# Super Frontier 20



0.20-0.25 cu.in. displacement 2-cycle 0.26 cu.in. displacement 4-cycle Radio required: 4 channels, 4 servos airplane radio

## Specifications

Wing Span 54.0 in / 1360mm
Wing Area 496 sq in / 32 sq dm
Flying Weight 3.5-4.0 lbs / 1500-1700g
Fuselage Length 44.0 in / 1170mm

\* 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 MANUFACTURING CO. LTD.

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



# Super **Frontior - 20**——INDEX——

BEFORE YOU BEGIN	P 1
PARTS LIST	P. 2
ASSEMBLY	P. 3 - 10
SAFETY PRECAUTIONS	P. 11

# **BEFORE YOU BEGIN**

- 1 Read through the manual before you begin, so you will 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 be difficult to extend to the good parts that are good before gluing to defective parts during assembly.
- Symbols used throughout this instruction manual comprise of the following: -
  - AB

Apply epoxy glue.



Apply instant glue (C.A.glue, super glue.)



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.



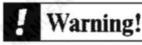
Drill holes with the specified diameter (here: 3mm).



Must be purchased separately!



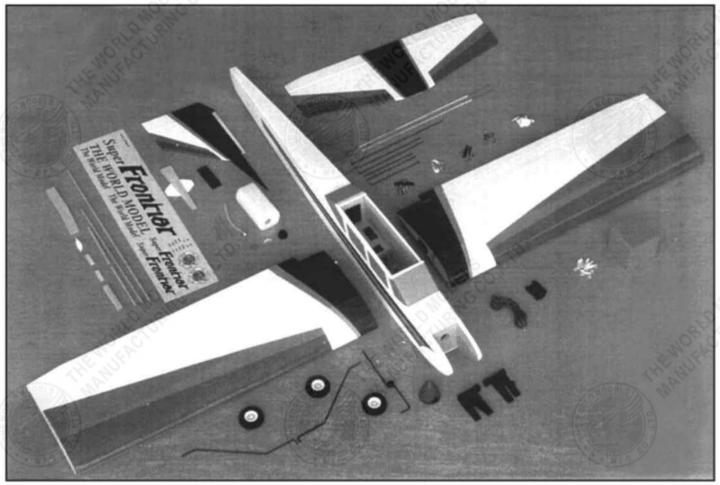
Pay close attention here!



Do not overlook this symbol!



Pierce the shaded portion covering film.



### Parts List

1. FUSELAGE - 1 pc

2. MAIN WING (w/Wing Joiner) - 1 pair

3. STABILIZER & ELEVATOR - 1 set

4.VERTICAL FIN & RUDDER - 1 set

5.ENGINE MOUNT PL5111-030 - 1 set

6.SPINNER Ø45mm - 1 pc

7.FUEL TANK 200cc - 1 set

8.WHEEL Ø50mm - 3 pcs

9.SPONGE 75x75x70mm (For Radio Equipment) – 1 pc

10.FRONT LANDING GEAR - 1 pc

11.MAIN LANDING GEAR - 1 pair

### 12.PUSHROD:-

WOODEN ROD Ø6x300mm (For Rudder Servo) – 1 pc
WOODEN ROD Ø6x420mm (For Elevator Servo) – 1 pc
METAL ROD Ø1.8x175mm (For Rudder Servo) – 1 pc
METAL ROD Ø1.8x175mm (For Elevator Servo) – 1 pc
METAL ROD Ø1.8x250mm w/Threads (For Rudder Servo) – 1 pc
METAL ROD Ø1.8x130mm w/Threads (For Elevator Servo) – 1 pc
METAL ROD Ø1.8x130mm w/Threads (For Elevator Servo) – 1 pc
METAL ROD Ø1.8x130mm w/Threads (For Aileron Servo) – 2 pcs
METAL ROD Ø1.2x400mm (For Front Wheel & Throttle) – 2 pcs

17.FUEL TUBE Ø6x5mm – 7 pcs

### 13.PUSHWIRE:-

FRONT WHEEL & THROTTLE PUSHWIRE d2xD3x300mm - 2 pcs

### 14.WOODEN PARTS:-

BALSA 7x8x30mm (For Aileron Servo) – 1 pc PLYWOOD (Fin TiP) 10x39mm – 1 pc PLYWOOD 144x64mm (For Fixing Stabilizer) – 1 pc PLYWOOD 2x20x55mm (Wing Protection) – 1 pc PLYWOOD 3x8x30mm (For Aileron Servo) – 2 pcs PLYWOOD 10x10x71mm (For Fixing Fuel Tank) – 1 pc WOODEN ROD Ø6x115mm (For Fixing Wing) – 2 pcs WING JOINER 9x20.5x140mm – 1 pc

### 15.PLASTIC PARTS:-

STRAPER (FOR AILERON & ELEVATOR SERVO) – 3 pcs PLASTIC RING (FOR AILERON HORN) – 2 pcs HORN (FOR RUDDER & ELEVATOR) – 2 sets STEERING ARM (FOR FRONT WHEEL) – 1 pc PLASTIC PLATE (FOR MAIN LANDING GEAR) 2 pcs CLEVIS – 4 pcs

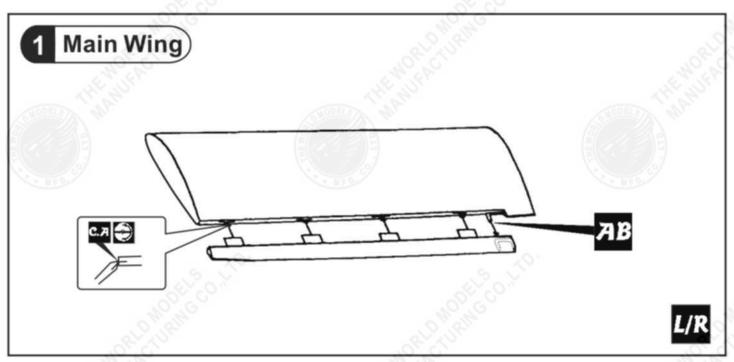
### 16.METAL PARTS:-

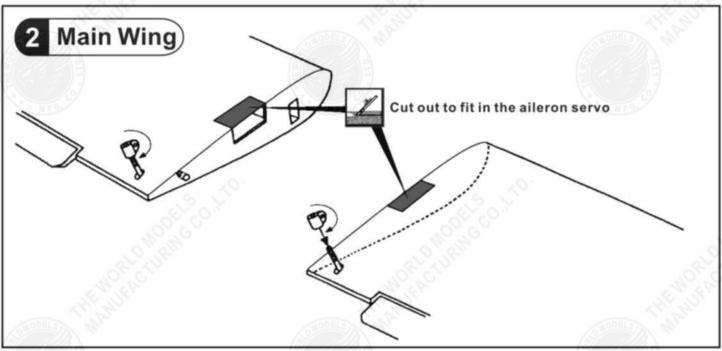
NUT 3mm – 10 pcs
LINKAGE CONNECTOR 2.1mm – 3 sets
COLLAR 3.1mm – 8 pcs
SCREW PA3x12mm – 4 pcs
SCREW PM2x12mm – 4 pcs
SCREW PM3x16mm – 2 pcs
SCREW PM3x22mm – 4 pcs
SCREW PM3x25mm – 4 pcs
SCREW PM3x25mm – 4 pcs
WASHER d3xD7mm – 12 pcs
WASHER d3xD12mm – 4 pcs

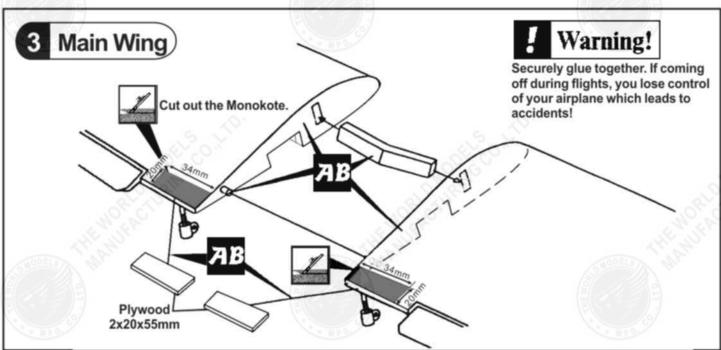
17.FUEL TUBE Ø6x5mm – 7 pcs HEAT - SHRINK TUBE Ø6x40mm – 4 pcs

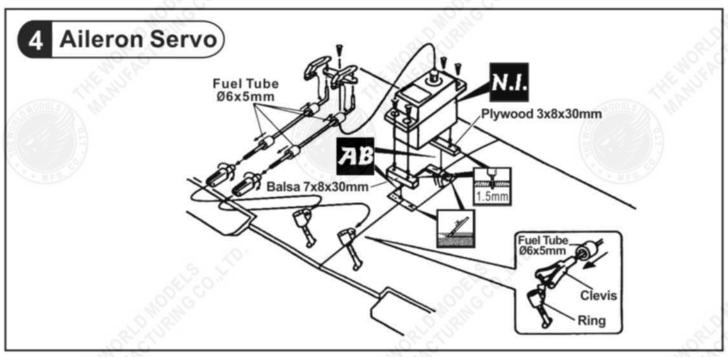
18.RUBBER BAND 60x4mm - 8 pcs

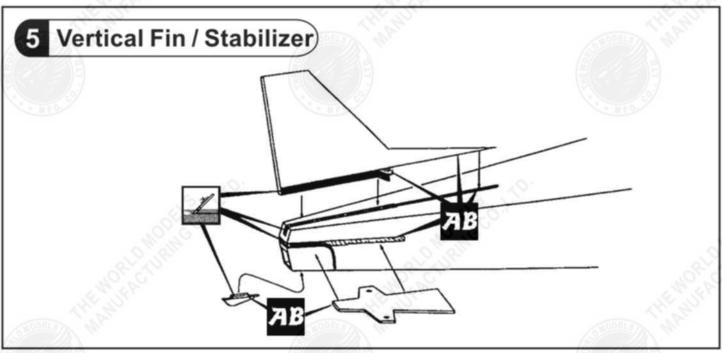
19.DECALS PN:ST200015 - 1 set

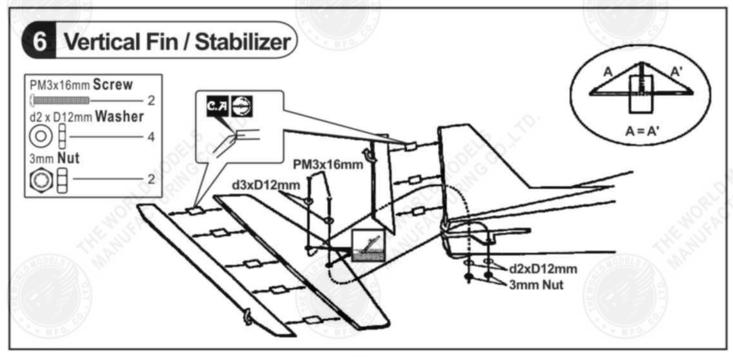


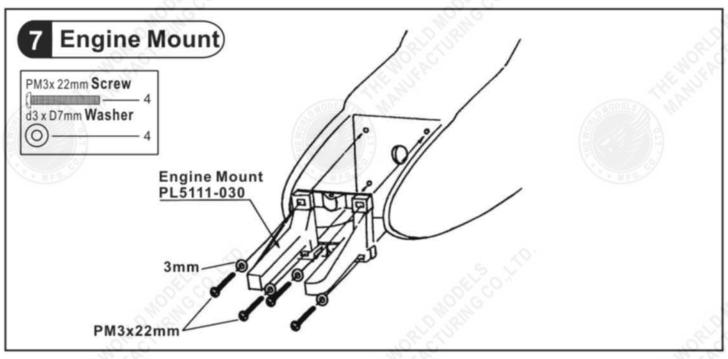


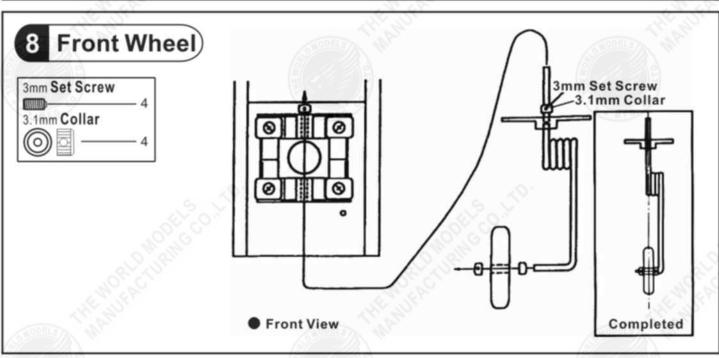


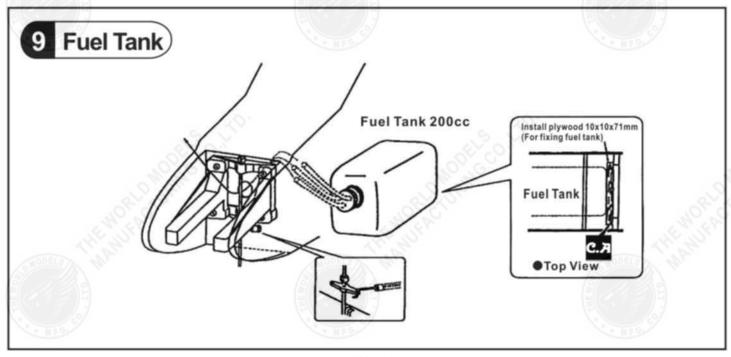


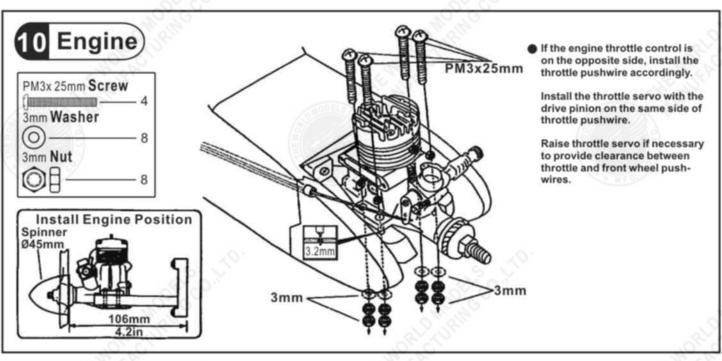


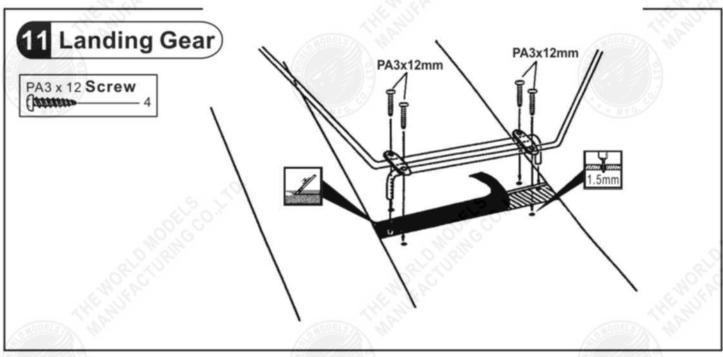


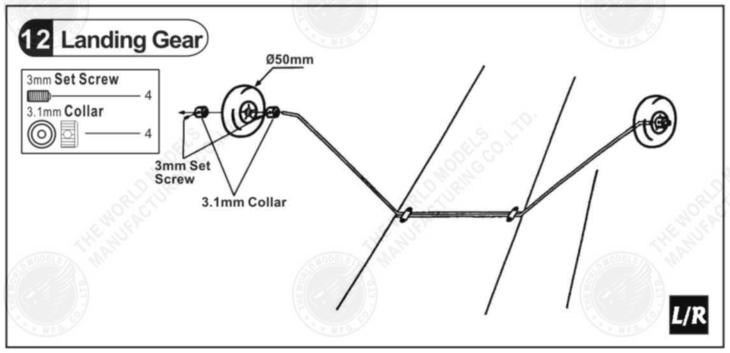


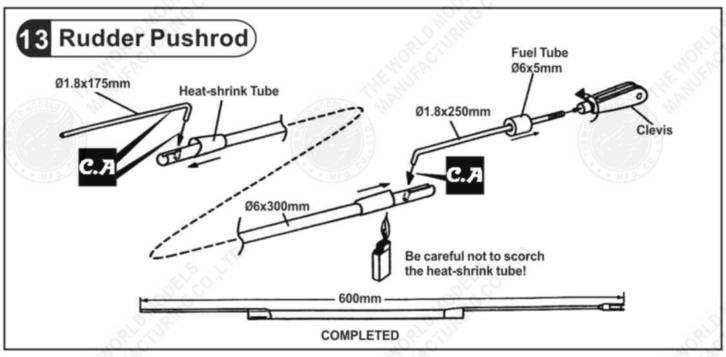


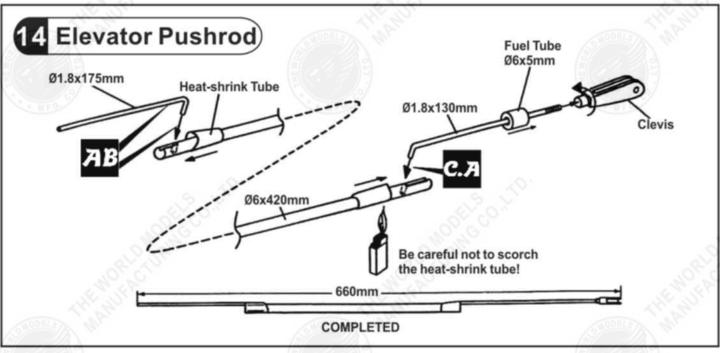


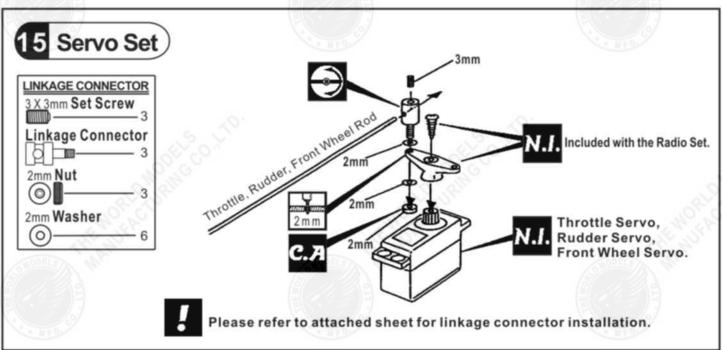


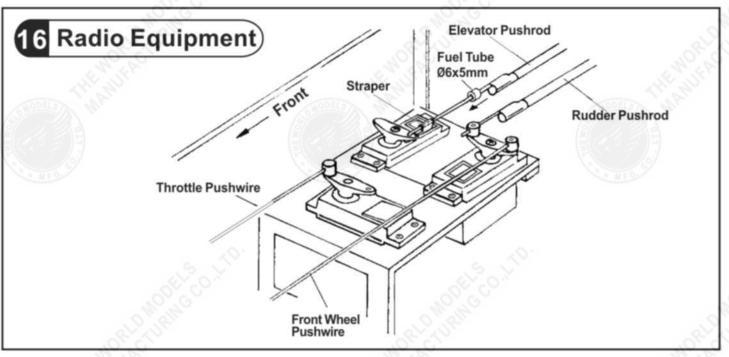


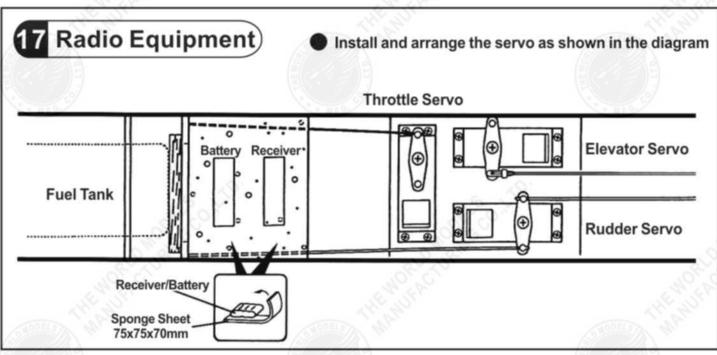


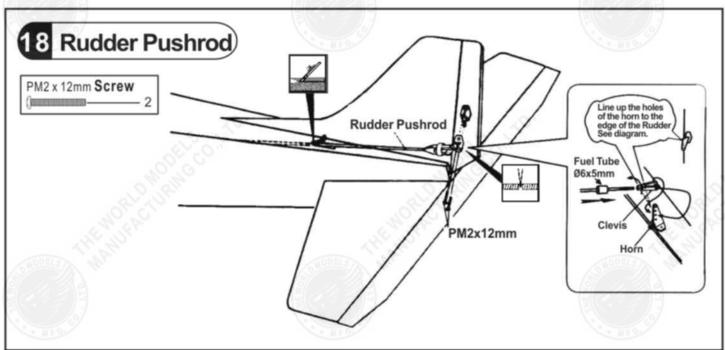


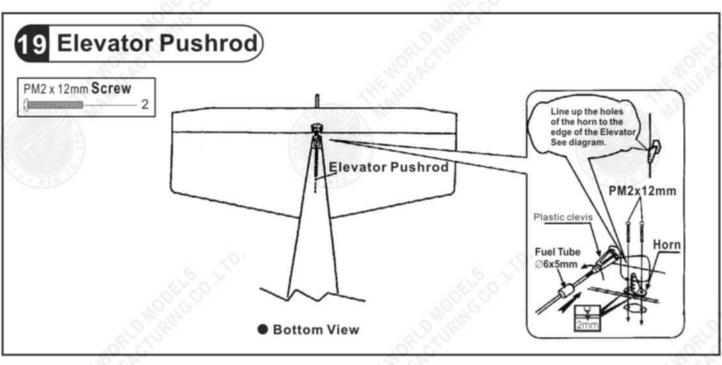


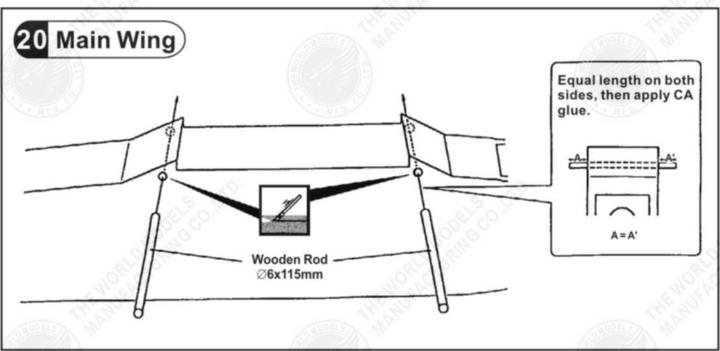


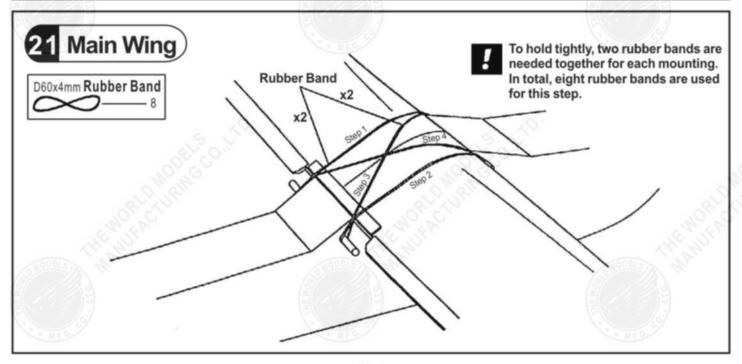


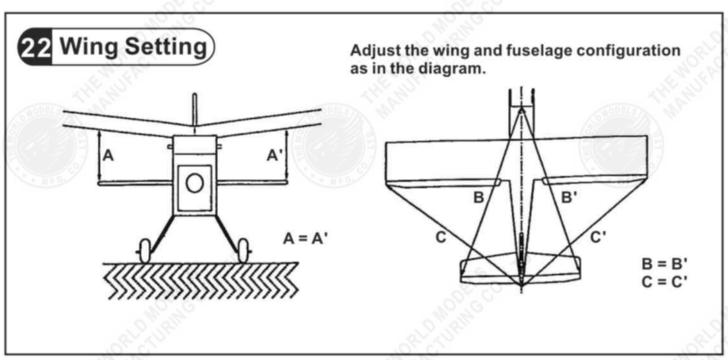


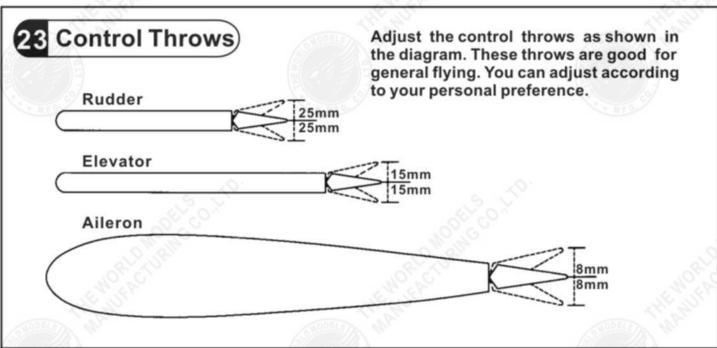


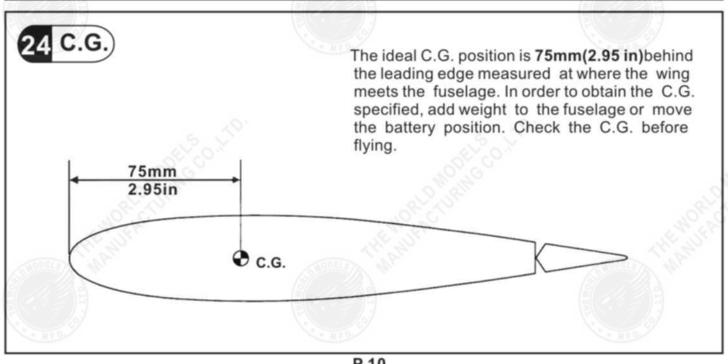


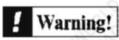












### Important Safety Precautions

#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.

**#SUPER FRONTIER-20** is specially designed to be powered by **2C 20-25 or 4C 26** 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.

#Check and re-tighten up all factory assembled screws, use thread locker if applicable.

### A038R0402

















