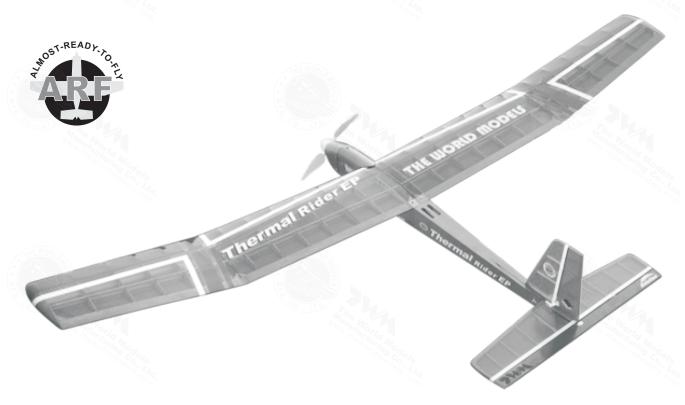
Thermal Rider EP



Requires: 3-channel radio w/ 2 mini servos, Outrunner Motor KM0283010 w/ Propeller Adaptor HW2340100 20A brushless ESC, 3 cells 11.1V 2100mAh Li-Po battery & charger.

Specifications

Wing Span 78 in / 1980 mm
Wing Area 665 sq in / 42. 9sq dm
Flying Weight 32 oz / 900g

Fuselage Length 40 in / 1020mm

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.



^{*}Specifications are subject to change without notice.*

Thermal Rider EP

INDEX-

BEFORE YOU BEGIN		P.1
PARTS LIST		P.2
ASSEMBLY		P.3-9
SAFETY PRECAUTIONS		P.9
	\	

BEFORE YOU BEGIN

- Read through the manual before you begin, so you will have an overall idea of what to do.
- 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.
- 3 Symbols used throughout this instruction manual comprise of the following : -
 - Apply epoxy glue.

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

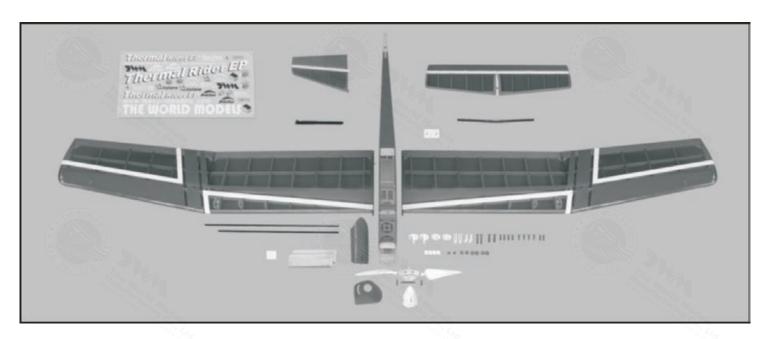
 N.I. Must be purchased separately!

 L/R 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! Warning! Do not overlook this symbol!



Parts list

- MAIN WING—1 set
 WING JOINER Ø6x226mm—1 pc.
- 2. STABILIZER & ELEVATOR--1 set
- 3. VERTICAL FIN & RUDDER--1 set
- PUSHROD Ø1. 4x618mm w/ Threads (For Elevator) —1 pc.
 SCREW PB2x10mm—2 pcs
 FUEL TUBE d2xD4x4mm—1 pc.
 CLEVIS—1 pc.
 HORN—1set
- PUSHROD Ø1. 4x563mm w/ Threads (For Rudder) —1 pc.
 SCREW PB2x10mm—2 pcs
 FUEL TUBE d2xD4x4mm—1 pc.
 CLEVIS—1 pc.
 HORN—1set
- SCREW PM3x6mm -- 4 pcs
 WASHER d3xD7mm -- 4 pcs
 FOLDING RPOPELLER SET PL6314020 -- 1 set
 COWLING -- 1 pc.
 SCREW PWA2X8 mm -- 4pcs
 SPINNER Ø45mm -- 1 set

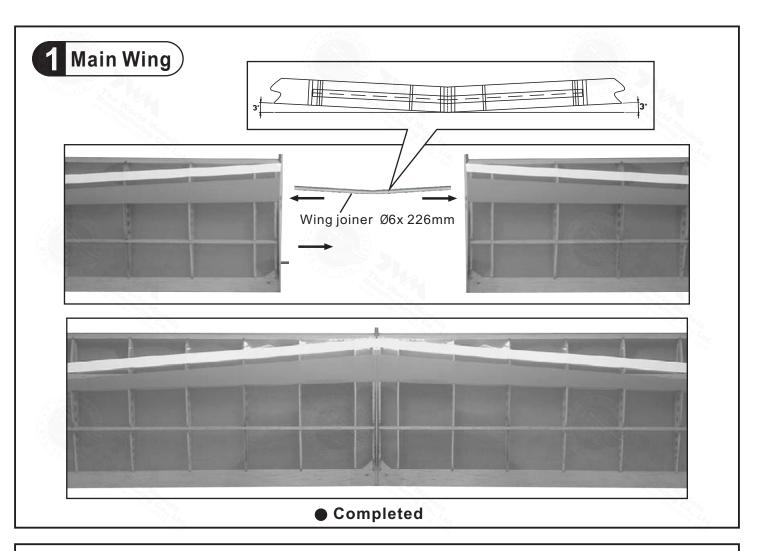
- 7. SPONGE 10x50x150mm--2 pcs

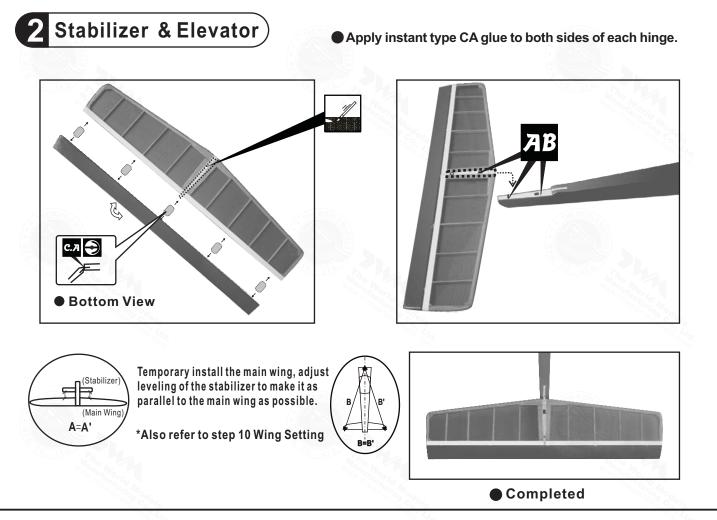
 DOUBLE-SIDED TAPE (30x35mm) --1 pc.

 BATTERY TIE--1 pc.

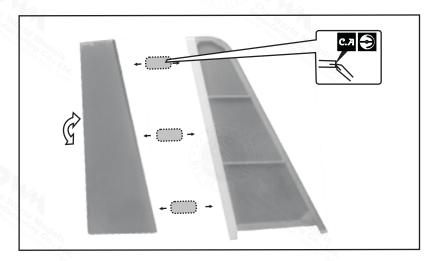
 STRAPER--2 pcs

 FUEL TUBE d2xD4x4mm--2 pcs
- PVC PLATE 0. 8x25x55mm (Wing Protection) -- 1 pc.
 WASHER d2. 5xD8mm--2 pcs
 SCREW PM2. 5x16mm--2 pcs
- 9. CANOPY--1 set
- 10. DECALS: DECE201 -- 1 set
- 11. COVERING:
 LIGHTEX SGX 312 Bright Red
 LIGHTEX SGX 040 Transparent Green
 LIGHTEX SGX 100 White
 LIGHTEX SGX 330 Cadmium Yellow
 LIGHTEX SGX 000 Transparent
 LIGHTEX SGX 240 Green

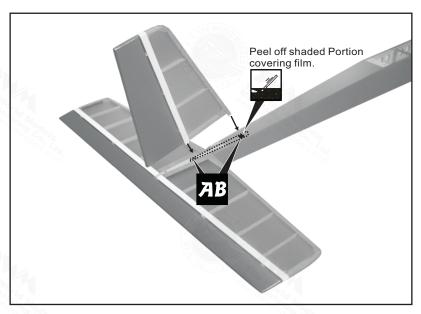


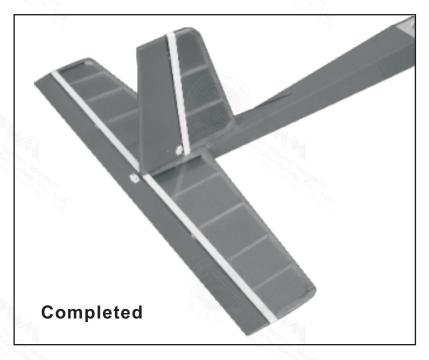


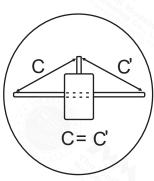
3 Vertical Fin & Rudder



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



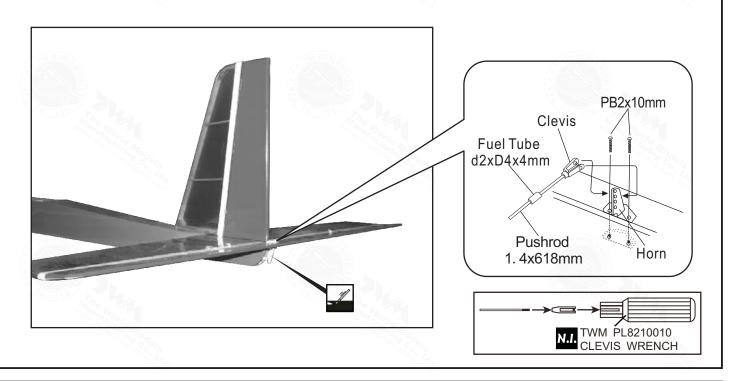




4 Elevator Pushrod



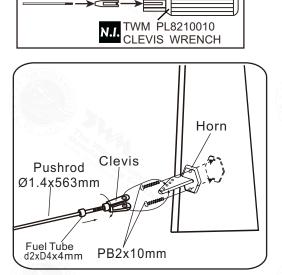
 Ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

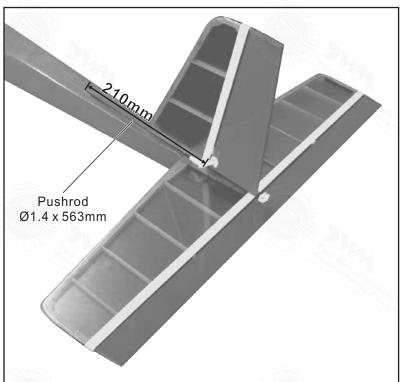




PB2x10mm Screw

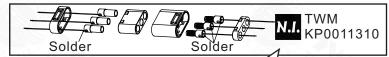
(DEPARTMENT .

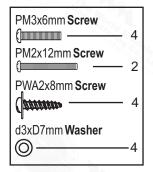




Ø1mm pilot holes for World Models tri-horn are pre-drilled.
 Please look for pin-hole marks at side of control surfaces.

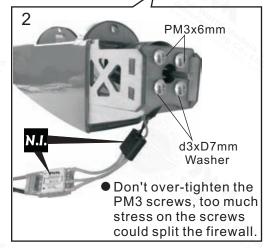
6 Motor / Cowling Setting)

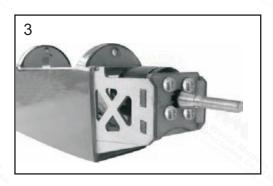


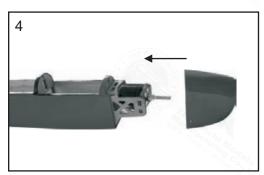


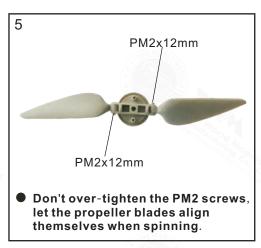


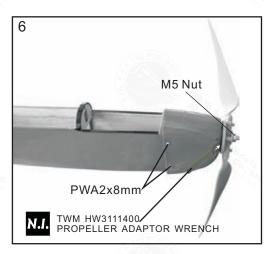


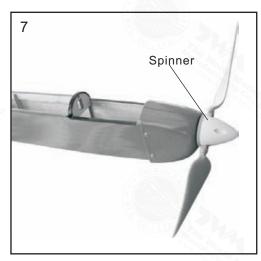




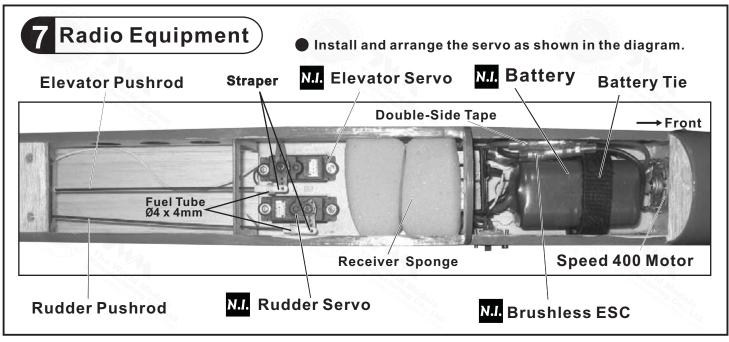


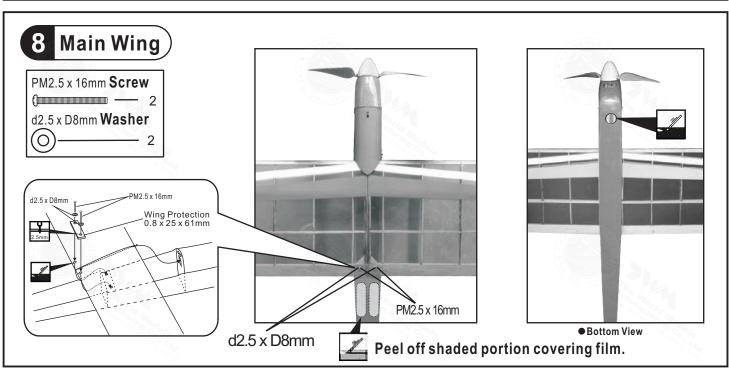


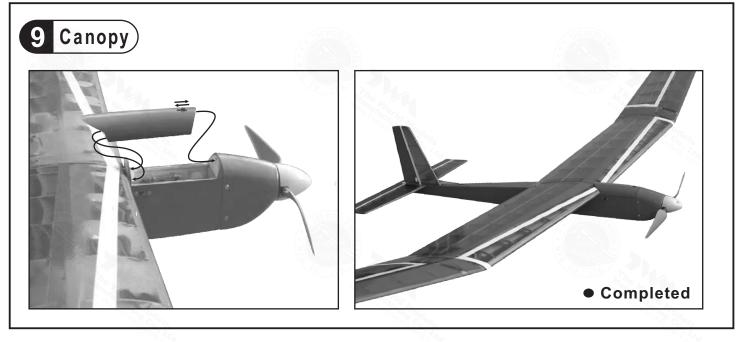






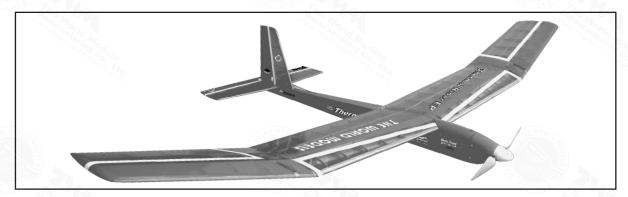


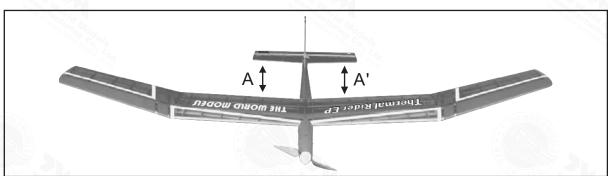


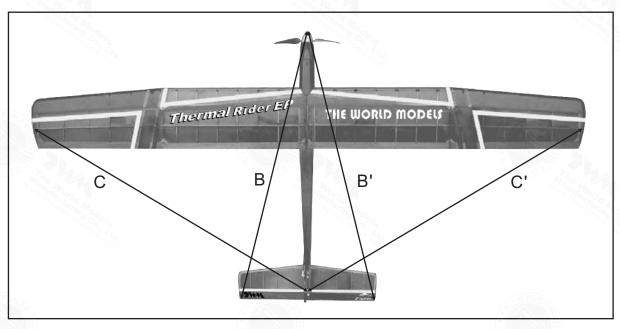




• Adjust the wing and fuselage configuration as shown in the diagrams

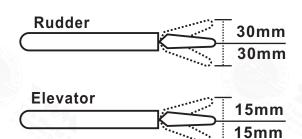






A=A' B=B' C=C'

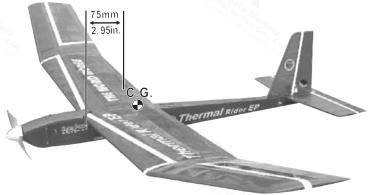
11 Control Throws



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



The ideal C.G. position is 75mm (2.95 in.) 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.



http://www.theworldmodels.com/para/instruction/instructionManuals.php



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.
- # Thermal Rider EP is specially designed to be powered by KM0283010 Outrunner Motor.
- # Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller. Extreme caution should be exercised when working with electric powered models. Make sure the propeller is cleared of all objects, especially your hands before connecting the battery to the model. Make sure you understand the operation of the ESC (Electronic Speed Control) by studying the ESC manual. Once you plug in the battery for electric powered model, always treat the propeller as a rotating one, as accidental movement of the throttle stick will spin the propeller and could cause injuries.
- # 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.

Product Registration Form (US Customers)

We would like to share with you any relevant information regarding your model, including product news and free upgrade parts when applicable. Please fill in the following and send to AirBorne Models, 4749-K, Bennett Drive, Livermore, CA 94551 USA.

1. Name:	
2. Address:	
3. Phone #:	E-mail:
4. Model:	
	Fuselage QC#ped on wing and fuselage)
5. Date of Purchase:	
6. Store Name:	

Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.

Optional Parts

(ACCESSORIES)

3 - Pin EZ Connector



-ideal for electric models

2 - Pin EZ Connector



-ideal for electric models

Propeller Adaptor Wrench



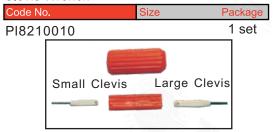
Brushless ESC

Code No.



- Voltage Range : 5.6 ~ 16.8V
- Current : 25A continuous Current (Burst, >10 seconds): 35A Weight : 24 g
- (with wires and connector)
- BEC: 5V / 2A
- Low Voltage Cut-off : /
 Light weight with low internal resistance for high current operation
- BEC function for Li-ion / Li-poly
- 2 4 cells; Nimh / Nicd 5 12 cells operation.
- Low battery voltage auto cut off to reserve power to the servos.
- Safe start up motor.

Clevis Wrench

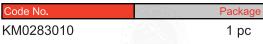


Special tool for clevis installation. Suitable for standard and small (EP) clevis.

Propeller Adaptor



Outrunner 28/30

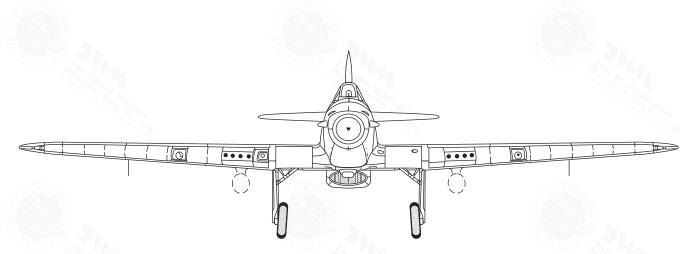




- -Max speed: 12000 rpm
- -Kv (rpm/V): 1015 -Operating Power: 180W
- -Operating Voltage: 6-12V
- -Operating Current: 15A -Peak Current: 20A (max. 15 sec.)
- -Internal Resistance: 95 m ohms
- -Diameter: 28mm

- -Length: 30mm -Weight: 60g -Shaft Diameter: 3mm
- -Shaft Length: 14.8 mm -Mounting Screw: M3
- -Distance of Mounting Holes:

Front (16mm and 19mm)



Ducted Fan

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer Boat

Accessories

Covering

(Lightex / Toughlon)

