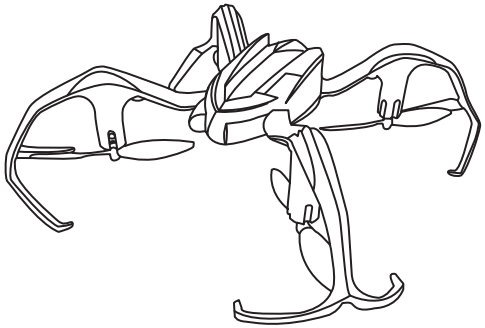
Item: 61360

Ages: 14+



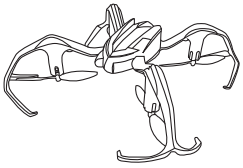
Spider

STUNT DRONE

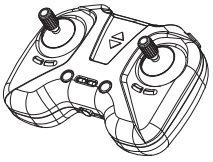
Instruction Guide

Keep the Instruction Guide for future reference. Do not discard.

CONTENT LIST



1x Spider



1x Controller

1x Battery

1x USB Charging Cable

1x Screw Driver

4 x Blade

For questions or difficulties operating your TDR devices, please contact: service@tenergy.com

DISCLAIMER

Read this disclaimer and instructions thoroughly before operating this device. THE USE OF THIS PRODUCT IS A SIGN OF YOUR COMPLIANCE WITH THIS DISCLAIMER. You are responsible for your own actions, behavior, and conduct while using this device. You agree to use this product in such a way that you will comply with all local and federal regulations, including, but not limited to, personal privacy laws. Tenergy Corporation will not be held liable for any damages or legal responsibilities resulting from the use of this product. This product is NOT suitable for anyone under the age of 14. For more information and guidance, please visit www.TDRWorld.com

Safety guidelines for sUAS recreational users

- Follow community-based safety guidelines, as developed by organizations such as the Academy of Model Aeronautics (AMA).
- Fly no higher than 400 feet and remain below any surrounding obstacles when possible.
- Keep your sUAS in eyesight at all times, and use an observer to assist if needed.
- Remain well clear of and do not interfere with manned aircraft operations, and you must see and avoid other aircraft and obstacles at all times.
- Do not intentionally fly over unprotected persons or moving vehicles, and remain at least 25 feet away from individuals and vulnerable property.
- Contact the airport and control tower before flying within five miles of an airport or heliport.
- Do not fly in adverse weather conditions such as in high winds or reduced visibility.
- Do not fly under the influence of alcohol or drugs.
- Ensure the operating environment is safe and that the operator is competent and proficient in the operation of the sUAS.
- Do not fly near or over sensitive infrastructure or property such as power stations, water treatment facilities, correctional facilities, heavily traveled roadways, government facilities, etc.
- Check and follow all local laws and ordinances before flying over private property.
- Do not conduct surveillance or photograph persons in areas where there is an expectation of privacy without the individual's permission (see AMA's privacy policy).
- Before each flight, check and ensure the drone and controller are not damaged, and that all components are working in accordance with the user instruction .
- If you want to use unmanned aircraft systems for a commercial purpose: you can apply for an exemption from the FAA to operate commercially. For more information about how to apply for an exemption, visit the FAA's "Section 333".

FLY RESPONSIBLY

The Federal Aviation Administration requires registration of many drones flown in the US, for hobby or commercial purposes. To learn more about drone registration requirements, visit "Know Before You Fly" at:

www.knowbeforeyoufly.org

The crossed-out dust bin symbol indicates that batteries (primary, rechargeable, button cells, packs, etc) must not be put in household waste. These items may be composed of hazardous materials.
Please help protect the environment from health risks by disposing of the batteries properly, and taking them to a local collecting facility for safe recycling.

Waste Electrical and Electronic Equipment (WEEE)
When this appliance is out of use, please remove all batteries and dispose of them separately. Bring electrical appliances to the local collecting points for waste electrical and electronic equipment. Other components can be disposed of in domestic refuse.

This product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

FCC Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/television technician for help.

ADULT SUPERVISION REQUIRED

An adult should check the unit and LiPo battery for damages prior to each use. Drones have rotating blades that move at high speeds, posing a danger of damage and injury. Pilots are responsible for any action that results in damages or injury from improper operation of the drone. Adequate flying space is required. Avoid flying near interior fans and/or vents as they may affect your ability to control the drone. Keep a safe distance from streets, public thoroughfares, and power lines. Never attempt to retrieve the drone from any location higher than your reach (rooftops, trees, etc) or any location that poses a safety hazard. Never fly the drone at night. Keep drone in sight at all times during operation. Discontinue operation immediately if the drone flies out of your field of view. Do not fly near spectators. Keep away from pets, as they may become excited over R/C vehicles. Keep spinning rotors away from fingers, hair, eyes, and other body parts. Always launch from a flat surface. Never leave Drone unattended while it is turned on. Read all enclosed information before operating.

LITHIUM BATTERY CAUTIONS

LiPo batteries pose a serious hazard when used improperly and may result in overheating, fire, or explosions. Read all precautions and instructions regarding the care and use of LiPo batteries prior to use. The enclosed LiPo battery is to be used only with the vehicle and charger included in this package.
- Keep away from flammable materials
- Do not expose to direct sunlight
- Do not expose to extreme heat
- Do not drop or make subject to strong impact
- Keep dry and away from moisture
- Remove exhausted batteries as soon as possible and discard properly
- Remove all batteries when toy is inactive for long periods
- The supply terminals are not to be short circuited

LiPo Battery Disposal: LiPo batteries must be recycled and disposed of properly. LiPo batteries should not be disposed of with household waste. **Check your local laws and regulations for information on proper battery disposal. If you are unable to identify the applicable rules in your area, please reference the instructions of the battery manufacturer.**

WARNING: Batteries are harmful if swallowed. Please keep away from children.

PRODUCT FEATURES

One-Key Stunts: Tornado, Book flip and Triple Flips.

3D 360º Rolls

Inverted Flight

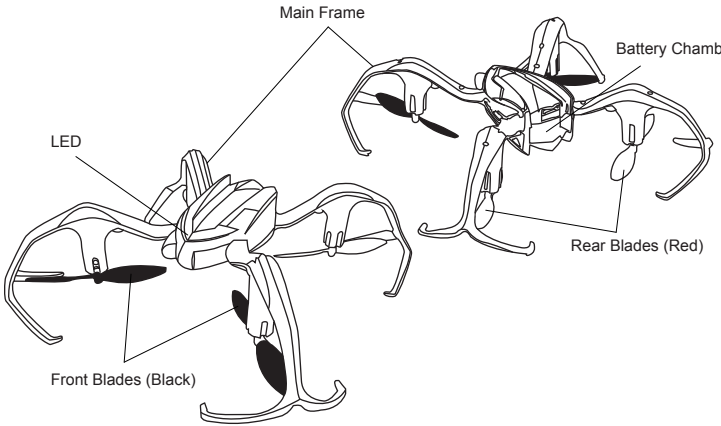
Advance Headless Flight Mode

Auto Return

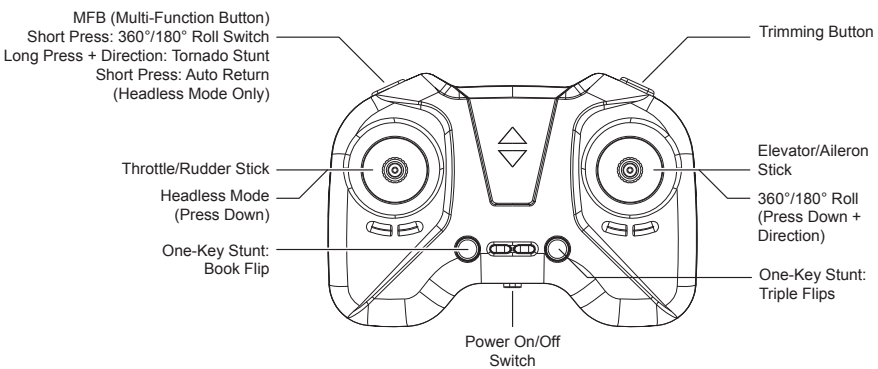
6-axis Flight Control System

2.4 Ghz RC Transmission

Drone Diagrams



Controller



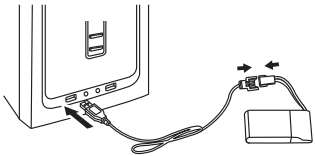
Charging and installing battery for the drone

1. Connect the battery to USB charging cable.
2. Connect the USB charging cable to USB power source.
3. The LED light will be on while charging, and off once charging completed.
4. Insert the battery in to the battery chamber of the drone and connect the connector terminal.

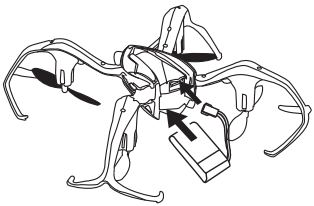
LED Charging Status Indicators
On - Charging the battery
Off - Charging complete

Charging Time: approx 60min
Fly Time: approx 5min per charge

Charge the battery for the drone

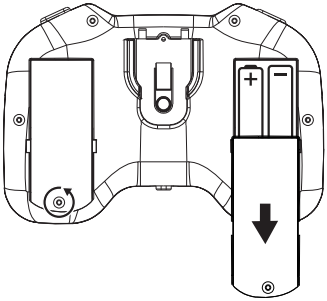


Insert the battery into the drone



Charging and installing battery for the controller

1. Unscrew the screws on the battery chambers behind the controller.
2. Slide out the battery chamber cover.
3. Insert 4 pieces of AAA batteries (2 for each side).
4. Close the battery chamber, put the screw back on.

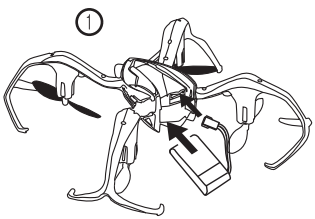


Cautions:

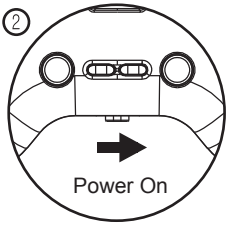
- Use only 1.5V AAA type batteries.
- Insert batteries with correct polarity (mind the + and - sign).
- Non-rechargeable batteries should not be recharged.
- Rechargeable batteries should only be charged under supervision.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (NiCD/NiMH) batteries.
- Remove batteries when they are used up.
- Never throw batteries in the fire or attempt to open its outer casing.

Binding drone to the controller

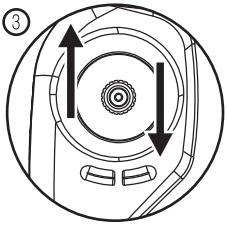
1. Fully insert battery into drone unit and place on level surface
2. When 4 LEDs flash rapidly, the drone is ready to bind
3. Turn on the controller by switch the power switch to “ON”
4. Push the left stick up then down
6. LEDs on the drone will stop flashing after binding has been successful



Fully insert battery



Turn on the controller

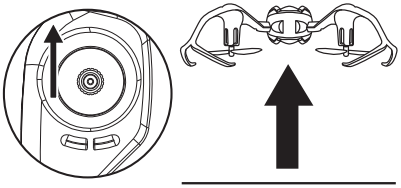


Push the left stick up, then down

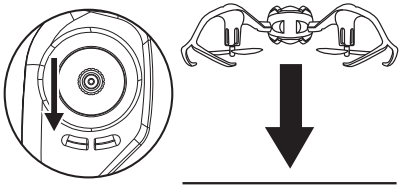
Start the motors

After blinding, you can push the Throttle Stick up slightly to start the motors for takeoff.
To land, push the Throttle Stick down slowly until the drone lands and motors stop.

Takeoff



Land

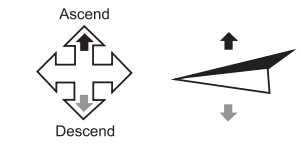
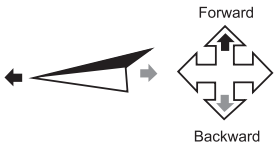
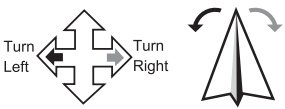
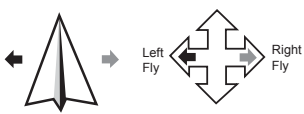


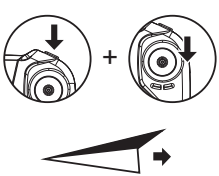
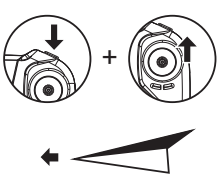
Basic operation controls

Basic operation:

Left stick controls altitude and direction.

Right stick controls the rotation forward, backward, left or right movement.

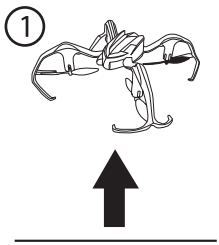
Left Stick	Right Stick
	
	

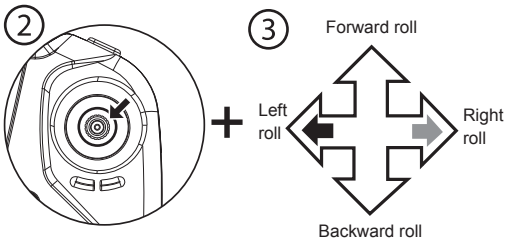
Backward Trimmer	Forward Trimmer
	
Left Trimmer	**Right Trimmer**
	

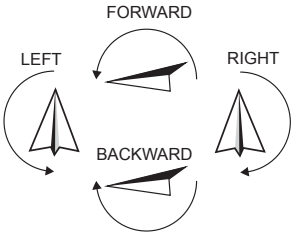
Special operation controls

360° Roll

1. Bring the drone to a mid-air hover without flying towards any direction.
2. While hovering, press the 360° Roll button. The remote will start beeping rapidly as the drone will enter rolling-ready mode.
3. While in the rolling-ready move, tap the direction stick in the direction you want the drone to roll.





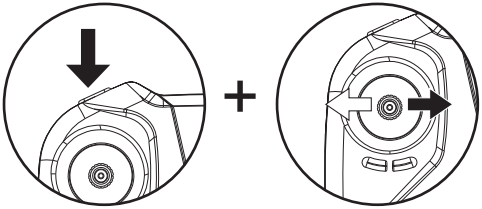


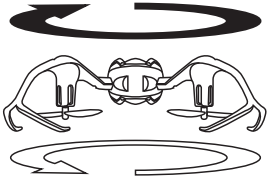
Tornado Stunt

While hovering, press and hold the Multi-Funtion Button (MFB), press the left stick while holding MFB:

Holding MFB + Left = Counterclockwise Tornado Stunt.

Holding MFB + Right = Clockwise Tornado Stunt.

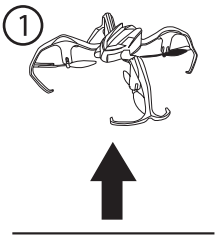


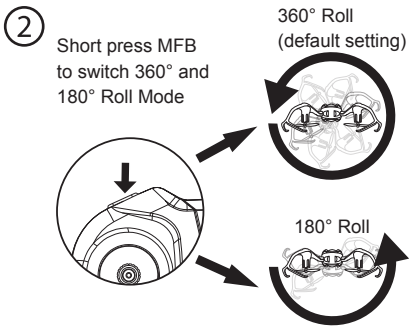


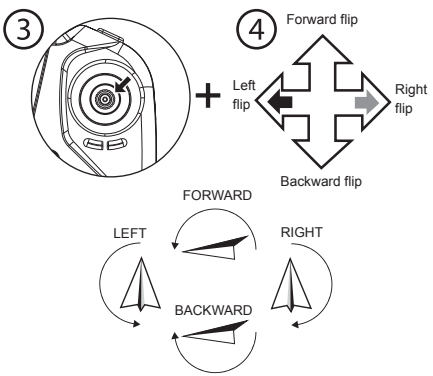
Special operation controls

180° Roll

1. Bring the drone to a mid-air hover without flying towards any direction.
2. While hovering, short press the MFB once to switch the 360° Rolling mode to 180° Rolling mode.
3. While hovering, press the 360° Roll button. The remote will start beeping rapidly as the drone will enter rolling-ready mode.
4. While in the rolling-ready move, tap the direction stick in the direction you want the drone to flip.







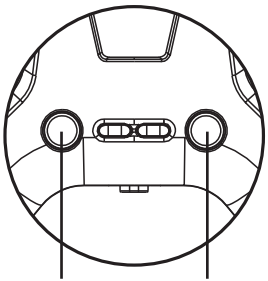
Note:

- Upon performing 180˚ Rolling, direction controls will remain the same.
- In 180˚ Rolling mode, press MFB again to switch back to 360˚ Rolling Mode.
- Every time the drone is powered on, the rolling feature will be reset back to default (360˚ Rolling), and the flying direction will be reset to normal.

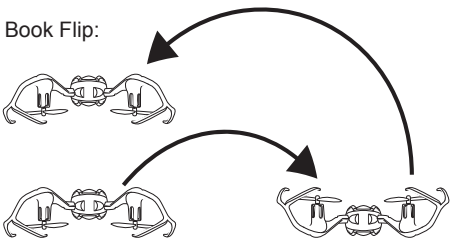
Special operation controls

Book Flip and Triple Flips Stunt

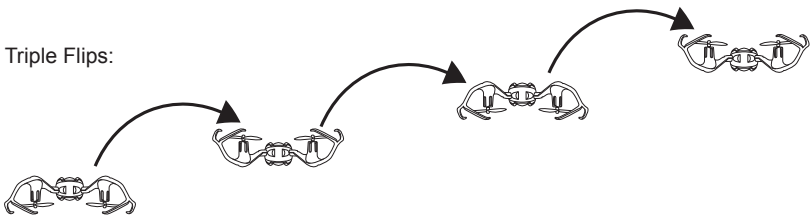
During a flight:
1. Switch the drone to 180° Rolling mode.
2. Press the One-Key Stunt button to perform the Book Flip or Triple Flips Stunt.



Book Flip:



Triple Flips:



Note:
The One-Key Stunt function can not be used when:
(1) Battery power is low (2) The drone is in 360° Rolling mode

Special operation controls

Headless Mode

In headless mode, the drone flies from your viewpoint no matter which direction the drone is flying.

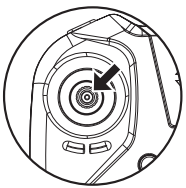
Eg: If you push the controller to the left the drone will fly to your left - regardless of which direction the drone is facing/pointing. In headless mode there is no need to worry about the orientation of the drone.

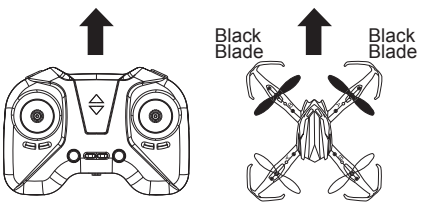
To enter/exit headless mode:

1) Before taking off, position the drone in such a way that "its front is your front".

2) Press down the Headless Mode button (the Elevator/Aileron stick) to enter headless mode.

3) Press the button again to get out of headless mode.

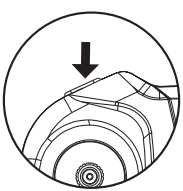




Face the same direction

Auto Return

In headless mode, short press the Auto Return button during the flight, the drone will trace the shortest way flying back to the takeoff point.



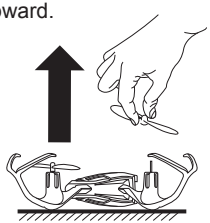
To Cancel Auto Return:

When the drone is auto returning, press the MFB button or the Up direction of the Right Strick will cancel the auto return.

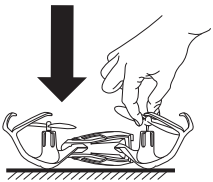
Note: Auto Return feature works in headless mode only.

Blade installation

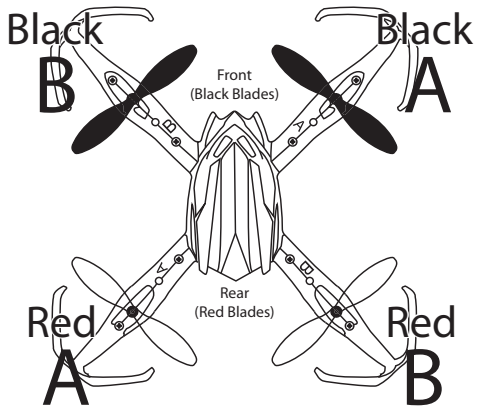
To disassemble the blade:
Remove the blade by pulling upward.



To install the blade:
Match blade with the blade socket and press down.



Blades must be installed as shown:
Front: use Black Blade A and Black Blade B
Rear: use Red Blade A and Red Blade B



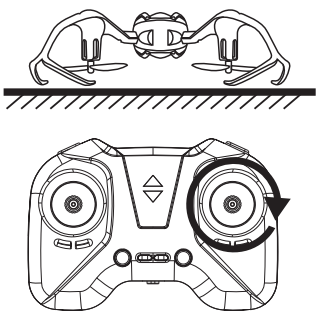
Note:
The letters A and B are printed on top side of blades.

Calibration and master reset

Gyroscope Calibration

The built-in gyroscopic sensor measures the angular velocity and the orientation of the drone. A calibration may be necessary after shipping or a hard landing. It's a good idea to calibrate you drone if it is veering off to one side or not flying properly.

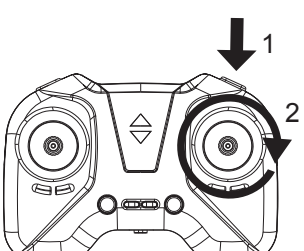
1. Bind the drone to the controller.
2. Place drone on a flat and level surface On the controller, spin the right stick 360°, clockwise.
3. All 4 LED lights on the drone will flash for a few seconds, notifying you that calibration was successful.



Factory Reset

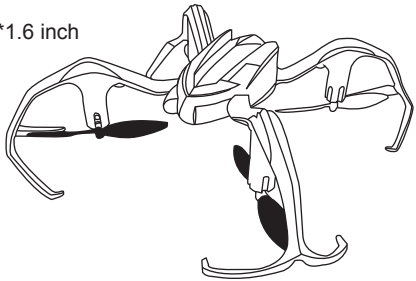
Performing a factory reset will reset all the current settings, including the trim and the gyroscope calibration, back to the factory settings.

1. Bind the drone to the controller
2. Place the drone on a flat and level surface.
3. Short press the trim button.
4. Spin the right stick 360° clockwise
5. Once complete, all settings will be factory reset.



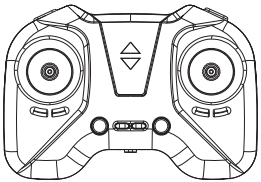
Drone

LWH	12.5*12.5*4 cm / 5*5*1.6 inch
Weight	40 g / 1.4 oz
Operating Temperature	0°C to 40°C
Control Distance	50 m / 164 ft
Battery Capacity	380 mAh
Flight Time	approx. 5~8 minutes



Controller

LWH	12.7*8.9*5.7 cm / 5*3.5*2.2 inch
Weight	95 g / 3.4 oz
Operating temperature	0°C to 40°C
Control distance	50 m / 164 ft
Battery	4x AAA batteries (not included)



Flying Tips

When launching the drone, face the same direction as the drone. The black blades should be in front.

Practice launching, hovering, and landing before attempt to learn other moves.

Flying 2 to 3 feet above the ground will reduce ground turbulence and make flying easier.

When first attempting to fly in a different direction, start by tapping the Direction Stick until you get the hang of it. Always move controls slowly until you become comfortable operating the drone.

Once you've mastered flying in different directions, practice rotational controls. Keeping the drone facing the same direction as you makes flying easier and more intuitive.

Stay 2 to 3 feet away from walls and ceilings, as the drone will be drawn towards them if you fly too close.

If the propeller blades come in contact with another object, or you crash, throttle down immediately to prevent further damage.

If anything prevents the drone's blades from spinning, or they become jammed, THROTTLE DOWN IMMEDIATELY. Do not attempt to fly until obstruction has been removed and damage fixed.

Maintenance

Over time, debris such as loose hair or carpet fibers may get wound in the blades and motors. The debris should be regularly removed and cleaned to prevent buildup, and to avoid poor flying performance.

Troubleshooting

	Problem/Issue	Cause	Soluction
1	Cannot bind drone to controller	a) Battery b) Electromagnetic interference c) Out of range	a) Make sure the batteries in both drone and controller are fully charged b) Clear out objects between drone and controller c) Put drone and controller closer to each other
2	Drone does not turn on	a) Battery too low b) Battery not fully plugged in	a) Charge battery b) Battery fully plugged in the correct direction
3	Controller does not turn on	a) Switch didn't turn on b) Battery didn't install correctly c) Battery power too low	a) Ensure switch is turned on b) Ensure battery fully plugged in correctly and securely C) Charge the battery
4	Blades do not spin or drone has difficulty taking off the ground, LEDs are flashing	Battery power level is too low	Fully recharge the battery
5	Unstable drone flying / strong vibration	a) Damaged blade(s) b) Gyroscope needs calibration	a) Replace the blade(s) b) Calibrate the gryoscope (page 15)
6	All blades spin but drone does not take off the ground or not flying properly	Blades are not installed correctly	Reinstall the blades following the "Blade Installation" section on page 14
7	Drone crashes immediately	Blades are not installed correctly	Reinstall the blades following the "Blade Installation" section on page 14
8	Drone can not perform 360°/180° Roll	Battery power level is too low	Fully recharge the battery
9	Drone can not perform the Stunts	Drone is not in 180° Rolling mode	Short press MFB once switch to 180° Rolling mode (page 11).

Thank You

Happy Flying