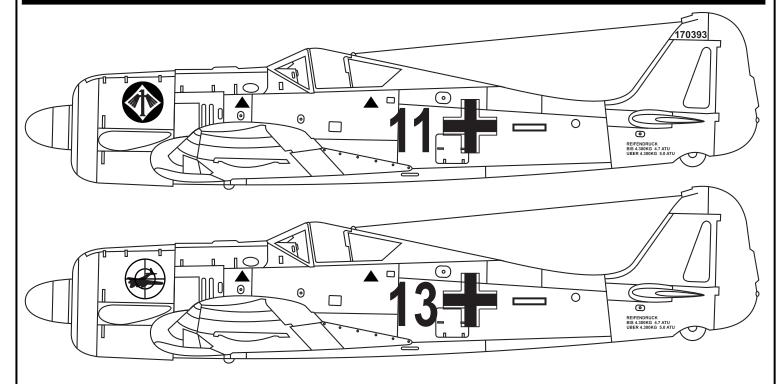
60 Class 2-cycle engine

# **90 Class** 4-cycle engine

# **FW-190A** Focke-Wulf

### **BUILDING INSTRUCTIONS / MONTAGEANLEITUNG**



#### SPECIFICATIONS

Wingspan	1610mm
Length	1220mm
Flying weight	2900g
Electric Motor	800 Watt (BOOST 60)
Glow Engine	7,5cc 2T / 8,5cc 4-T
Radio	5 Channel / 6 Servos

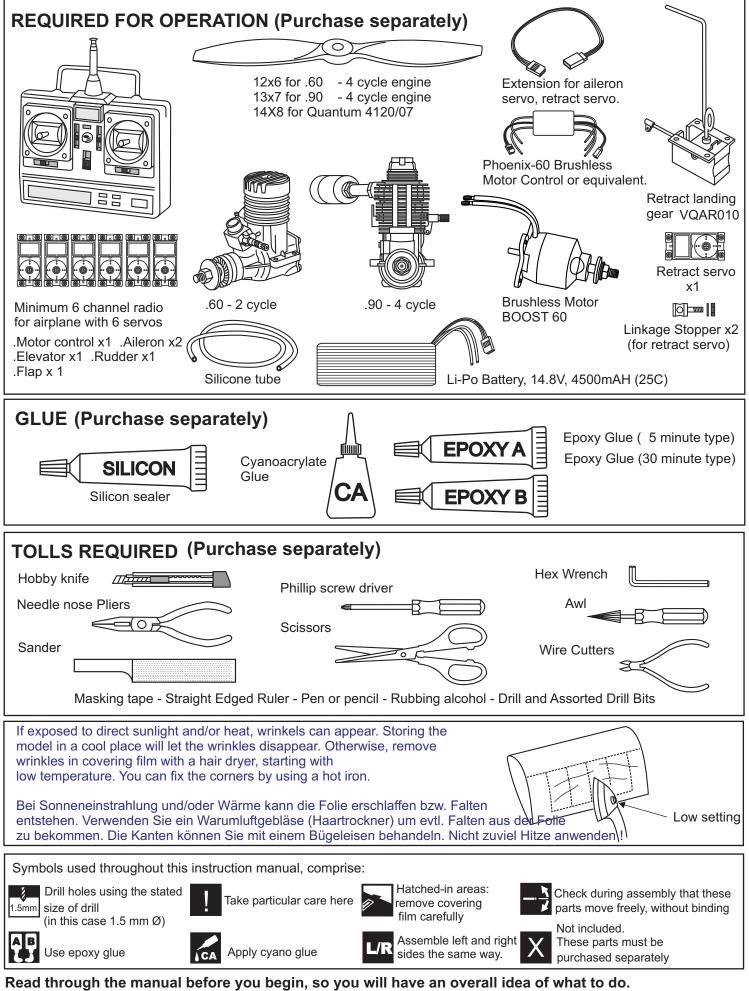
#### **Technische Daten**

Spannweite	1610mm
Länge	1220mm
Fluggewicht	2900g
Elektroantrieb	800 Watt (BOOST 60)
Verbrennerantrieb	7,5cc 2T / 8,5cc 4T
Fernsteuerung	5 Kanal / 6 Servos



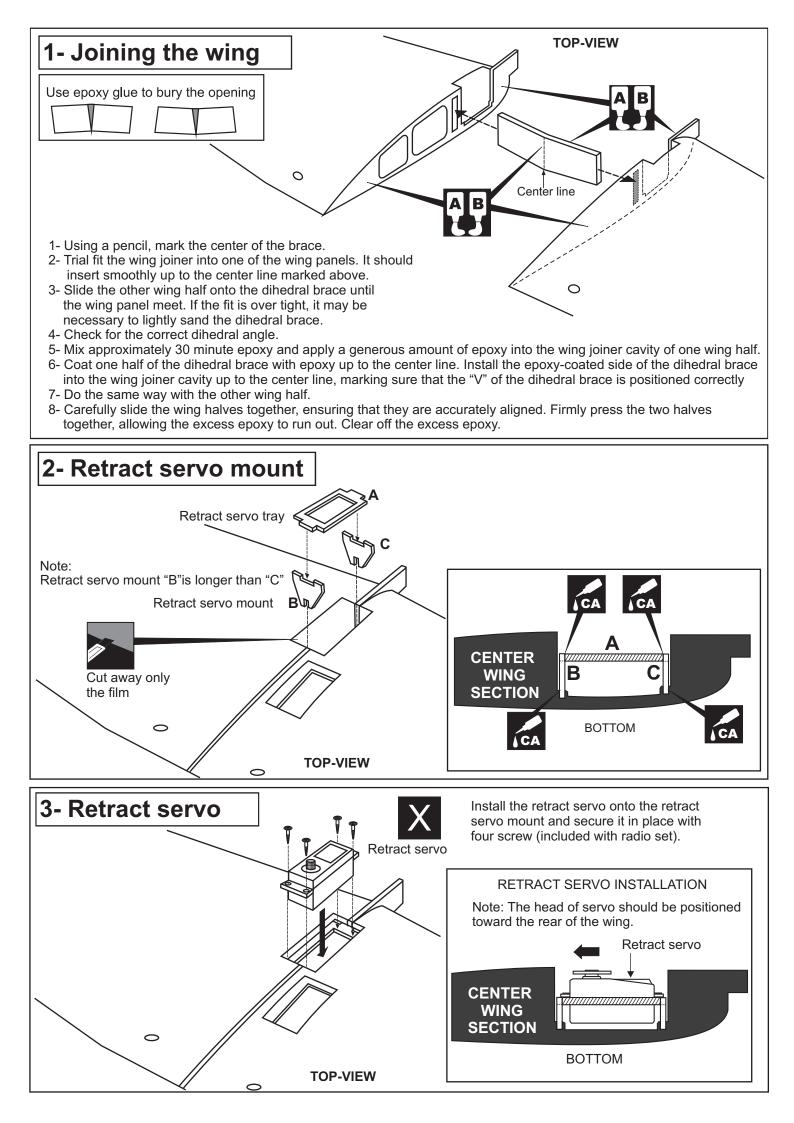
**WARNING!** This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of controll and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice if you are unexperienced.

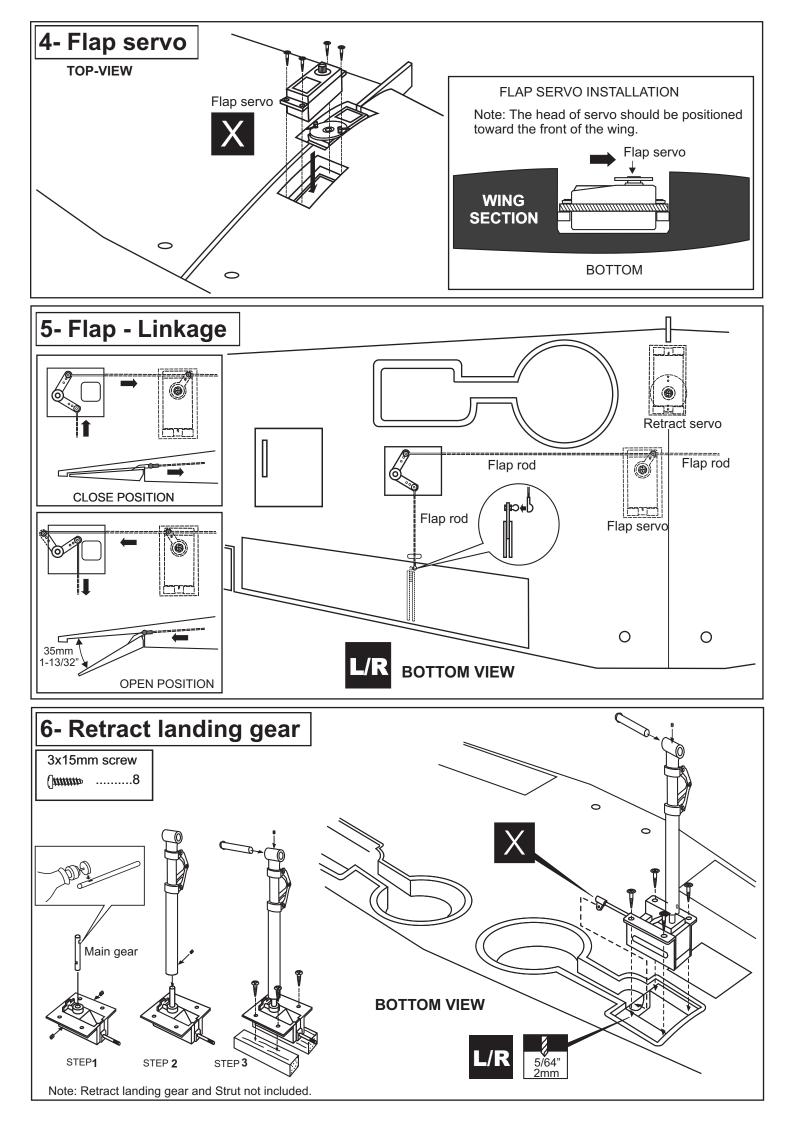
**ACHTUNG!** Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen Bei unsachgemäßer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein in Ihrer Nähe um professionelle Unterstützung, wenn Sie Hilfe im Bau und Betrieb benötigen. Der Zusammenbau dieses Modells ist durch die vielen Abbildungen selbsterklärend und ist für fortgeschrittene, erfahrene Modellbauer bestimmt.



CONVERSION TABLE

1.0mm = 3/64"	3.0mm = 1/8"	10mm = 13/32"	25mm = 1"
1.5mm = 1/16"	4.0mm = 5/32"	12mm = 15/32"	30mm = 1-3/16"
2.0mm = 5/64"	5.0mm = 13/64"	15mm = 19/32"	45mm = 1-51/64"
2.5mm = 3/32"	6.0mm = 15/64"	20mm = 51/64"	

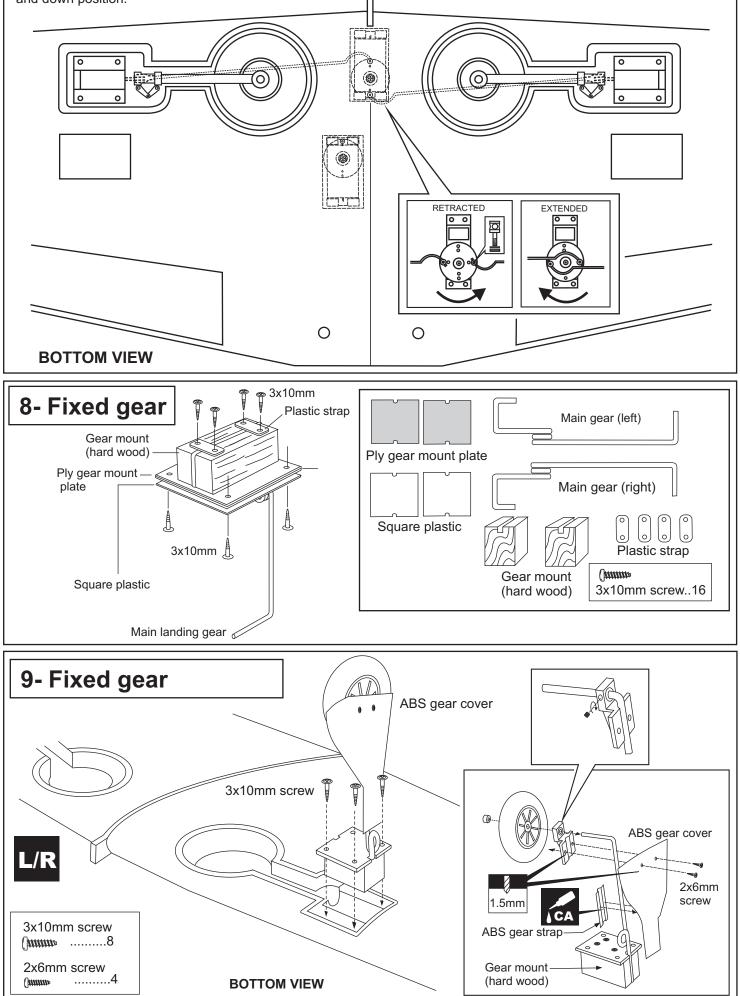


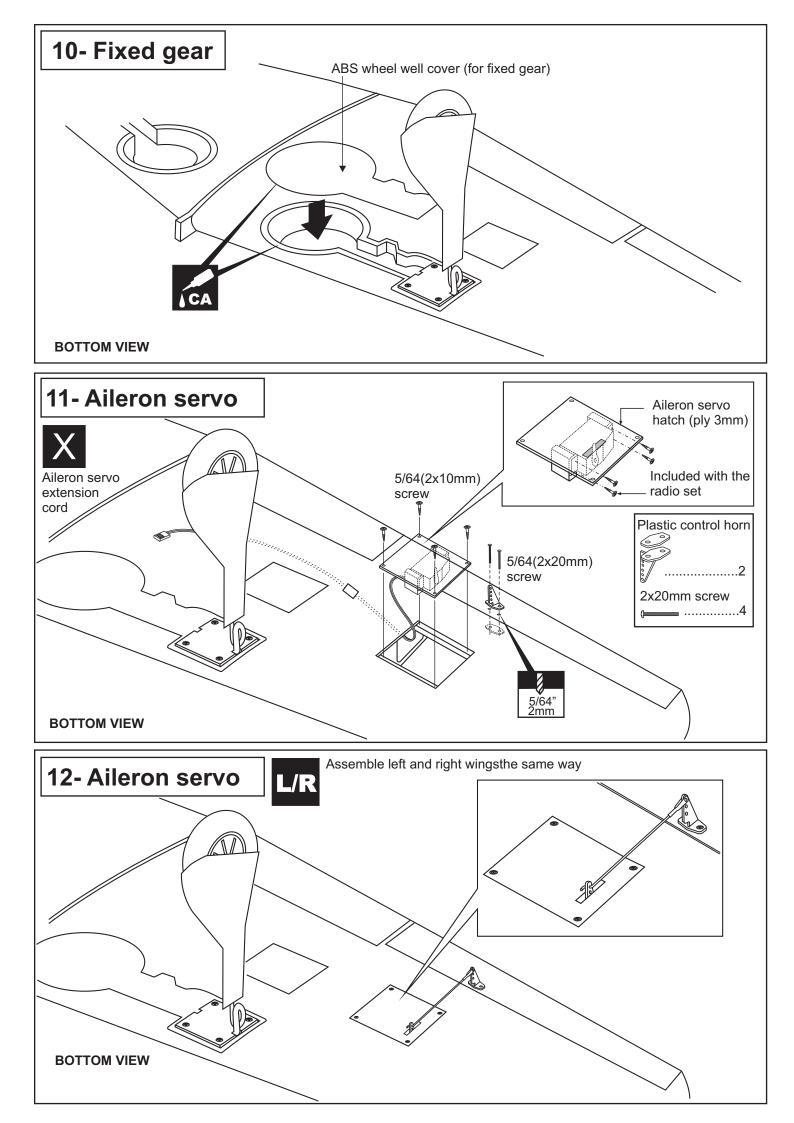


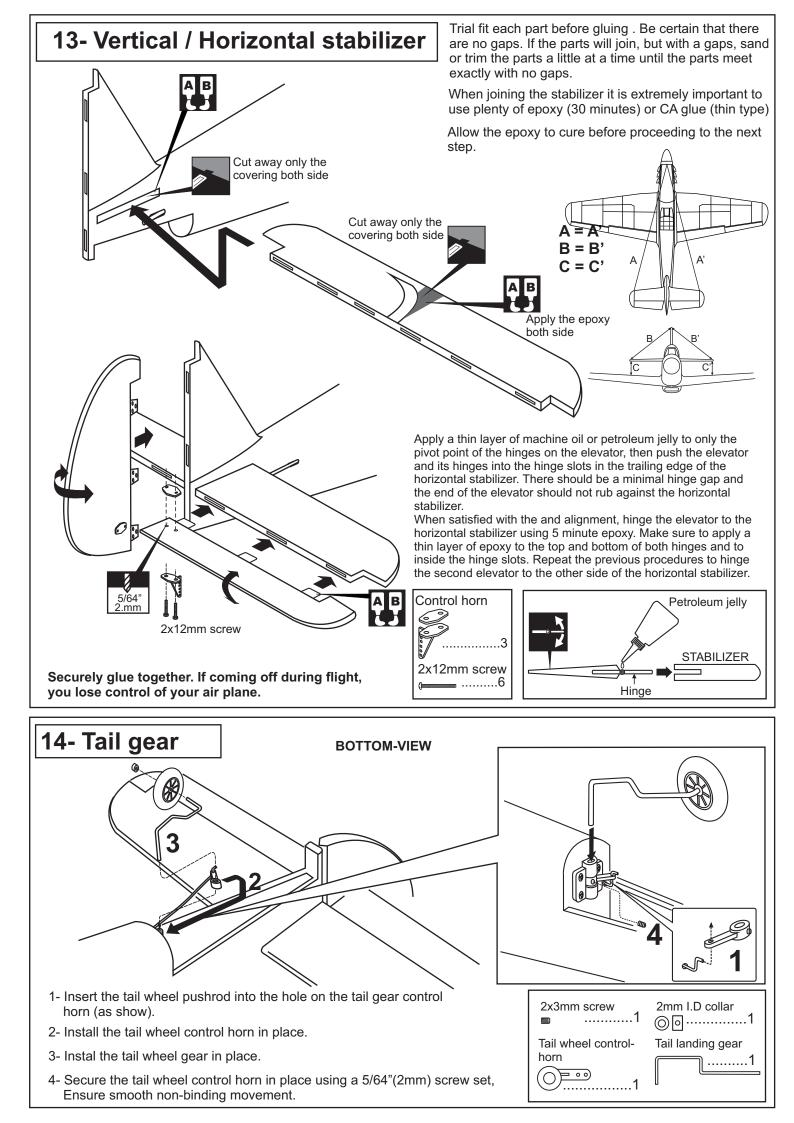
## 7- Retract landing gear

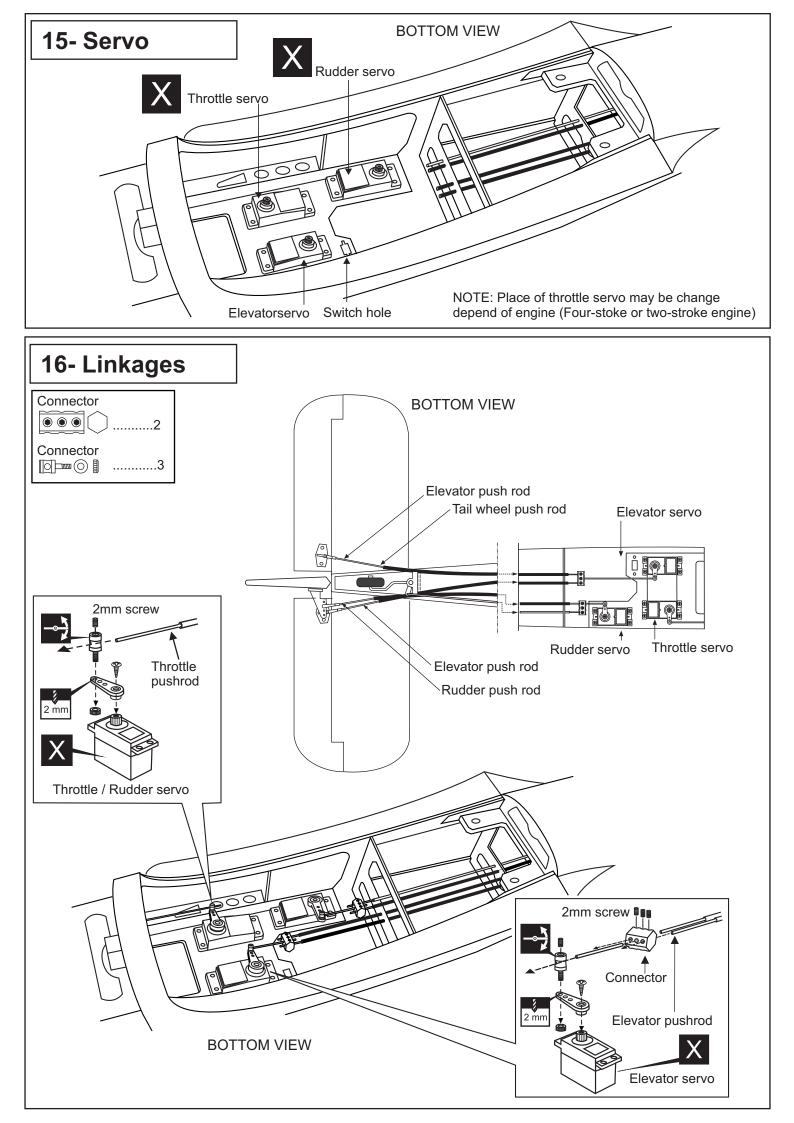
With the retract and retract servo in the retracted position, mark the position where each of the pushrod will attach to the servo arm, a small piece of masking tape works well for this. Cut off the excess length each rod.

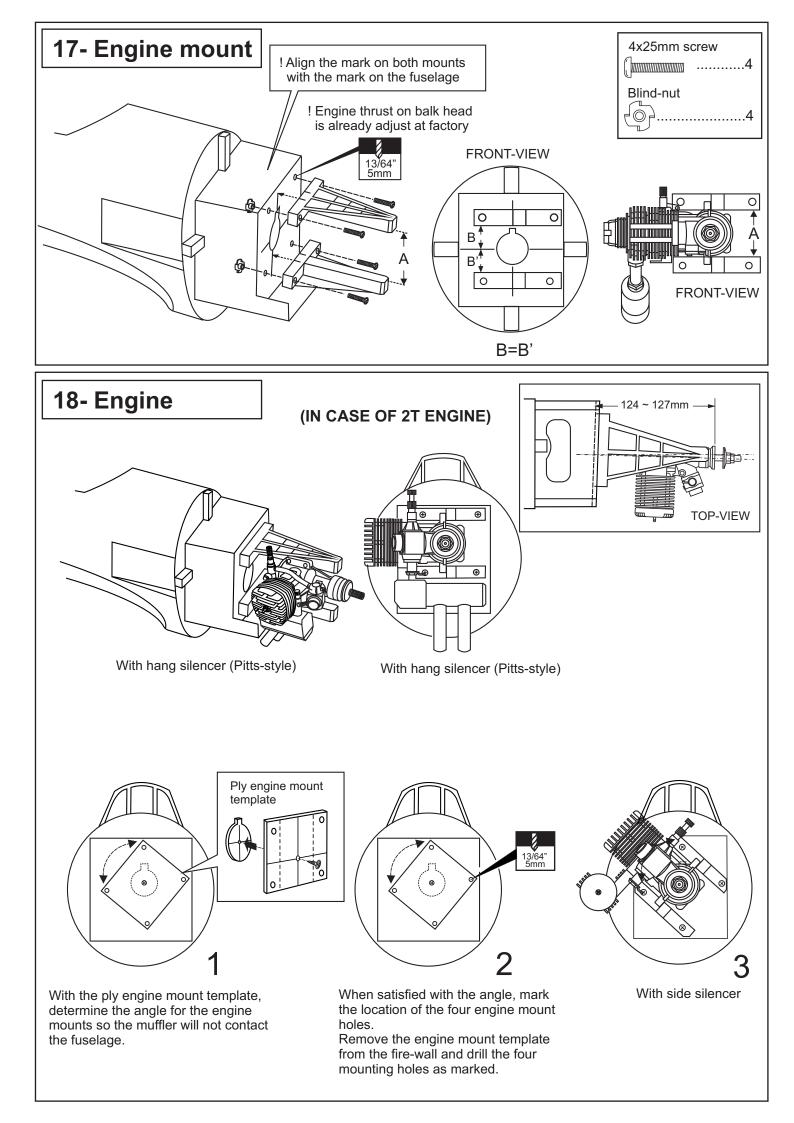
Link the servo and retract gear arm with push rod. Be sure to adjust the stroke so that the landing gear locks in both up and down position.

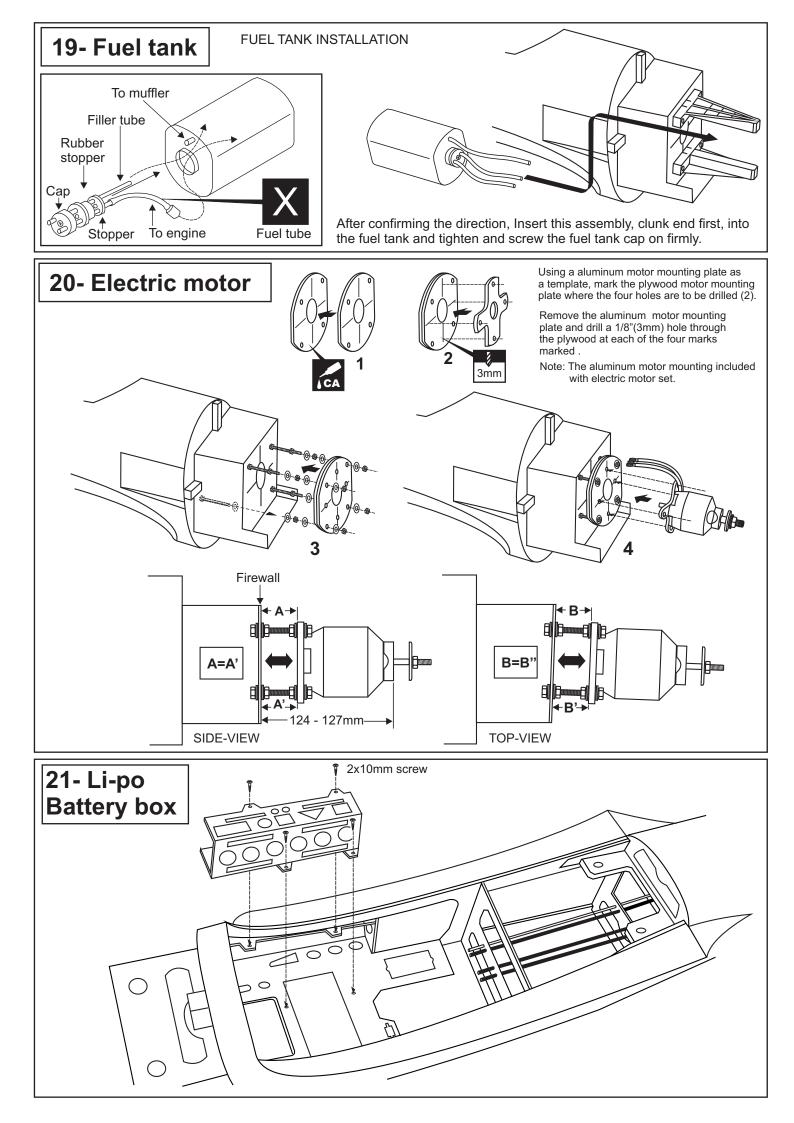


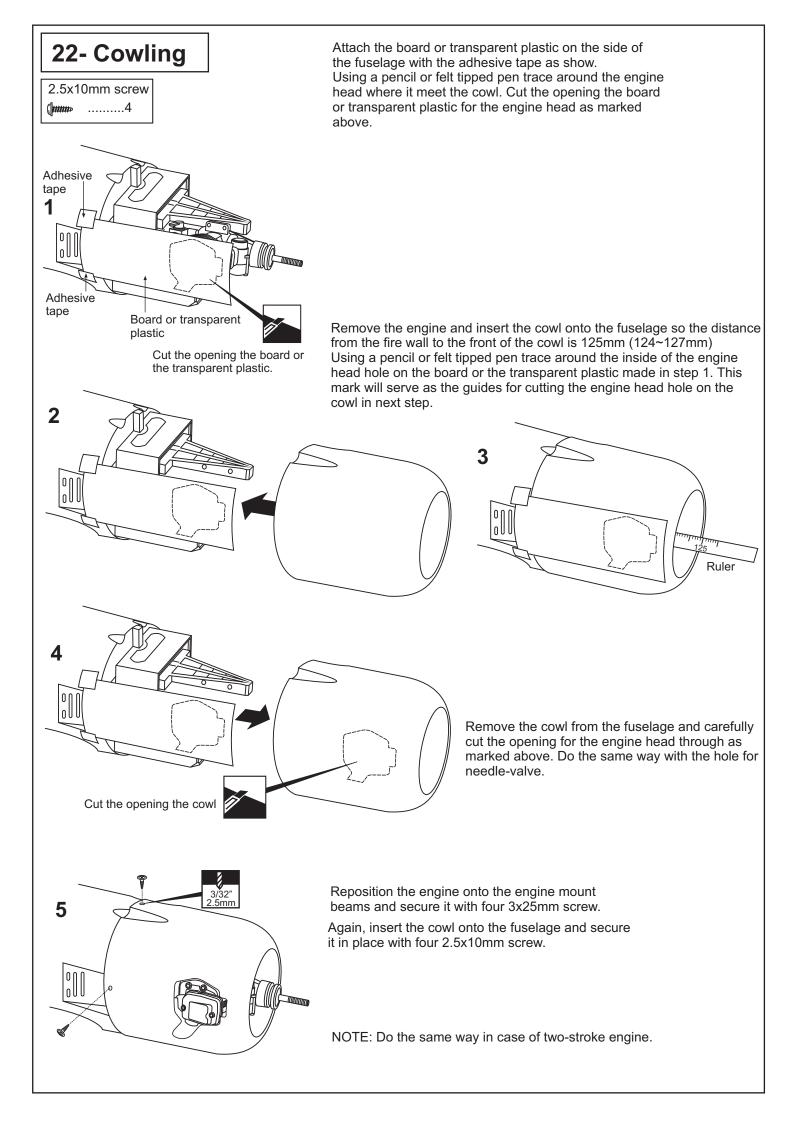


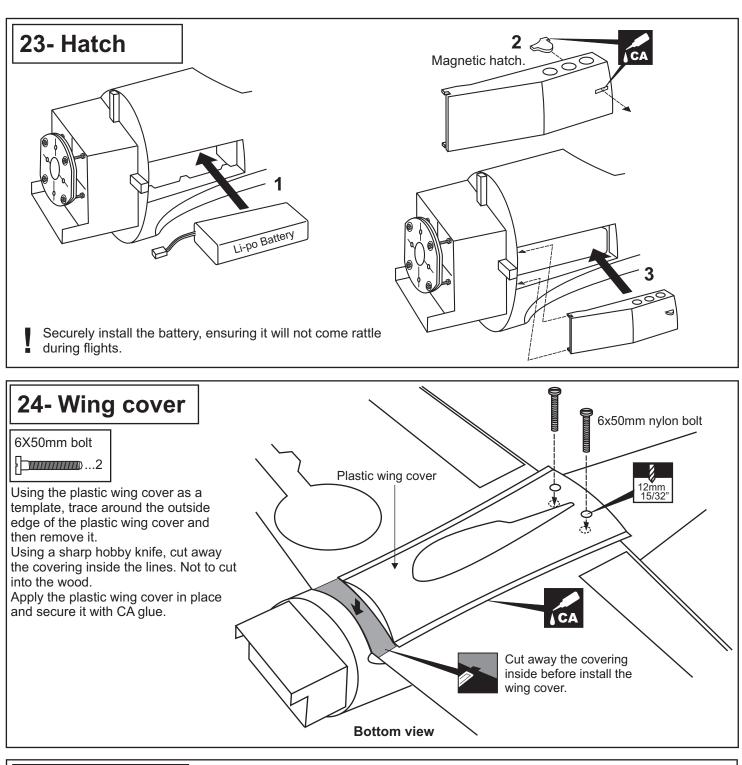


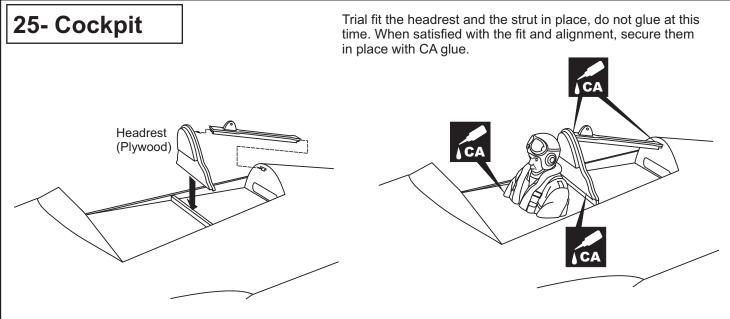


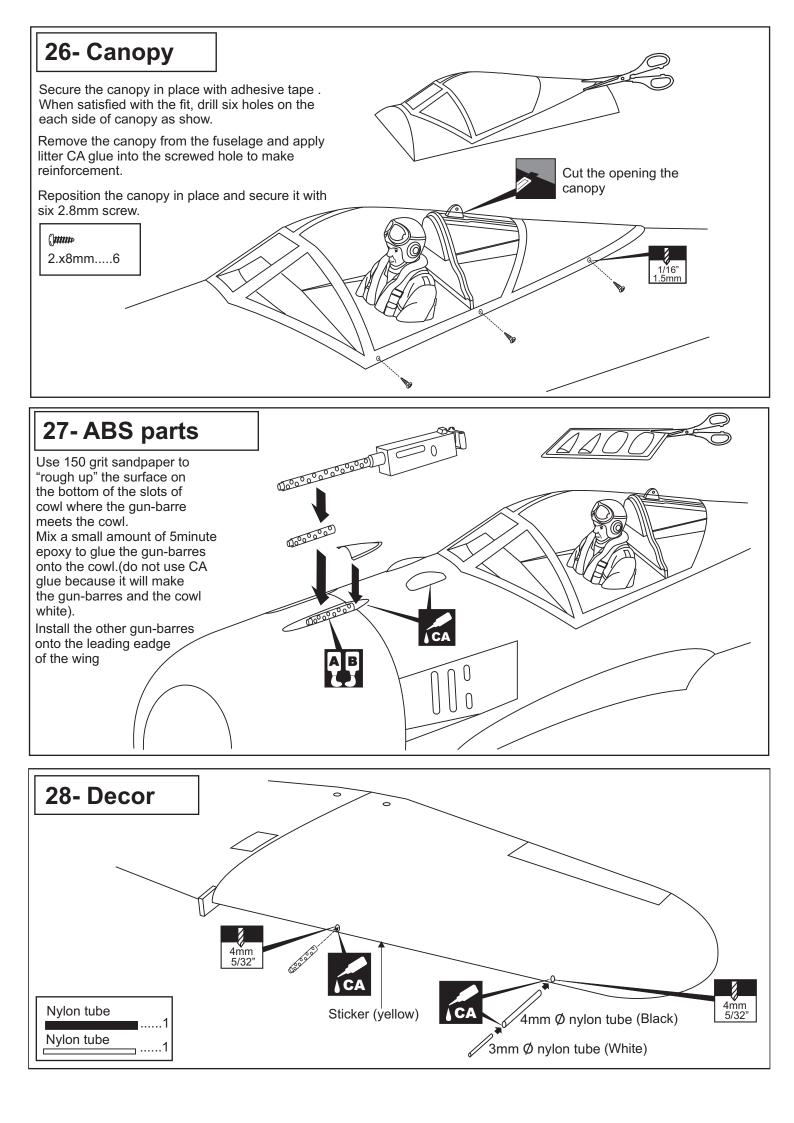


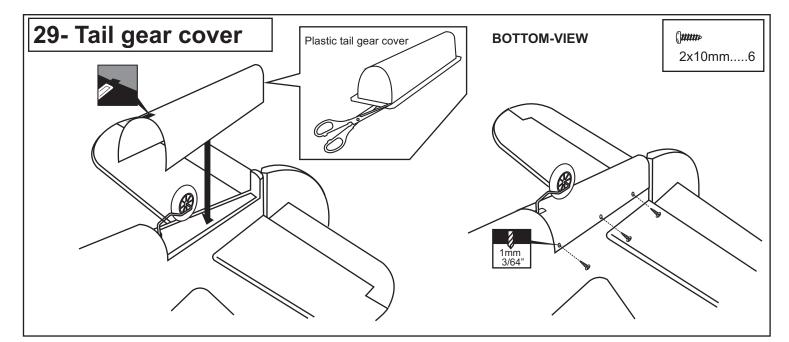


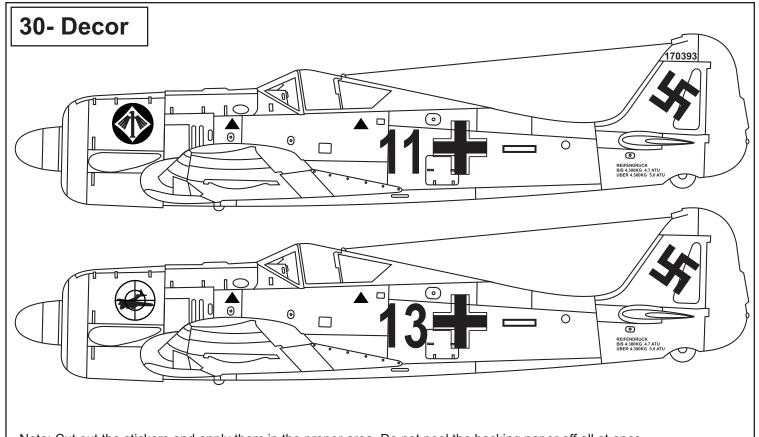










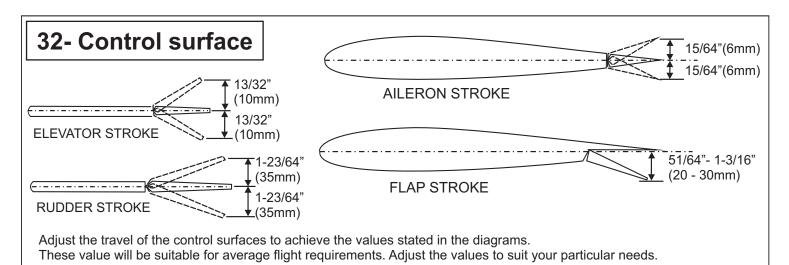


Note: Cut out the stickers and apply them in the proper area. Do not peel the backing paper off all at once. Peel off one corner of the backing and cut off with scissors. Arrange sticker on model and when satisfied adhere the corner without backing.

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.

31- Balance	Note: Adjust the location of the battery pack to achieve this C.G location.
(107 ~ 110mm)	DO NOT try to fly an out-of balance model! Wing center section

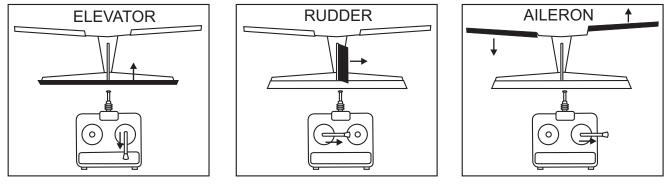


#### PRE-FLIGHT CHECKING AND ADJUSTING YOUR MODEL

It is almost impossible to fly your model without checking and adjusting your model. You can stop easily if your car is not running strait. But you cannot stop your airplane after take off. Your plane could go right or left. Or even go up or down. Without understanding these instruction before flying the Ki-61, you might otherwise have difficulty in flying, or crash the plane. If you are new to Radio Control flying, you should not fly the Ki-61 but have an expert fly it. Even if you are experienced pilot, read this before your first flight. PRE-FLIGHT CHECK

1-Balance: There is very important relationship between the CG position and stall characteristic of an airplane or knife-edge performance. An aft CG will make the plane snap roll instead of making a clean stall. And your plane goes to down side at knife edge flying instead of strait. To measure the CG position, measure  $4 \sim 4-1/8$ " (100 ~ 105mm) from leading edge ( a + / - 13/64" = 5mm is fine).

2-Check the operation and direction of the elevator, rudder, ailerons and throttle:



#### CAUTIONS FOR SAFETY

Ensure the airfield is spacious enough.

Ensure the spinner and propeller are securely attached. Immediately disure defective propeller as well as deformed spinners.

Adjust the engine always from behind, but never from infront or the sides as rotating propeller may badly injure you.

Do not allow watching people to get too close to a rotating propeller.

Fully extend the transmitter and receiver antenna.

Always take off and landing your airplane into the wind.

Switch off the transmitter and receiver after landing.

Do not fly your airplane above people standing around.

#### BEFORE FLYING CHECK EVERYTHING

Before each flight, inspect the airplane for any loose parts. Check the hinges, make sure the pushrods are still firmly attached, and check the engine mounting bolts. In general, check everything on the plane that might possibly come loose.

CHECK THE FREQUENCE BEFORE FLYING

#### DO NOT FLY NEAR A POWER LINE

The power lines cause radio interference, so avoid flying near them.

#### WARNING

Do not put in a large-than recommended engine. A bigger engine does not necessarily mean better performance.