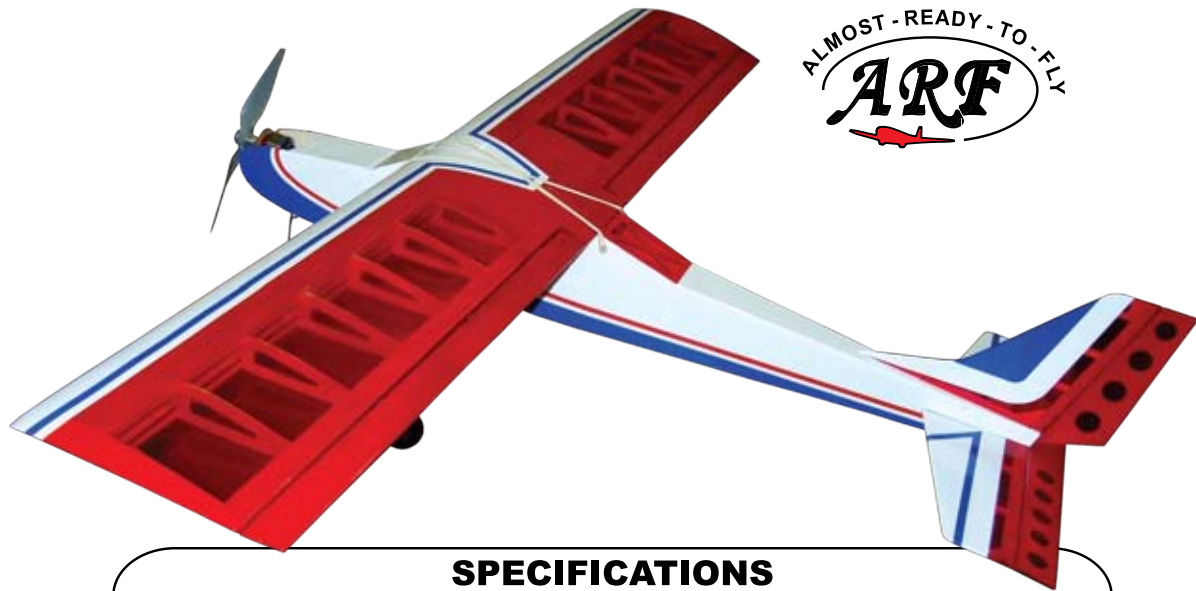


COMMON SENSE RC

THE "GO TO" GUYS IN ELECTRIC POWER

QUATTRO-E INSTRUCTION MANUAL



SPECIFICATIONS

Aircraft Length: 40 in. / 1016mm
 Wing Span: 51 in. / 1295mm
 Wing Area: 442.5 sq. in. / 28.5 sq. dm.
 Flying Weight: 38.5 oz. / 1091 g

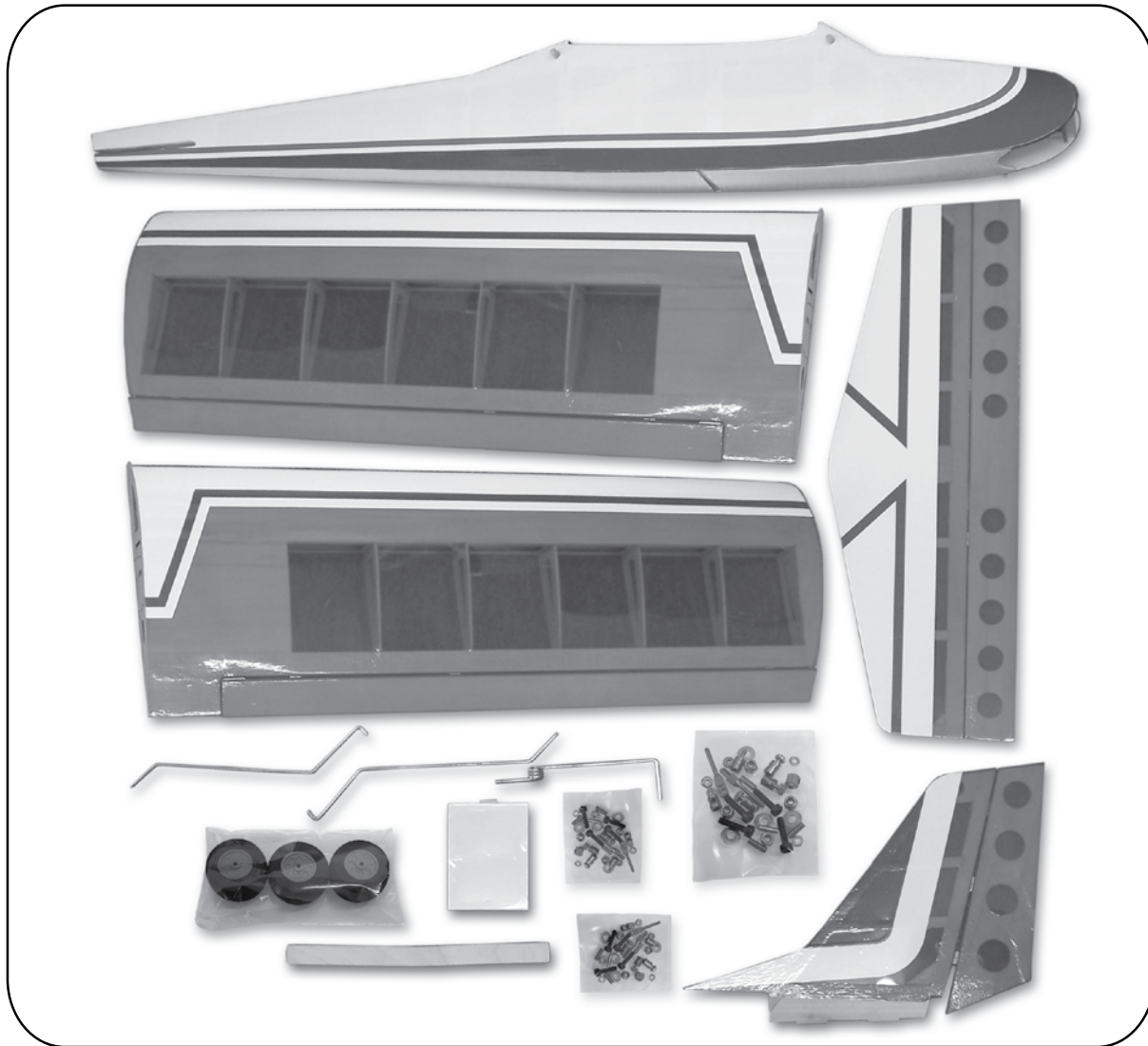
REQUIRED

4 Channel Radio, 3 Micro Servos
 E10-12 Common Sense RC Brushless Motor
 Z45 Common Sense RC 45 AMP ESC
 11x8.5 E APC Propeller
 7.4v 3850mAh 8C Common Sense RC LiPo Battery Pack



This model is capable of 3 different set ups.

Battery	Propeller	Expected Flight Results
7.4v 3850mAh 8C	11x8.5 E	Basic Trainer
7.4v 6000mAh 8C	11x8.5 E	Extended Flight: 20+ Minutes Flight Time
(2) 7.4v 2000mAh 15C	13x8 E	Advanced Trainer: Aerobatic Capabilities



PARTS LIST:

- 1. FUSELAGE-- 1pc.
- 2. MAIN WING-- 1 pair
- 3. STABILIZER & ELEVATOR-- 1 set
- 4. VERTICAL FIN & RUDDER-- 1 set
- 5. MAIN LANDING GEAR 3mm-- 1 pc.
- 6. NOSE GEAR 3mm-- 1 pc.
- 7. WHEEL 045mm-- 3 pcs.
- 8. METAL PARTS:
 SCREW PA 2.3x10mm-- 4 pcs.
 SCREW PWA 2.3x8mm-- 1 pc.
 SCREW PM 3x25mm-- 2 pcs.
 COLLAR 1.5mm w/ set screw-- 5 set
- 9. Pushrod:
 METAL ROD 1.2x100mm (For Aileron Servo)-- 2 pcs.
 METAL ROD 1.2x600mm (For Rudder Servo)-- 1 pc.

- METAL ROD 1.2X600MM (For Elevator Servo)-- 1 pc.
- METAL ROD 1.2x290mm (For Nose Gear Servo)-- 1 pc.
- 10. PLASTIC PARTS:
 RING-- 2 pcs.
 CONTROL HORN-- 2 set
 PLATE-- 2 pcs.
 RUBBER BANDS-- 2 pcs.
- 11. WOODEN PARTS:
 PLYWOOD 2mm (For Aileron Servo)-- 1 set
 PLYWOOD 220x16x3mm (Wing Joiner)-- 1 pc.
 PLYWOOD 87x20x2mm (Wing Protection)-- 1 pc.
 PLYWOOD 86x66x2mm (Battery Cover)-- 1 pc.
 HARDWOOD 6x86mm (For Wing Peg)-- 2 pcs.
 STEERING ARM-- 1 pc.
- 12. MANUAL-- 1 pc.
- 13. DECALS-- 1 set

1 inch = 25.4 mm



Apply epoxy glue.



Apply instant (CA) glue.



Ensure smooth non-binding movement while assembling.



Cut off shaded portion.

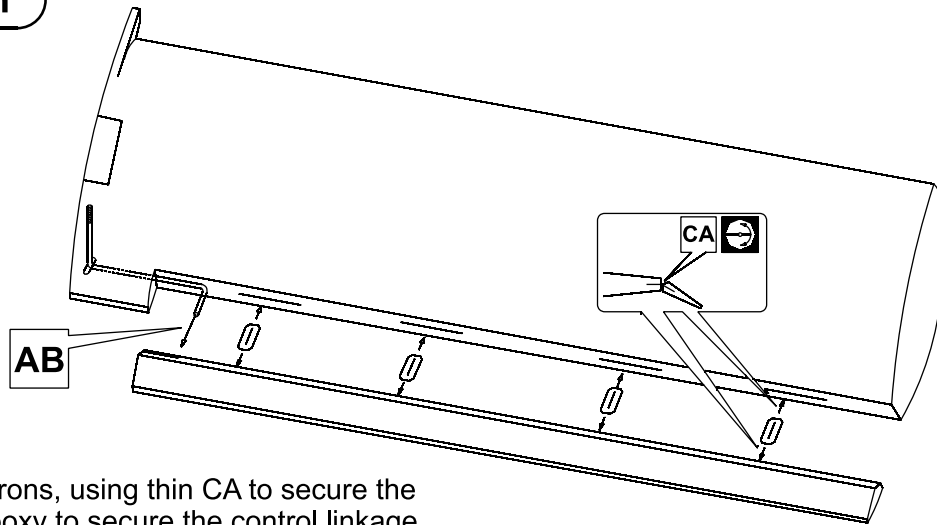


Drill holes with the specified diameter (e.g. 1.5mm)



Assemble left and right sides the same way.

1 Aileron

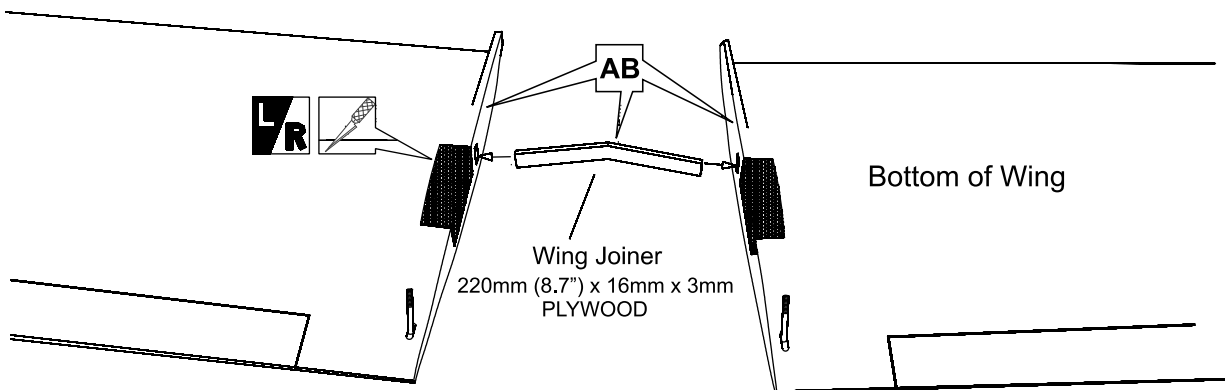


Install the ailerons, using thin CA to secure the hinges and epoxy to secure the control linkage.



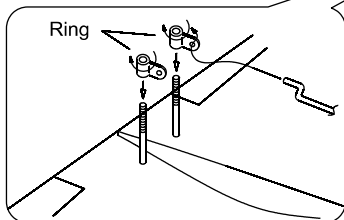
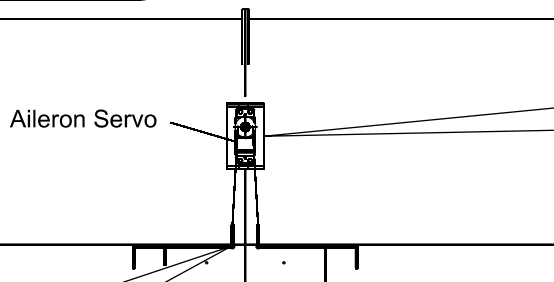
2 Main Wing

Cut away the aileron servo bay, and use epoxy and the included wing joiner to join the wings.

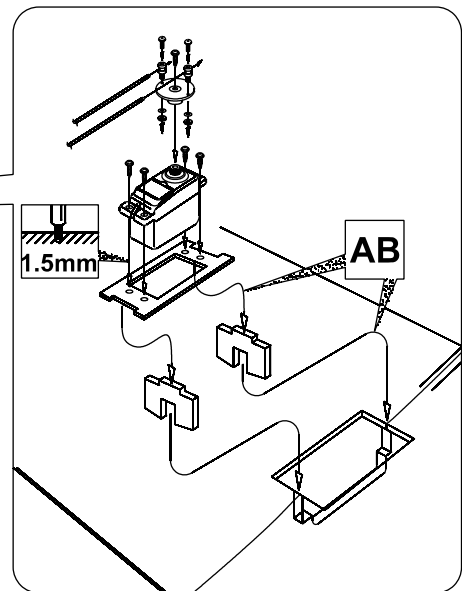


3 Aileron Servo

Set up the aileron linkages as shown:

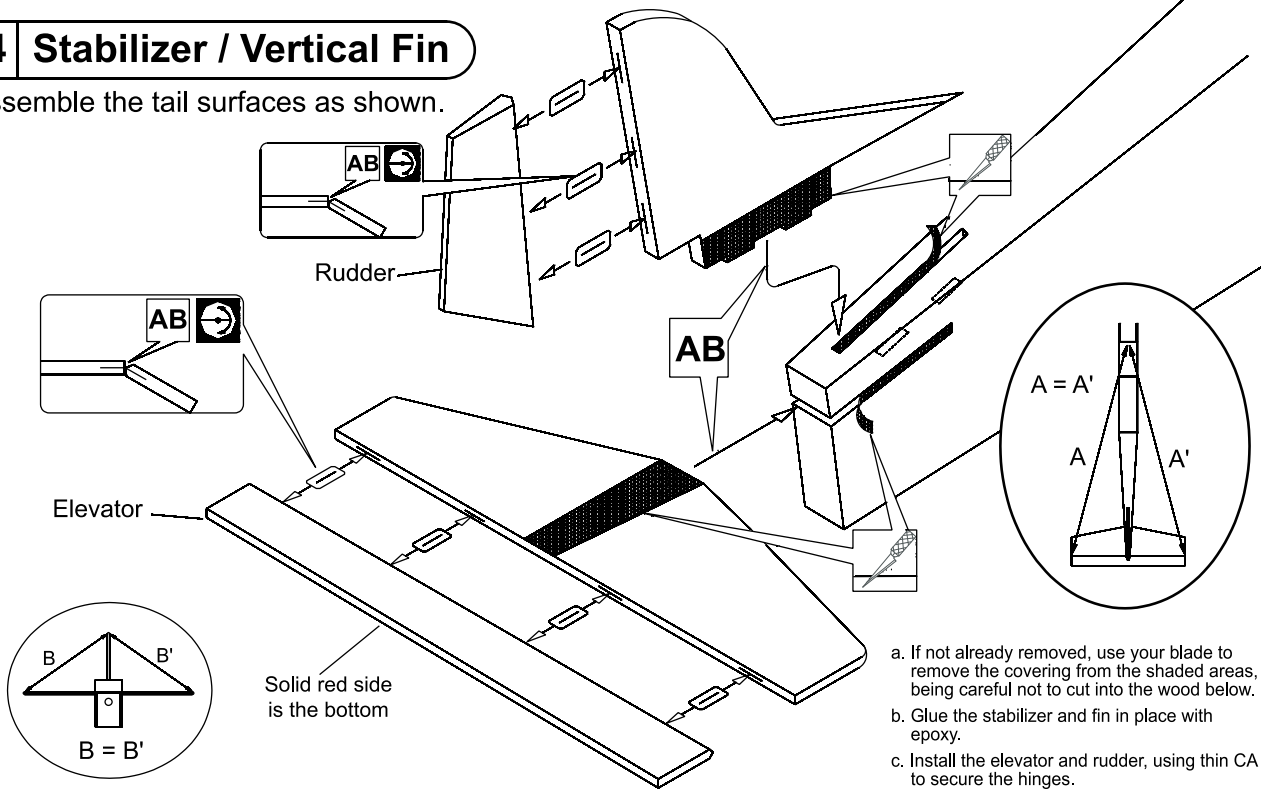


- Glue the aileron servo mount in place using epoxy.
- Install your aileron servo.
- Thread the aileron control eyelets onto the aileron control rods.
- Install pushrods as shown, using adjustable pushrod connectors on the servo.
- Secure the adjustable pushrod connector to the servo arm with a washer and 2mm knurled nut. Tighten the nut until it is snug but the connector can still rotate. Be sure to use a drop of thread locker to lock the nut in place.



4 Stabilizer / Vertical Fin

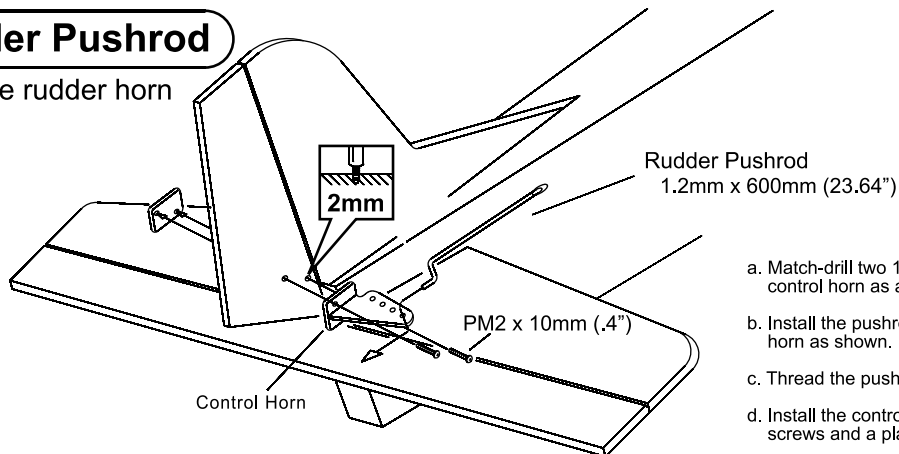
Assemble the tail surfaces as shown.



- a. If not already removed, use your blade to remove the covering from the shaded areas, being careful not to cut into the wood below.
- b. Glue the stabilizer and fin in place with epoxy.
- c. Install the elevator and rudder, using thin CA to secure the hinges.

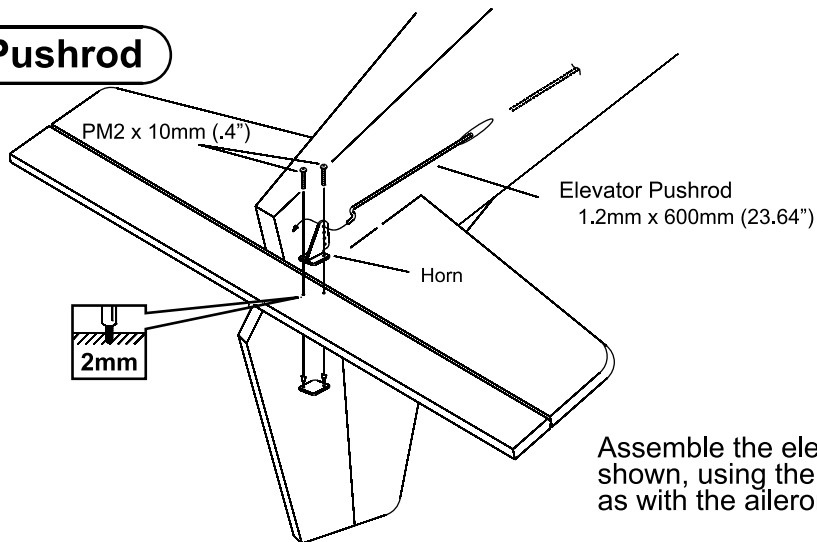
5 Rudder Pushrod

Assemble the rudder horn as shown.



- a. Match-drill two 1.5mm holes using the control horn as a guide.
- b. Install the pushrod Z-bend into the control horn as shown.
- c. Thread the pushrod into its guide tube.
- d. Install the control horn using two 1.5mm screws and a plastic backplate.

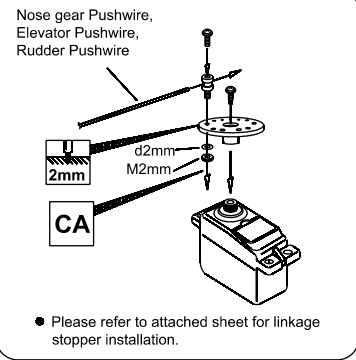
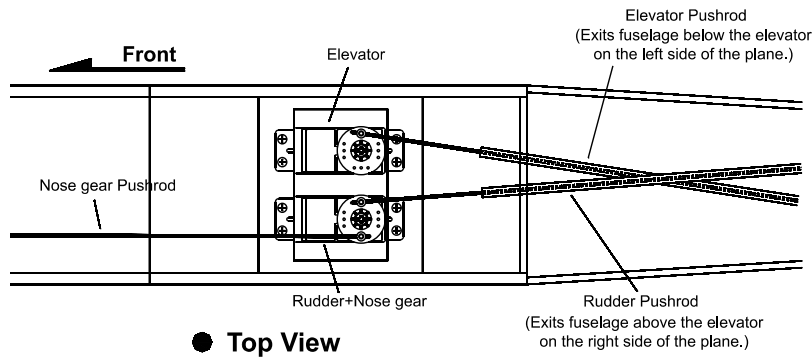
6 Elevator Pushrod



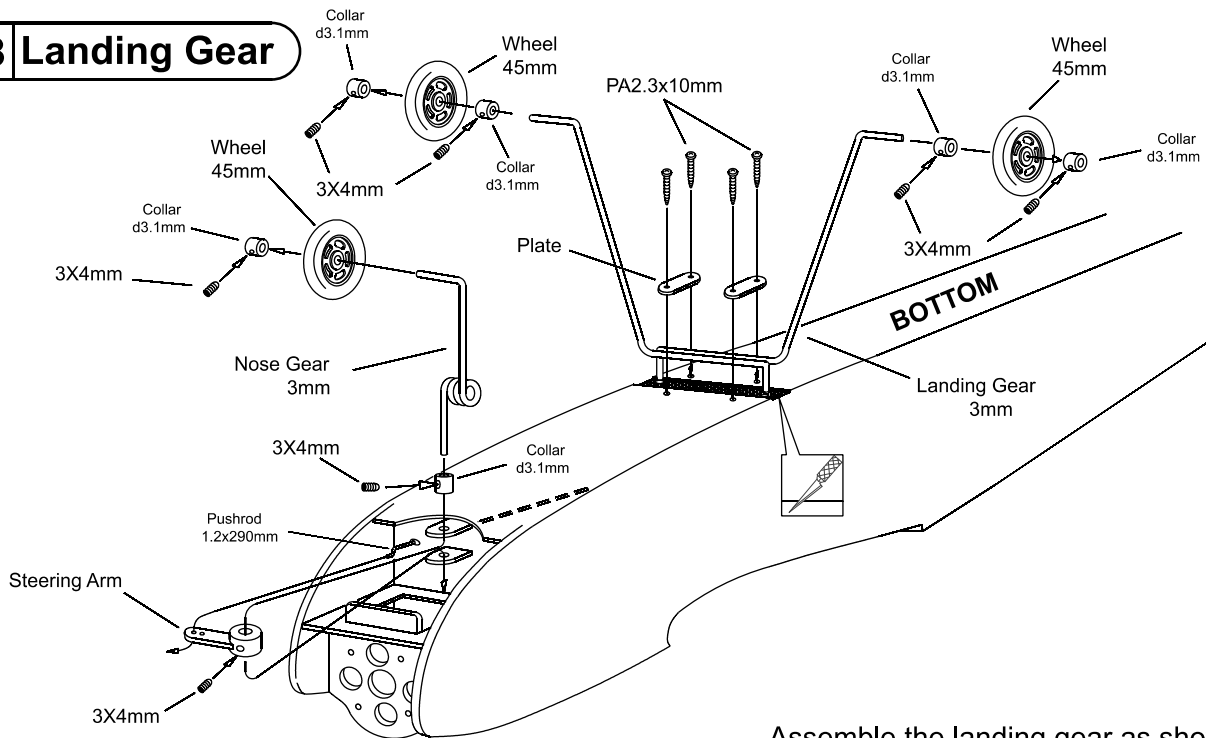
Assemble the elevator rod as shown, using the same techniques as with the ailerons.

7 Radio Equipment

Install your rudder and elevator servos as shown.

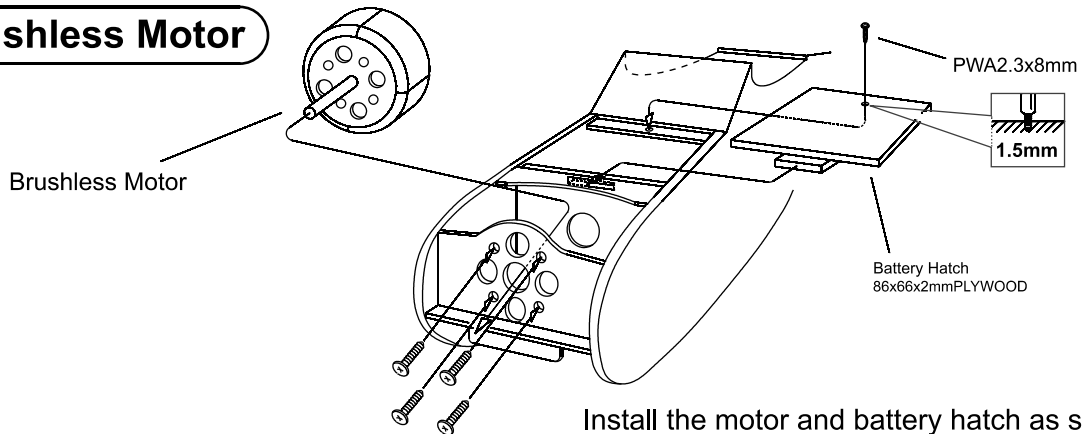


8 Landing Gear



Assemble the landing gear as shown.

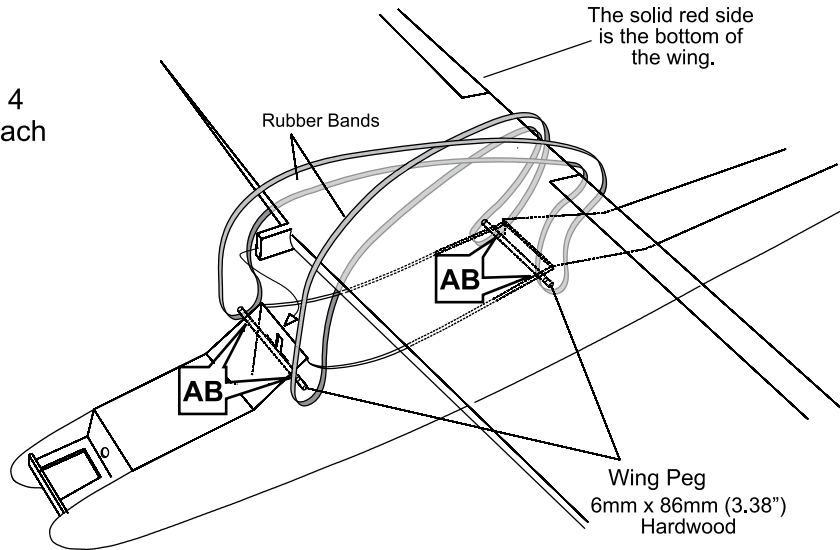
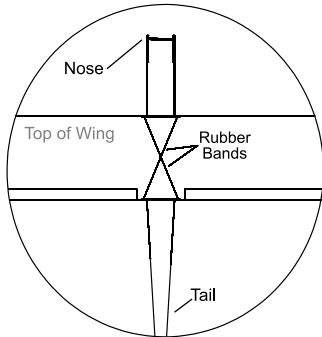
9 Brushless Motor



Install the motor and battery hatch as shown.

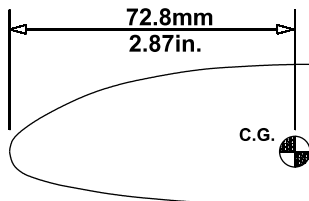
10 Main Wing

Install the wing using at least 4 #64 rubber bands. (Two on each side.)

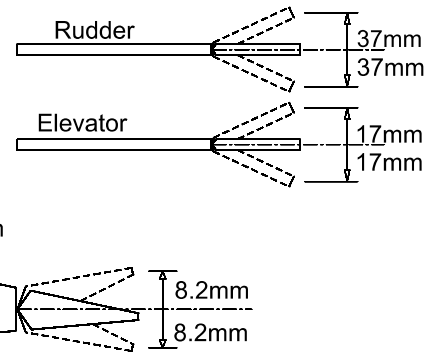


11 Control Throws/C.G.

- ▶ Set balance position (C.G.) to **72.8mm (2.87in.)** from leading edge of wing, measured where the wing meets the fuselage. To obtain this balance, move the battery forward or backward as required. Add weight to nose or tail only as a last resort.



- ▶ Adjust maximum control throws as shown in these diagrams. Set your radio dual-rate switches for 60% on both elevator and aileron throws for first flights. Adjust according to your preference thereafter.



! Warning!

- ▶ This is not a beginner's airplane. If you do not have experience with aerobatic airplanes, seek the assistance of an instructor.
- ▶ Always do a proper pre-flight before launching/take off.
- ▶ Propellers are dangerous. Treat the model with respect at all times, but particularly once the battery is plugged in.