



**FALCON** *PRO*

**QUADCOPTER DRONE WITH VIDEO CAMERA**

*User's Guide for Model DRC376 v1648-01*

# Warnings & Precautions

## Important Safety Instructions

- Read and follow all instructions.
- Keep these instructions for future reference.
- Heed all Warnings.
- Intended for children ages 14 and higher. Adult supervision is required.
- Only use attachments/accessories specified by the manufacturer.
- Before flying, always check the body, rotors, and battery for any damage or obstructions.
- Battery should be free from cracks or swelling.
- Keep the rotors clear of any obstructions and body parts to avoid potential damage and injury.
- Manufacturer and dealer assume no liability for accidental damages from improper use or installation of parts, or from damage incurred from worn or broken parts.
- Pilots are responsible for their actions and any damage caused from improper use.
- Pilots should keep the craft in sight at all times during flight. If you lose sight of the craft at any time, power down and cease flight immediately.
- Only fly in large, open areas that are free from obstacles or potential hazards, such as trees, power lines, ceiling fans, and the like.
- Flying over bodies of water is not recommended.
- Flying at night is not recommended.
- Never try to retrieve the craft from areas you cannot safely reach, such as rooftops or trees.
- Never launch the craft from your hand.
- Never leave the craft unattended while it is powered on or while the battery is charging.

## FCC Warnings

Warning: Changes or modifications to this unit 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, 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/TV technician for help.

## Additional Warnings & Precautions

- **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain, moisture, dripping, or splashing.
- **CAUTION:** Use of controls or adjustments or performance of procedures other than those specified may result in personal injury.
- **WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Lithium batteries, like all rechargeable batteries, are recyclable and should be recycled or disposed of according to state and local guidelines. They should never be disposed of in normal household waste, and they should never be incinerated, as they might explode. Contact your local government for disposal or recycling practices in your area.
- **WARNING:** Shock hazard - Do Not Open. Battery shall not be exposed to excessive heat such as sunshine, fire, or the like. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- Do not mix old and new batteries.
- Completely replace all old batteries with new ones.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (ni-cad, ni-mh, etc) batteries.
- Batteries should be recycled or disposed of as per state and local guidelines.
- **WARNING:** This product may contain chemicals known to the State of California to cause birth defects, or other reproductive harm (California Prop 65). Wash hands after handling.
- This product meets and complies with all Federal regulations.

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# *Sky Rider Falcon Pro* =====

## **FEATURES**

- 360° flips & tricks
- 2 speed settings
- 6-axis gyroscope
- .3 MP Camera (photo & video) with SD card slot
- Control distance: up to 150 feet
- Headless Mode
- Auto-Reverse
- LED navigation lights
- Operating time: 6-8 minutes
- Charge time: 60-80 minutes

## **INCLUDES**

- 2.4 GHz remote control: requires 6 AA batteries (not included)
- Built-in rechargeable lithium polymer battery
- USB cable for battery recharge
- 4GB SD card
- Screwdriver
- 4 replacement rotors
- User's guide & warranty

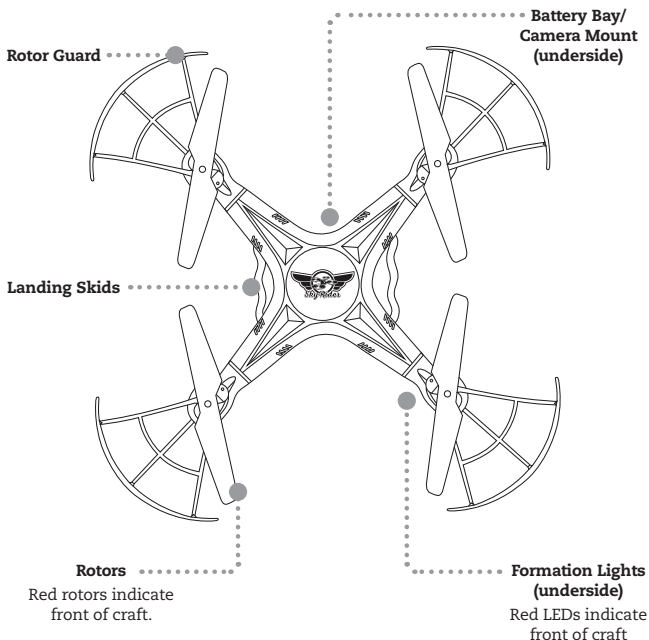


# Orientation

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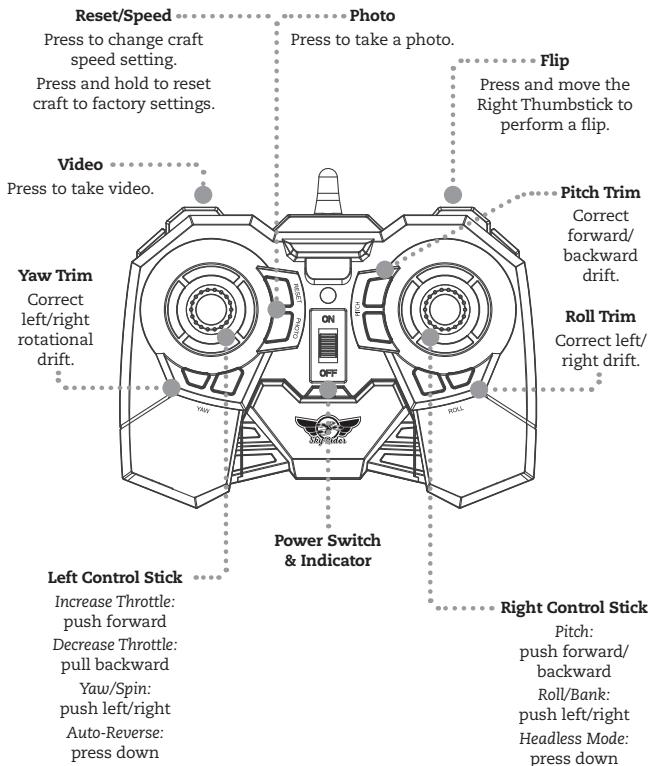
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## OVERVIEW



# Remote

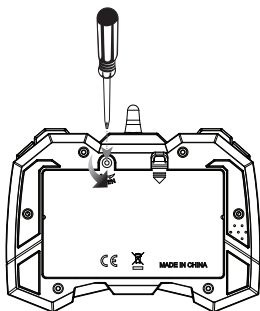
## REMOTE FUNCTIONS



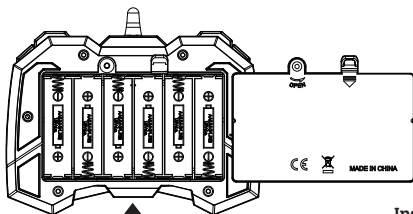
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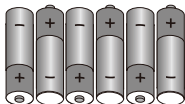
## REMOTE BATTERY INSTALLATION



Use screwdriver (included) and  
remove battery cover.



Insert 6 x AA Batteries  
(not included).



# Charging the Battery

## BATTERY CHARGING PROCEDURE

The craft's lithium-polymer (Li-Po) battery must be charged before the unit can be flown. Before charging, be sure the craft and remote control are powered off. This will reduce the chance of damage or injury.

### STEP 1

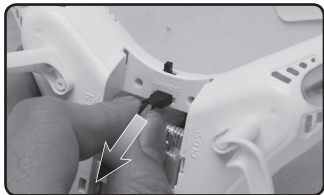
Make sure the craft is powered OFF, then remove the battery cover.



### STEP 2

Disconnect the power plug connecting the battery to the craft.

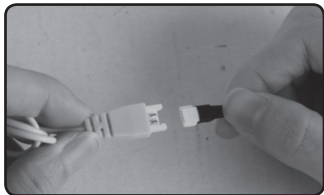
**It is strongly recommended to remove the battery when charging.** This will reduce the chance of damage or injury.



### STEP 3

Attach the plug on the battery to the plug on the charging cable.

**Be sure to match the plugs correctly or damage may occur.**



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## STEP 4

Plug the charging cable into the USB port of a powered ON computer or USB power adapter (not included). The battery will now charge.



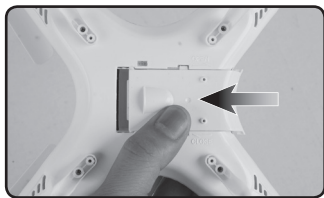
### AC/DC Charger Status

| LIGHT         | STATUS   |
|---------------|----------|
| Red Light ON  | Charging |
| Red Light OFF | Ready    |

## STEP 5

When charging is complete, reinstall the battery in its bay, reconnect the power plug from the battery to the craft, and close the battery cover.

**Be sure to match the plugs correctly and securely close the battery cover or damage may occur.**



# Pre-Flight Calibration

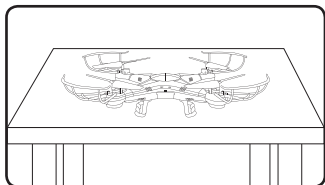
## CRAFT/REMOTE LINK

Before flying, the craft and the remote must be linked together, and the gyroscopes on the craft must be allowed to calibrate to ensure smooth and level flight.

**Begin with the craft and remote powered OFF.**

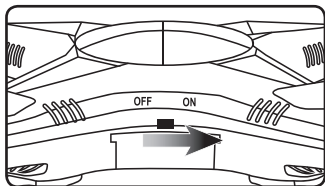
### STEP 1

Place the craft on a flat and level surface.



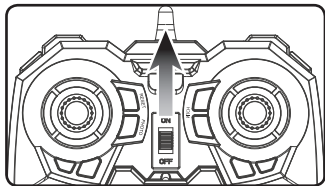
### STEP 2

Power the craft ON. The LED lights will blink in unison as the craft searches for a signal from the remote.



### STEP 3

Power the remote control ON. The light on the remote will blink as it searches for the signal from the craft. An audible chime will sound when the remote and the craft have successfully linked with each other.



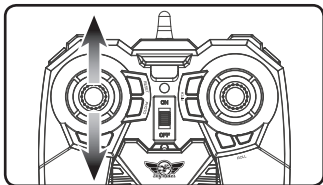
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## STEP 4

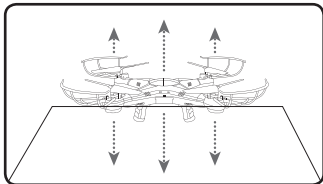
Push the Left Control Stick directly forward, wait for a chime to sound, then pull the stick directly backward, and wait for a second chime.

**When this last chime has sounded, the craft is calibrated and ready to fly.**



## STEP 5

Attempt a stable hover, low to the surface you started on. If you notice a tendency to drift, you may need to adjust the trim controls to fine tune the handling (see Trim Adjustment, pg. 12).



## WHEN YOU'RE DONE FLYING...

After safely landing, keep the throttle in the lowest position (OFF) and wait for the rotors to stop spinning. **Power OFF the remote first.** This will ensure that no signals are accidentally sent to the craft, reducing the chance of injury. After this is done, it is safe to pick up and power OFF the craft.

# Trim Adjustment

## SETTING TRIM & COUNTERING DRIFT

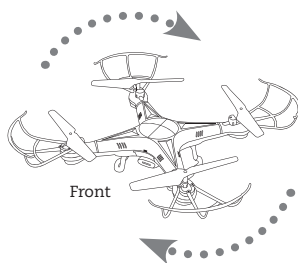
Even after the craft is calibrated, it may show a tendency to drift while airborne. Adjusting the trim will help counter this effect and allow you to better control the craft. To avoid potential damage, adjust the trim while in a stable hover, and do not make any sudden movements with the flight controls. Adjust one trim setting at a time to avoid confusion.

**Remember, the red LEDs /red rotors indicate the front of the craft.**

While adjusting the trim will help with drift, it is not guaranteed to eliminate it entirely. Physical, mechanical, and environmental factors (ex: a gust of wind) may still influence the craft's direction and flight.

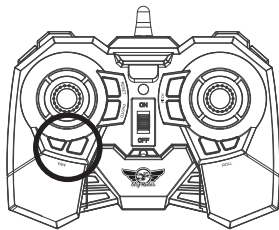
### DRIFT TYPE

Craft **yaws/spins** in place.



### SOLUTION

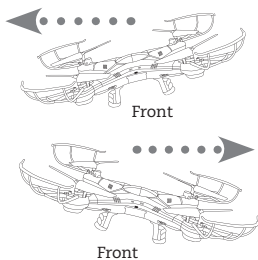
Adjust **Yaw Trim**.



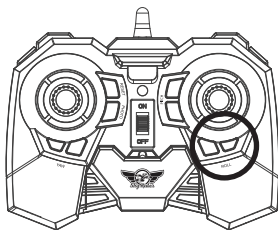
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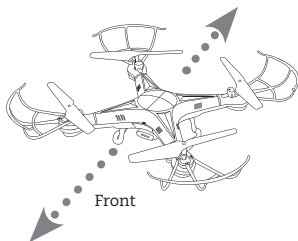
Craft **banks/rolls** left or right.



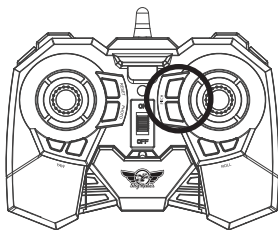
Adjust **Roll Trim**.



Craft **pitches/angles** forward or backward.



Adjust **Pitch Trim**.



# Flying Tips & Features

## TIPS FOR SAFE OPERATION

- Only fly in large, open spaces, such as a field or a very large indoor area, free of obstacles like power lines, trees, ceiling fans, etc.
- When flying indoors, avoid walls and ceilings, as the craft will be drawn towards them if closer than 2 to 3 feet.
- Stand behind the craft when first taking off, so that it and you are facing the same “forward” direction. This will make it easier to determine which direction it is flying. Also, remember that the red LED lights/red rotors indicate the front of the craft.
- Practice basic flight operations like take off, hovering, and landing.
- Flying inside, at low speed and low to the ground will reduce the chance of turbulence that can negatively affect the stable flight of the craft.
- Novice pilots should move the controls slowly and deliberately, using one control at a time, to get used to the craft’s flying characteristics. Next, try combining the pitch and roll controls (forward/backward and left/right on the Right Control Stick) to fly the craft similar to the way an airplane flies. After mastering this, try the yaw controls (left/right on the left thumbstick) to spin the craft in place and perform more complex maneuvers.
- If anything obstructs the rotors for any reason, throttle down IMMEDIATELY and safely clear the obstruction. Check for possible damage before flying again.

## SPEED SETTING

The craft has two speed settings for the responsiveness of the flight controls. The default setting is slower and intended for novice pilots. The higher setting allows for faster, more precise control and is intended more experienced pilots.

Change the speed setting with a short press of the **Reset button**. A chime will sound to indicate the change.

**NOTE:** A long press of the Reset button will restore the factory default settings. Be careful not to do this while the craft is in flight. See pg. 18 for more information.

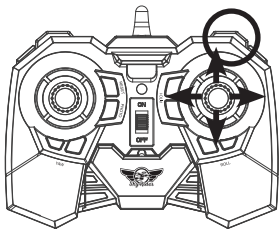
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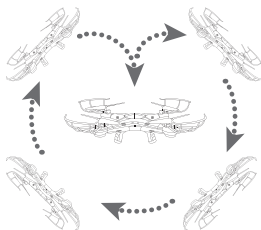
## FLIPS & TRICKS

**Before attempting any stunts**, be sure that there is ample clear space around the craft, ideally 9 to 10 ft. in every direction. It is not recommended to attempt to flip around or through any obstacles, as this may result in unintended damage.

**To perform a flip, follow the diagram below.**



Press the **Flip** button then move the **Right Control Stick** in any direction.



Craft will perform flip in the desired direction.

## HEADLESS MODE

Headless Mode changes the default orientation of the craft, where the red LEDs/red rotors indicate the front of the craft. Instead, the craft will reorient its “front” based on the first **Right Control Stick** input from the user. This can be useful if you become disoriented while flying, or cannot visually determine which direction is “true front”.

To activate Headless Mode, press the **Right Control Stick** once. Press again to deactivate Headless Mode. The craft’s LED lights will blink and a chime will sound to indicate that Headless Mode is active.

## AUTO-REVERSE

Press down (into the remote) on the **Left Control Stick** to make the craft fly in reverse.

# Camera & Memory Card

Make sure the remote and the craft have been successfully paired (indicated by a red light on the remote) and the Micro-SD card is installed in the camera before attempting to use.

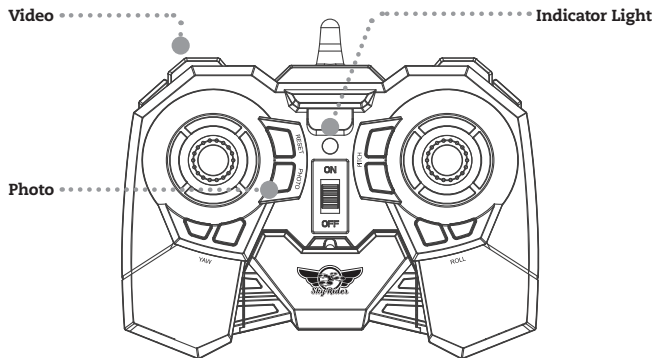
## VIDEO

To record video, press the **Video button** on the remote. The indicator light will turn green for as long as the camera is recording. Press the video button again to stop recording video, the light will turn back to red.

## PHOTOS

To take a single image, press the **Photo button** once. The indicator light will turn from red to green, then back to red.

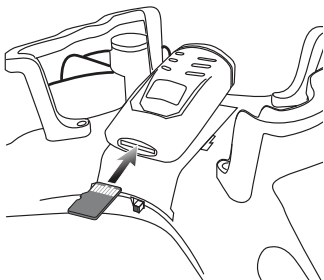
Press and hold the **Photo button** to take a 3 photo burst. The indicator light will flicker green 3 times, then switch back to red.



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## SD CARD INSTALL & REMOVAL

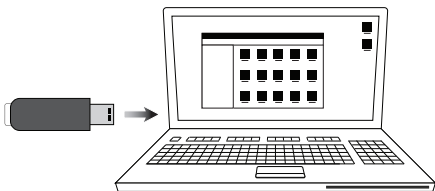


Gently push against the Micro-SD card until it clicks into or out of the card slot. Be sure to insert correctly or damage may occur.

## VIEW PHOTOS/VIDEO ON A COMPUTER



Remove Micro-SD card from camera and connect to included USB adapter. Be sure to insert correctly or damage may occur.



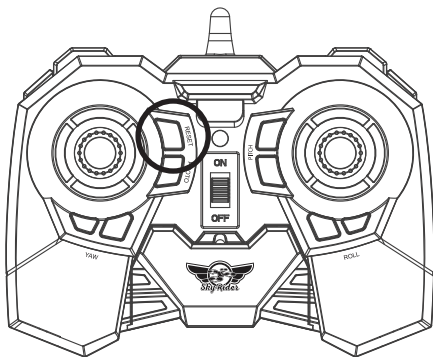
Connect to a USB port of a computer. Use the computer's file browser to access photos and videos.

# Troubleshooting

## RESTORE FACTORY SETTINGS

If the craft is experiencing difficulty flying or is behaving erratically, the craft and remote may need to have the factory default settings restored. **Do not attempt to do this while flying. Safely land the craft before attempting this procedure.**

**Press and hold the Reset button** for 2-3 seconds. The LED lights will begin blinking. When they have stopped blinking and have turned solid again the factory reset is complete and the craft is ready to fly.



**Factory Reset Button**

If you are experiencing problems using or flying the hexacopter, consult this table.

| PROBLEM                                                                 | POSSIBLE CAUSES                                                                                                                                          | SOLUTION                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Craft is unresponsive</b>                                            | <ul style="list-style-type: none"><li>• No power to remote or craft</li><li>• Poor contact between power plugs</li><li>• Craft is out of range</li></ul> | <ul style="list-style-type: none"><li>• Check remote batteries, replace if needed</li><li>• Check craft's battery, be sure it is fully charged</li><li>• Be sure the power plugs are firmly connected</li><li>• Be sure the remote has an unobstructed line of sight to the craft</li><li>• Remain within the remote's 150 ft. range</li></ul> |
| <b>Craft flies erratically</b>                                          | <ul style="list-style-type: none"><li>• Gyroscopes may be misaligned</li></ul>                                                                           | <ul style="list-style-type: none"><li>• Perform Pre-Flight Calibration again (see pg. 10)</li><li>• Recalibrate gyroscopes (see pg. 18)</li><li>• Perform factory reset (see pg. 18)</li></ul>                                                                                                                                                 |
| <b>Craft drifts while in flight</b>                                     | <ul style="list-style-type: none"><li>• Trim needs adjustment</li></ul>                                                                                  | <ul style="list-style-type: none"><li>• Adjust trim settings (see pg. 12)</li></ul>                                                                                                                                                                                                                                                            |
| <b>Craft suffers from mechanical difficulty or vibrates excessively</b> | <ul style="list-style-type: none"><li>• Damage to body, rotors, or other major components</li></ul>                                                      | <ul style="list-style-type: none"><li>• Check to make sure the craft has not taken significant damage</li><li>• Replacement parts may be needed (see pg. 21)</li></ul>                                                                                                                                                                         |
| <b>LED lights blinking, craft unresponsive</b>                          | <ul style="list-style-type: none"><li>• Low battery power</li></ul>                                                                                      | <ul style="list-style-type: none"><li>• Recharge the battery</li></ul>                                                                                                                                                                                                                                                                         |
| <b>Auto-Reverse flies in wrong direction</b>                            | <ul style="list-style-type: none"><li>• Gyroscopes may be misaligned</li></ul>                                                                           | <ul style="list-style-type: none"><li>• Recalibrate gyroscopes (see pg. 18)</li><li>• Perform factory reset (see pg. 18)</li></ul>                                                                                                                                                                                                             |

# Repair

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**REMINDER:** Pilots are responsible for any damage caused by improper use.

## PARTS REPLACEMENT

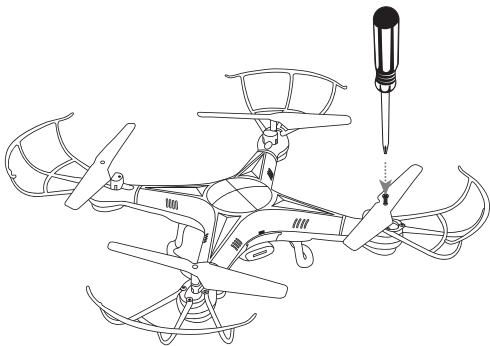
Standard parts such as extra batteries and remotes are available online for purchase when in stock. However, any non-standard parts such as cameras, screws, bodies, SD cards etc. can be ordered by placing an inquiry with our parts department at: [partsinfo@dpiinc.com](mailto:partsinfo@dpiinc.com).

## ROTOR REPLACEMENT

The craft comes with 4 replacement rotors, to be used if the originals are broken or badly damaged.

To replace a rotor, use a small Phillips head screwdriver (included) and remove the screw connecting the rotor to the electric motor shaft. Remove the damaged rotor and replace it with a new one, then screw it back into place on the motor shaft, taking special care not to bend or break the shaft.

**REMINDER:** It is extremely important to use the correct rotor (A or B) when replacing. Using the incorrect rotor will make the craft impossible to control. The marking can be found on the rotor.



# Company Information

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## CONTACT INFORMATION

Website: [www.gpx.com](http://www.gpx.com)

Email Support: [prodinfo@dpiinc.com](mailto:prodinfo@dpiinc.com)

Email Parts: [partsinfo@dpiinc.com](mailto:partsinfo@dpiinc.com)

Phone Support: 1-888-999-4215

## WARRANTY

See included 30 Day Warranty for warranty information. Warranty and the most up-to-date version of this User's Guide can also be found at: <http://gpx.com/drc376r.html>

## INTERNATIONAL SUPPORT

To download this User's Guide in English, Spanish, and French, or to get answers to frequently asked questions, visit the support section at: [www.gpx.com](http://www.gpx.com)

Para descargar este Manual del Usuario en inglés, español y francés, o para obtener respuestas a preguntas frecuentes, visite la sección de apoyo en: [www.gpx.com](http://www.gpx.com)

Pour télécharger ce guide de l'utilisateur en anglais, espagnol ou français, ou pour obtenir des réponses à des questions fréquemment posées, consultez la rubrique d'assistance sur: [www.gpx.com](http://www.gpx.com)



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Sustain for Tomorrow***

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