® **RadioShack**®

FLIP FLOP
STUNT DRONE

BC

Contents

CHOKING HAZARD! Small parts. Not for children under 3 years.

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We hope you enjoy your Flip Flop Stunt Drone from RadioShack.
Congratulations! No FAA Registration is required for this drone. Please read
this user's guide before setting up and using your drone.

Features

- 6-axis super stabilizing control system
- 180° flip stunt to fly your drone upside down, plus 360° flip stunt mode
- Easy (**Ez**) and Expert (**Ex**) play modes
- "Headless" mode for easy navigation, flies true north regardless of the
  drone's head direction

Package Contents

- Flip Flop Stunt Drone
- Remote Control
- Spare Propellers (4)
- 3.7V, 390mAh Lithium-polymer battery
- USB Charging Cable
- User's Guide

Specifications

Power ....
    Drone .... 3.7V, 390mAh lithium polymer battery
    Remote Control .... 4 × AAA batteries
Control Distance .... 120 ft. (36.5m)
Specifications are subject to change and improvement without notice. Actual product
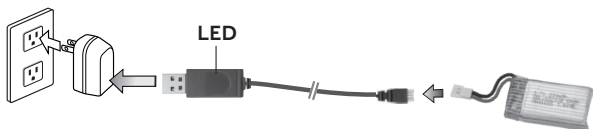may vary from the images found in this document.

Fly Safely

- Do not fly the drone near or at other people or animals.
- Do not fly your drone where emergency responders are working, or
  emergency aircraft are operating.
- When flying outdoors, keep the drone away from power lines, trees,
  weeds, and water.
- Do not fly your drone over private property where you are not welcomed.
- When flying indoors, keep the drone away from walls, air conditioning, air
  vents, fans, breakable objects, and other obstacles.
- Keep eyes, hands, hair, and loose clothing away from moving propellers.
- Adult supervision is recommended at all times.

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Charge the Drone Battery

Make sure you use the supplied battery and battery charging cable, or one of the same type: 3.7 V, 390mAH lithium polymer.

1. Use the USB charging cable to connect the battery to a USB power source. The LED on the USB connector lights red during charging, and turns off when charging is complete.
   A full charge takes about 60 minutes. A fully charged battery provides up to 5 minutes of flight and camera time.

2. After charging, unplug the USB charging cable. Do not attempt to overcharge the battery.

3. To install the battery, match and plug the two ends of the white battery connectors. They only fit one way, so do not use force. Neatly slot the battery and cables into the drone's slot battery compartment.

CAUTION: After playing, let the built-in battery cool at least 20 minutes before charging again.

Lithium Battery Notes

- **Do not charge longer than recommended. Unplug the charging cable when the drone is charged.**
- Do not puncture or crush. Do not disassemble.
- Do not dispose of lithium batteries in the trash.
- If the electrolyte in the cells should get on your skin, thoroughly wash with soap and water. If in the eyes, rinse thoroughly with cool water. Immediately seek medical attention.
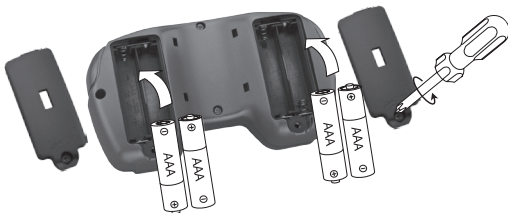- Do not attempt to charge or operate damaged toys.

Recycle Rechargeable Batteries

Recycle used rechargeable batteries at one of the many collection sites in the U.S. and Canada. To find the site nearest you, visit www.call2recycle.org or call 1-800-822-8837.

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Install Batteries in the Remote Control

1. Make sure the remote control is turned off.

2. Use a screwdriver to open the twin battery compartments. Then insert four AAA batteries (not included), matching the polarities (**+** and **–**) marked inside. Replace the cover.

Note: If the remote control's LED flashes during use, the batteries are low and should be replaced.

Battery Notes

- Dispose of old batteries promptly and properly. Do not burn or bury them. Use only fresh batteries of the required size and recommended type.

- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

- Remove batteries during longer storage periods. Batteries can leak chemicals that can damage electronic parts.

About Expert/ Easy Fly Modes (Ex/Ez)

This drone is designed with 2 flight modes:

Ex (**Expert**) for advanced pilots to fly at a higher speed and perform stunts.

Ez (**Easy**) for beginners and new drone owners. This operates at a slower speed to help you focus on basic navigation and develop a feel of the throttle's sensitivity. By default, in Ez mode, the stunt and speed options are disabled to prevent them from being accidentally activated.
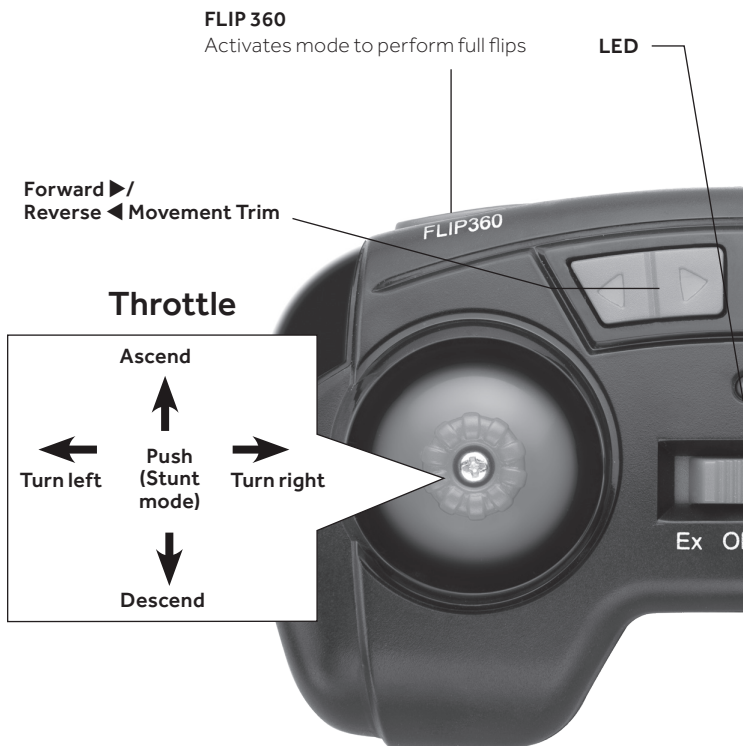
- When pairing and flying for the first time, we recommend you use **Ez** for test flights and honing your takeoff, steering and landing skills.
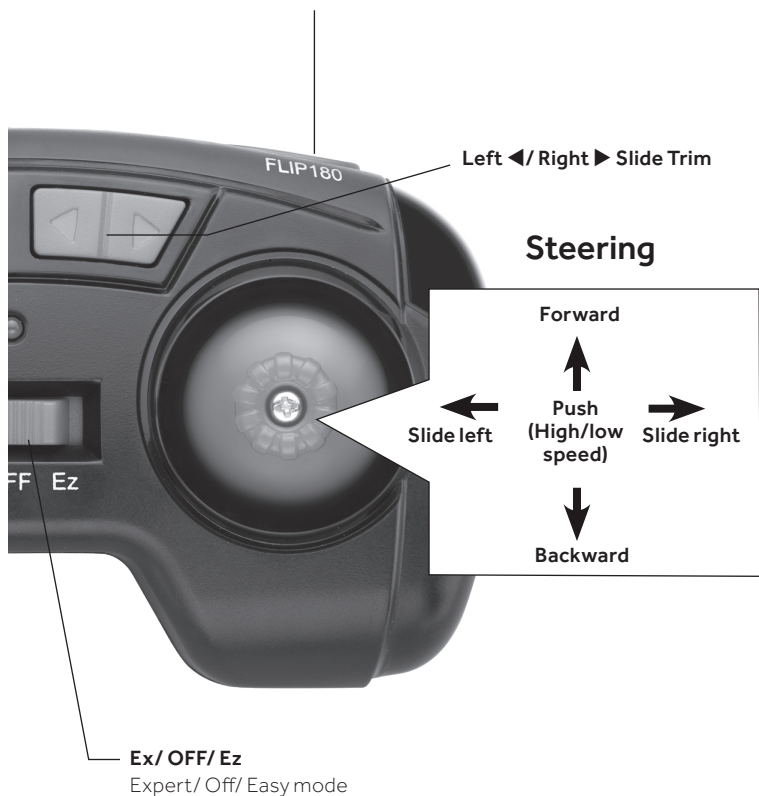
Pairing

1. Turn on the drone. The drone's LEDs flash.

2. Place the drone on level ground.

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Remote Control Overview

FLIP 360
Activates mode to perform full flips

LED

**Forward ▶/
Reverse ◀ Movement Trim**

Throttle

Ascend

↑

← **Push
(Stunt
mode)** →

Turn left **Turn right**

↓

Descend

FLIP360

Ex O

FLIP 180
Activates flip to fly your drone upside down

Left ◀/ Right ▶ Slide Trim

Steering

Forward

Slide left   Push (High/low speed)   Slide right

Backward

Ex/ OFF/ Ez
Expert/ Off/ Easy mode

3. Turn on the remote control to **Ez** or **Ex** . The remote control's LED flashes.

4. Move the throttle all the way up and then down to pair the remote control with the drone. The drone's propellers remain still during pairing. When paired, the LEDs on both the remote control and drone light steadily.

Note: If pairing fails, turn off the drone and remote control and repeat the steps above, or change locations to avoid electrical interference.

Fly Your Drone

1. After pairing, with the drone on the ground, move the throttle forward to ascend. To avoid ground air turbulence, fly the drone at least 1 ft. (30cm) off the ground.

2. For speed options, pair and fly in **Ex** mode. Push the steering control in to switch between high speed (double beep) and low speed (single beep).

IMPORTANT: If your drone crashes upside down, pull the throttle all the way down. Wait till the propellers have stopped still before you handle the drone.

Land Your Drone

1. Slowly move the throttle backward to descend. Avoid moving the throttle too quickly, as it can stop the propellers instantly and cause the drone to crash.

2. When you finish playing, turn off the remote control and drone.

Perform Flip Stunts

CAUTION: Make sure there is enough space for the drone to perform stunts without crashing into objects or people.

There are 2 flip styles:

- **FLIP 180** for half-flips and to fly upside down.
- **FLIP 360** for a full single somersault

1. Press the desired **FLIP** button. The remote control beeps repeatedly to indicate stunt mode activated.

2. Use the steering control to perform stunts:
   - **Front flip**: Move steering forward
   - **Back flip**: Move steering backward
   - **Barrel roll**: Move steering right or left

3. The drone automatically exits stunt mode after performing a stunt.

   - If you have selected **FLIP 180** , the drone flies upside down and continues to do so based on steering. To fly right way up again, repeat above stunt steps 1-2.
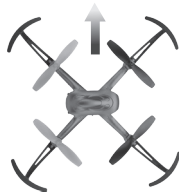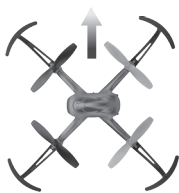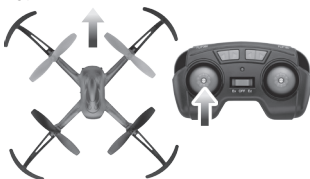
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Fly in "Headless" Mode

Featuring an integrated true-north compass, the drone can automatically align to fly "headless" in either **Ex** or **Ez** flight modes. This simplifies steering, when you do the following:

1. Select an open location without strong magnetic interference and place the drone facing forward on level ground.

2. Turn on the drone. Point your remote control forward in the same direction as the drone, then switch on the remote control to **Ex** or **Ez**.

3. Move the throttle all the way up and then down to pair the remote control with the drone. When paired, the drone's eyes turn from flashing rapidly to lit steadily. Now press the throttle inward. The drone's eyes slowly flash to indicate successful headless mode setting, and you are ready for takeoff.

4. The drone will fly forward in any direction based on steering, regardless which way the drone's head faces during takeoff and flight.
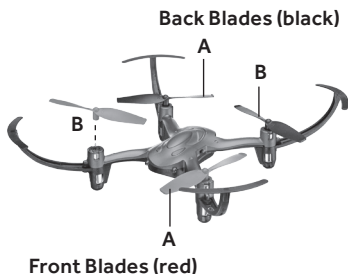

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Replace Damaged Propellers

The left and right propellers of the drone are different, and marked **A**/**B** on the propeller and axles). You must use the correct propeller in the correct location, otherwise the drone will fail to take off.

To replace a damaged propeller, remove the old one and press the new one onto the propeller axle. If you cannot remove the old propeller by hand, carefully use pliers.

Back Blades (black)

Front Blades (red)

WARNING:
- To avoid injury and damage, check the propellers for nicks and breaks and make sure they are securely attached before and after each flight. Replace any damaged propellers.
- Use only the supplied propellers. Do not alter, modify, or customize the propellers.

Troubleshooting

Drone does not respond

- Make sure the drone and remote control are switched on and paired.
- Drone battery maybe low. Fully charge the battery. See **"Charge the Drone Battery."**
- Remote control batteries maybe low. Replace the batteries.
- Make sure the drone is within the control range (120 ft./36.5 m) and in line of sight.

Drone difficult to control

- The throttle control is very sensitive. Use small, fine movements to control.
- Practice in **Ez** (Easy) mode.
- Propellers maybe deformed or damaged. Adjust propellers by hand. If you cannot adjust them, replace with the spare propellers.

Drone swerves or moves erratically before taking off

- The gyroscope inside your drone needs calibrating: Do the following:
1. With your drone and remote control switched on and paired (**Ex** or **Ez**), place the drone on level ground.
2. Move the throttle all the way down and the steering forward at the same time. Hold this position for a few seconds until the drone LEDs start to blink. When the drone LEDs light steadily, release the

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controls. Calibration is successfully completed, and you are now ready for takeoff.

- See **"Trim Your Drone"** below if necessary fine tune and improve control of your drone after calibration.

Trim Your Drone

Move the throttle forward and see how the drone reacts.

Reverse/ Forward Movement Trim: If the drone tends to move forward, press ◀ ; if it tends to move backward, press ▶.

Left/Right Slide Trim: If the drone tends to slide right, press ◀ ; if it tends to slide left, press ▶.

Note: The remote control beeps when you press a trim control, but stops beeping when you reach maximum trim adjustment.

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FCC Information

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.
- onnect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If you cannot eliminate the interference, the FCC requires that you stop using your equipment. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Limited Warranty

Go to www.radioshack.com/help for details.
RadioShack Customer Relations
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www.radioshack.com

RoHS Complies with the European Union's "Restriction of Hazardous Substances Directive," which protects the environment by restricting specific hazardous materials and products.

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