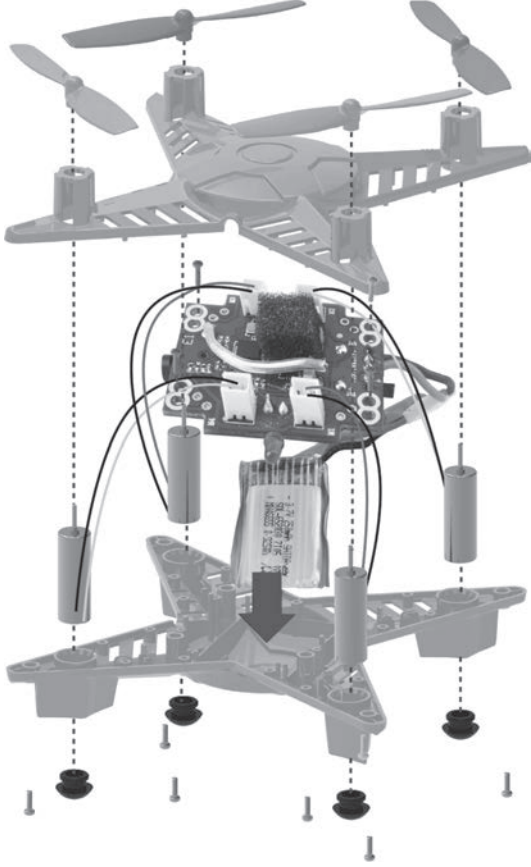
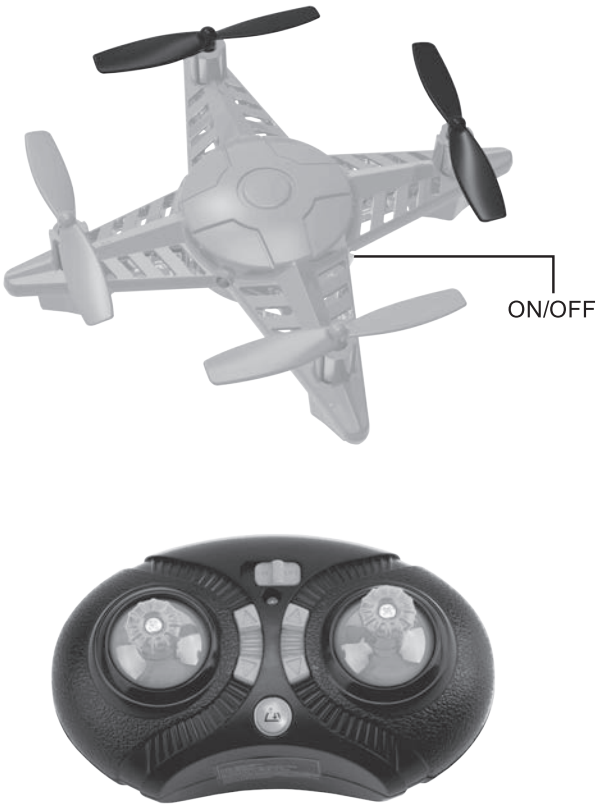




Build-a-Drone Kit





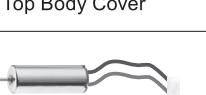
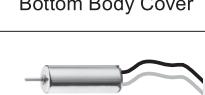
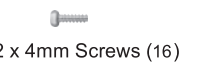



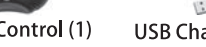


14+
ages



We hope you enjoy your DIY Drone Starter Kit from RadioShack. This kit comes with everything you need to build and fly a Quad-Rotor Drone. Please read this user's guide before using your new kit.

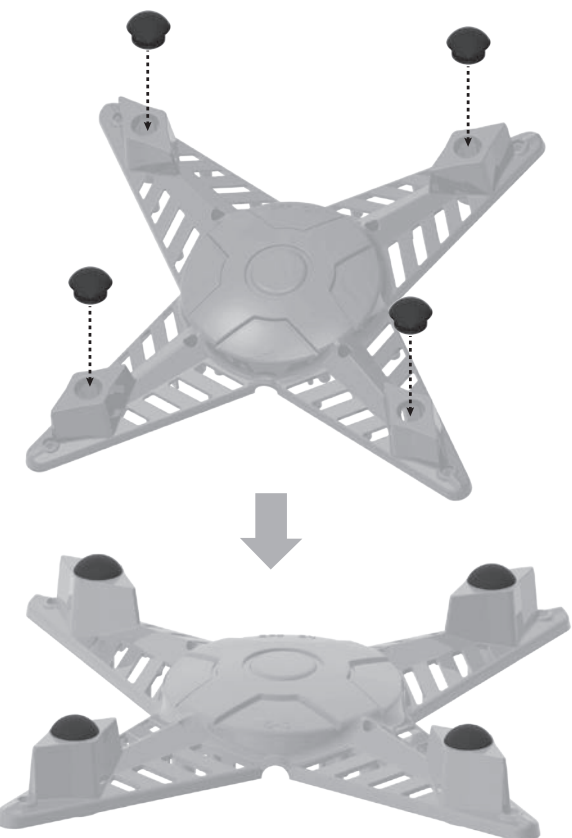
Package Contents

Check you have all the components before you start.

 PCB	 3.7V 300mAh Lithium Polymer Battery (2)
 Top Body Cover	 Bottom Body Cover
 Motor 1 (Red/Black Wires) (2)	 Motor 2 (White/Black Wires) (2)
 1.2 x 4mm Screws (16)	 Suspension Pads (4)
 Propellers A: Orange (2) Black (1)	 Propellers B: Orange (2) Black (1)
 Remote Control (1)	 USB Charging Cable (1)
	 Screwdriver (1)

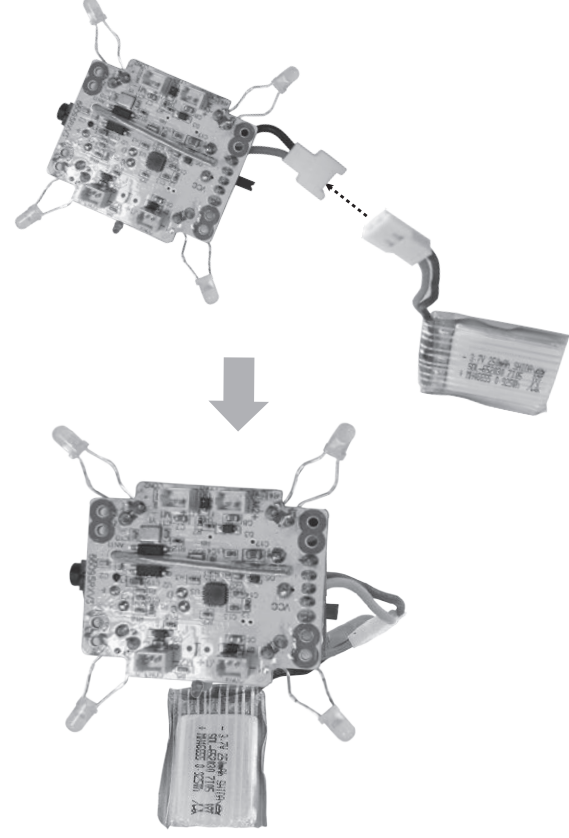
Assembly Diagram

Step1: Put the suspension pads into the bottom body cover shown as below.



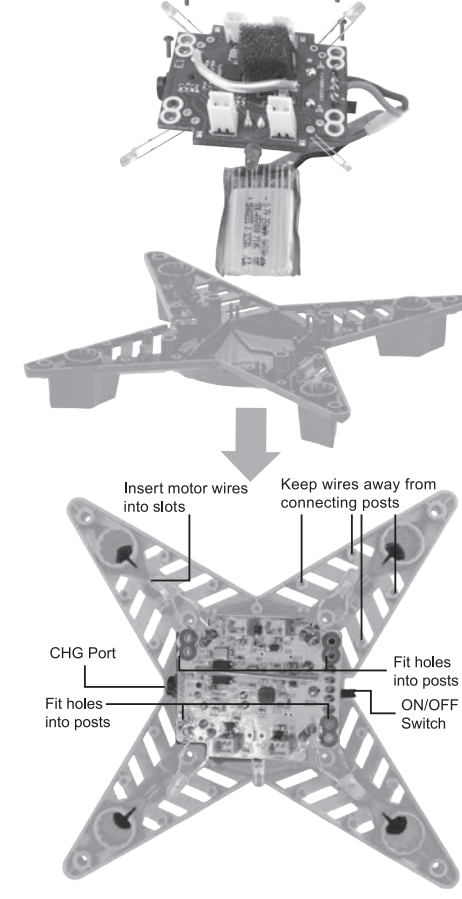
Assembly Diagram

Step2: Insert the plug of lithium polymer battery to corresponding position of PCB' A.



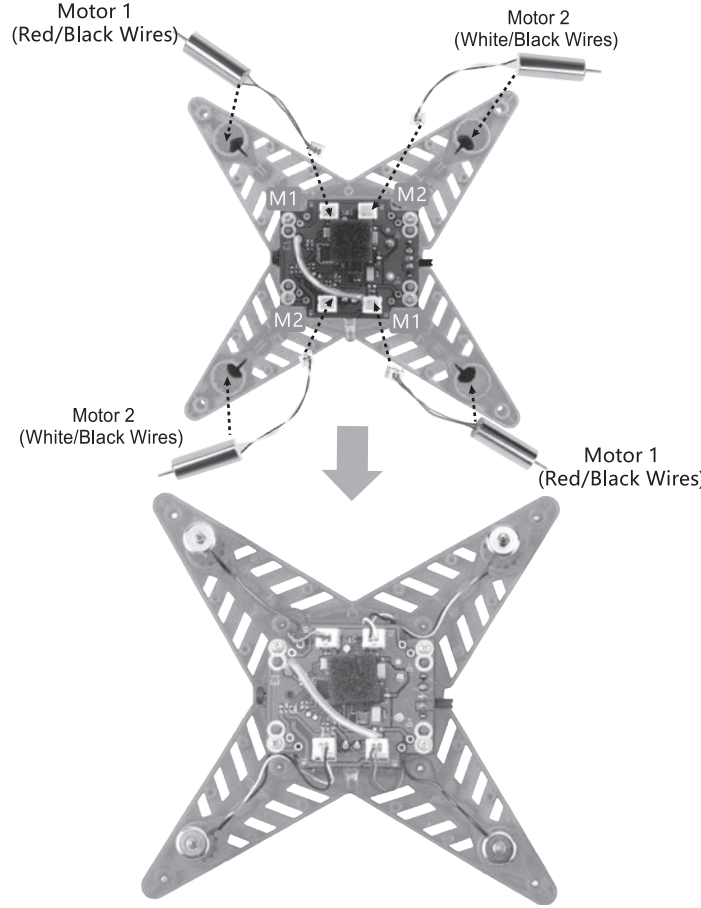
Assembly Diagram

Step3: Place the PCB 'A into the bottom body cover(make sure the battery beneath the PCB' A), then tighten the screws.



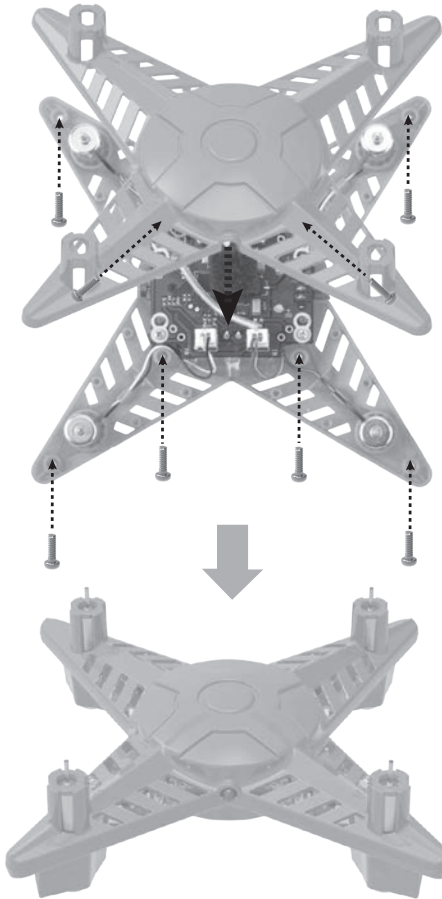
Assembly Diagram

Step4: Connect the Motors to the PCB' A and bottom body cover. (2 pcs Motor 1 connect to M1 ; 2 pcs Motor 2 connect to M2.)



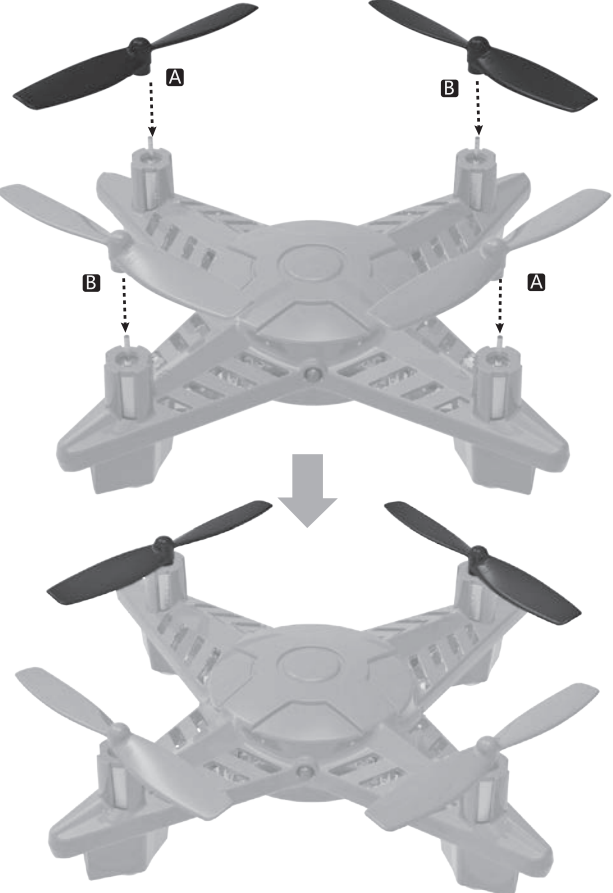
Assembly Diagram

Step5: Put the top body cover on, then tighten the screws.



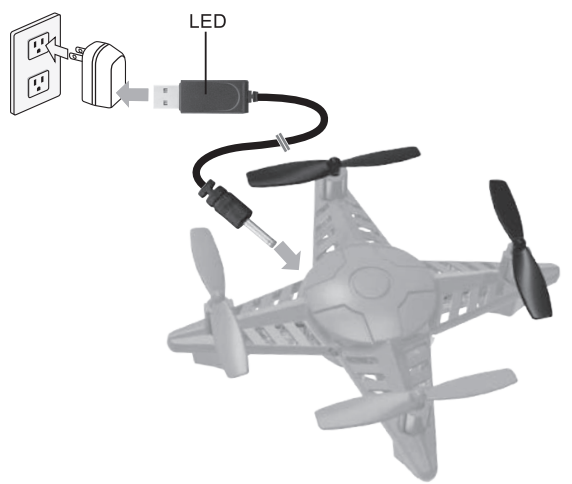
Assembly Diagram

Step6: Install the propellers. (Make sure the propeller A and propeller B mount to corresponding position.)



Charge the Drone Battery

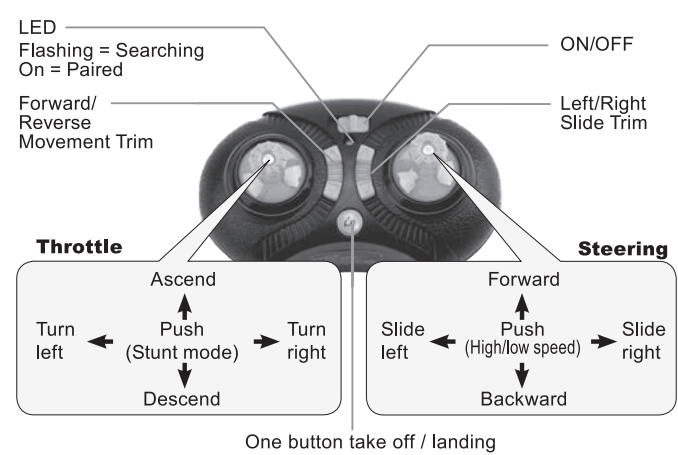
1. Make sure your drone is switched off. Plug the USB charging cable into your drone's charging port(CHG) and a USB power source. The LED on the USB connector lights red during charging, and turns off when charging is complete.
A full charge takes about 35 minutes, and provides up to 5 minutes of flight time.
2. After charging, unplug the charging cable. Do not attempt to overcharge.



CAUTION:

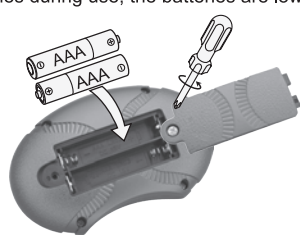
- Use only the supplied lithium battery and cable, or ones with the same specification to charge. Using any other batteries, cables or different specifications may damage the drone.
- After playing, let the battery cool for at least 20 minutes before charging.

Remote Controller Function Diagram



Install Batteries in the Remote Control


1. Set the remote control's ON/OFF switch to OFF.
 2. Open the battery compartment and insert two 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.

Fly Your Drone





1. There are 2 ways to take off. Place your drone on the ground and then either:
 - Press the  button. The drone will automatically take off, ascending about 5ft (150cm) and then hover.
 - 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, push the steering control in to switch between high speed (double beep) and low speed (single beep).

Land Your Drone

Automatically: Press  and the drone will steadily descend and land.
Manually: • Slowly move the throttle down to descend. Avoid moving the throttle too quickly, as it can stop the propellers instantly and cause the drone to crash.
• When you finish flying the drone, turn off the remote control and drone.

Trim

Move the throttle forward and see how the drone reacts.

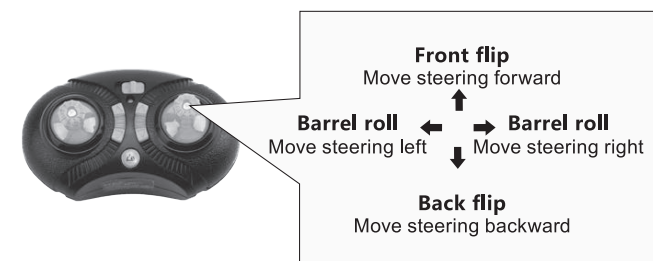
- Forward/Reverse Movement:**
If the drone tends to move forward, press ; if it tends to move backward, press .
- Left/Right Slide Trim:**
If the drone tends to slide right, press ; if it tends to slide left, press .



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

Stunts

IMPORTANT: Make sure there is enough space for the drone to perform stunts without crashing into objects or people.
1. Push the throttle control in so that the remote control beeps repeatedly to enter stunt mode.
2. Use the steering control to perform stunts.
3. The drone automatically exits stunt mode after performing a stunt.



WARNING:

- To avoid injury and damage, inspect the propellers for nicks and breaks and make sure they are securely attached before and after each flight. Replace nicked, chipped, cracked or broken propellers. (See details on page 9)
- 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.
- 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."
- Make sure the drone is within the control range (65 ft./20 m) and in line of sight.

Drone difficult to control

- Adjust the propellers by hand. If you cannot adjust them, replace with the spare propellers.
- The throttle control is very sensitive. Use small, fine movements to control.
- Practice at low speed mode. See "Fly."

Drone swerves / runs erratically before take off

- The gyroscope inside your drone needs calibrating. Do the following:
 1. With your drone and remote control switched on and paired, 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.
 3. When the LEDs light steadily, release the controls. Calibration is complete and you are now ready for take off.
- See "Trim" if necessary to fine tune and improve control of your drone after calibration.

Fly Safely

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

Nobility Inc

251 Little Falls Drive, Wilmington, Delaware, United States, 19808

Website: www.sainsmartjr.com

Email: support@sainsmartjr.com



Made in China V20180416001

FCC Caution
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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 noise 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/TV technician for help.
- The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.