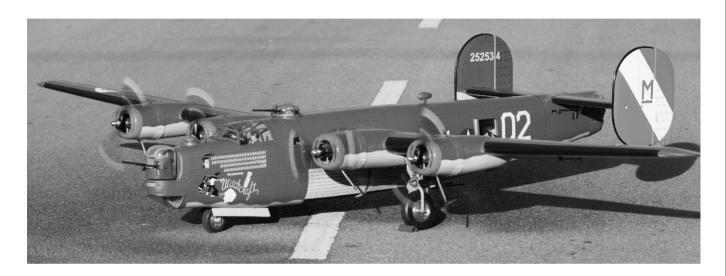
### Radio control model / Flugmodel

### **B-24 LIBERATOR**

### **ALMOST READY TO FLY**



### ALL BALSA AND PLYWOOD CONSTRUCTION

### Instruction manual / Montageanleitung

### **SPECIFICATIONS**

	2800mm
Length:	17000mm
Electric Motor:	See next pager
Glow Engine:	21-27 2-T / 40 4-T
	(will vary with equipment
use)	
Radio:	9 Channel / 11 Servos
Function: Ailerons-E	Elevator-Rudder-Throttle
Flans-Ontional Retu	ractable Landing Gear

### **TECHNISCHE DATEN**

Spannweite:	2800mm
	1700mm
Elektroantrieb	(siehe nächste Seite)
Verbrennerantrieb:	21-25 2T / 40 4T
Fluggewicht:	10.5Kg
Fernsteuerung	9 Kanal / 11 servos



### **B-24 LIBERATOR HISTORY:**

The Consolidated B -24 Liberator was designed with the high aspect -ratio Davis Wing. In combat, the wing

had drawbacks as far as durability was concerned, but it increased fuel efficiency and gave the B-24 a longer

range than the Boeing B -17 Flying Fortress. On December 29, 2014, the Consolidated B -24 Liberator, one of

the most famous bombers of World War II, turned 75 years old. More than 18,400 of this type were built, making

it the most produced American wartime aircraft. It gained a distinguishe d war record with operations in the European,

Pacific, African and Middle Eastern theaters. It followed in the footsteps of the other great American WW II bomber,

the B-17. The B-24 brought about the following improvements over the B-17: ● A longer range. ● A higher top speed.

• A heavier bomb load. • Tricycle landing gear. • A quantum leap in wing design and performance

The B-24J was produced in greater numbers than any other series and was the only version produced in all five plants.

In the San Diego plant, it went from producing the "D" straight to the "J." The main difference between the D -CO and the J-CO

was the addition of the Consolidated A  $\,$  -6A nose turret, which was almost identical to the tail turret. Other defensive armament

included the Martin A-3C upper turret, Briggs A-13 ball turret and flexible 0.50 caliber machine guns at the open window waist

positions. A total of 6,678 B-24Js were built.

More B-24's were built than any other American airplane. It edged out the B -17 on most performance criteria (speed, range, bombload).

It's crewmen claimed 2,600 enemy aircraft shot down. With it's great range, it performed anti-sub work in the Atlantic and heavy bomber support in the Pacific.

### RADIO REQUIRED: NORMAL EP

- Radio 9 channels with 11 servos
- 5 high torque servos (2x ailerons + 2x elevator + 1x nose wheel)
- 2 mini 9gr servo for rudder.
- 4 mini servo for flaps

### RADIO REQUIRED: NORMAL GP

- Radio 9 channels with 15 servos.
- 5 high torque servos (2x ailerons + 2x elevator + 1x nose wheel)
- 6 mini 9gr. servo (2x rudder + 4x throttle).
- 4 mini 17gr. servo for flaps.

### RADIO REQUIRED: NORMAL GP - FULL OPTION

- Radio 12 channels with 23 servos.
- 5 high torque servos (2x ailerons + 2x elevator + 1x nose wheel)
- 6 mini 9gr. servo (2x rudder + 4x throttle).
- 12 mini 17gr. servo (4x flaps + 4x turrets gun + 4x drop bomb)

### **GLOW ENGINE REQUIRED**



.21 to .25 two stroke engine



.40 four stroke engine

Recommended 4-Stroke Engines Saito FA-40a

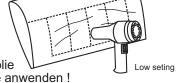
### BRUSHLESS MOTOR REQUIRED



650 Watt brushless motor.

If exposed to direct sunlight and/or heat, wrinkels can appear. Storing the model in a cool place will let the wrinkles disappear. Otherwise, remove wrinkles in covering film with a hair dryer, starting with low temperature. You can fix the corners by using a hot iron.

Bei Sonneneinstrahlung und/oder Wärme kann die Folie erschlaffen bzw. Falten entstehen. Verwenden Sie ein Warumluftgebläse (Haartrockner) um evtl. Falten aus der Folie zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden!



Symbols used throughout this instruction manual, comprise:



Drill holes using the stated size of drill (in this case 1.5 mm )



Take particular care here



Hatched-in areas: remove covering film carefully



Check during assembly that these parts move freely, without binding



Use epoxy glue



Apply cyano glue



Assemble left and right sides the same way.



Not included. These parts must be purchased separately



Löcher bohren mit dem angegebenen Bohrer (hier 1,5 mm)



Hier besonders aufpassen



Schraffierte Stellen, Bespannfolie vorsichtig entfernen



Während des Zusammenbaus immer prüfen, ob sich die Teile auch reibungslos bewegen lassen



Epoxy-Klebstoff verwenden



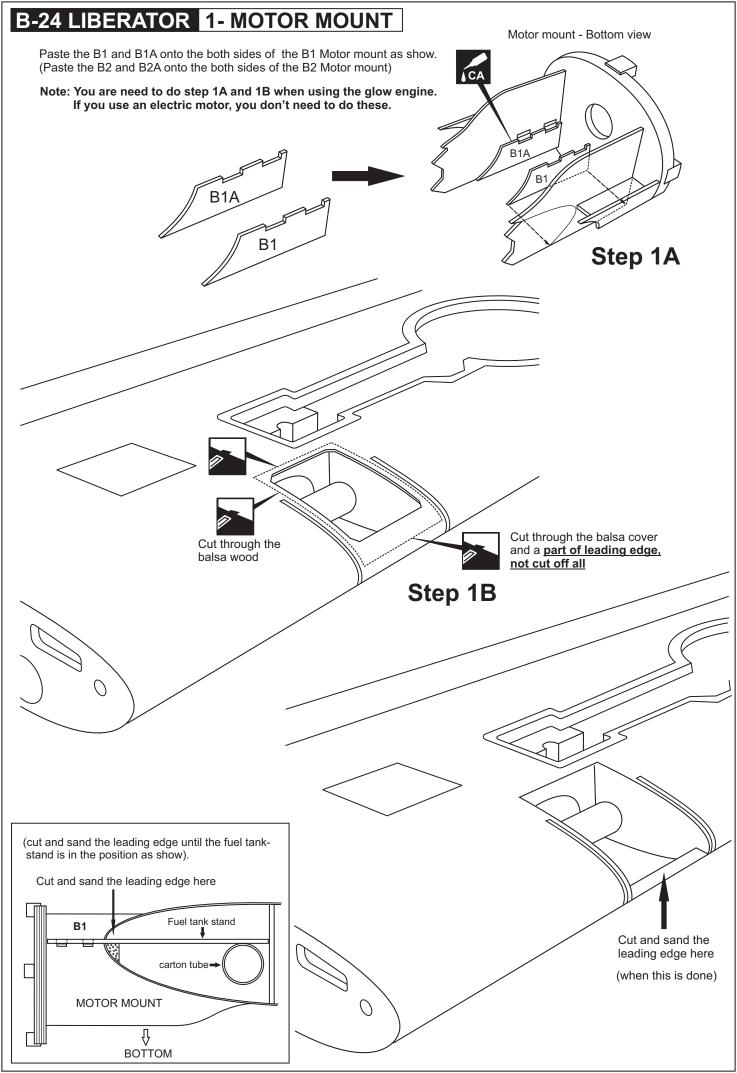
Sekundenkleber auftragen

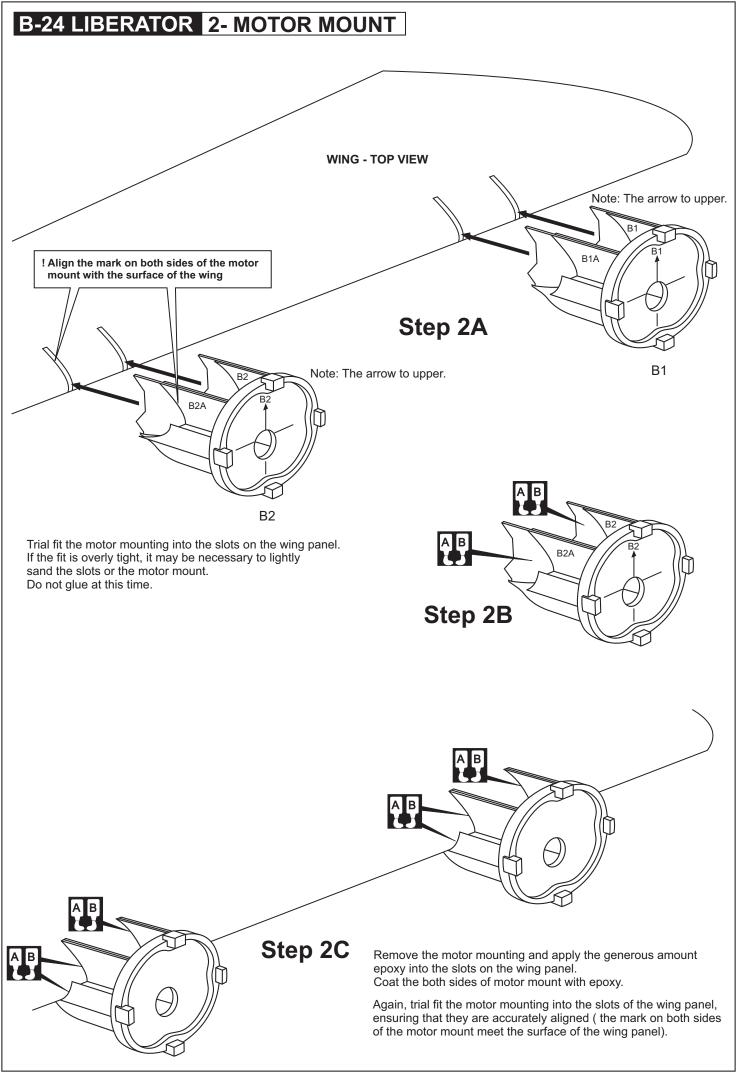


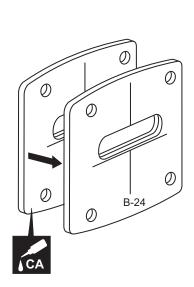
Linke und rechte Seite wird gleichermaßen zusammengebaut

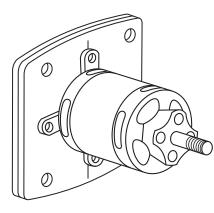


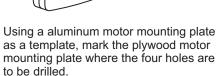
Nicht enthalten. Teile müssen separat gekauft werden.

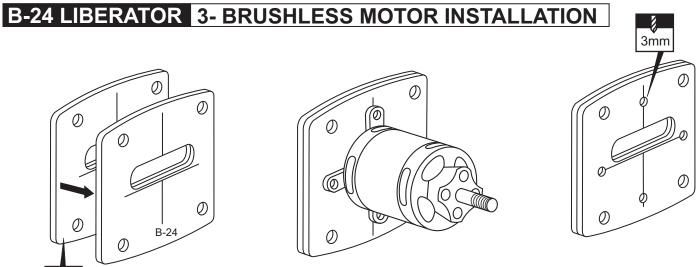




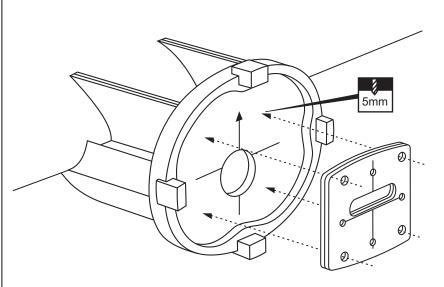








Remove the aluminum motor mounting plate and drill a 1/8"(3mm) hole through the plywood at each of the four marks marked.

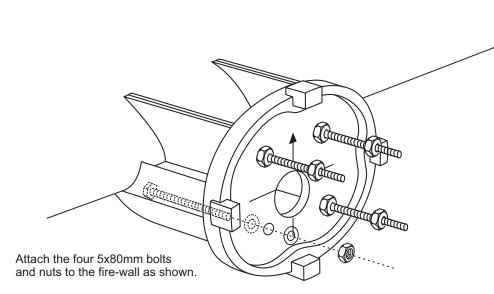


Secure the Motor to the wooden motor mounting plate using the four 3mm bolts and nuts.

3mm bolt / nut...4

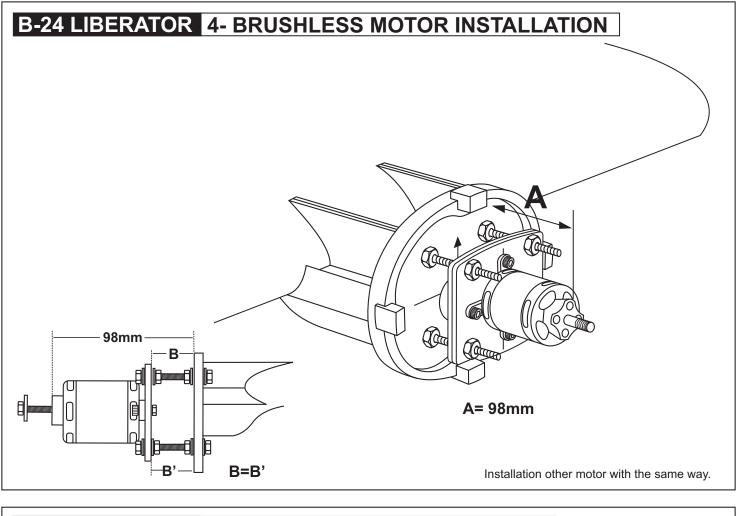
Using a wooden motor mounting plate as a template, mark the fire-wall where the four holes are to be drilled.

Remove the wooden motor mounting plate and drill a 5mm hole through the fire-wall at each of the four marks marked .

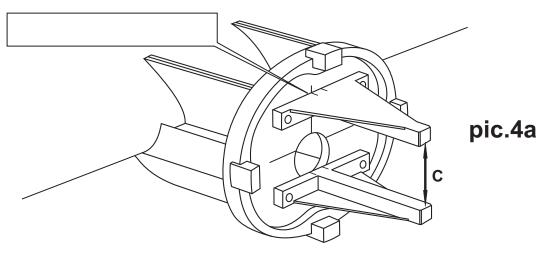


5x80mm bolt....4 © 5mm nut......12 (O) 5mm washer...16

Do the same way with second wing halves.

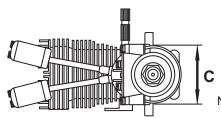


### **B-24 LIBERATOR** 5- GLOW ENGINE INSTALLATION



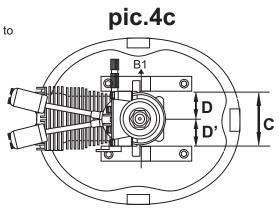
Attach the engine mount beams onto the fire-wall so the distance between of two engine mount beams is " $\mathbf{C}$ ", and  $\mathbf{D}$ = $\mathbf{D}$ ' as show (see pic. 4c) Secure the engine mount beams onto the fire-wall with <u>litter CA glue.</u>

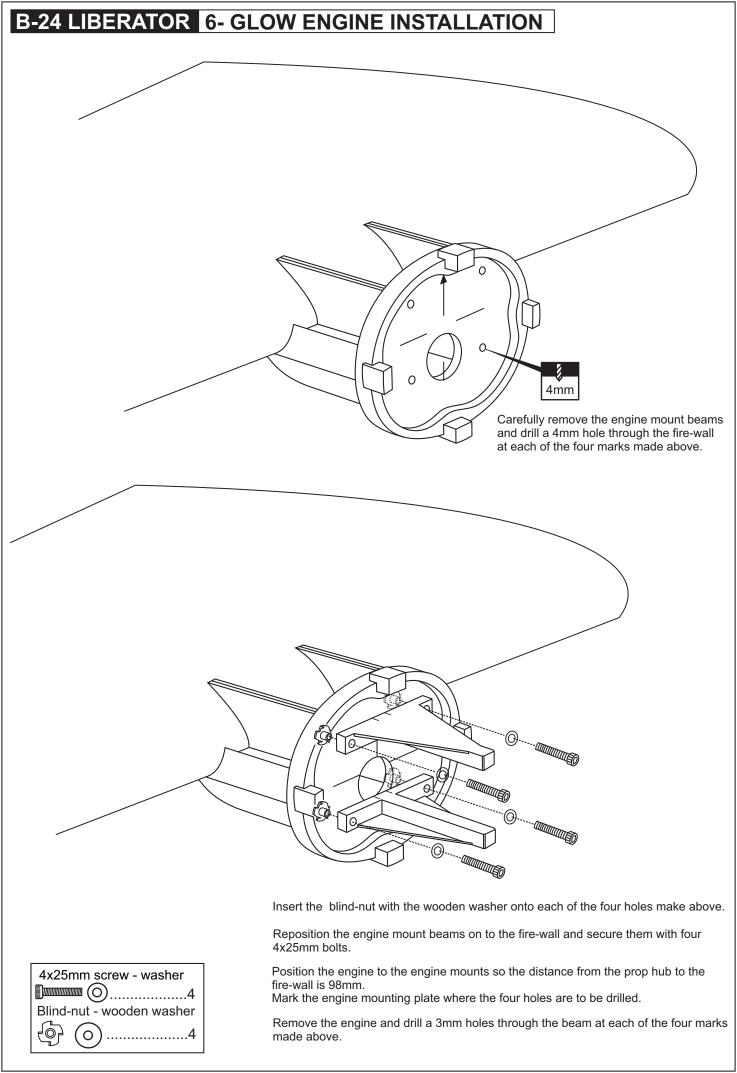
Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled.

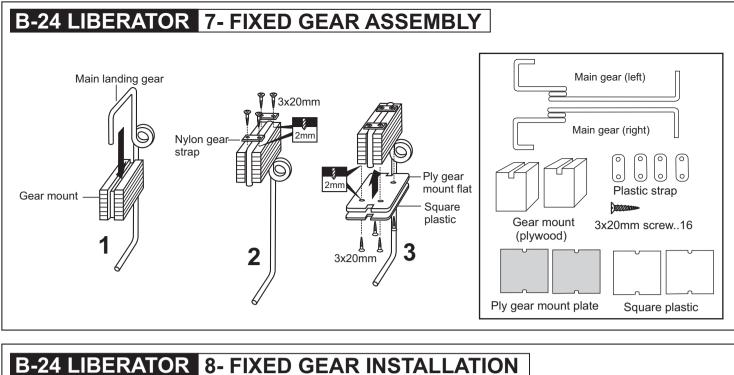


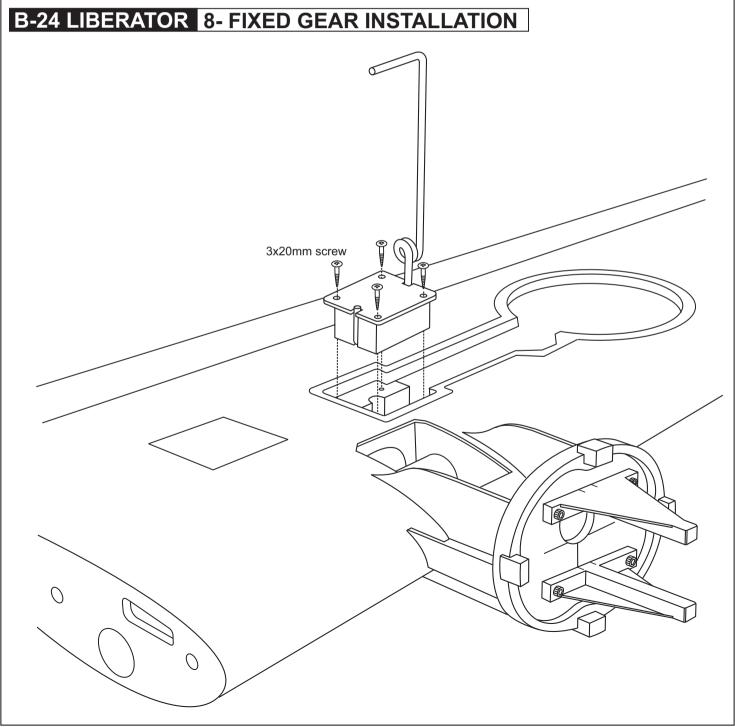
pic.4b

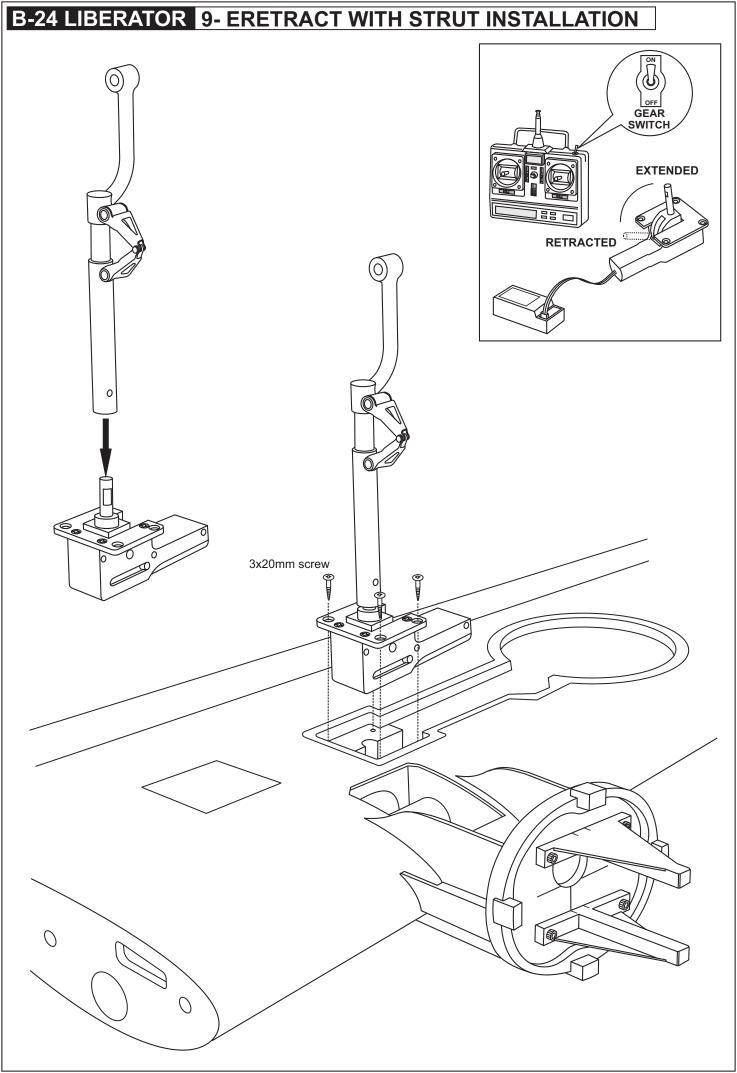
Note: Saito FA-40a four stroke



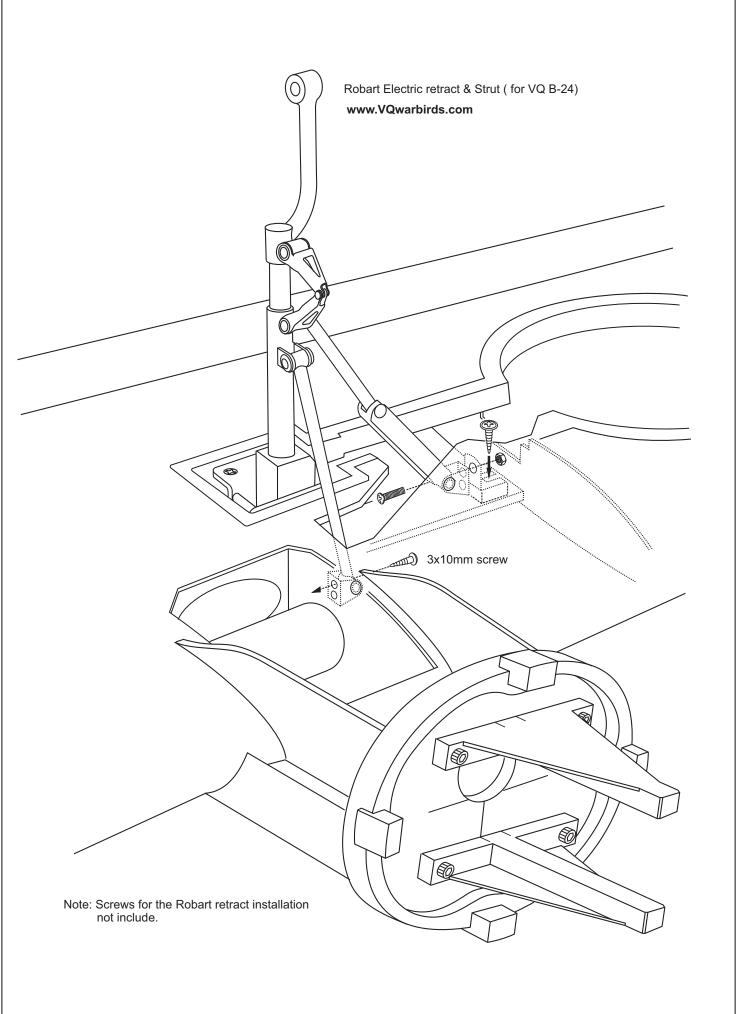


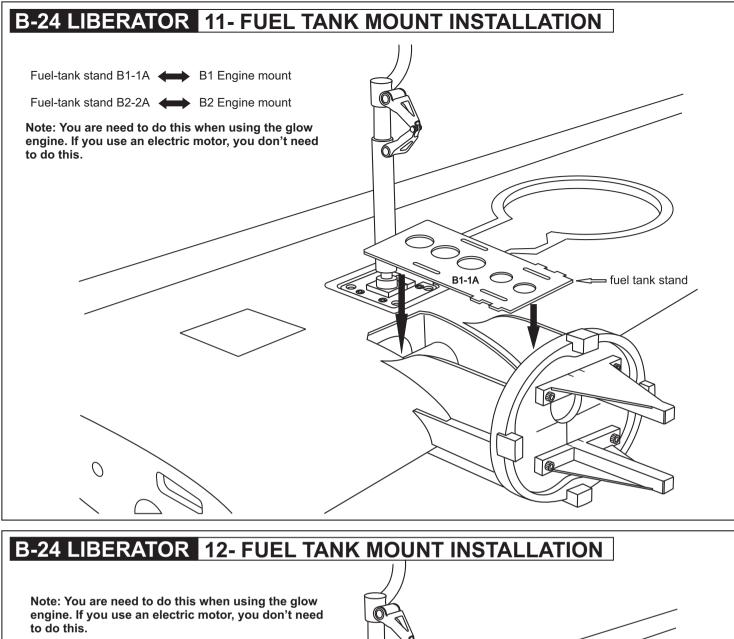


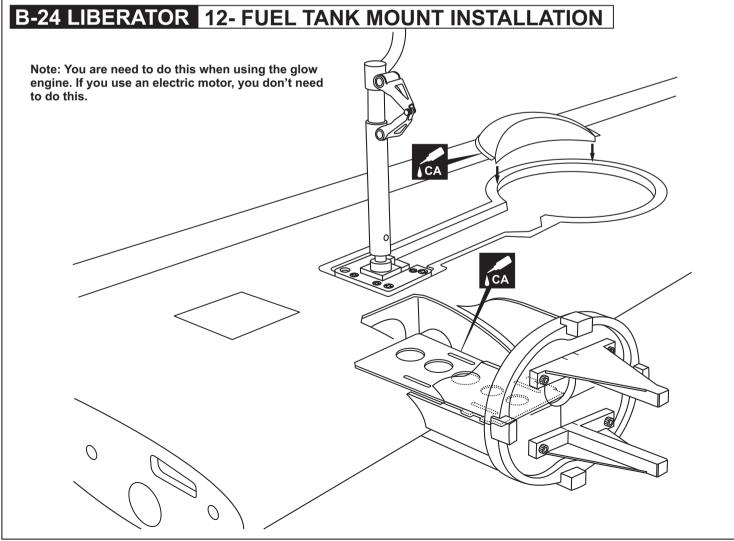


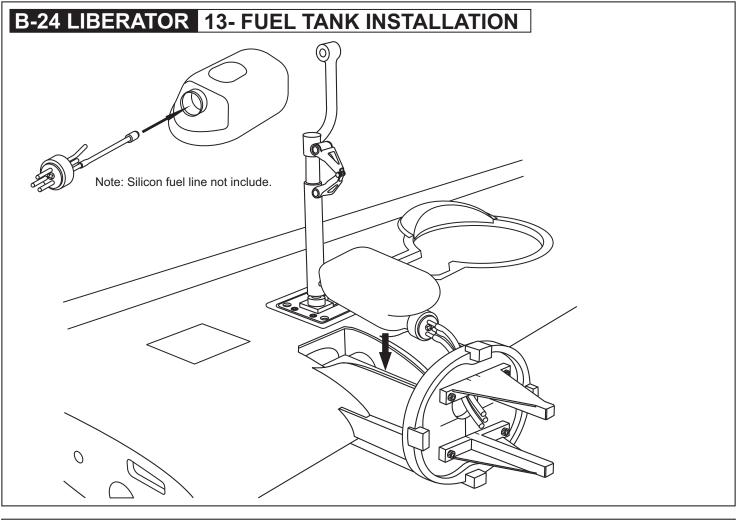


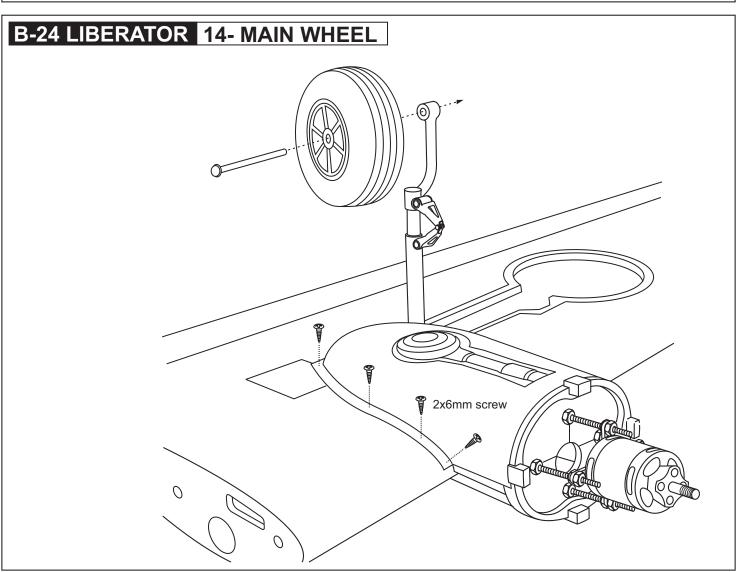
### B-24 LIBERATOR 10- ERETRACT WITH STRUT INSTALLATION

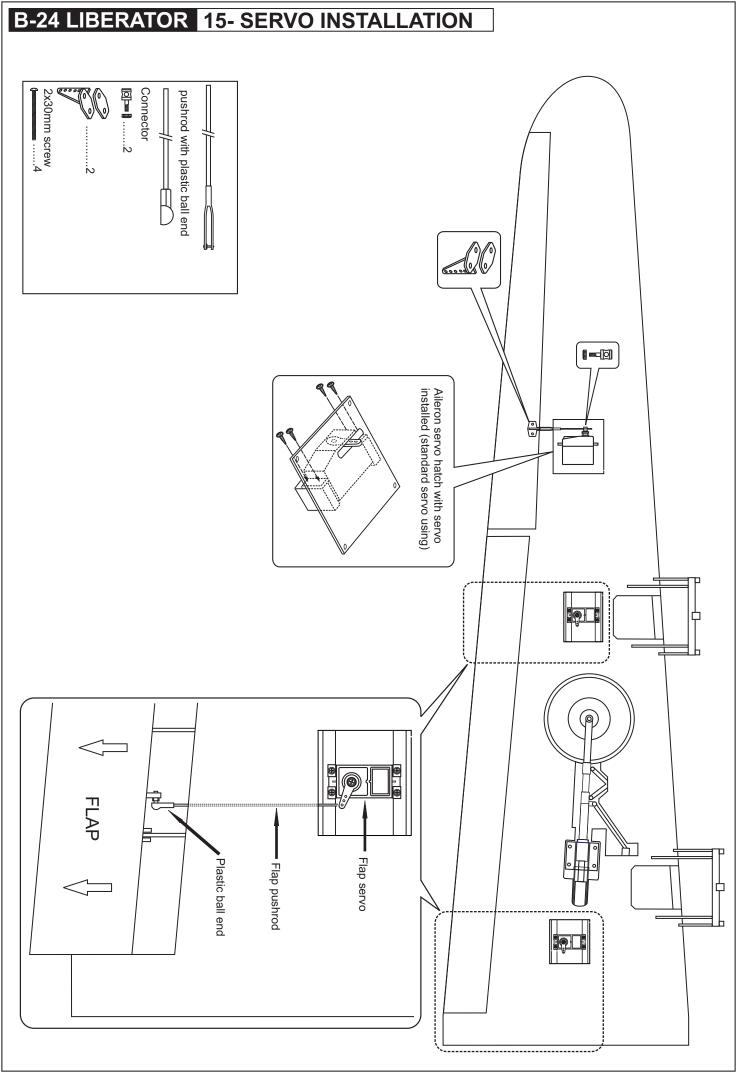


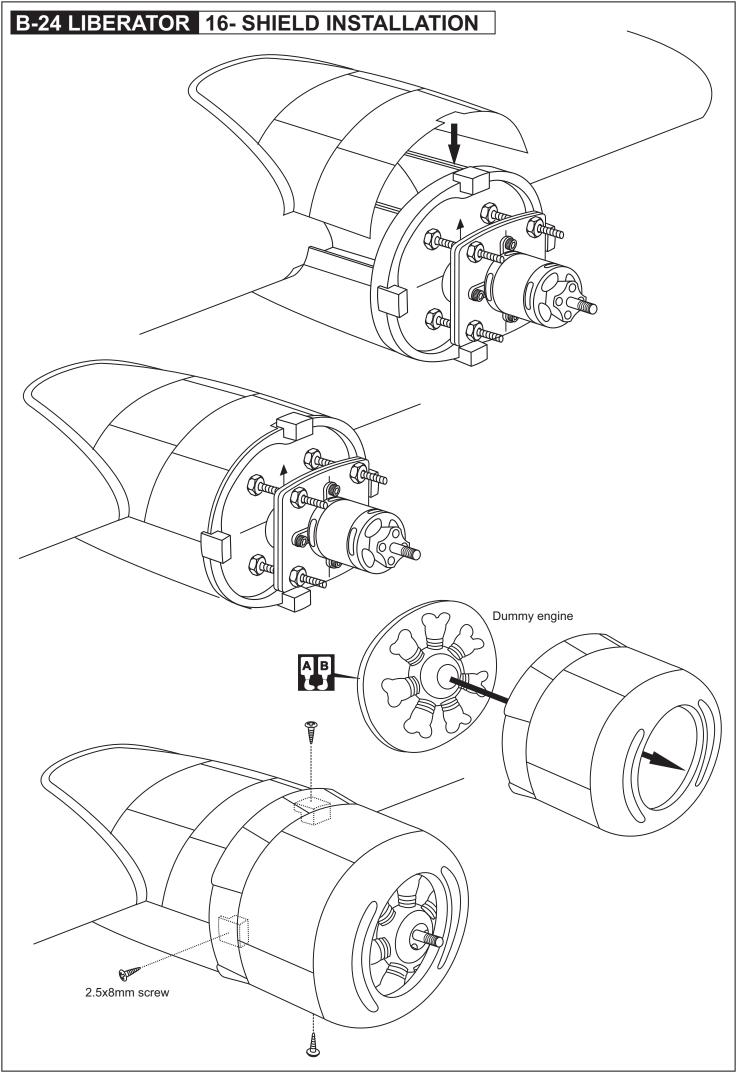




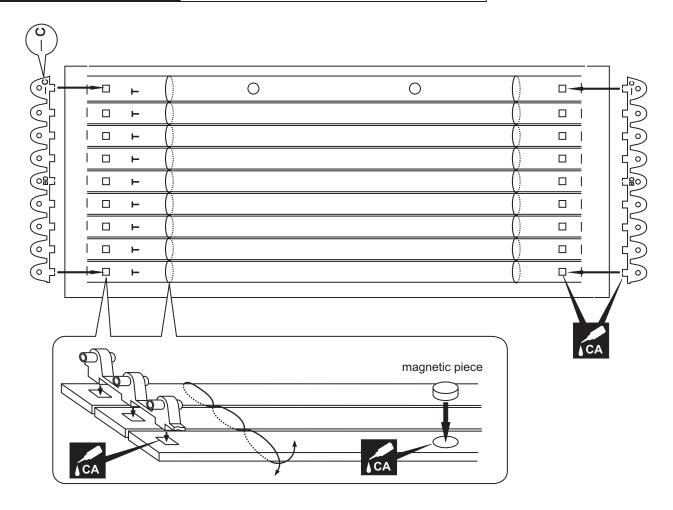




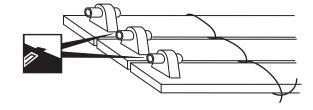


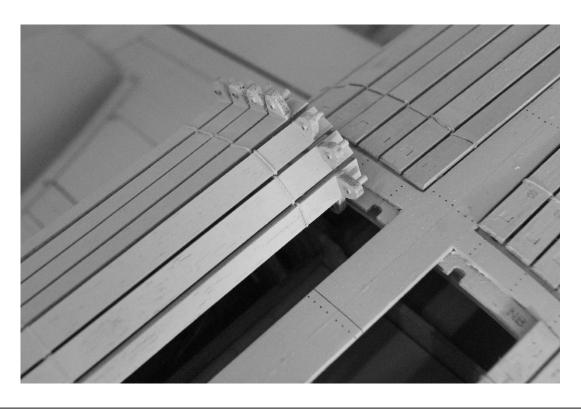


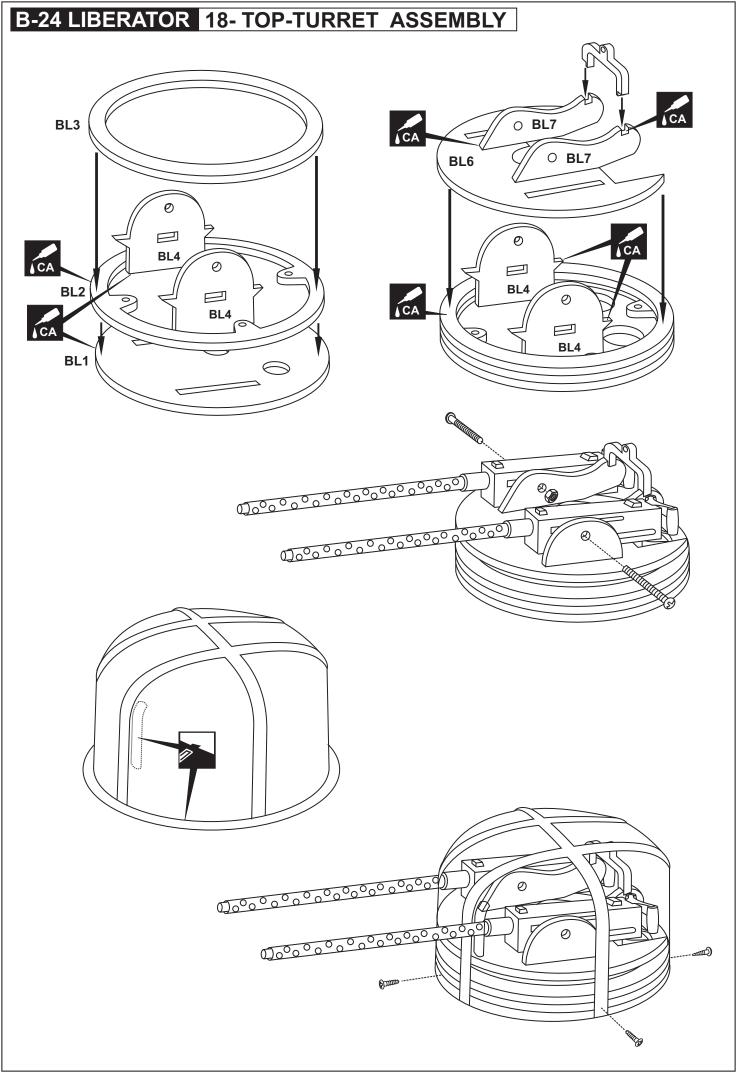
### B-24 LIBERATOR 17- BOMB DOOR ASSEMBLY



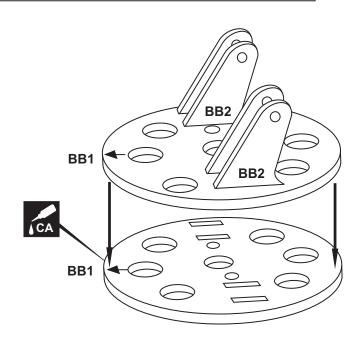
Note: "T" sheet for the front bomb door "S" sheet for the rear bomb door

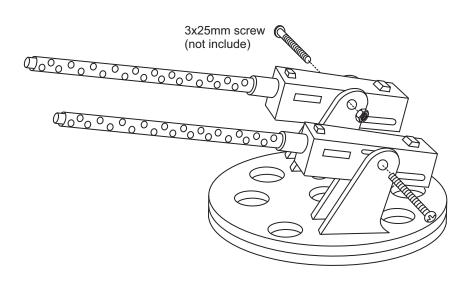


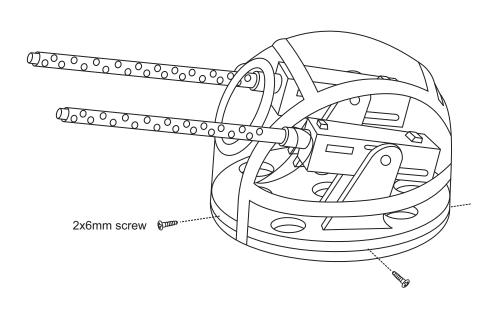


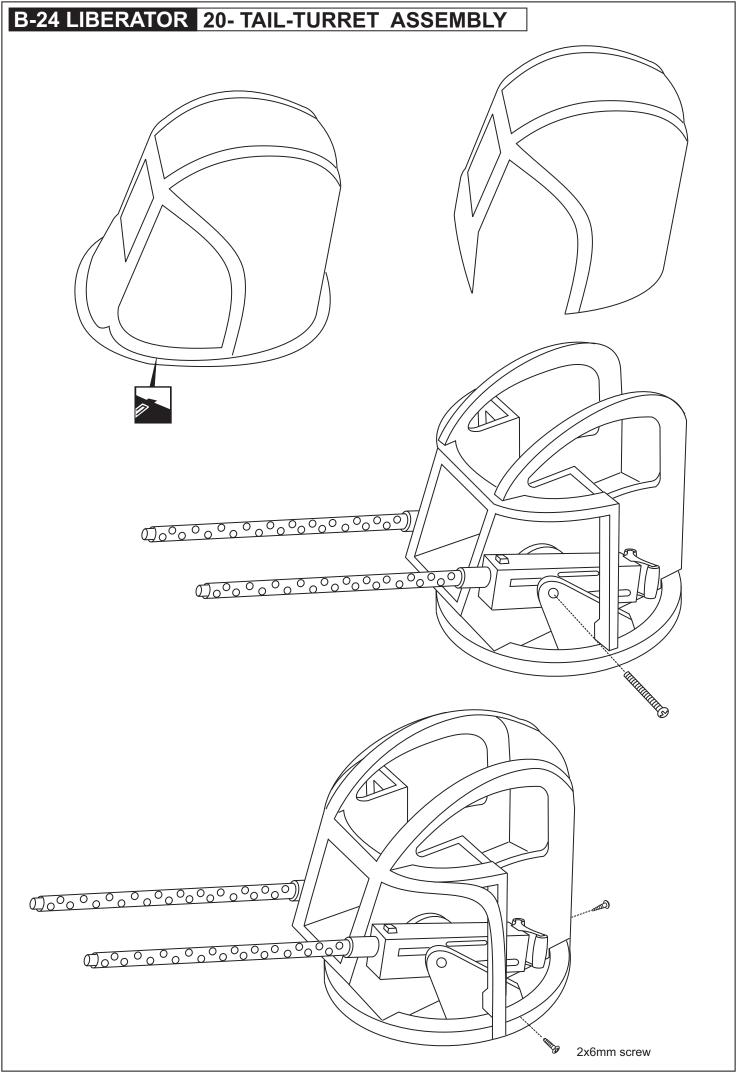


### B-24 LIBERATOR 19- LOWER BALL-TURRET ASSEMBLY



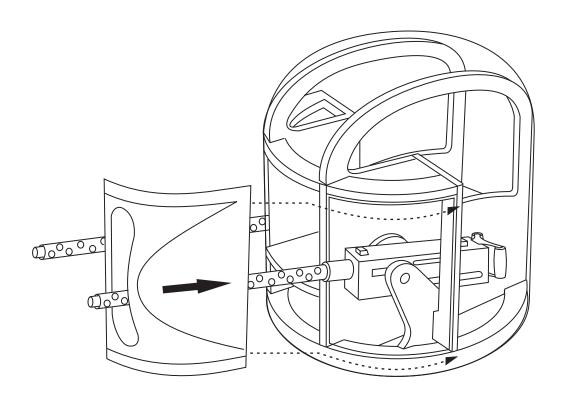


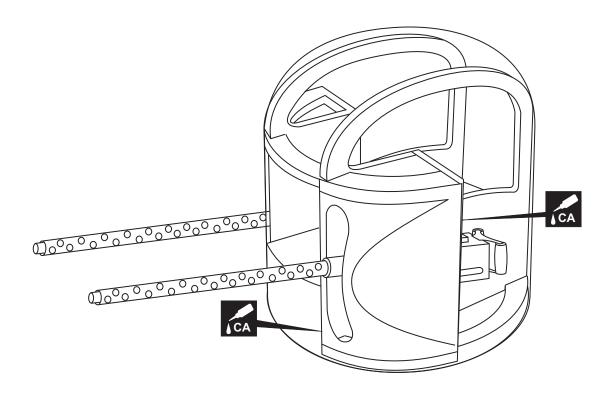


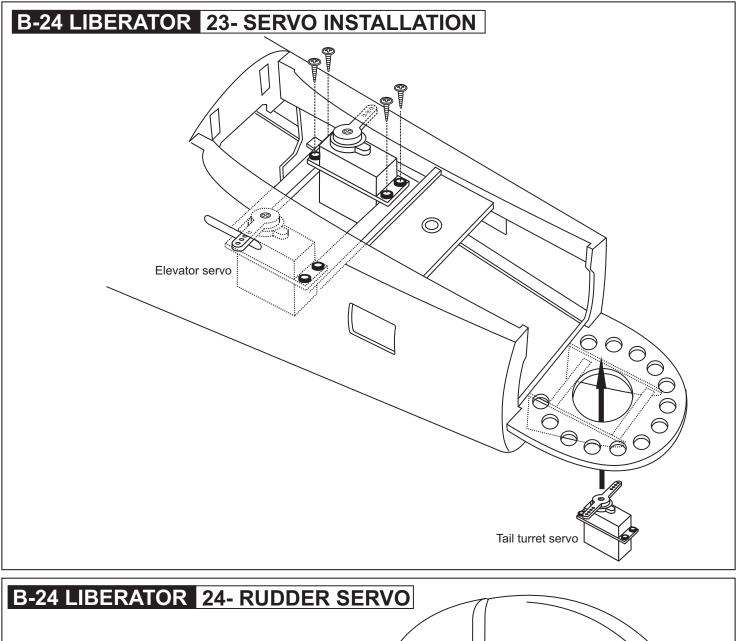


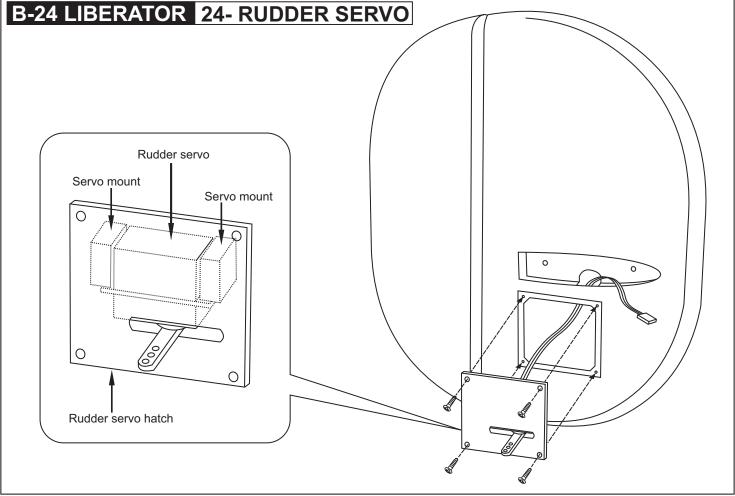
## B-24 LIBERATOR 21- NOSE-TURRET ASSEMBLY

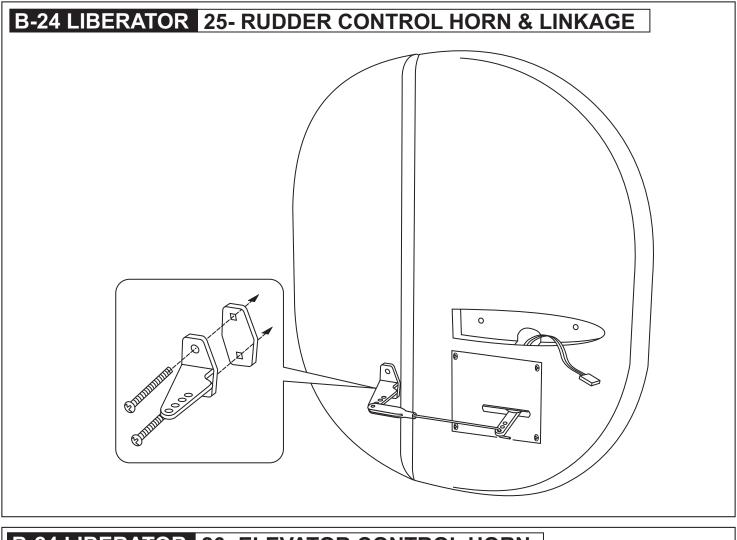
### B-24 LIBERATOR 22- NOSE-TURRET ASSEMBLY continued

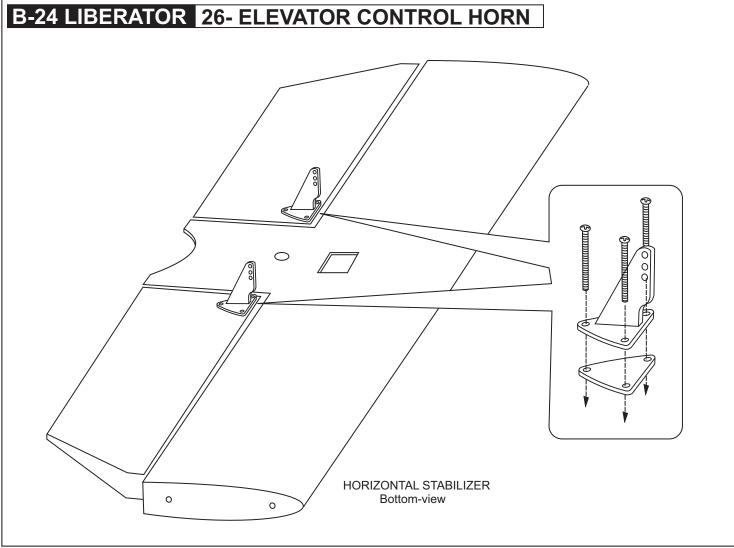






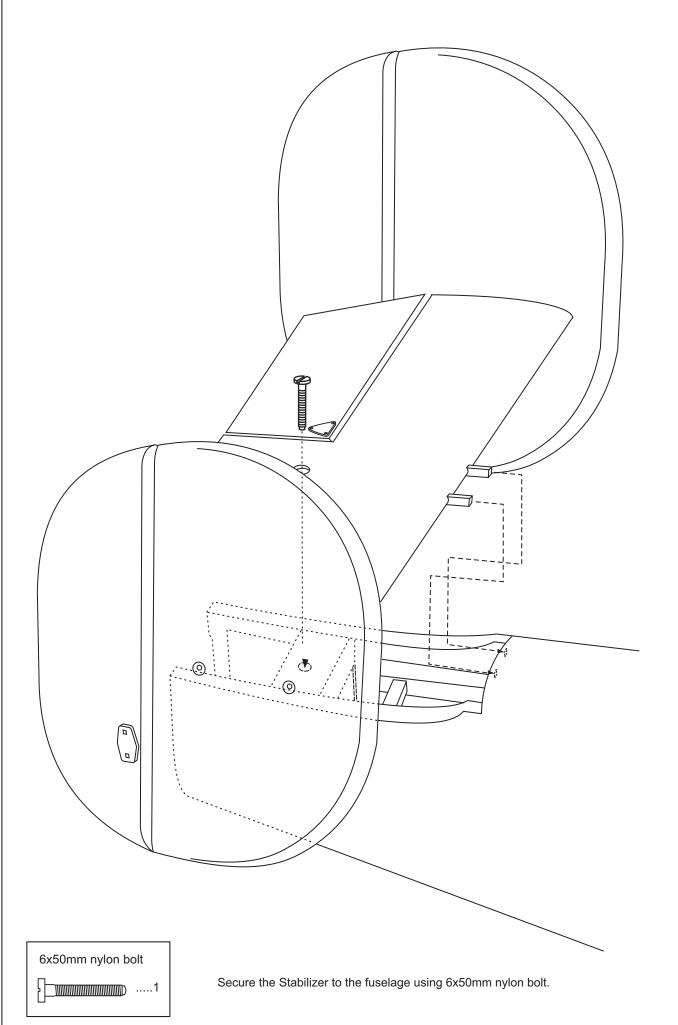




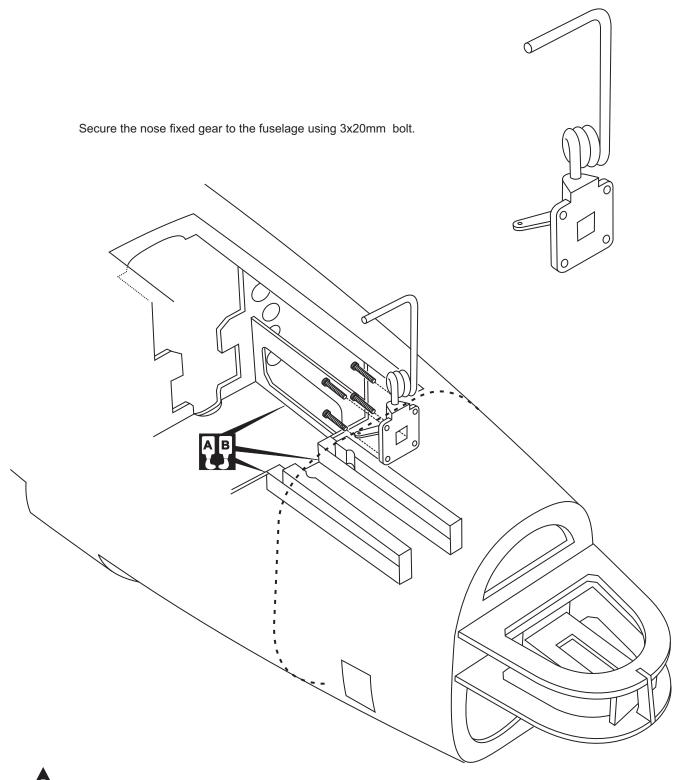


## B-24 LIBERATOR 27- RUDDER INSTALLATION 0 HORIZONTAL STABILIZER Top-view 3x15mm bolt

### **B-24 LIBERATOR** 28- VERTICAL & HORIZONTAL STABILIZER

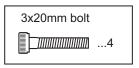


### **B-24 LIBERATOR** 29- NOSE FIXED GEAR INSTALLATION





Note: You should add more 30 minutes-Epoxy glue to the area in the drawing to reinforcement.

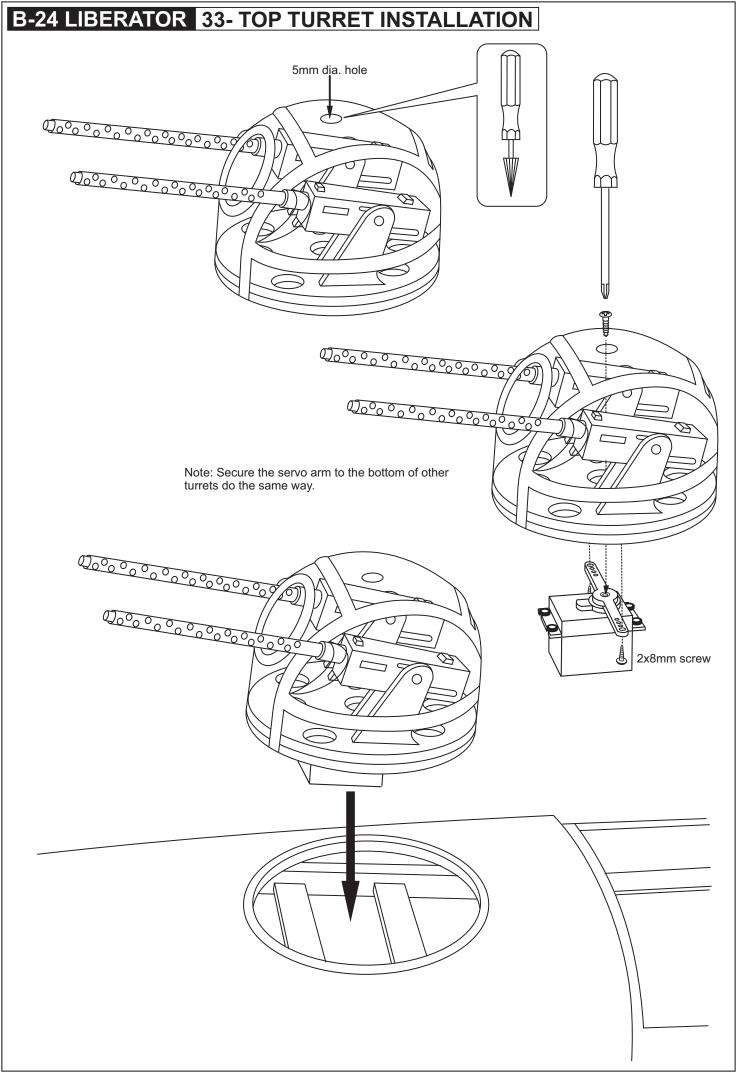


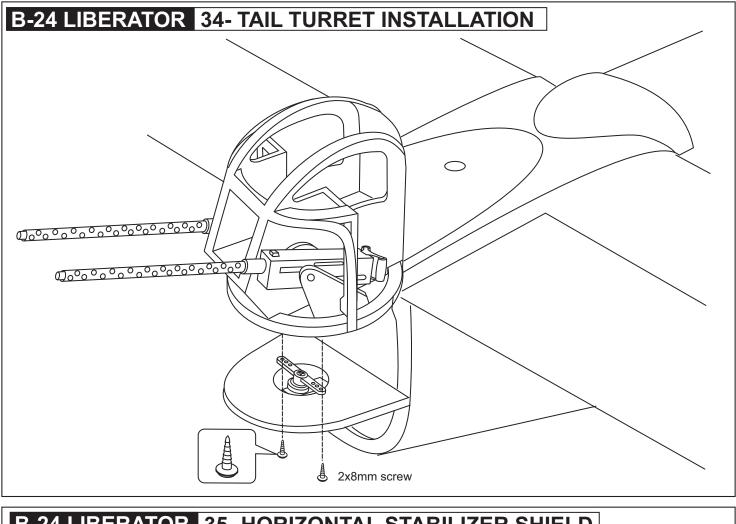
# B-24 LIBERATOR 30- NOSE ERETRACT & STRUT INSTALLATION Secure the nose E-retract gear to the fuselage using 3x20mm screw.

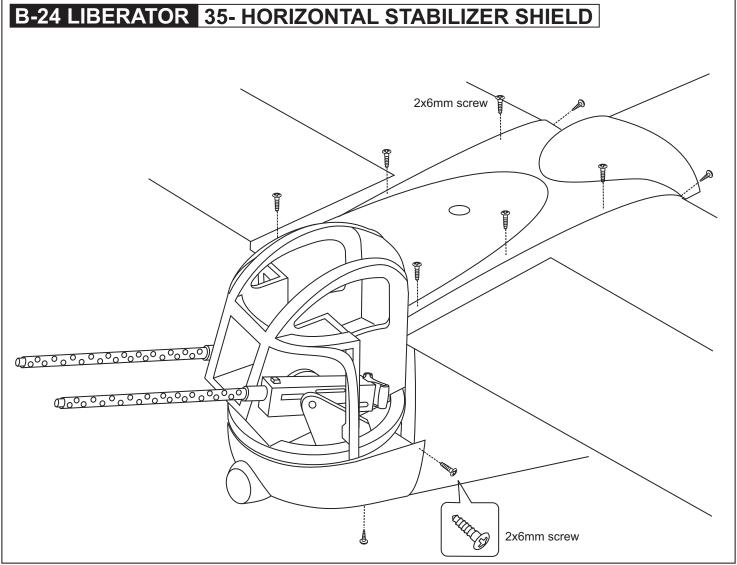
3x20mm bolt ...4

### B-24 LIBERATOR 31- NOSE E-RETRACT & STRUT INSTALLATION Robart E-Retract & Strut www.VQwardbirds.com Secure the nose E-retract gear to the fuselage using 3x20mm screw. To servo To servo 3x20mm bolt

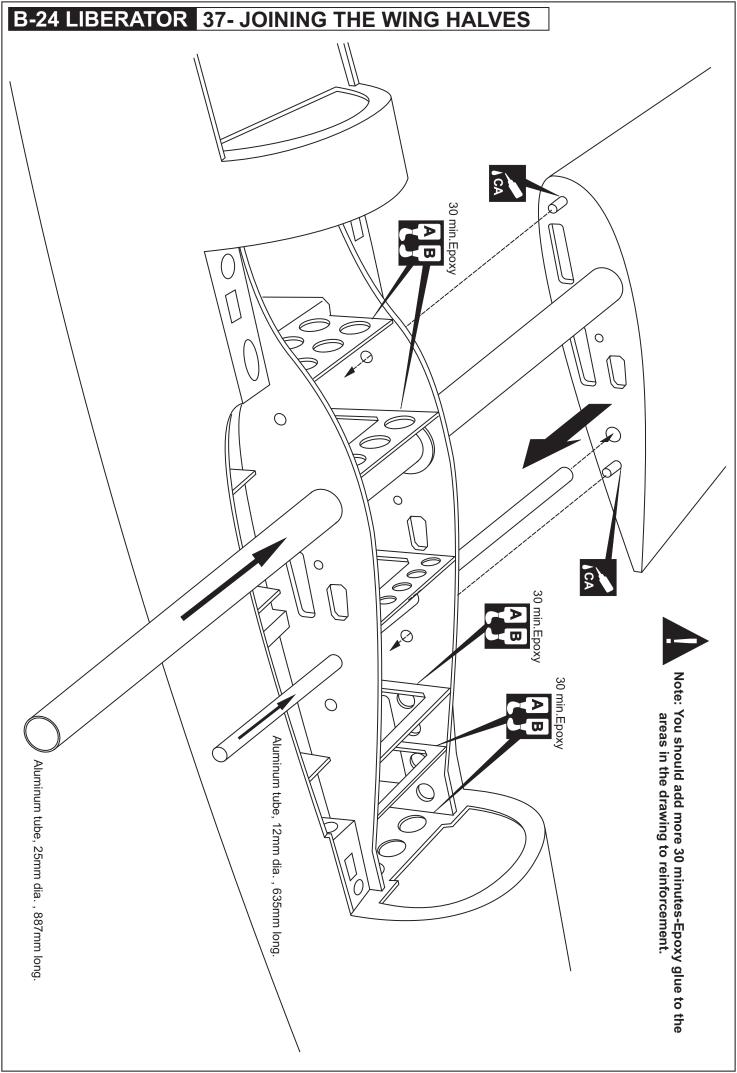
## **B-24 LIBERATOR** 32- NOSE GEAR DOOR INSTALLATION 2x6mm screw 2x6mm screw @Inn

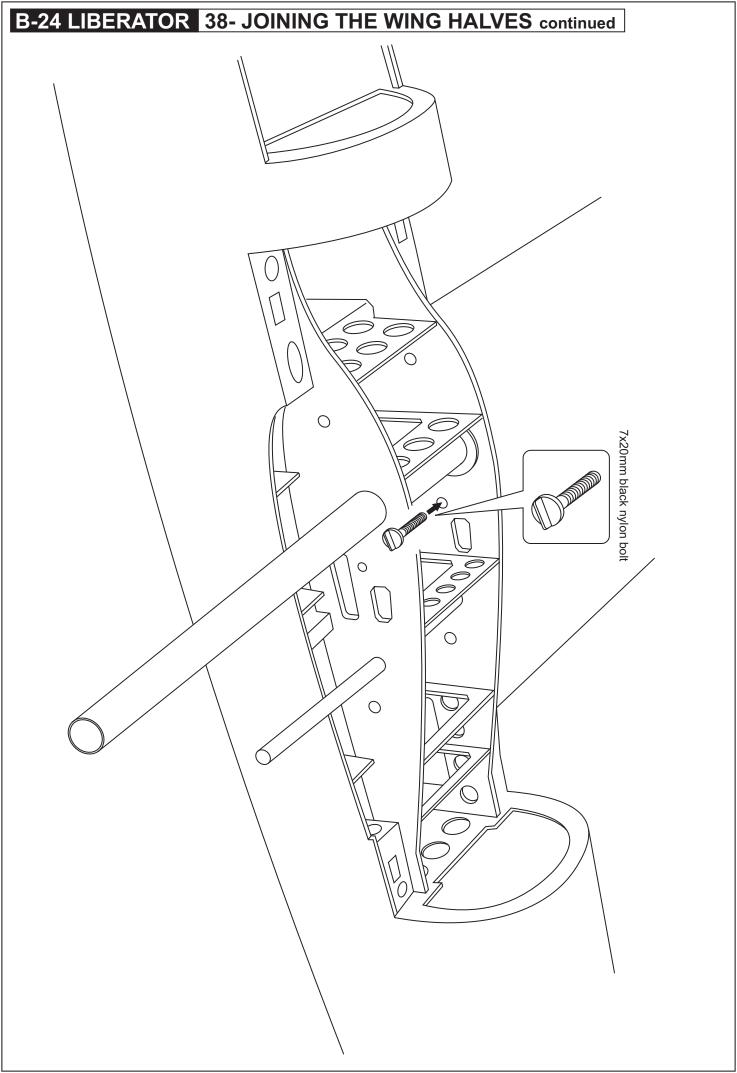


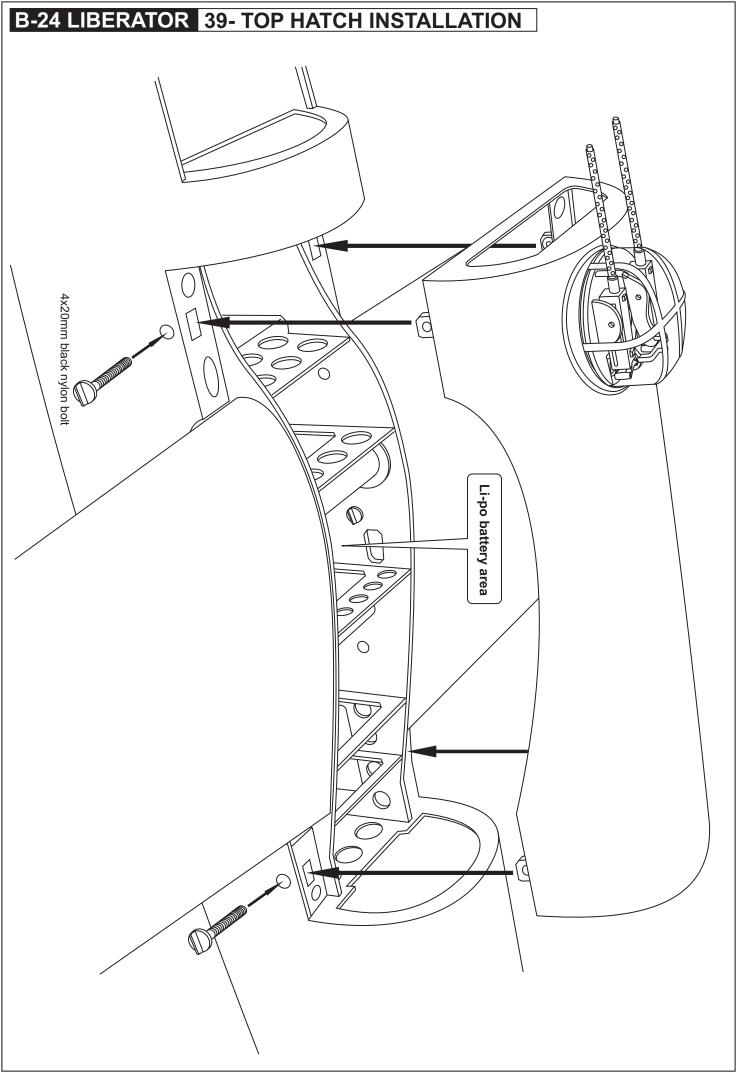




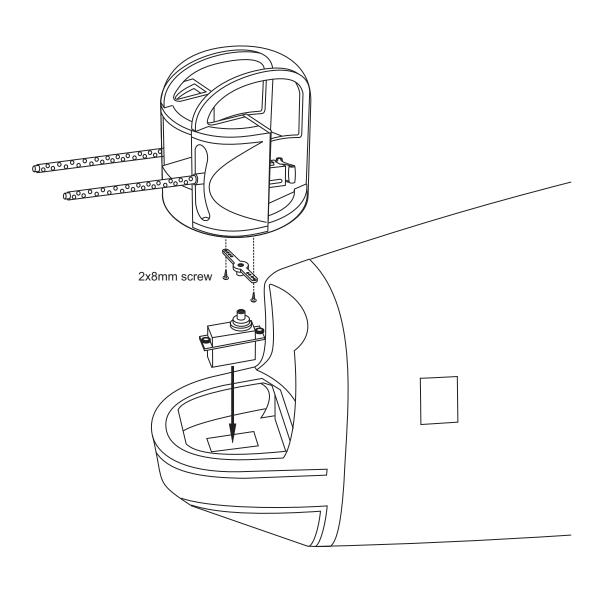
## B-24 LIBERATOR 36- TOP TURRET INSTALLATION 2x8mm screw & 2x8mm screw O

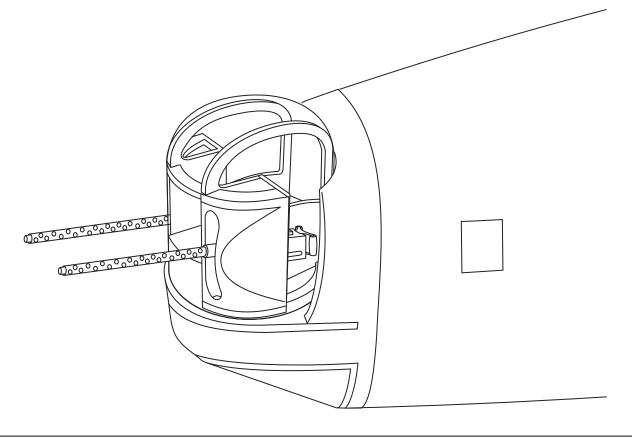


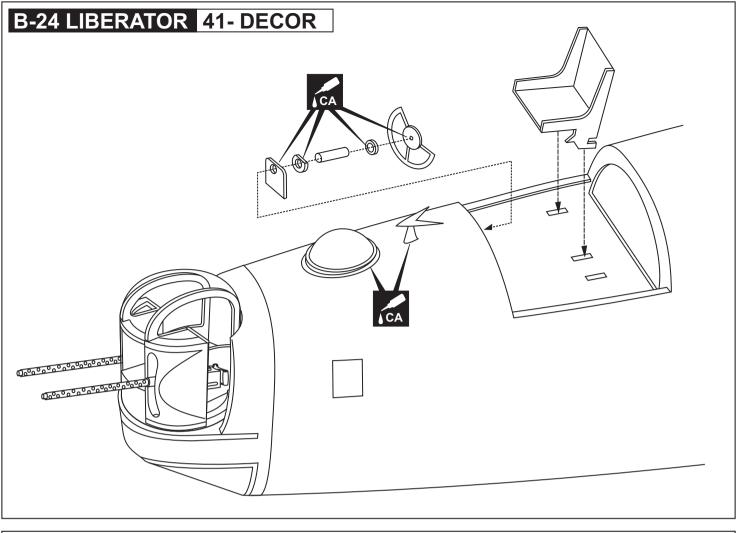


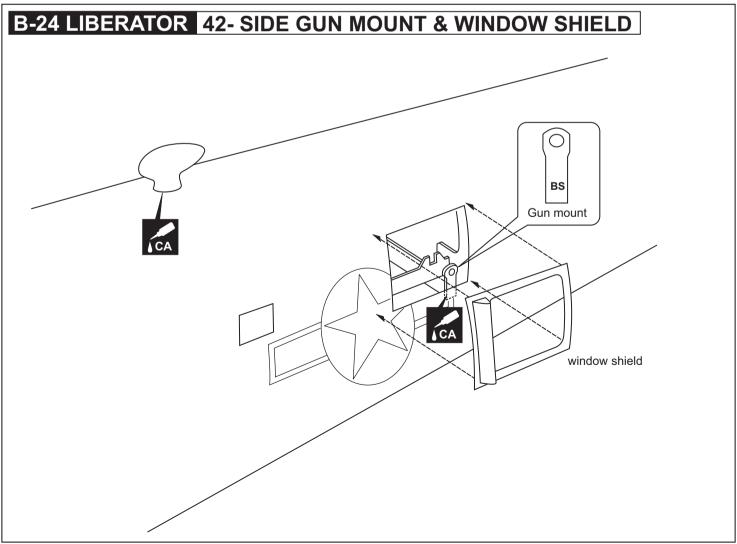


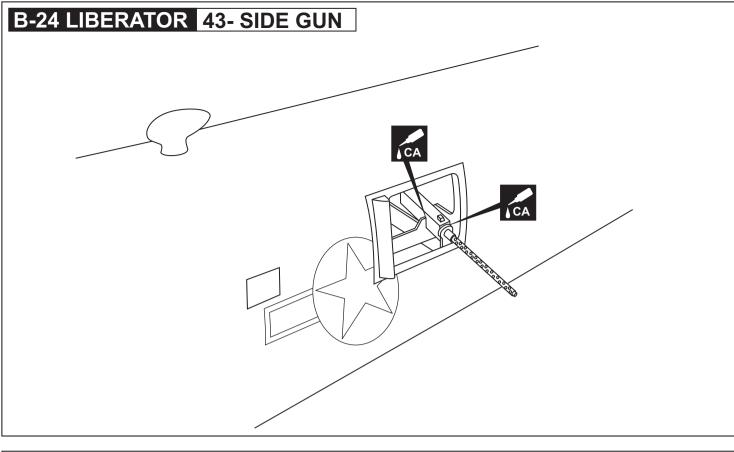
### B-24 LIBERATOR 40- NOSE TURRET INSTALLATION

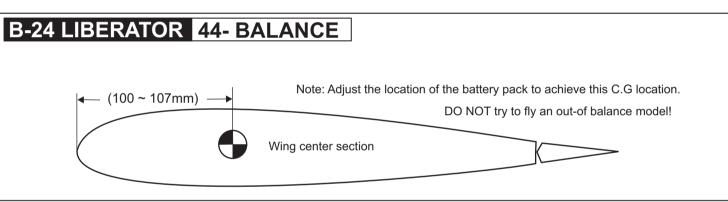


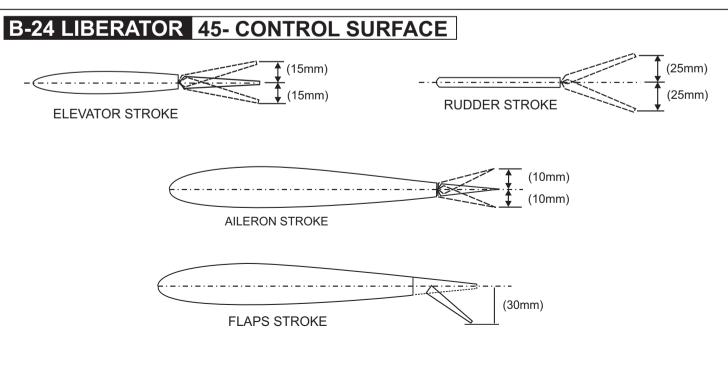








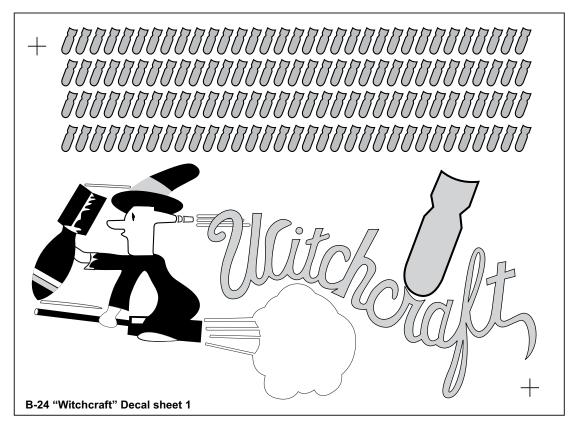


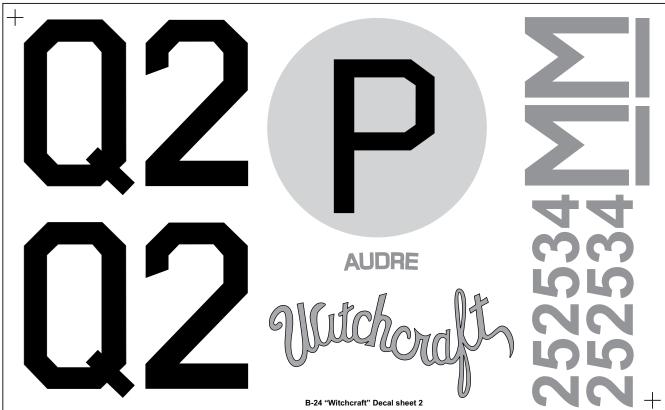


Adjust the travel of the control surfaces to achieve the values stated in the diagrams. These value will be suitable for average flight requirements. Adjust the values to suit your particular needs.

### B-24 LIBERATOR 46- DECAL

B-24 Olive





Note: Cut out the stickers and apply them in the proper area. Do not peel the backing paper off all at once. Peel off one corner of the backing and cut off with scissors.

Arrange sticker on model and when satisfied adhere the corner without backing.

Carefully peel back the rest of the backing while at the same time adhering the rest of the sticker.

Try not to make air bubbles, if there are some, carefully puncture sticker (center of bubble) but not model surface with the tip of the knife or sharp pin and squeeze out the air.

At curves stretch sticker and apply a little heat so that no ceases occur.

Cut off the excess that is produced.

IMPORTANT: Please do not clean your model with strong solvent or pure alcohol, only use kerosene to keep the colour of your model not fade.

### B-24 LIBERATOR 47- DECAL

B-24 Silver



