non-binding movement while assembling.



Peel off shaded portion covering film.



Cut off shaded portion.



Drill holes with the specified diameter (here: 3mm).



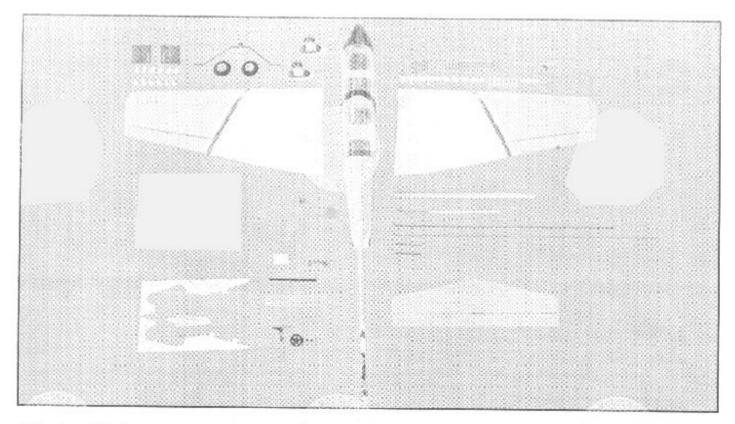
Pierce the shaded portion covering film.



Pay close attention here!



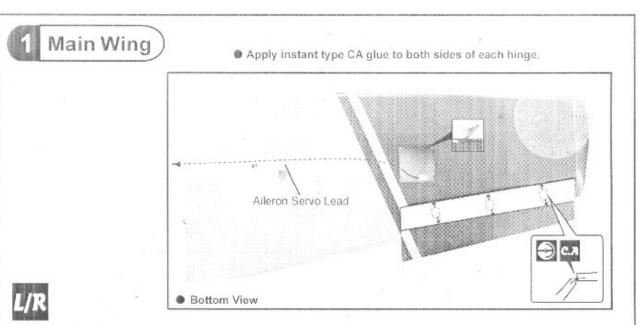
Do not overlook this symbol!

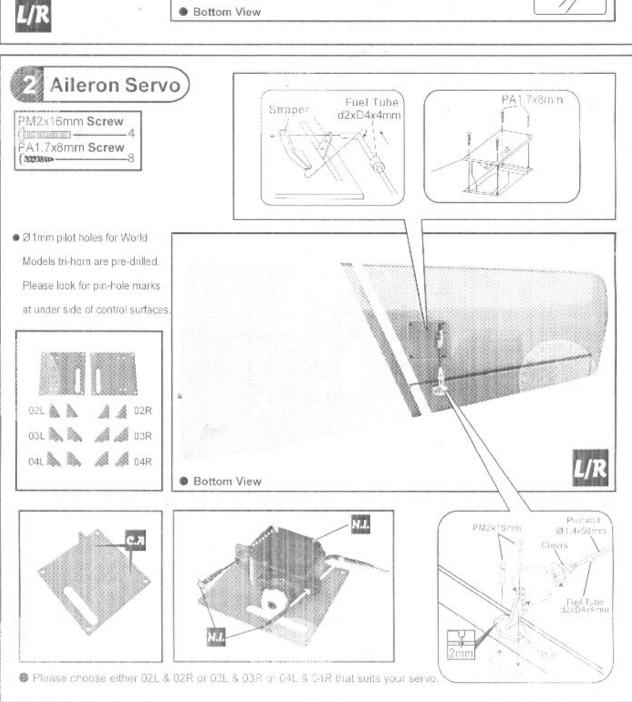


#### Parts List

- 1. MAIN WING -- 1 pair
- 2. SERVO MOUNTING PANEL -- 1 pair
  PUSHROD Ø1.4x50mm w/ Threads (For Aileron Servo) -- 2 pcs
  STRAPER -- 2 pcs
  FUEL TUBE d2xD4x4mm -- 4 pcs
  CLEVIS -- 2 pcs
  HORN -- 2 sets
  SCREW PM2x16mm -- 4 pcs
  SCREW PA1.7x8mm -- 8 pcs
- 3. PLYWOOD 3x67.8x217.8mm -- 1 pair CABLE TIE -- 4 pcs SCREW PM3x12mm -- 4 pcs SCREW PWA2.3x8mm -- 4 pcs WASHER d3xD7mm -- 4 pcs M3 NUT -- 4 pcs
- 4. RUDDER -- 1 pc. FUSELAGE -- 1 pc.
- 5. STABILIZER & ELEVATOR -- 1 set
- 6. MAIN LANDING GEAR -- 1 set LANDING WIRE STRAPS (PL4114030) -- 2 pcs MAIN WHEEL Ø40mm -- 2 pcs COLLAR Ø2.6mm w/ set screw -- 4 sets SCREW PA2x8mm -- 4 pcs
- FRONT LANDING GEAR -- 1 set
   PLASTIC COLLAR d1.1xD5x2mm -- 2 pcs
   FRONT WHEEL Ø23mm -- 1 pc.
   SCREW PA2x8mm -- 2 pcs
- PUSHROD Ø1.2x440mm w/Threads (For Rudder Servo) -- 1 pc.
  HORN -- 1 set.
  SCREW PM2x12mm -- 2 pcs
- 9. PUSHROD Ø1.2x533mm w/ Threads (For Elevator Servo) -- 1 pc. HORN -- 1 set SCREW PM2x8mm -- 2 pcs SCREW PA2x5mm -- 3 pcs PVC GOVER 0.5mm -- 1 pc.

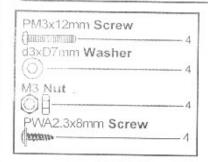
- 10. PUSHROD Ø0.8x206mm (For Front Landing Gear) -- 1 pc. PLASTIC TUBE d2xD3x140mm -- 1 pc. CLEVIS (d1.2mm) -- 2 pcs FUEL TUBE d2XD4x4mm -- 2 pcs PLYWOOD 2x9.4x15mm -- 1 pc. BATTERY TIE 200mm -- 1 pc. SPONGE 10x50x150mm -- 1 pc.
- 11. EYE SCREW PA2.5x10x23mm 2 pcs WING TUBE d9.6x284mm – 1 pc. RUBBER BAND D30x1mm – 2 pcs
- COCKPIT -- 1 pc.
   PILOT (PC101042A) -- 2 pcs
- 13. DECAL -- 1 set
- COVERING:- LIGHTEX SGX 540 PEARL GREEN
   LIGHTEX SGX 331 CUB YELLOW
   LIGHTEX SGX 100 WHITE

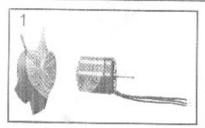


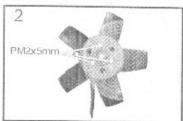


### 3 Ducted Fan Propulsion Unit with 28/31 Motor)

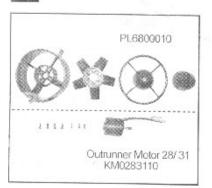
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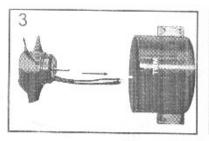


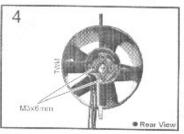




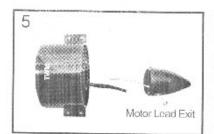
#### N.I. Optional Parts



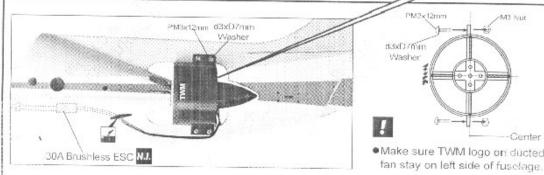


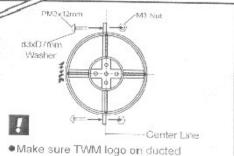


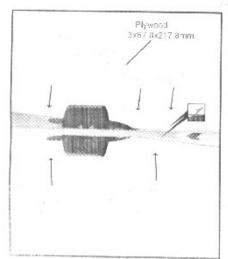
Make sure rotating motor casing is not in contact with wiring or anything.

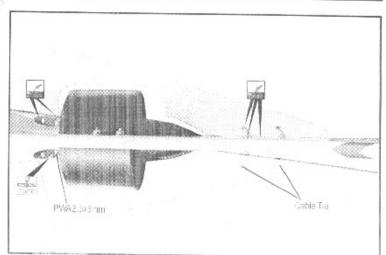






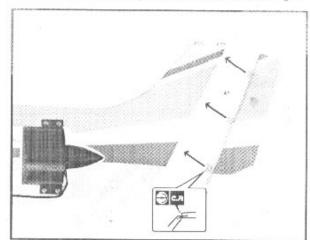


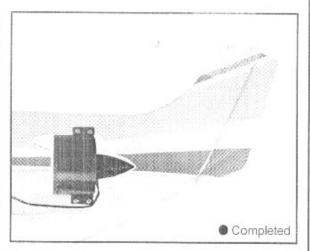




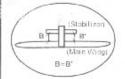


Apply instant type CA glue to both sides of each hinge.

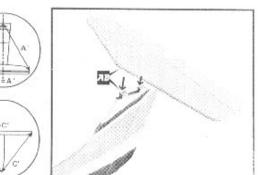


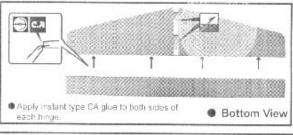


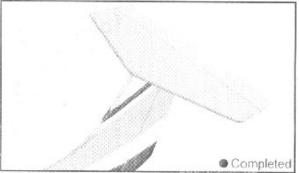
#### 5 Stabilizer & Elevator



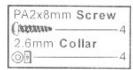
Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.

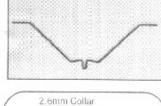


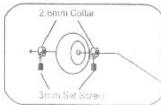


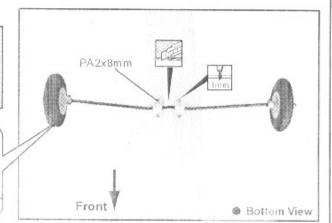










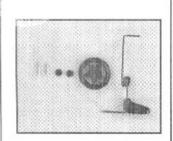


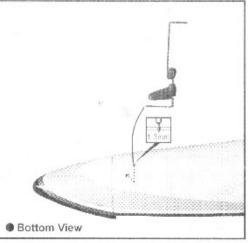


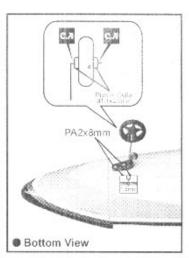


● Ø1mm pilot hole is pre-drilled. Please look for pin-hole marks at under side of fuselage.





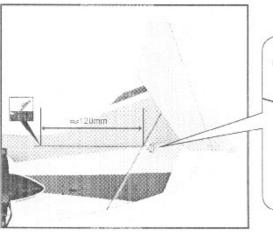


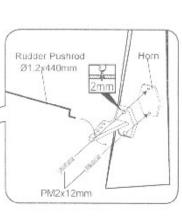




Ø1mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

PM2x12mm Screw DEELEN -



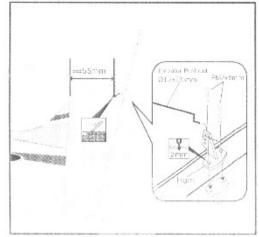


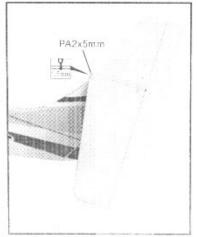
### Elevator Pushrod

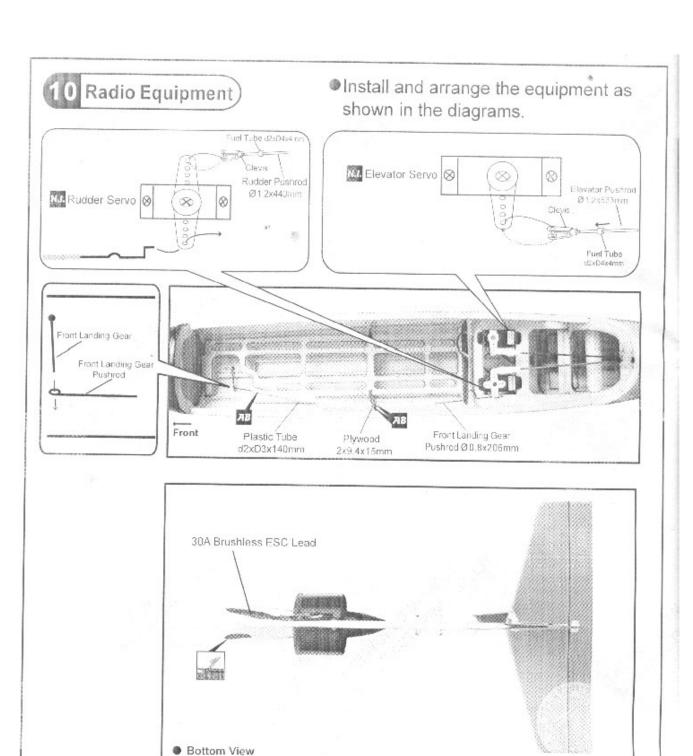
Ø1mm pilot holes for World Models horn are pre-drilled. Please look. for pin-hole marks at under side of control surfaces.

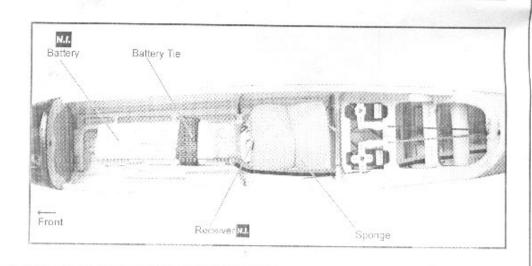
PM2x8mm Screw — аппецияния — PA2x5mm Screw





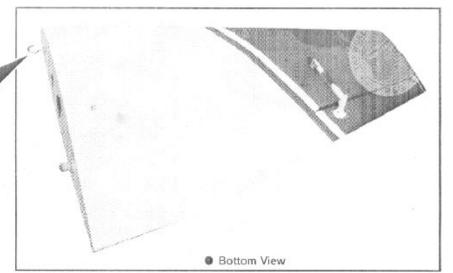


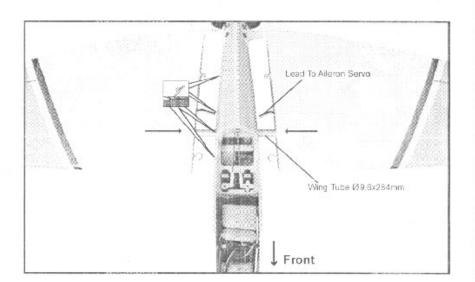




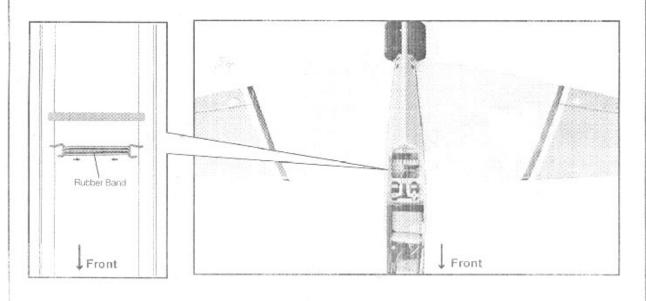
## 11 Main Wing



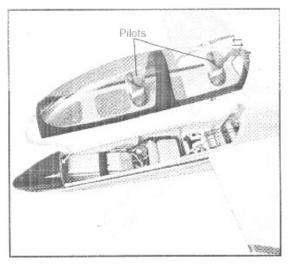


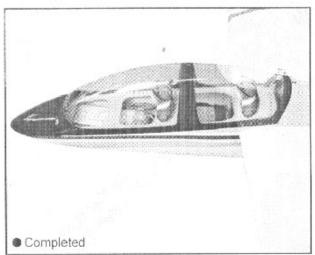






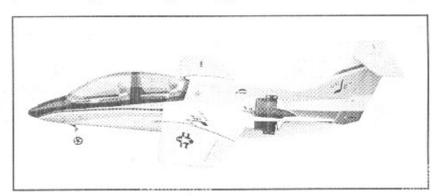
### 12 Cockpit

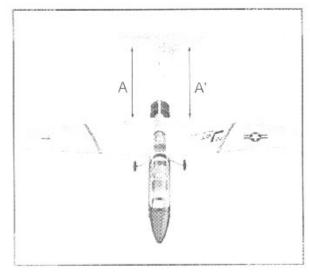


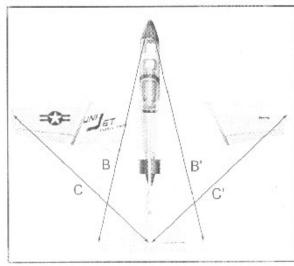


### 13 Wing Setting

Adjust the wing and fuselage configuration as shown in the diagrams.



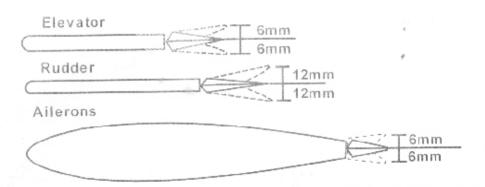




A=A' B=B' C=C'

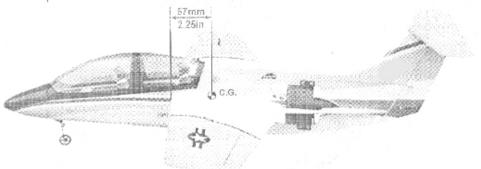
### 14 Control Throws)

Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.



15 C.G.

• The ideal C.G. position is 57mm ( 2.25in ) behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.





#### Important Safety Precautions

- # First time flyer should never fly by himself / herself. Assistance from experienced flyer is absolutely necessary.
- # Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.
- # Dragonfly is designed for high speed flying. Too low an air speed during take off or landing may cause tip stall. Point the Dragonfly towards the wind, use full throttle and let the Dragonfly gain enough ground speed before pulling the elevator gently for take off. For landing, approach against the wind, maintain power to the ducted fan to keep enough air speed before touch down.
- # Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.
- # If you find wrinkles on the covering as a result of weather changes, you can use hot iron to remove the wrinkles. Please begin with lower temperature setting and gradually raise the temperature until the wrinkles are gone. Too hot an iron may damage the covering. Don't use hot iron near the seams or edges, hot iron will melt the glue and shrink the covering at the same time, causing the seams to pull away.
- # Check and re-tighten up all factory assembled screws, use thread locker if necessary.