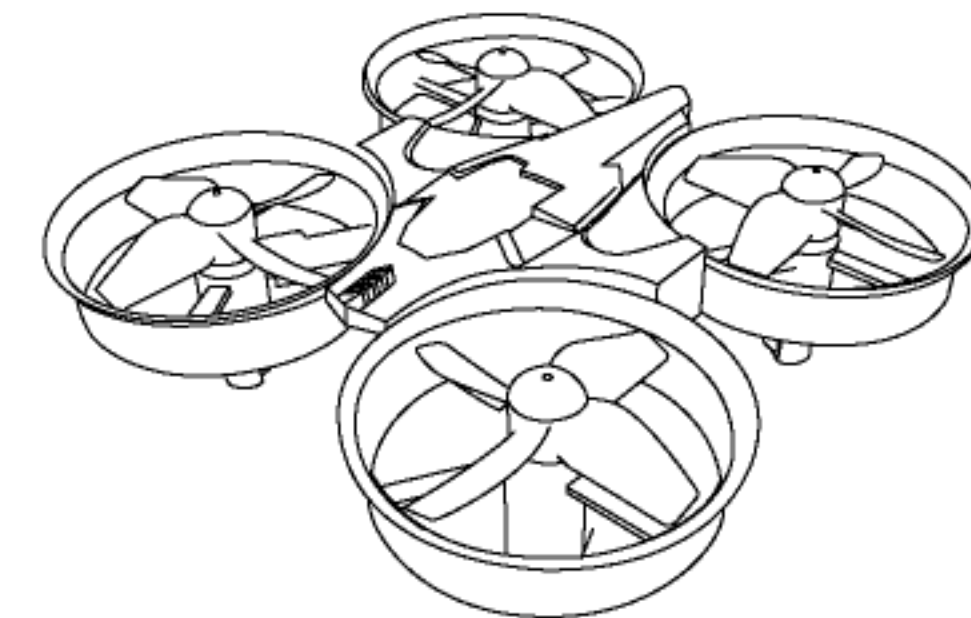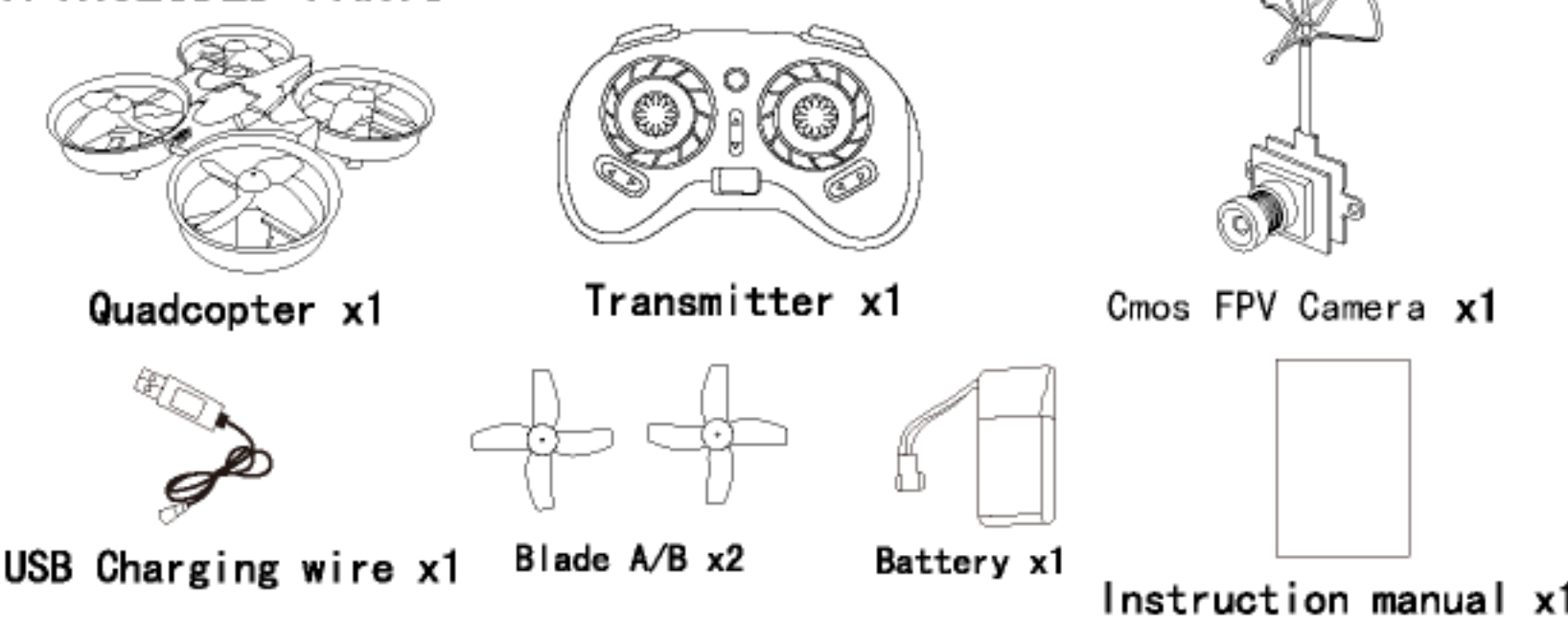# INSTRUCTION MANUAL

- Headless mode
- One key flip
- One key rotation
- One key recover balance mode
- One key Headless mode return
- Brand new remote with trimming control mode
- First Person View (Indoor Racing Drone)

(JF-02 AIO 5.8G 40CH 25MW VTX 800TVL 1/3 Cmos FPV Camera)
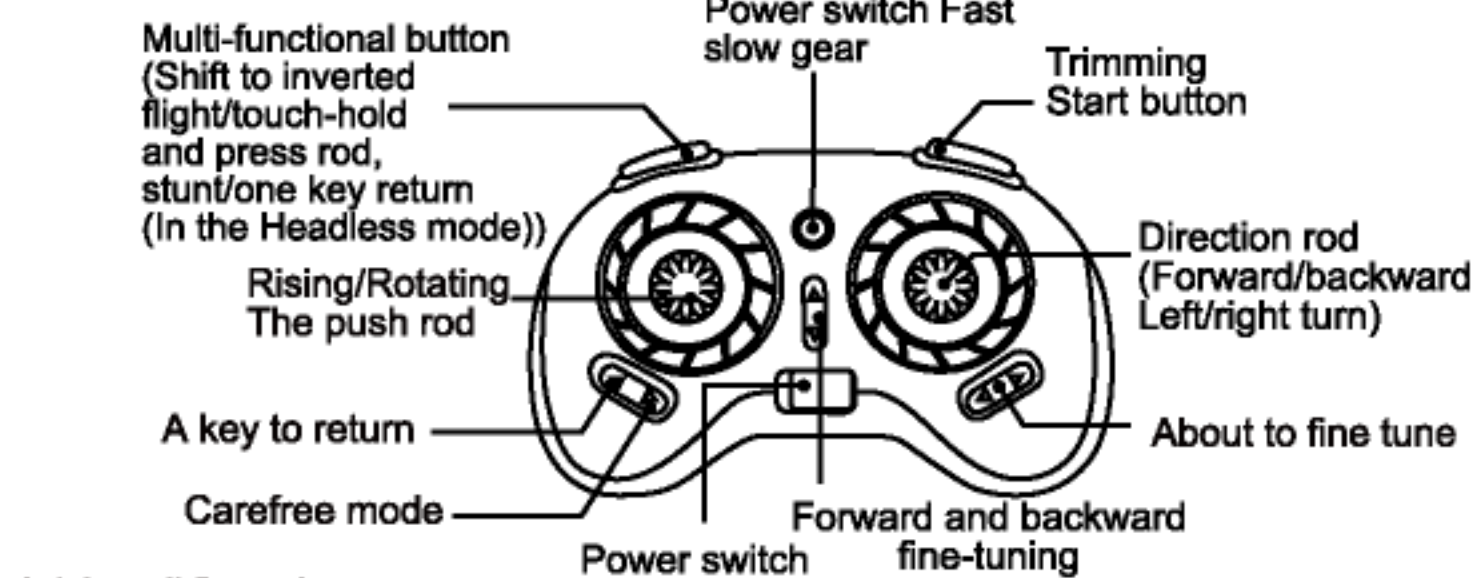
6-Axis Gyro System 2.4GHz 6Channel 360° Flips

please read the Instuction Manual carefully before using.
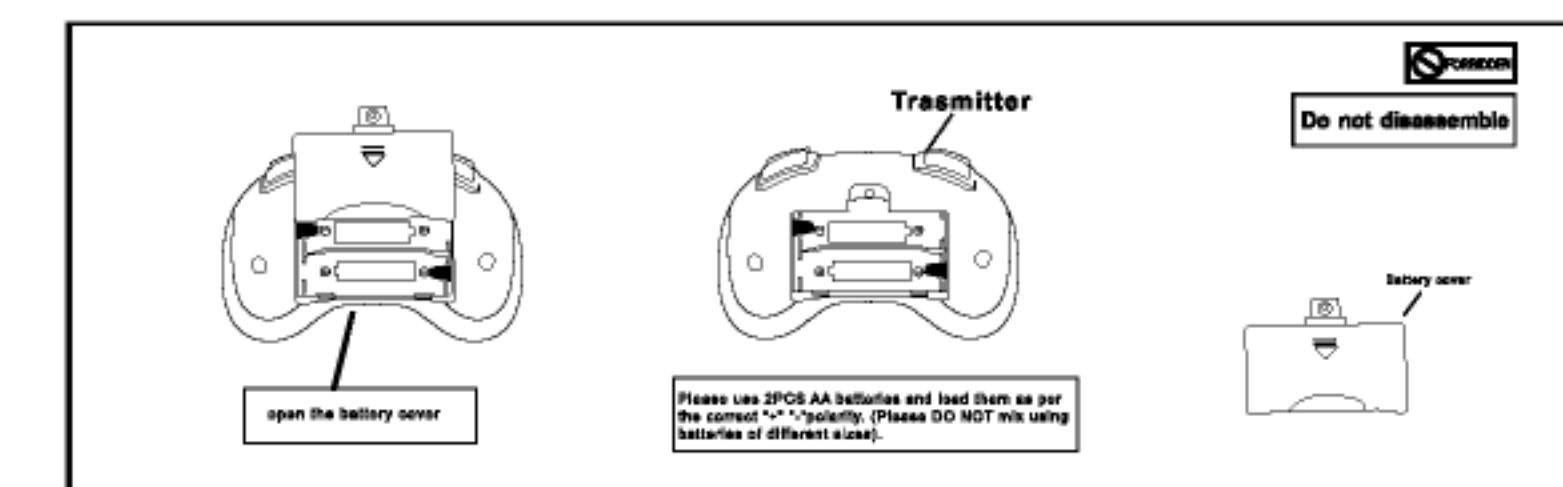Please keep this manual for further reference.

1. INCLUDED PARTS

Quadcopter x1   Transmitter x1   Cmos FPV Camera x1

USB Charging wire x1   Blade A/B x2   Battery x1   Instruction manual x1

2. TRANSMITTER

2.1 Introduction Of Transmitter

Multi-functional button
(Shift to inverted
flight/touch-hold
and press rod,
stun/one key return
(in the Headless mode))

Power switch Fast
slow gear

Trimming
Start button

Rising/Rotating.
The push rod

Direction rod
(Forward/backward
Left/right turn)

A key to return

About to fine tune

Carefree mode

Forward and backward
fine-tuning

Power switch

2.2 Install Batteries

Transmitter

Do not disassemble

Power use 2POS AA batteries and load them on per direction of "+"capacity .(Please DO NOT mix safing instruction of blade)

3. CHARGING LI-PO BATTERY

First, connect USB to the USB slot on the computer or to USB charger. At this moment, the indicate light will be constantly on at USB charging outlet. Then connect the battery to USB charging line. The red light will be off which indicates it's in charging and a constant light indicates that it has been fully charged. The time for charging is about 50 to 60 minutes and flight time is around 5 minutes. For safety reasons, charging should be done in sight.

4. OPERATION INSTRUCTIONS

4.1 Power on &Match

4.1.1

①Insert the battery into the battery compartment of the quadcopter,Power on the quadcopter (the two LED indicators will flash). Put the quadcopter on a flat surface.
②Switch power on, and the controller will beep twice and it's the indicators flash. The indicators on the quadcopter will flash as well.
③Push the left rod completely forward and controller will beep one time. The indicator on the controller and two indicators on the quadcopter will flash. Pull the left rod completely to the bottom and the controller again beep once. The indicator on the controller and the four indicators on the quadcopter will turn on. The two are now paired.
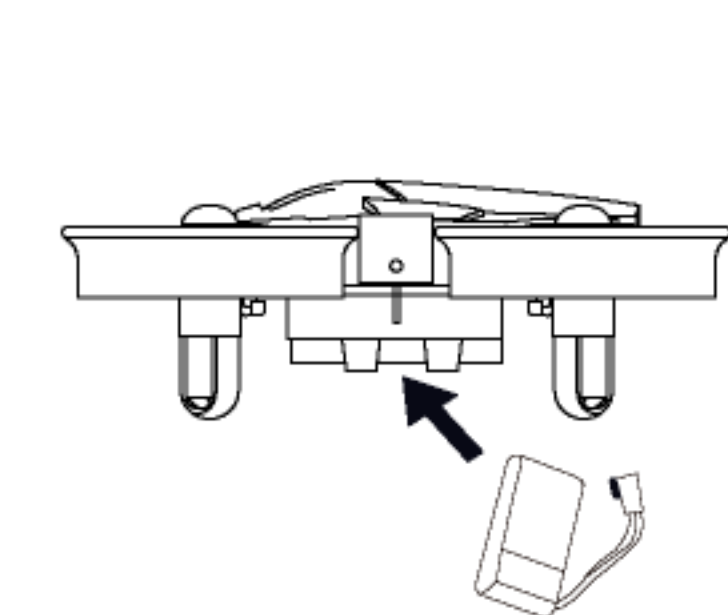
4.1.2 After code match is done with the air vehicle, push the left joystick throttle to start the air vehicle.
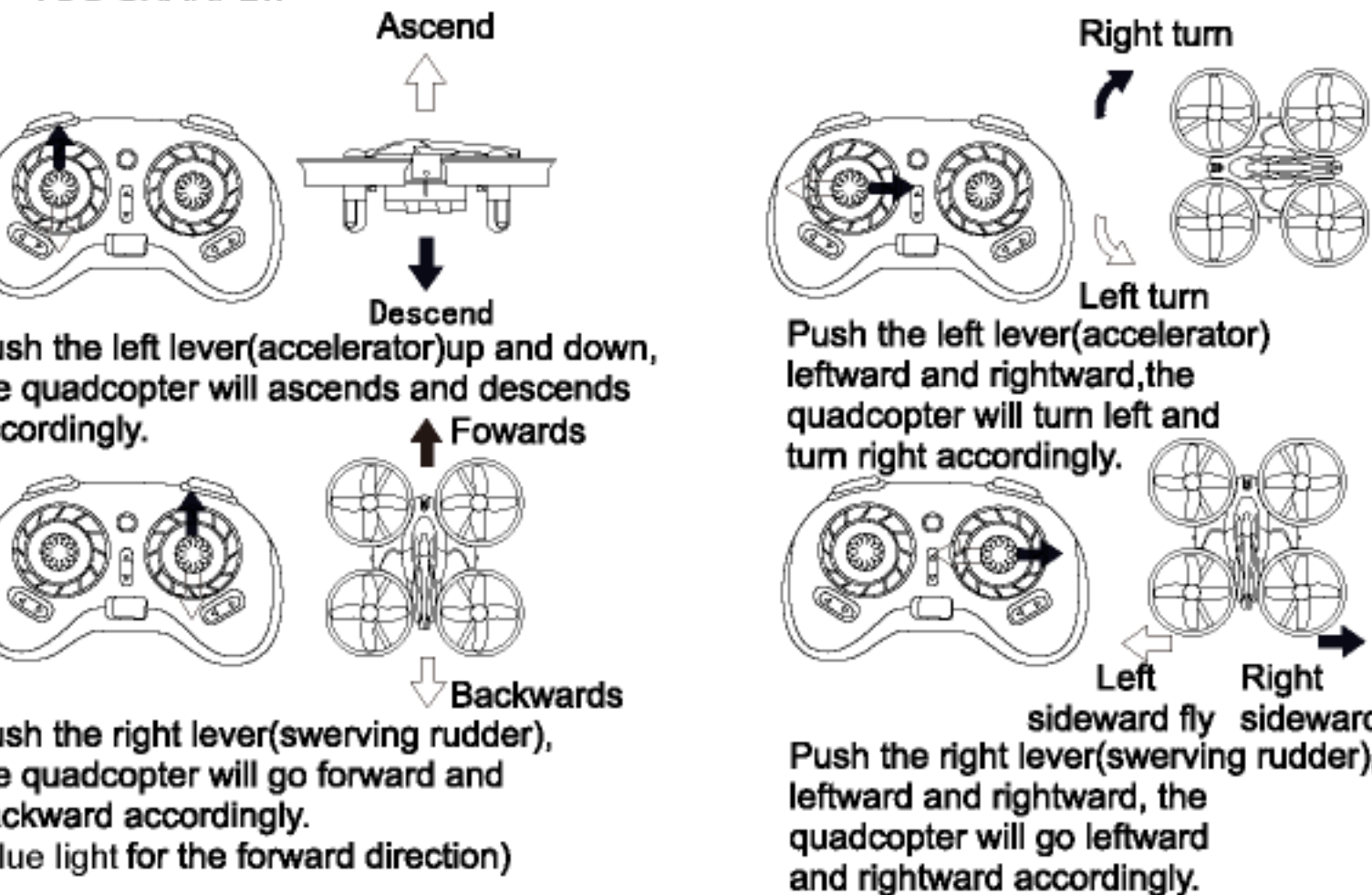
4.2 Gyroscope collaboration

When code match is finished, put the air vehicle on a level position and return the throttle stick to zero. Push the direction stick 45 degrees toward the left bottom to collaborate the gyroscope. If two LED lights flick on the air vehicle, it means the gyroscope is returning and scanning for position. If the LED light stops, it suggests the collaboration is successfully done.
(Refer to the picture on the right)

Note:Before flying ,the quadcopter should be placed on a flat surface to calibrate to ensure stable flying . If the quadcopter flies off tract, you can adjust it with the remote.

5.OPERATING AND CONTROL

5.1 Operation

It may take some time to learn how to operate this quadcopter. Please take your time to learn in the beginning. If the quadcopter slightly descends, softly push the left rod to adjust the flying height.DON NOT PUSH THE ROD TOO SHARPLY.

Ascend

Descend
Push the left lever(accelerator)up and down, the quadcopter will ascends and descends accordingly.

Right turn

Left turn
Push the left lever(accelerator) lefward and rightward,the quadcopter will turn left and turn right accordingly.

Fowards

Backwards
Push the right lever(swerving rudder), the quadcopter will go forward and backward accordingly.
(Blue light for the forward direction)

Left   Right
sideward fly sideward fly
Push the right lever(swerving rudder), lefward and rightward, the quadcopter will go leftward and rightward accordingly.

5.2Trimming

ADJUSTMENT OF EACH TRIM
Slowly push upward the throttle lever.When the aircraft is flying off the ground, if the aircraft keep inclining to different direction, please use the trimmer key to trim it to fly in normal state.
1.Adjustment of elevator trim
Just before the aircraft lift-off, the nose lean forward/backward...
When leans forward, adjust the trim to down.
When leans backward, adjust the trim up.
2.Adjustment of aileron trim
When the aircraft is just taking off, the aircraft may make left/right side-flying...
When making right-side flying, please trim it to the left.
When making left-side flying, please trim it to the right.

Up

Down

Fowards

Backwards

right

Left

Left of fly   Ou the
right to fly

6.360°FLIPS

Press down the right rod and the transmitter nwill beep one time to enter advanced mode.
Now flip is allowed.
In order to get good flipping performance.It is recommended to keep 1.
5meters of altitude between the quadcopter and the ground.
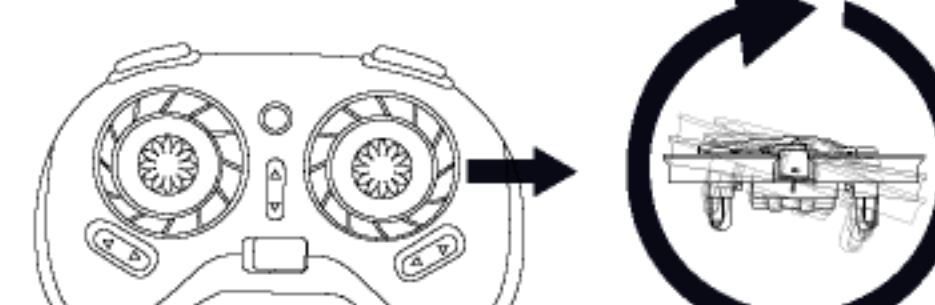It will nake flipping easier darning ascending as altitude will be lost durning flips.

6.1 Leftword 360°flip
Press down the right rod and the transmitter will beep.
Push left and the quadcopter will flip left.

6.2 Rightword 360°flip
Press down the right rod and the transmitter will beep.
Push right and the quadcopter will flip right.

6.3 Forword 360°flip
Press down the right rod and the transmitter will beep.
Push forward and the quadcopter will flip forward.

6.4 Backword 360°flip
Press down the right rod and the transmitter will beep.
Push back and the quadcopter will flip backward.
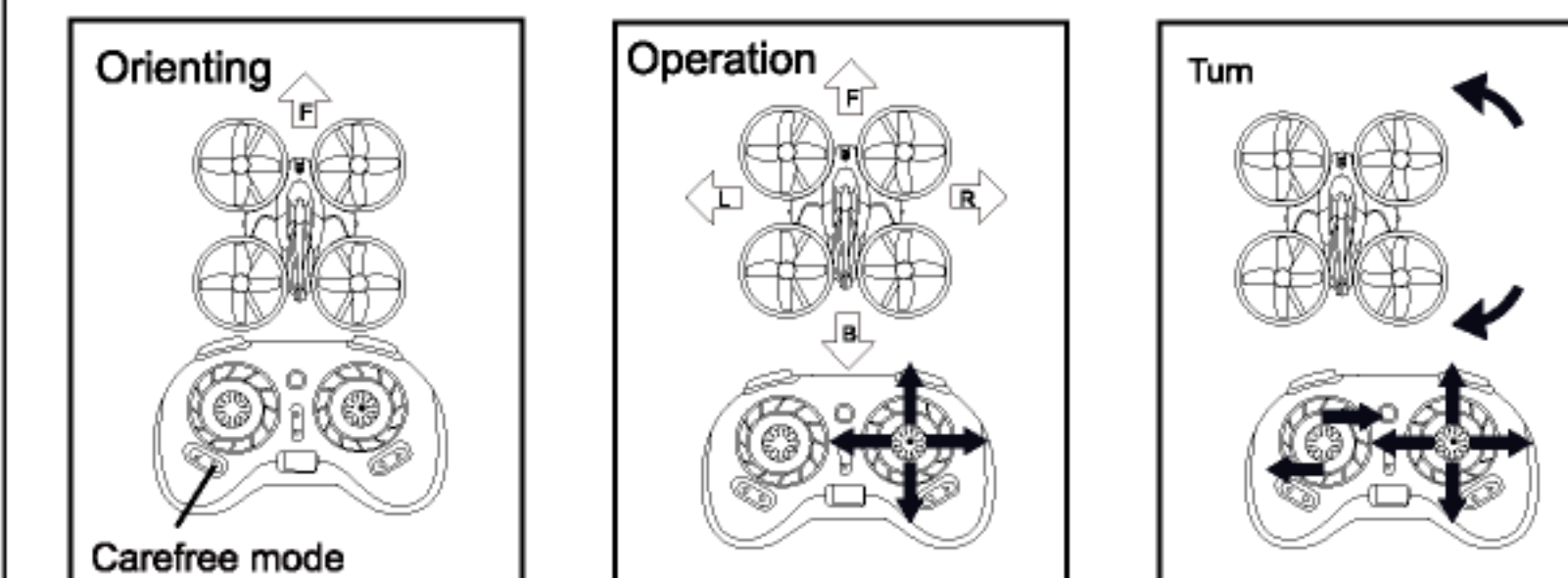
7.HEADLESS MODE

7.1 Headless Mode Shift
Headless mode simplifies flying by eliminating to the transmitter.
No matter where the quadcopter points,it will follow the forward,left, right,and back of the transmitter.

※Starting Headless Mode
After pairing the quadcopter,press down on the left rod to enter Headless Mode.This can be done when the quadcopter is in the air or on the ground. The transmitter will beep and the four indicators on the quadcopter will flash.
※Leaving Headless Mode
Press down on the left rod to exit Headless Mode. The controller will beep and all four indicators on the quadcopter will trun on.

Orienting   Operation   Turn

Carefree mode

See the diagram.Note in Headless Mode,a forward push on the cotroller will send the quadcopter in a forward direction, away from you.Pull back and the quadcopter will come towards you again,no matter the orientation of the front black blades)of the quadcopter to the user as long as he is stationary.
If the user changes location,simply re-pair the controller using belowinstructions.

7.2 Direction Calibraton
A crash could cause the quadcopter to tilt in the wrong direction,needing to be recalibration.Put the quadcopter on flat ground and press thetrimming button.The transmitter will beep and the indicator will flash.Spinhe right rod clockwise.Two of the red indicators on the quadcopter will light up and then flash diagonally. The transmitter indicator will also light on. The direction is now calibrated. The head of the quadcopter will be the forward direction.(Black blades for the forward direction).
If in air press the left rod to cancel headless mode,adjust and make sure the quadcopter and transmitter are forward to same direction,then press the left rod to enter headless mode,now the direction is also calibrated.
Low Power Alert
When the two indicators on the quad flash together,this indicates low power.
The flip mode will shut down and the quadcopter will return to normal mode automatically.

8. FLIGHT ENVIRONMENT
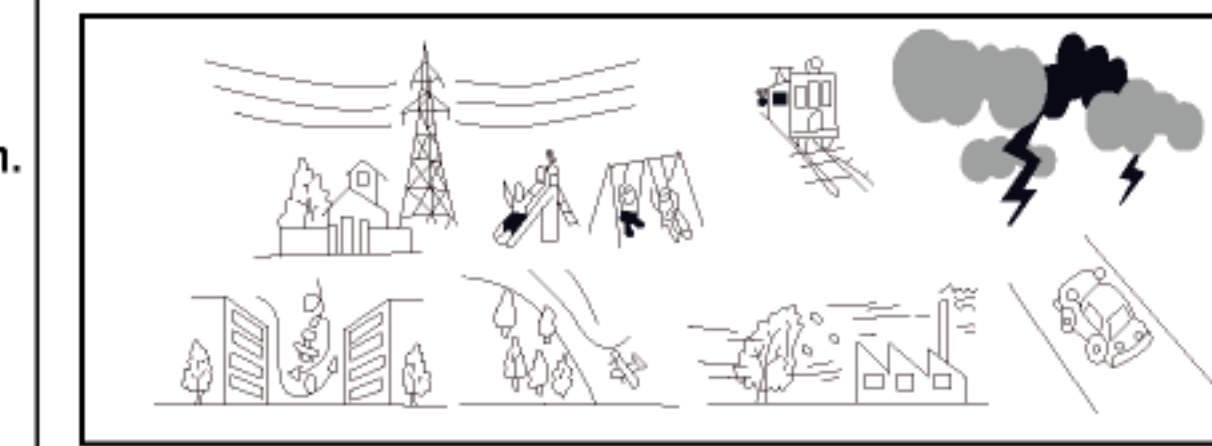
Under the bad conditiong above, the quadcopter shall not operate to avoid any potential damages.

9. INSTALL BLADES
The blades shalled to designated location.
Blade A/B shall be installed to Location A/B on body.Or the quadcopter may have problems.

Install blades:
Hold the head to aim at the motor axis and press down to lock.Be careful not to damage or deformthe blades.

B   A
A   B
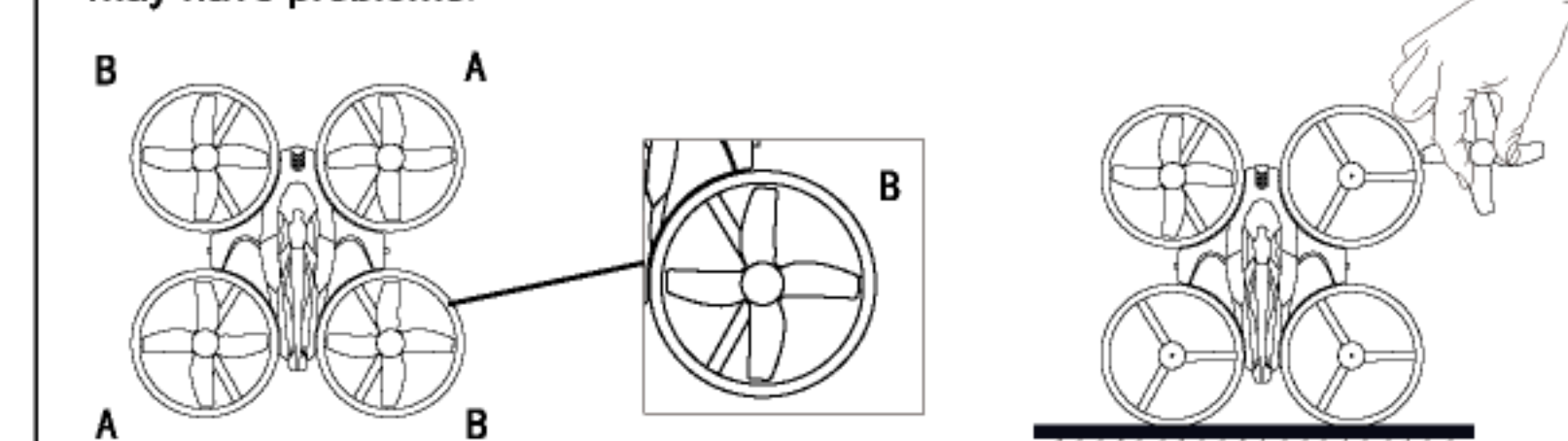
10.TROUBLE SHOOTING

10.1Transmitter and quadcopter not bland
Solution:1) To ensure that the frequency of success.Re frequency.
        2) Battery power shortage,replace the battery.
10.2   3) To confirm that the remote control is not the original match.
        Unable to flip
Solution:1) Press Function combination button,change to flip mode.
        2) Check if Li-po power is too low and needs to be recharged.
10.3 Quadcopter is shaking with noise.
Solution:1) Check blade if deformation or not,replacenent new blade.
        2) Off the quadcopter power and restart.
        3) Put the quadcopter in the horizontal plane,and re calibrate the gyroscope.
10.4 Cannot take off
Solution:1) Wrong installation of the blade.Make sure the blade placed on the right motor.
        2) Check quadcopter canopy if loose or not,block blades flying.
        3) Check quadcopter battery is power full,if the low power,quadcopter canopy inner light will be alternately flashing.