ZERO/ THUNDER BOLT P-47/ SPITFIRE / YAK-9D



0.25-0.32 cu. in. displacement 2-stroke Requires: 4-channel radio w/ 4 standard servos



Specifications

Wing Span Wing Area Flying Weight Fuselage Length 48.0 in / 1220mm 437 sq in / 28 sq dm 3.0 lbs / 1400g 41.0 in / 1040mm

* 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 engine 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.



THE WORLD MODELS
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FACTORY PRE-FABRICATED ALMOST-READY-TO-FLY (ARF) SERIES MADE IN CHINA www.theworldmodels.com



ZERO / THUNDER BOLT P-47 / SPITFIRE / YAK-9D ——INDEX

BEFORE YOU BEGIN		** MFG. 1
PARTS LIST		P. 2
ASSEMBLY		P. 3 - 11
SAFETY PRECAUTIONS	RIP III II	P. 11

BEFORE YOU BEGIN

- Read through the manual before you begin, so that you can 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: -
 - AB

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!



MFG.

Parts List

- 1. MAIN WING -- 1 pair
- 2. WING JOINER 77.5x23.8x5.8mm -- 1 pc. RING Ø2.3mm(For Aileron)--2 pcs
- 3. PLYWOOD 3x25x80mm(Wing Protection) -- 1 pc.
- 4.PLYWOOD 3x8x22mm(For Aileron Servo) -- 1 pc.

5.FUEL TUBE Ø6x5mm--4 pcs STRAPER --2 pcs CLEVIS--2 pcs PUSHROD Ø1.8x90mm w/ Threads(For Aileron Servo) --2 pcs

6.MAIN LANDING GEAR -- 1 set FUSELAGE --1 pc.
MOUNTING PLATE 12x20mm --2 pcs SCREW PA3x10mm --4 pcs

7.MAIN WHEEL Ø45mm -- 2 pcs COLLAR Ø3.1mm/ set screw - 2 pcs

8.STABILIZER & ELEVATOR --1 set SCREW PWA2.3X12mm --2 pcs TAIL LANDING GEAR - 1 pc. MOUNTING PLATE PL4114015 -- 1 pc.

9.VERTICAL FIN & RUDDER --1 set

10.FUEL TANK 200cc -- 1 set BALSA 8x8x72.5mm(For Fuel Tank Position Fixing)--1 pc.

11.ENGINE MOUNT PL5111-030 -- 1 set SOCKET HEAD SCREW M3x25mm -4 pcs WASHER d3xD7mm --4 pcs

12.SCREW PM3x25mm --4 pcs WASHER d3xD7mm --8 pcs M3 NUT --8 pcs
THROTTLE PUSHWIRE Ø1.2x340mm -- 1 pc.
PLASTIC TUBE d2xD3x220mm --1 pc

13.COWLING --1 pc. TRANSPARENT 3D TEMPLATE --1 pc SPINNER Ø52mm --1 pc SILICON GROMMET d1.5x6.5mm(For Cowling) --4 pcs SCREW PWA2.6x12mm - 4 pcs

14.SCREW PM2x12mm -- 2 pcs FUEL TUBE Ø5x6mm -- 1 pc. CLEVIS -- 1 pc. HORN -- 1 set PUSHROD Ø1.8x575mm w/ Threads(For Elevator Servo)-1 pc. 15.SCREW PA2x12mm -- 2 pcs FUEL TUBE Ø5x6mm -- 1 pc. CLEVIS -- 1 pc. HORN -- 1 set PUSHROD Ø1.8x575mm w/ Threads(For Elevator Servo)-1 pc.

MFG.

16.PLYWOOD 3x77x119mm(For Fuselage Servo)--1 pc. BALSA 5x5x116mm(For Fuselage Servo) -- 1 pc.

17.LINKAGE CONNECTOR Ø2.1mm--1 set

18.FUEL TUBE Ø6x5mm --2 pcs STRAPER --2 pcs SPONGE 10x80x200mm -- 1 pc.

19.CANOPY--1 pc. SCREW PWA2.3x12mm --4 pcs SILICON GROMMET d1.5xD6.5mm --4 pcs PILOT PC001065B -- 1 pc.

20.SCREW PM3x25mm -- 2 pcs WASHER d3xD12mm --2 pcs

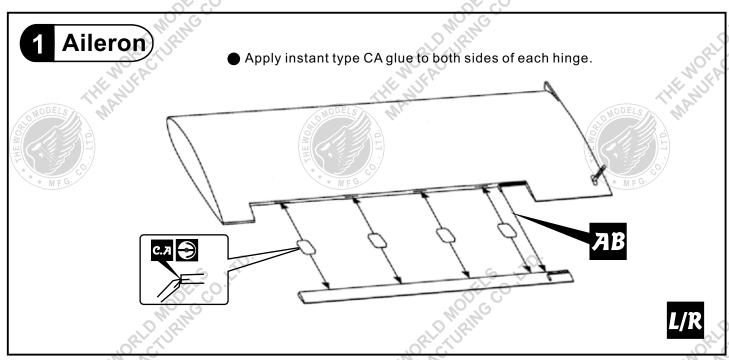
21.DECALS A091DEC (For ZERO) A092DEC (For THUNDER BOLT P-47) A093DEC (For SPITFIRE) A094DEC (For YAK-9D)

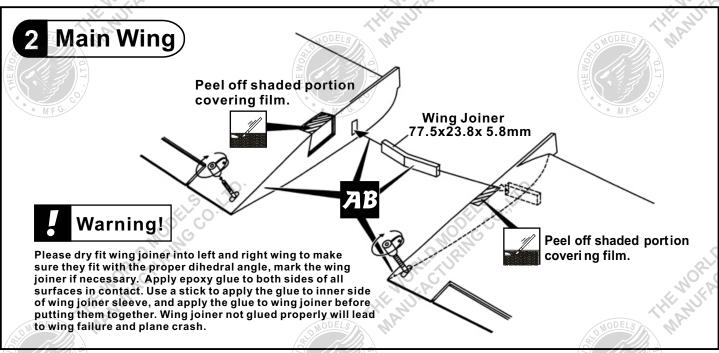
COVERING:--

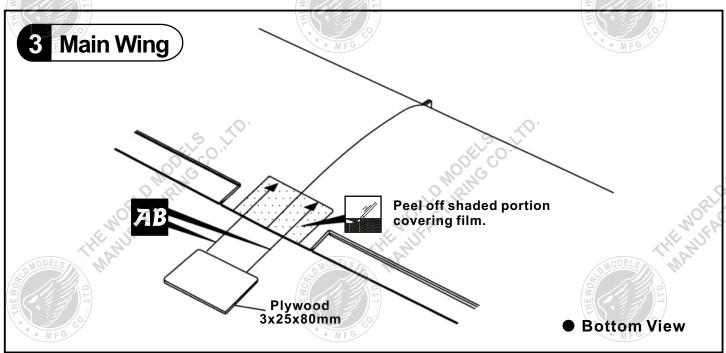
ZERO: LIGHTEX SGX 203 LIGHT GRAY
LIGHTEX SGX 340 OLIVE DRAB
LIGHTEX SGX 331 CUB YELLOW
LIGHTEX SGX 311 FERRARI RED
P-47: LIGHTEX SGX 203 LIGHT GRAY
LIGHTEX SGX 351 DARK BLUE
LIGHTEX SGX 351 DARK BLUE
LIGHTEX SGX 311 FERRARI RED
SPITFIRE: LIGHTEX SGX 203 LIGHT GRAY
LIGHTEX SGX 340 OLIVE DRAB
LIGHTEX SGX 331 CUB YELLOW
YAK-90: LIGHTEX SGX 203 LIGHT GRAY
LIGHTEX SGX 203 LIGHT GRAY
LIGHTEX SGX 204 GREEN LIGHTEX SGX 240 GREEN

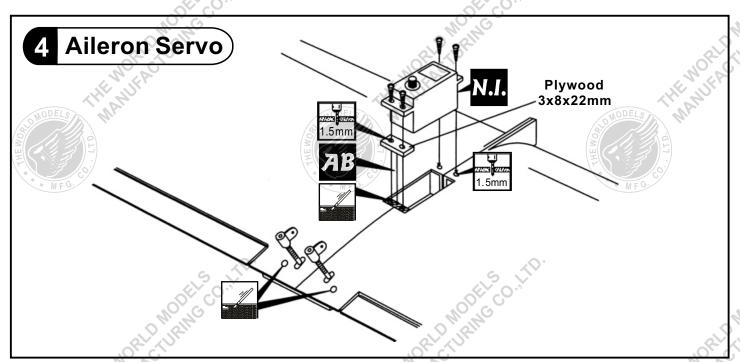


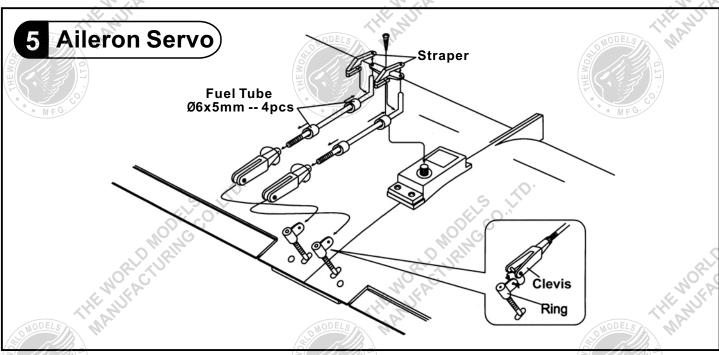
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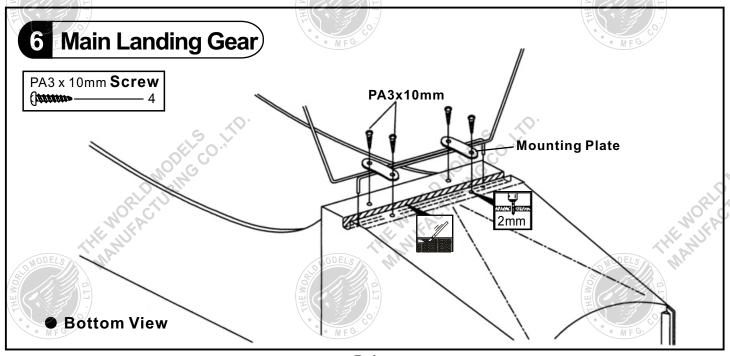


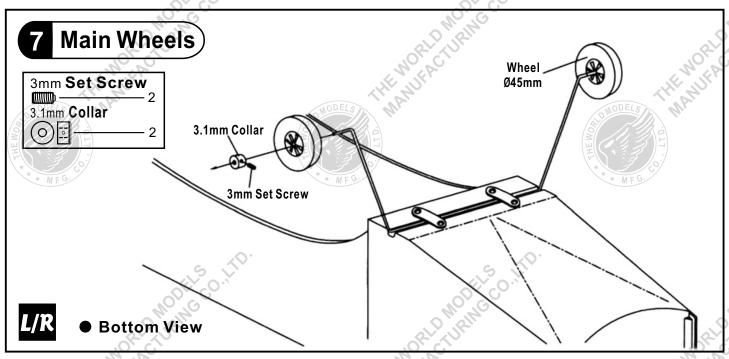


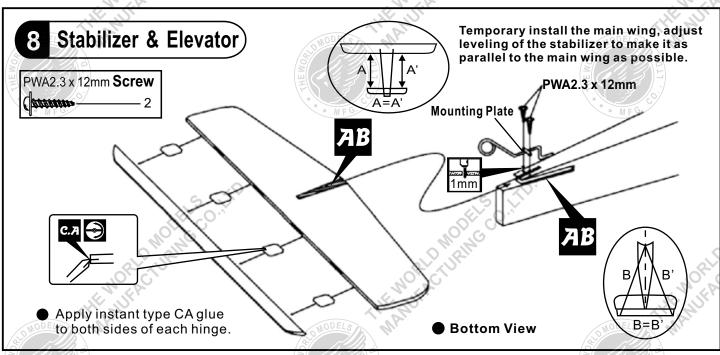


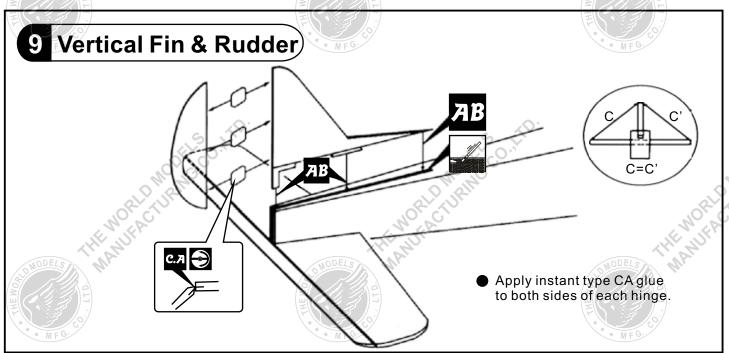


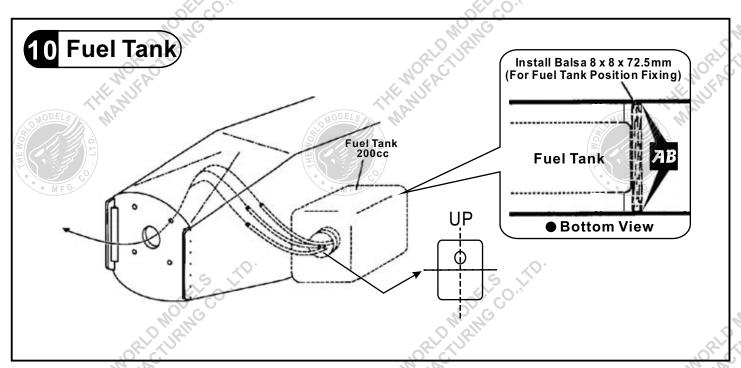


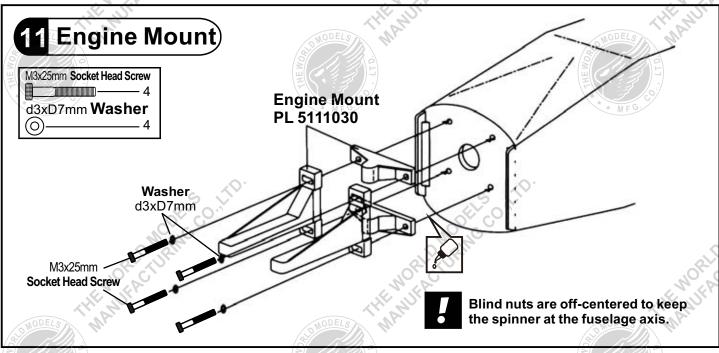


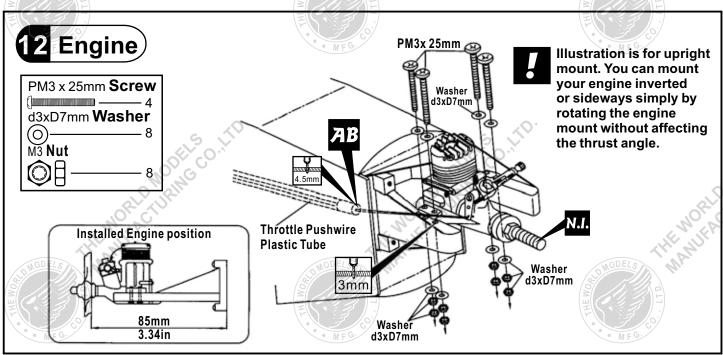


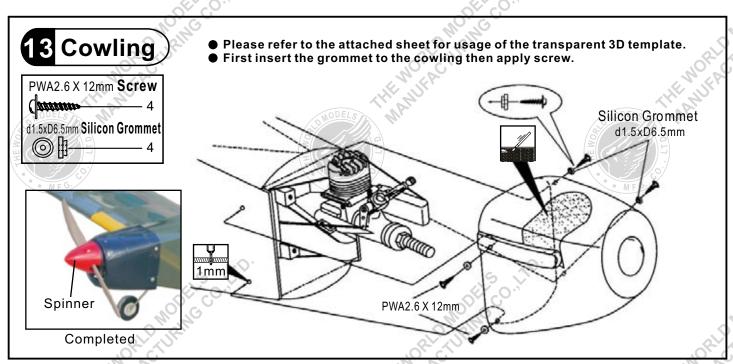


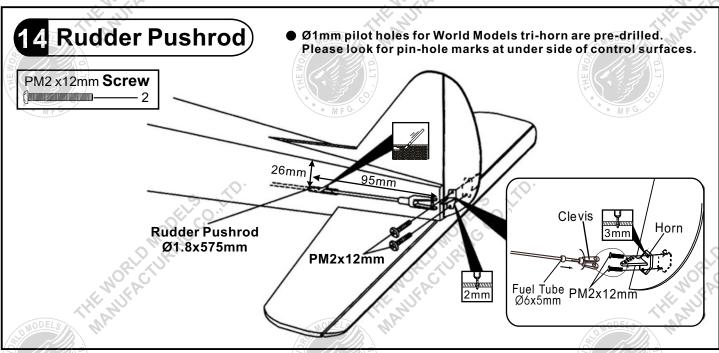


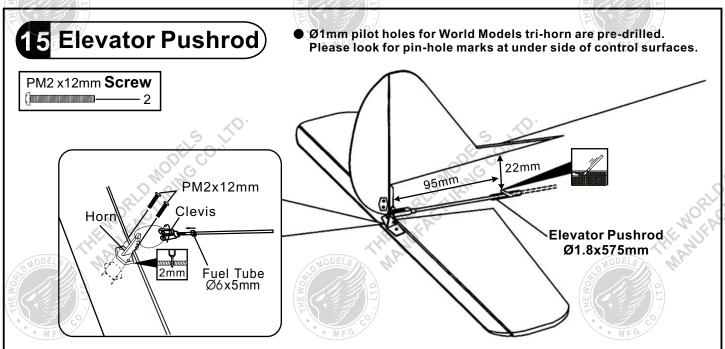


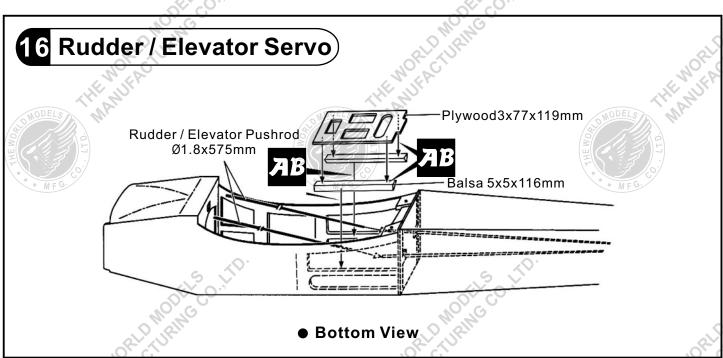


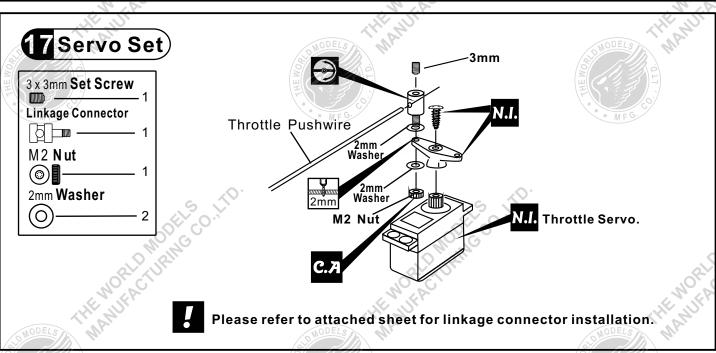


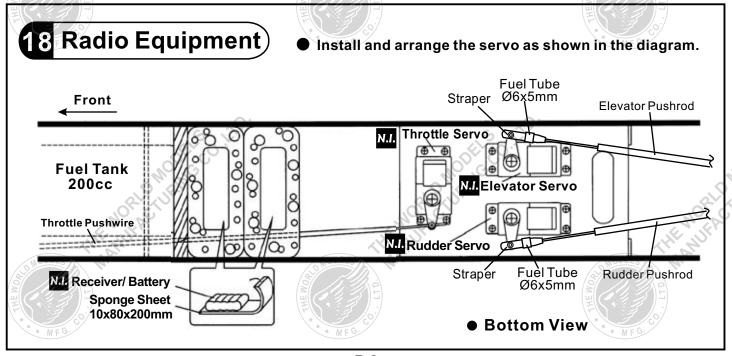


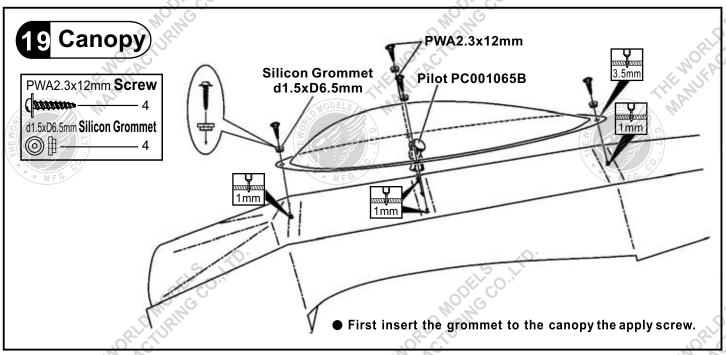


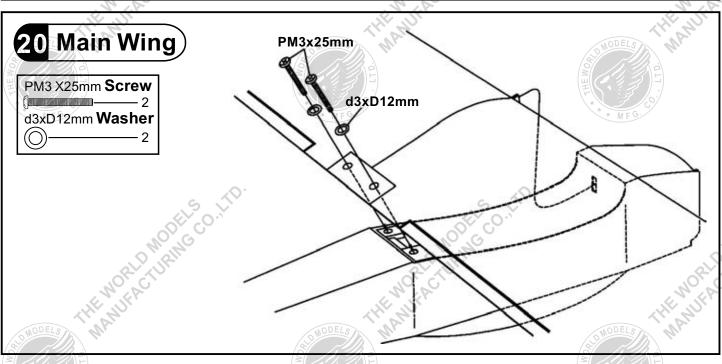


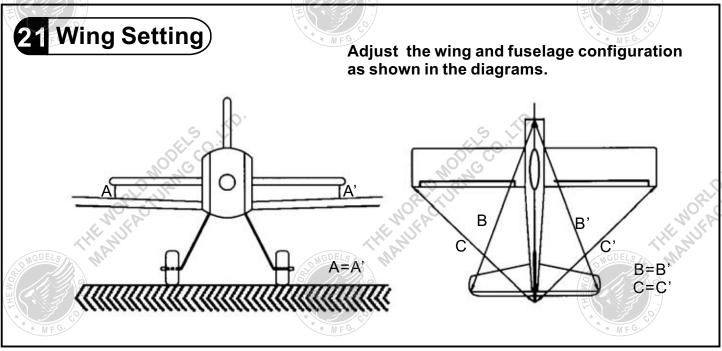


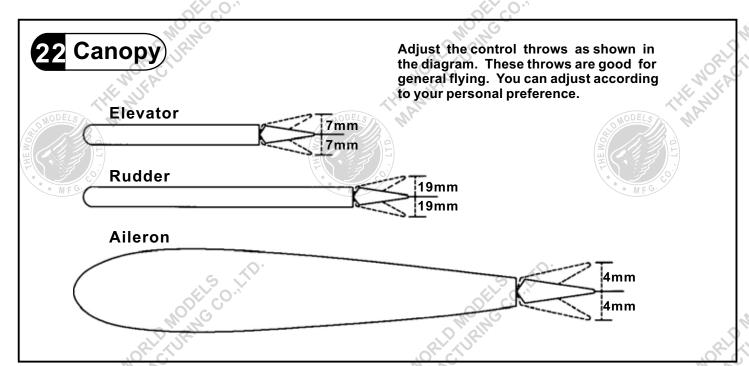


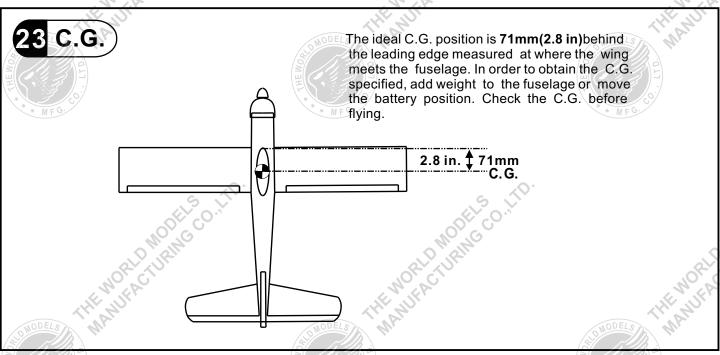














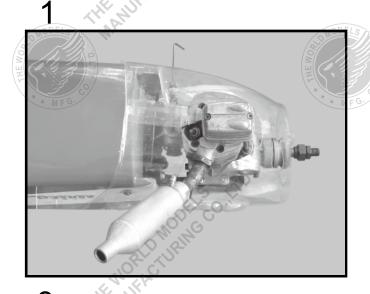
Important Safety Precautions

- #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.
- #ZERO / THUNDER BOLT P4-47 / SPITFIRE / YAK-9D is specially designed to be powered by 2C 0.25-0.32 engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause severe damage and injuries.
- #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 neat 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.

Usage of the transparent 3D template

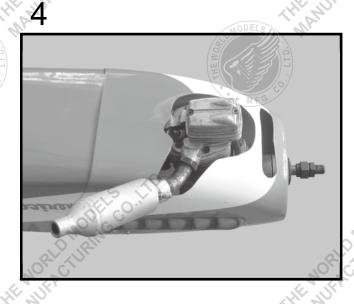


This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.



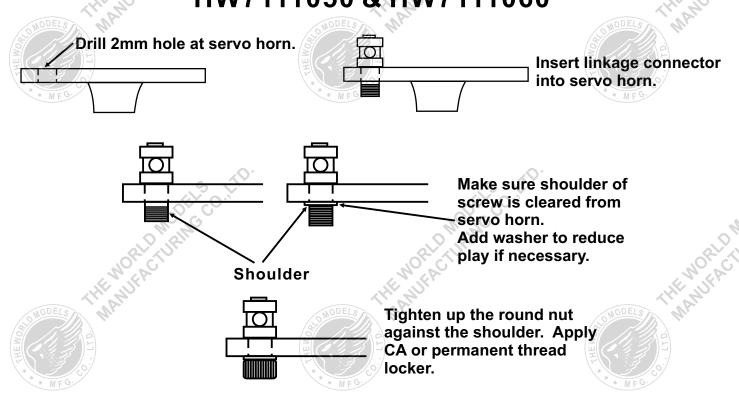






Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.

LINKAGE CONNECTOR HW7111050 & HW7111060



After fastening the round nut, make sure that the linkage connector can rotate freely.













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- 2. Address:
- 3. Phone #:______ E-mail: _____
- 4. Model:_____

Wing QC# _____ Fuselage QC# _____ (QC numbers are stamped on wing and fuselage)

- 5. Date of Purchase:
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