P-51 MUSTANG G.S.



1.60 cubic inch displacement 2-cycle (Glow)

1.80 cubic inch displacement 4-cycle (Glow)

Requires: 6-channel radio w/ 7 standard servos and 2 low profile retract servos

Specifications

Wing Span
Wing Area
Flying Weight
Fuselage Length

80.5 in / 2040 mm 1155 sq in / 74.5 sq dm 15 lbs / 6800 g 70.5 in / 1790 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 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.



P-51 MUSTANG G.S.

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BEFORE YOU BEGIN

- Read throuht the manual before you begin, so you will have an overall idea of what to do.
- 2 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:-

AВ	
----	--

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!

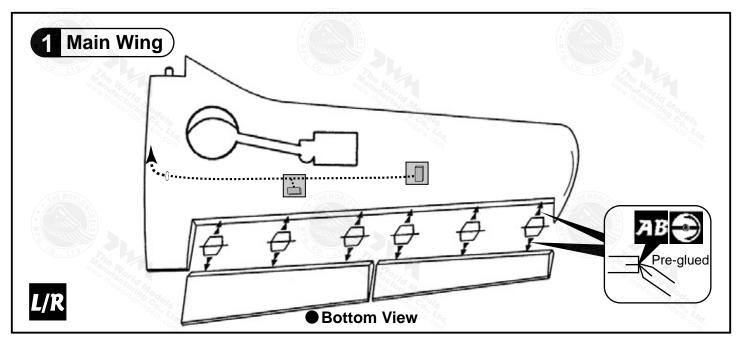


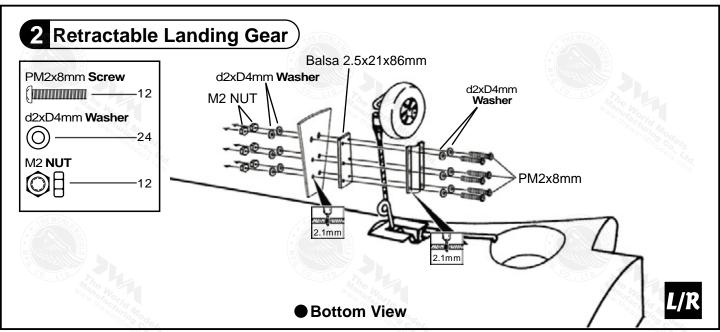
Parts List

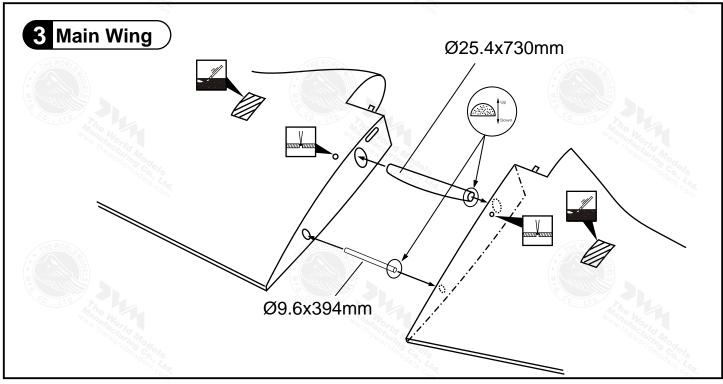
- 1. MAIN WING -- 1 pair
- 2. RETRACTABLE LANDING GEAR --1 set RETRACTABLE LANDING GEAR COVER -- 1 pair M2 NUT -- 12 pcs SCREW PM2x8mm -- 12 pcs WASHER d2xD4mm -- 24 pcs BALSA 2.5x21x86mm (For Main Wheel Cover) -- 2 pcs
- 3. WING TUBE Ø25.4x730mm -- 1 pc. WING TUBE Ø9.6x394mm -- 1 pc.
- 4. SCREW PM3x75mm -- 2 pcs WASHER d3xD7mm -- 8 pcs SCREW PM3x12mm -- 2 pcs M3 NYLON INSERT LOCK NUT -- 2 pcs M3 NUT -- 2 pcs ALUMINUM PLATE 2.3mm (For Main Wing) -- 4 pcs
- 5. LINKAGE CONNECTOR Ø2.1mm HW7111060 -- 2 sets COVERING FILM 45x80mm -- 2 pcs
- 6. SCREW PWA2x8mm -- 16 pcs PLYWOOD 2x65x80.5mm (Aileron & Flap Servo Stand) -- 4 pcs BALSA 8x18x21mm (For Aileron & Flap Servo) -- 8 pcs
- 7. SCREW PB2x30mm -- 6 pcs SCREW PB2x25mm -- 6 pcs FUEL TUBE Ø6x5mm -- 8 pcs STRAPER PL4112102 -- 4 pcs CLEVIS PL4112103 -- 4 pcs TRI-HORN M3x14mm (L) PL4111185 -- 4 sets PUSHROD Ø1.8x80mm w/ Threads (For Aileron Servos) -- 2 pcs PUSHROD Ø1.8x85mm w/ Threads (For Flap Servos) -- 2 pcs
- 8. FUSELAGE -- 1 pc. STRABILIZER & ELEVATOR -- 1 set STRABILIZER TUBE Ø9.6x260mm -- 1 pc. SCREW PWA3x12mm -- 2 pcs
- 9. SCREW PB2x20mm -- 6 pcs FUEL TUBE Ø6x5mm -- 2 pcs CLEVIS PL4112103 -- 2 pcs TRI-HORN M3x14mm (L) PL4111185 -- 2 sets PUSHROD Ø1.8x685mm w/ Threads (For Elevator) -- 2 pcs
- 10. VERTICAL FIN & RUDDER -- 1 set
- 11. TAIL LANDING GEAR PL7100002 -- 1 set TAIL WHEEL Ø30mm PL3111300 -- 1 pc. COLLAR Ø2.6mm w/ set screw -- 1 set SCREW PA3x12mm -- 2 pcs
- 12. SCREW PB2x30mm -- 3 pcs TRI-HORN M3x14mm (L) PL4111185 -- 1 set FUEL TUBE Ø6x5mm -- 1 pc. CLEVIS PL4112103 -- 1 pc. PUSHROD Ø1.8x845mm w/ Threads (For Rudder) -- 1 pc.
- 13. ENGINGE MOUNT PL5911120 -- 1 set SOCKTE HEAD SCREW M6x30mm -- 4 pcs WASHER d6xD15mm -- 4 pcs BLIND NUT M6xD18mm HW130600S -- 4 pcs WOODEN DOWEL Ø7x10mm (For Firewall) -- 4 pcs

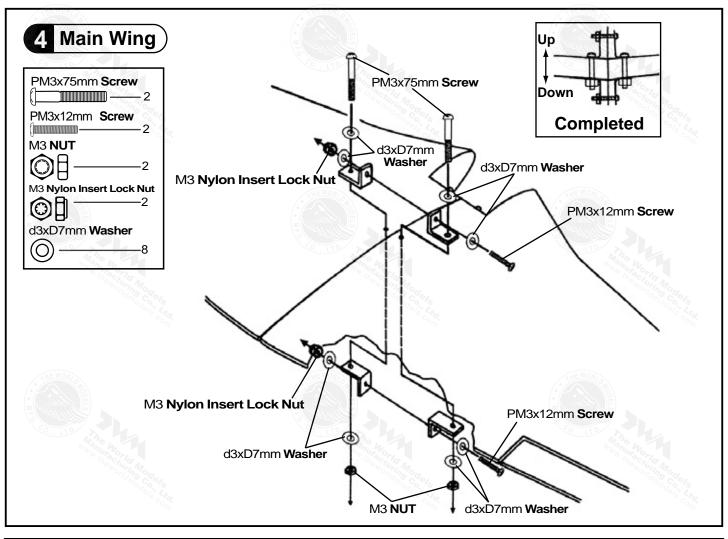
- 14. FUEL TANK 800cc PL1111810N -- 1 set CABLE TIE 1.5x8x400mm -- 1 pc. DOUBLE-SIDE TAPE 40x160mm -- 1 pc.
- 15. SPINNER (w/ alu.back plate) Ø127mm PH22W1270 --1 set THROTTLE PUSHWIRE Ø1.2x460mm -- 1 pc. PLASTIC TUBE d2xD3x280mm -- 1 pc. ANTI-VIBRATION MOUNT 4C-120 PL5214095 -- 1 set INCLUDE: SOCKET HEAD SCREW M4x35mm -- 4 pcs SCREW KM3x20mm -- 8 pcs WASHER d4xD12mm -- 8 pcs NYLON INSERT LOCK NUT M3 -- 8 pcs NYLON INSERT LOCK NUT M4 -- 4 pcs ALUMINUM PLATE 1x12x75mm (For Engine Mount) -- 1 pc.
- 16. COWLING -- 1 pc.
 TRANSPARENT 3D TEMPLATE -- 1 pc.
 SCREW PWA2.6x12mm -- 4 pcs
 SILICON GROMMET d1.5xD6.5mm PL1265035 -- 4 pcs
- 17. UNDER COWLING -- 1 pc. SCREW PWA2.6x12mm -- 2 pcs SCREW PWA2.3x8mm -- 6 pcs SILICON GROMMET d1.5xD6.5mm PL1265035 -- 8 pcs
- 18. LINKAGE CONNECTOR Ø2.1mm HW7111060 -- 1 set
- 19. PLYWOOD 3x41x152.5mm (For Throttle Servo Stand) -- 1 pc. PLYWOOD 3x10x20mm (For Throttle Servo Stand) -- 1 pc. PLYWOOD 6x10x41mm (For Throttle Servo Stand) -- 1 pc. PLYWOOD 9x40x142mm (For Elevator Servo Stand) -- 1 pc. PLYWOOD 9x40x142mm (For Rudder Servo Stand) -- 1 pc. BALSA 6x6x40mm (For Elevator&Rudder Servos Stand) -- 4 pcs PUSHROD CONNECTOR PL4410010 -- 1 set STRAPER PL4112102 -- 2 pcs FUEL TUBE Ø6x5mm -- 2 pcs PUSHROD Ø1.8x55mm (For Elevator) -- 1 pc. SPONGE 60x70x143mm (For Radio Equipment) -- 1 pc.
- 20. SCREW HM4x40mm -- 2 pcs WASHER d4xD15mm -- 2 pcs PLYWOOD 3x25x128mm (Wing Protection) -- 1 pc.
- 21. SCREW PWM3x13mm -- 3 pcs AIR SCOOP -- 1 pc.
- 22. CANOPY -- 1 pc.
 PILOT PC001102A -- 1 pc.
 DOUBLE SIDED TAPE 6x600mm -- 1 pc.
 SCREW PWA2.3x12mm -- 6 pcs
 SILICON GRONNET d1.5xD6.5mm PL1265035 -- 6 pcs
- 23. DCALS: A100SDEC -- 1 set
- ●COVERING:-

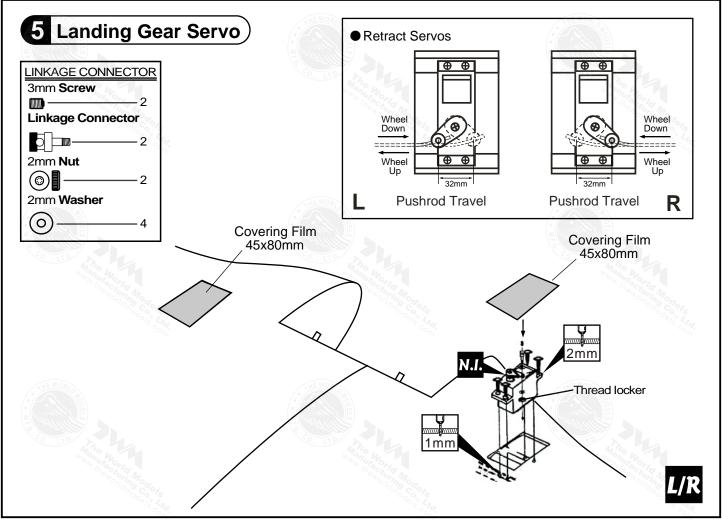
TOUGHLON STL100 WHITE
TOUGHLON STL201 BLACK
TOUGHLON STL312 BRIGHT RED
TOUGHLON STL330 CADMIUM YELLOW
TOUGHLON STL351 DARK BLUE
TOUGHLON STL370 SILVER

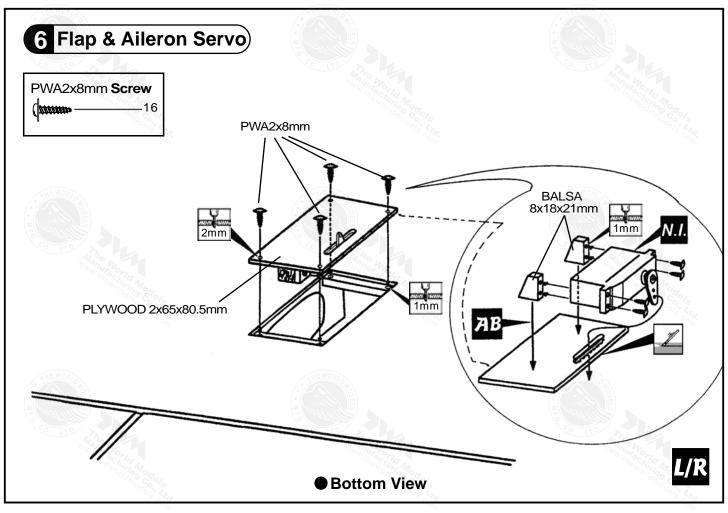


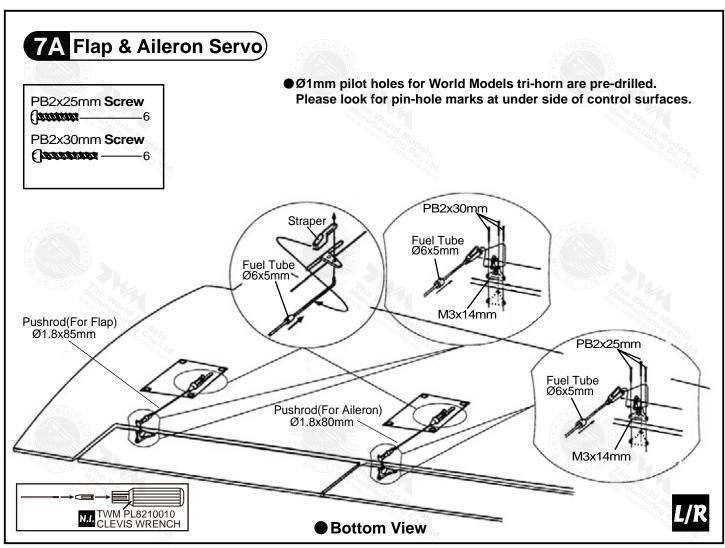


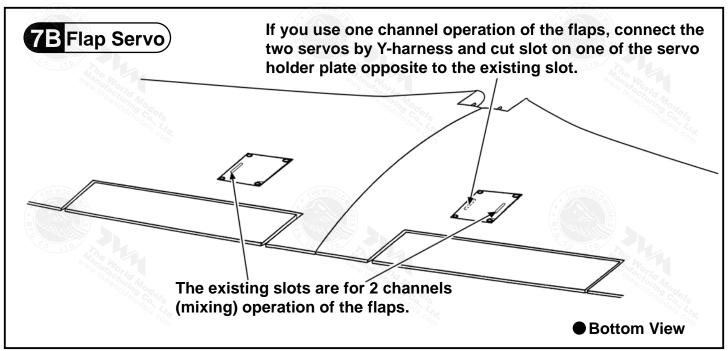


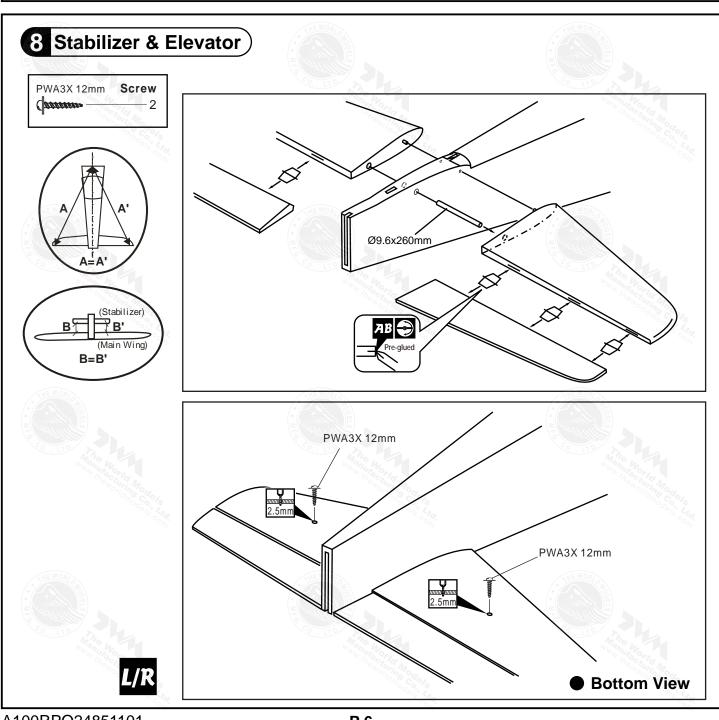


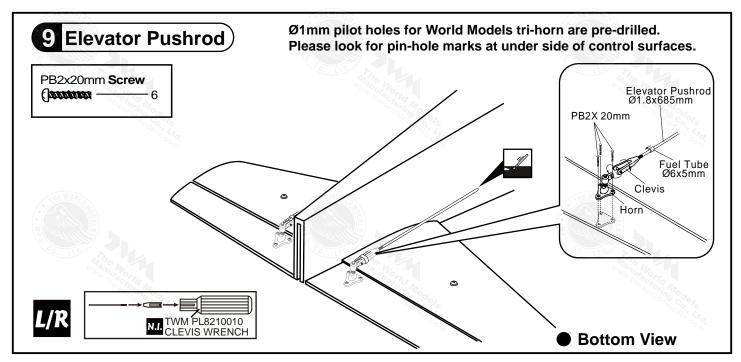


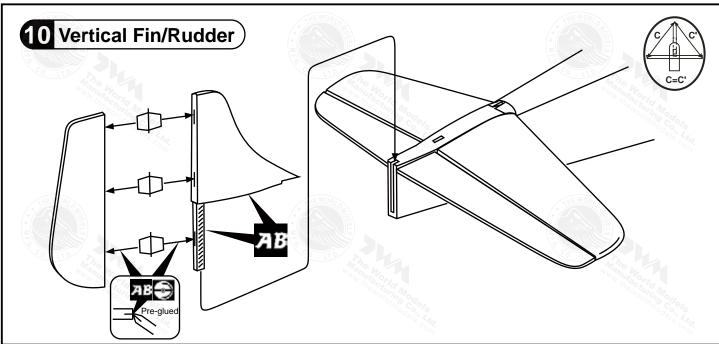


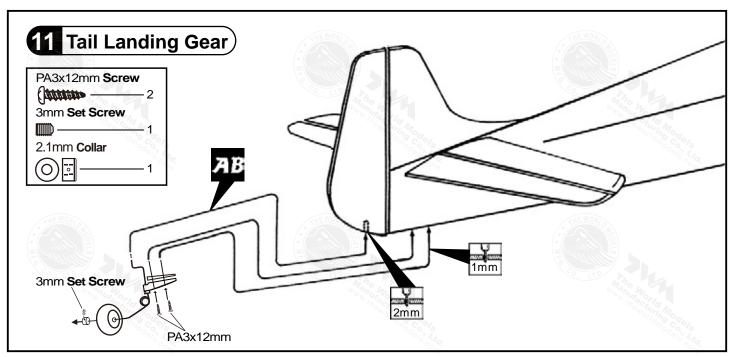


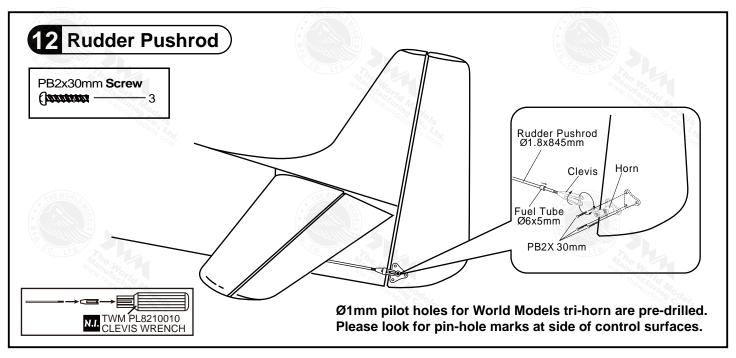


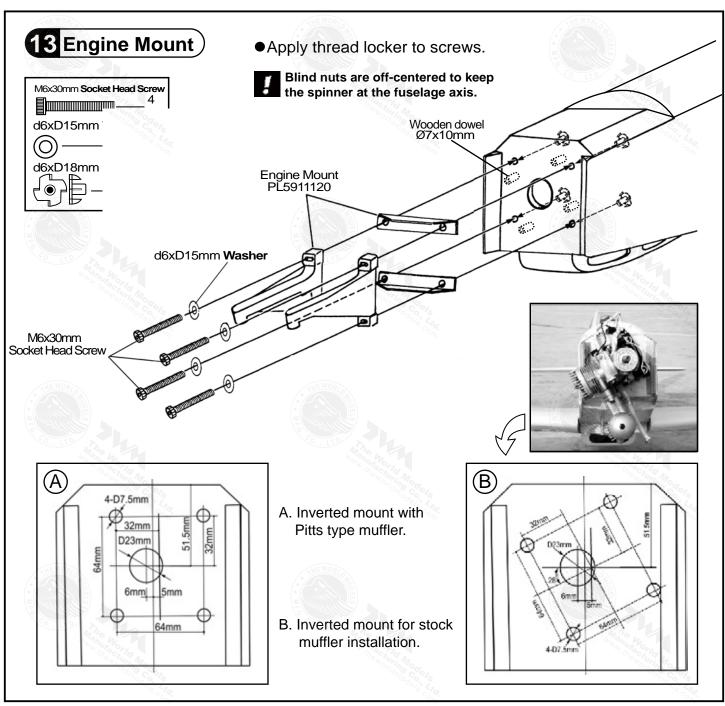


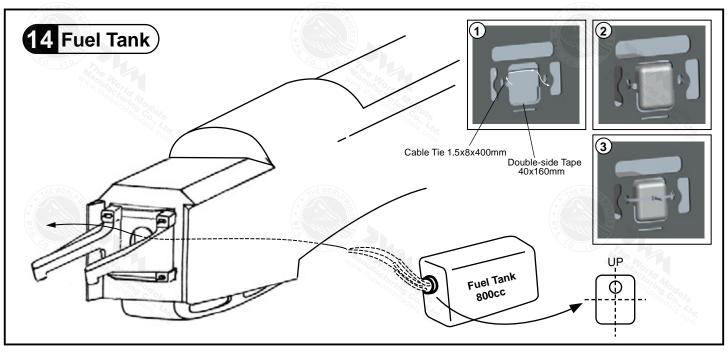


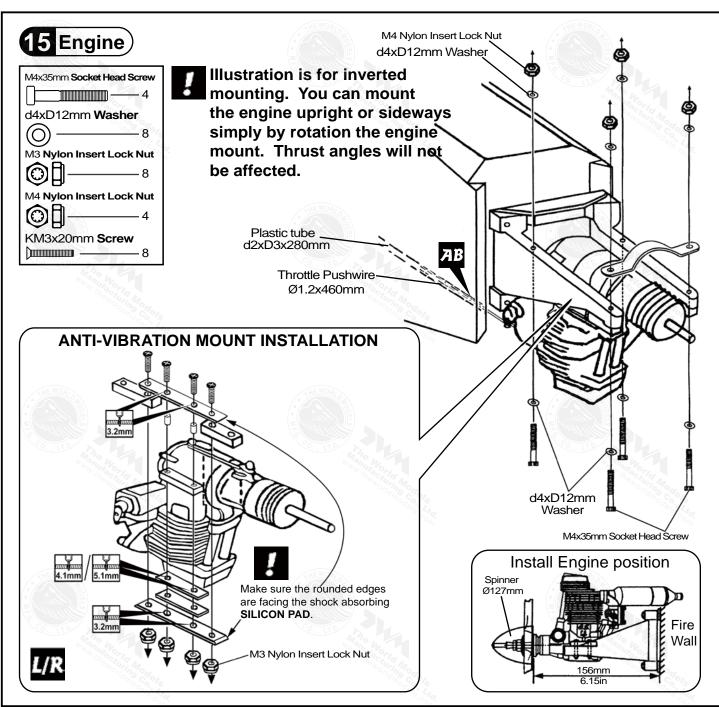


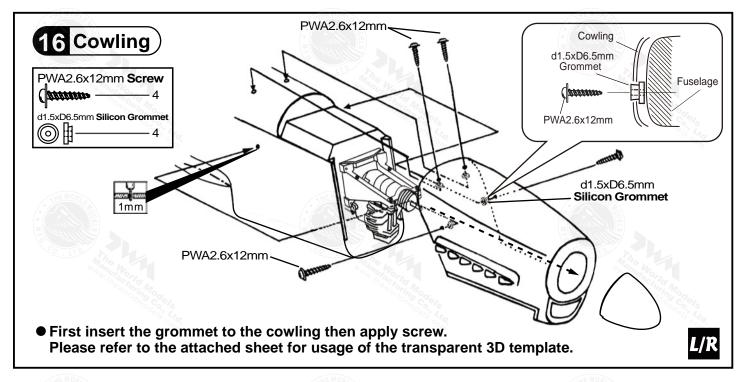


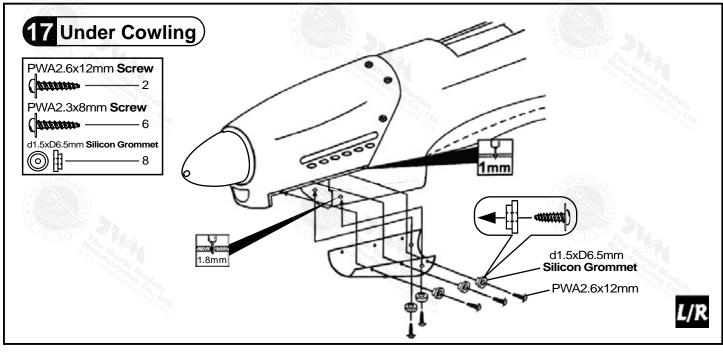


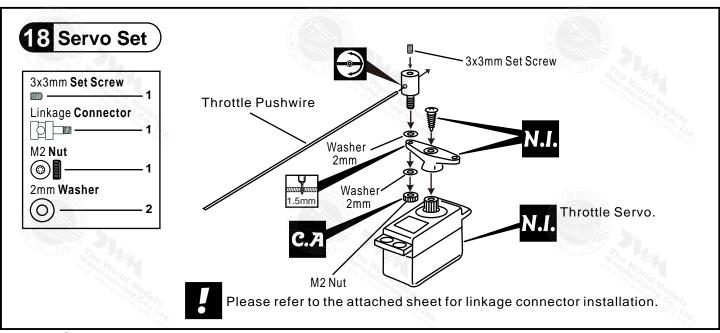






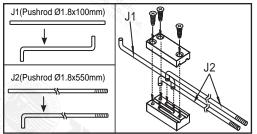


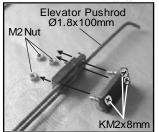


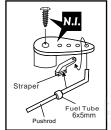


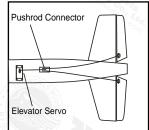
19 Radio Equipment

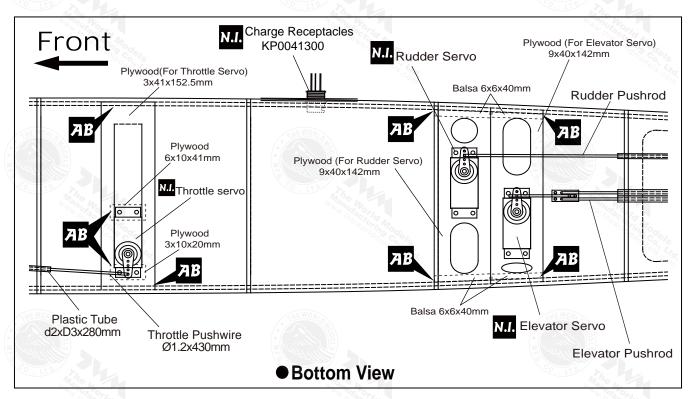
• Install and arrange the servos as shown in the diagram.

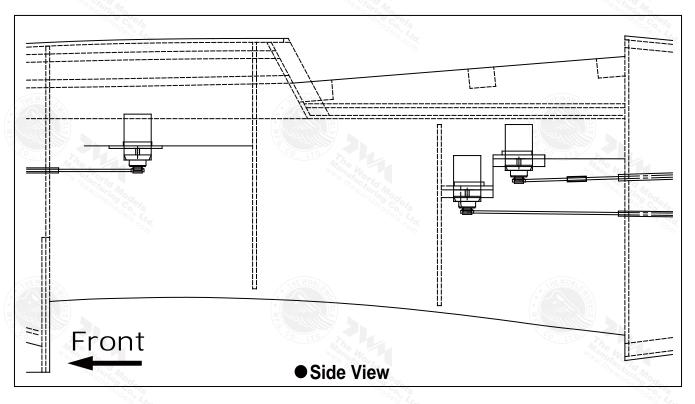


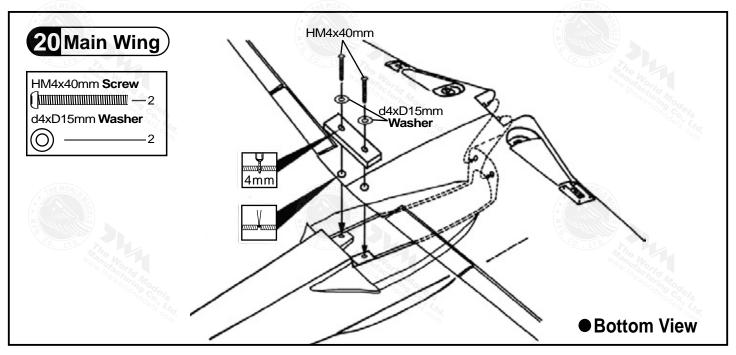


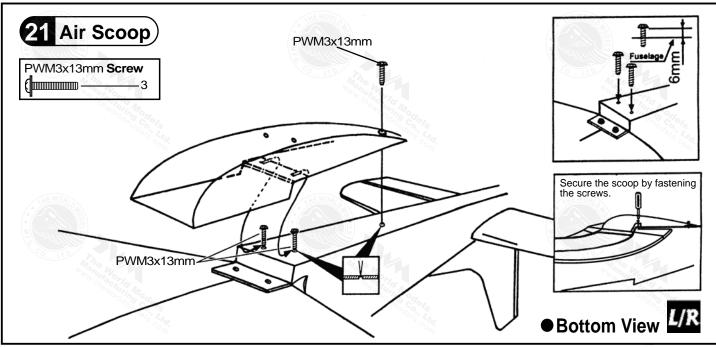


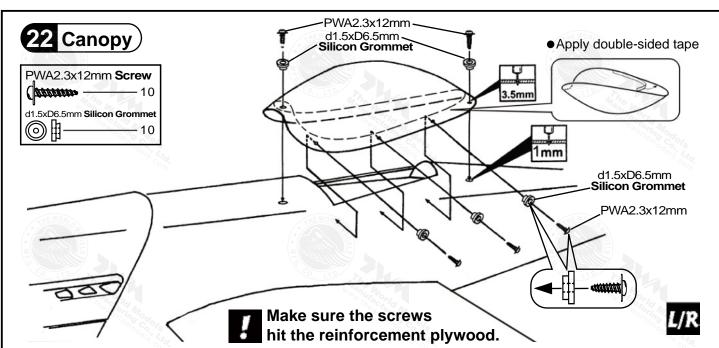


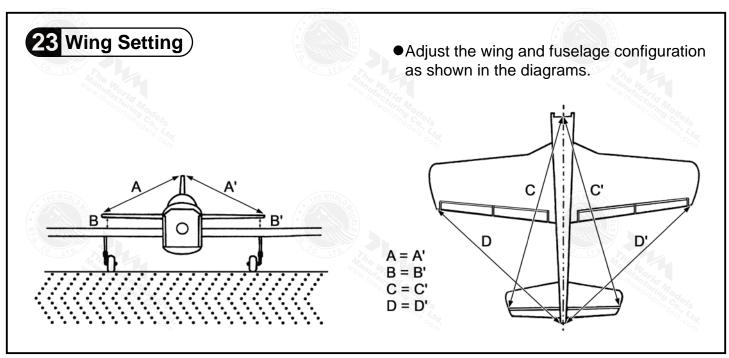


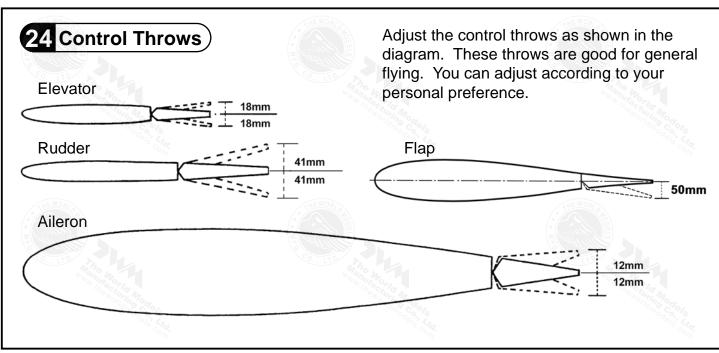


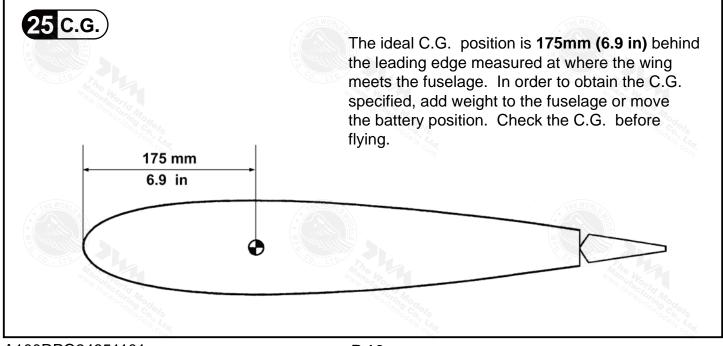












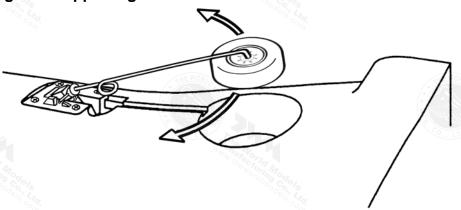


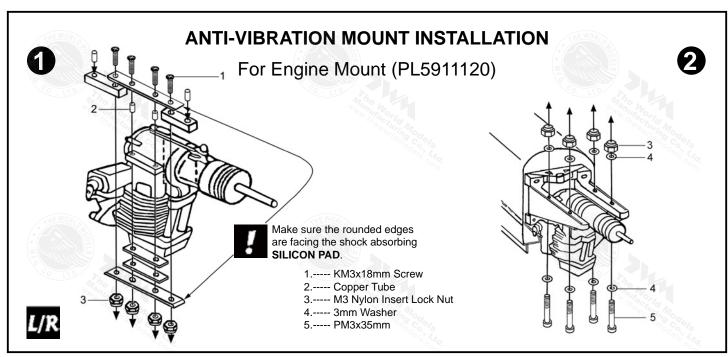
Important Safety Precautions

- # 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.
- # P-51 MUSTANG G.S. is specially designed to be powered by 2C 160 or 4C 180 engine (Glow), using a more powerful engine does not mean better performance. In fact, over powered engine may cause structural 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.
- # Check and re-tighten up all factory assembled screws, use thread locker if applicable.

Landing Gear

Should you need to bend the landing gear wire, use the radio control to open or close the gear to 25% from fully retracted position and switch off the receiver. It is safer to bend the wire in this position. Bending the wire in fully open position may damage the supporting structure.



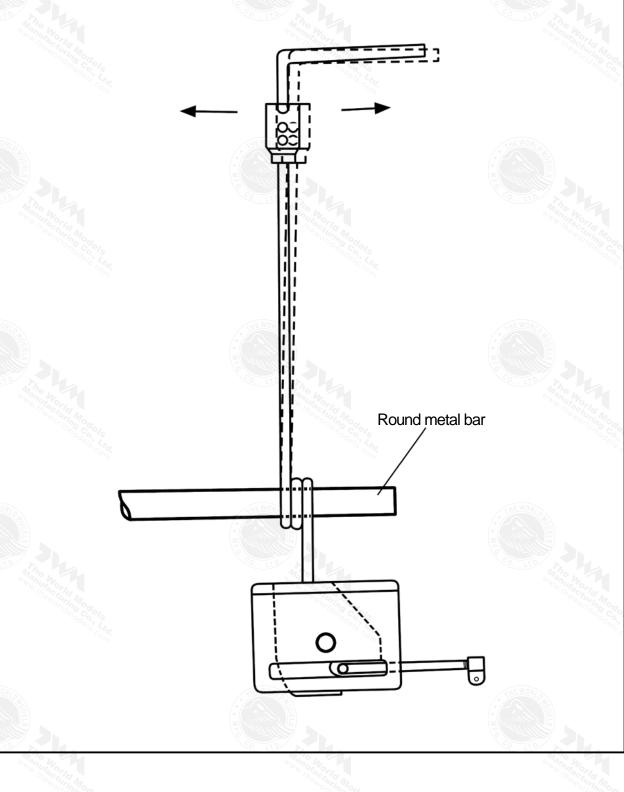


Flying Tips

- 1. Due to location of landing wheel ahead of plane C.G., hard landing may cause the wing to bounce up, This when combines with high landing speed may cause the plane to rise up, stall and result in even harder landing. Please use long landing approach. Descend the plane slowly until it touches down smoothly on the runway.
- 2. We recommend delaying the installation of wheel covers (section 3 of manual) until you are familiar with the flying charateristics of the model after the first few fligths. Operate the retracts in low air speed, as the wheel covers may induce large drag during high air speed and cause difficulties in retracting the wheels. Adjust the angle of the wheel covers to minimize drag.
- 3. When flaps are lowered, nose of model will rise. Check effect of flaps at higher altitude altitude to avoid surprises during landing.
- # When Flaps are lowered, nose of model will rise. The nose-up varise with the speed at which the models is flying when you lower the flaps and the extent to which they are lowered. Check effect of flaps at higher altitude to avoid surprises during landing. You may apply down trim of the elevator to compensate for the nose-up effect when lowering the flaps. Taking off with flaps lowered is not recommended, as the increased drag may require a longer runway and more engine power for the model.

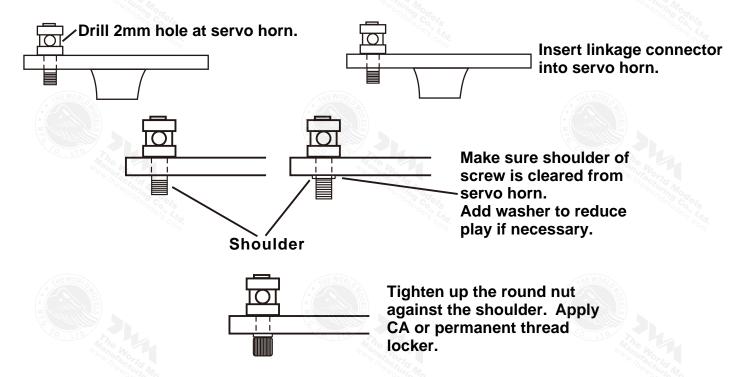


Should you require to bend the landing gear wire, please insert a round metal bar into the spring ring and apply force there as leverage. Bending the wire directly may damage the mounting block structure.



LINKAGE CONNECTOR

HW7111050 & HW7111060



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

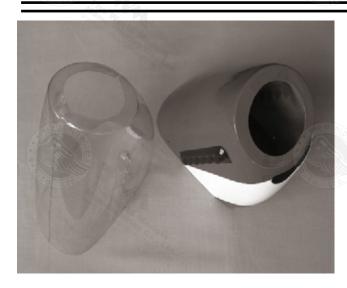
Product Registration Form (US Customers)

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.

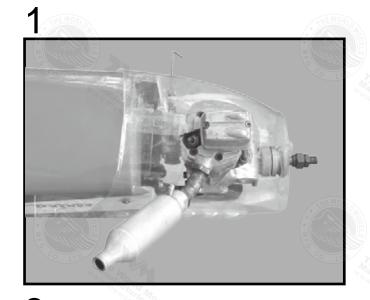
1. Name:		
2. Address:	WE WORLD	THE WORLD
3. Phone #:	E-mail:	
4. Model:		white
Wing QC#Fus (QC numbers are stamped	selage QC# on wing and fuselage)	
5. Date of Purchase:		THE WORLD
6. Store Name:	The state of the s	- I THE STATE OF T

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

Usage of the transparent 3D template

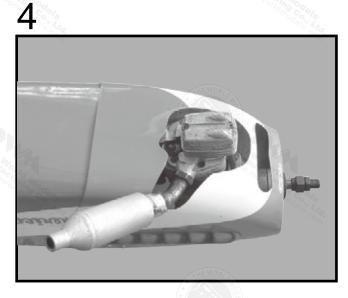


This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

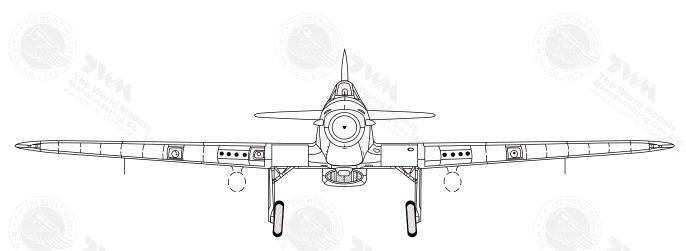








Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.



Ducted Fan

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer

Boat

Accessories

Covering

(Lightex / Toughlon)



Manufacturing Co., Ltd. www.theworldmodels.com