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INTRODUCTION

Thank you for purchasing this amazing World Tech Toys product. This drone is suitable for indoor and outdoor flight. Please carefully read the entire manual before operating this drone and keep it for reference in the future.

SAFETY & PRECAUTIONS

1. Important Instructions

1) This product is not a toy. It is a precision piece of equipment with integrated mechanical technologies, electronic, aero dynamics and radio frequencies. To avoid accidents, the operator must read these instructions carefully, prior to operation. If operated incorrectly, serious physical injury and/or property loss may occur.

2) This product is suitable for operators with previous hobby flying experience, age 14 and up.

3) Only fly in a safe environment that is legal for remote control flying.

4) We are not responsible for the operation and control of this device and related safety responsibilities.

2. Safety Instructions

1) Always operate far away from obstacles and crowds. This drone has uncertain flying speeds and conditions which present potential danger. Fly away from people, animals, high buildings, high voltage wiring, etc. To ensure a safe and fun flying environment avoid bad weather conditions like wind, rain, and thunder.

2) Avoid high temperatures. This drone is made of metal, plastic, electronic components and other materials. Keep away from any heat source and avoid using in high temperatures to prevent transformation and broken parts resulting from the heat.

3. Flight Environment

The inside of this drone is integrated with precision electronic and mechanical parts. Avoid contact with water and wet environments as it may result in parts breakdowns and accidents may occur.

4. Attention Before Flying

1) The minimum recommended flying area is 25ft x 25ft x 15ft.

2) Be sure that the transmitter and drone batteries are fully charged.

3) Be sure that the throttle is at its lowest position to avoid premature flight.

4) Always turn on the drone first, then turn on the transmitter. Incorrect operation may result in failure and the possible influencing of other devices in area.

5) Ensure that all plugs and wires are secure and in place as they may loosen over time.
**DRONE DIAGRAM**

- Rotor
- Power Button
- Rotor Guard Slots
- Landing Skids

**BOTTOM OF DRONE**

- LED Lights
- Landing Skids
- Battery Compartment

**TRANSMITTER DIAGRAM**

- Power Button
- Speed Modes
- Flip Stunt Mode
- Ascend/Descend [Left/Right Turning]
- Forward / Backward (Left / Right Sideways Flight)
- Forward / Backward Trim
- Left/Right Turning Trim
- Left / Right Sideways Trim
- Power Light
INSTALLING THE TRANSMITTER BATTERIES

First remove the screw on the battery cover and then remove the battery cover itself. Next install 4 AA batteries with the correct polarity. Finally replace the battery cover and screw it in place.

CAUTION:
1. Make sure the polarity of the batteries are correctly installed.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries.

INSTALLING THE DRONE BATTERY

1. Make sure the battery is turned off by pressing the button on top of the drone so that it sticks out. Open the battery compartment.
2. Connect the battery cable to the drones power cable located inside the compartment. Then place the battery inside and close the cover.
3. Test the power by pressing in on the drones power button. The drones lights will turn on if the battery was installed properly.

CHARGING THE DRONE BATTERY

1. Make sure the battery is turned off by pressing the button on top of the drone so that it sticks out. Open the battery compartment.
2. Remove the battery from the battery compartment underneath the drone. Disconnect the battery cable from the drones power cable located inside the compartment.
3. Connect the battery pack to the included USB charger then plug the USB to any powered USB port.

BATTERY PACK SPECIFICATIONS

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Battery Specification</th>
<th>Usage Duration</th>
<th>Charge Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>LiPo Battery</td>
<td>3.7V 380mAh</td>
<td>Flight Duration 6 - 8 minutes</td>
<td>Charging Time 50 -60 minutes</td>
</tr>
</tbody>
</table>

CAUTION WHILE CHARGING:
Do not charge with batteries still installed. Do not charge battery unsupervised. Do not immediately charge after use. Do not overcharge battery. ideal charge time is 50-60 minutes. Overcharging can cause a catastrophic failure. Always charge on dry and ventilated areas away from any heat source or flammable materials. Always use the original USB charging cable provided. Promptly change and replace old or defective batteries.
INSTALLING THE LANDING SKIDS

NOTE: The landing skids are all identical and can be installed in any of the landing skid slots on the drone.

Turn off the drone and turn over to install the landing skids.

Line up the landing skid with the three slots on any of the drones landing skid slots and push into place.

Secure each landing skid with a single screw using the supplied screwdriver.

INSTALLING THE ROTOR GUARDS

NOTE: The rotor guards are all identical and can be installed on any rotor arm of the drone.

Make sure the drone is turned off and ready the four rotor guards and screws.

Line up the rotor guard with one of the rotor arms on the drone, make sure the pegs on the guard fit into the three slots on the end of each arm.

Secure each rotor guard with a single screw in the center slot of the drones rotor arm.

PREFLIGHT PREP / SYNCING THE DRONE TO THE REMOTE

1. Make sure the battery pack is connected, in the battery compartment and the battery cover is closed securely.

2. Press the power button in on the top of the drone and place the drone on a flat surface with no obstructions in its flight path. The drone’s LED lights will begin to flash.

3. Turn on the Remote Control pressing the button at the center of the remote. The remotes power indicator will start flashing.

4. Push the left joystick on the remote all the way down, then all the way up, then all the way back down again. The remote will beep twice and the LED lights on the drone and the power indicator light on the remote will stop flashing. This means the drone is paired. (If this does not occur, turn off the remote and drone and try again.

5. Once paired, the drone is ready to fly. All you need to do is gently push up on the transmitters throttle stick and the rotors will start to spin. Continue slowly pressing up the on throttle stick to take off. It is STRONGLY recommended that you use the drone outdoors during initial flights.
Before flying the drone for the first time please read the instructions carefully and make sure you fully understand how to control your drone.

**THROTTLE**

**Move Forward/Backward**

**Move Right/Move Left**

**Left Spin/Right Spin**
FLYING THE DRONE - SPECIAL FUNCTIONS

SPEED CONTROL
The drone has 3 speed settings. Low, medium and high speed. The drone will always default to low speed when you first turn it on. Press the SPEED CONTROL button once and you will hear 2 beeps, meaning it is now on medium speed. Press the SPEED CONTROL button again and you will hear 3 beeps, meaning it is now on high speed. Press the button again to cycle back to low speed.

FLIP STUNT MODE
Have the drone hovering at least 10 feet off the ground. Press the Flip Stunt Mode button and push the right joystick in the direction you want the drone to perform a single flip. Normal function will resume after the flip.

LAUNCH TOSS TAKE OFF
Built-in 6-axis gyro technology allows you to throw a successfully readied drone straight into the air to fly. After you have paired the drone to the transmitter just pick up the drone and toss into the air and press up on the throttle. The drone will right itself and level out midair.

EASY MODE
Simplifies drone controls by limiting command directions based on pilot direction. Use Easy Mode when you are having difficulty telling which direction the drone is pointing because of distance. Follow the instructions below to use Easy Mode.

For Easy Mode to work properly you must launch the drone with the front of the drone facing away from the pilot as shown in the illustration to the left.

Easy Mode will not work if the button is pressed while the drone is to the side or behind the pilot. The drone must remain in front of the pilot, as shown in the illustration to the right (flight area).

Once Easy Mode is activated, the drone control will be relative to the direction of pilot, not the direction of the drone. The drone will fly toward the pilot when pressing down on the Forward/Backward stick (right joystick) and away when pressing up. Hold the Easy Mode button for 3 seconds again to deactivate it.

LOW POWER AUTO LANDING
When the four lights on bottom of drone start flashing during flight the battery is running low. For safety, the drone will slowly start to descend and automatically land.

EMERGENCY SHUT DOWN
As a safety feature, when the drones rotor blades are jammed or stopped by a collision the drone will stop motor functions and need to be readied for flight again to resume operation.
### ADJUSTING THE TRIM

When the drone moves without transmitter input, adjust the trim controls until hovering is stable.

<table>
<thead>
<tr>
<th>Direction</th>
<th>Trim Action</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drone is turning to the left.</td>
<td>Push the <strong>RIGHT TRIM</strong> button until the drone stops turning.</td>
<td><img src="image-url" alt="Turn Right Trim" /></td>
</tr>
<tr>
<td>Drone is turning to the right.</td>
<td>Push the <strong>LEFT TRIM</strong> button until the drone stops turning.</td>
<td><img src="image-url" alt="Turn Left Trim" /></td>
</tr>
<tr>
<td>Drone is moving forward.</td>
<td>Push the <strong>BACKWARD TRIM</strong> button until the drone stops.</td>
<td><img src="image-url" alt="Backward Trim" /></td>
</tr>
<tr>
<td>Drone is moving backward.</td>
<td>Push the <strong>FORWARD TRIM</strong> button until the drone stops.</td>
<td><img src="image-url" alt="Forward Trim" /></td>
</tr>
<tr>
<td>Drone is moving to the left.</td>
<td>Push the <strong>MOVE RIGHT TRIM</strong> button until the drone stops.</td>
<td><img src="image-url" alt="Move Right Trim" /></td>
</tr>
<tr>
<td>Drone is moving to the right.</td>
<td>Push the <strong>MOVE LEFT TRIM</strong> button until the drone stops.</td>
<td><img src="image-url" alt="Move Left Trim" /></td>
</tr>
</tbody>
</table>
POST FLIGHT

After you are done flying the drone make sure the battery pack is disconnected and the transmitter power is turned off. If you are not going to use the drone for a long period of time, please remove the AA batteries from the transmitter to prevent them from draining or leaking.

REPLACING THE ROTORS

The rotors may become damaged during a collision. The drone comes with 4 spare rotors. Please replace damaged rotors immediately.

The drone comes with 2 A rotors and 2 B rotors. The A and B rotors must be installed on specific locations on the drone for it to fly properly. Check the bottom of each rotor to see if it’s labeled either A or B. Use the illustration above to install them in the correct location.

1. Use the included screwdriver to unscrew and remove the screw on the rotor.
2. Remove the damaged rotor by lifting upward. Be sure not to misplace the screw.
3. Place the correct A or B rotor on top of the peg.
4. Replace the screw on the rotor. Repeat the process for any other rotors that need replacing.
## TROUBLESHOOTING

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<th>CAUSE</th>
<th>SOLUTION</th>
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<td>Drone is unresponsive. The Transmitter light keeps flashing.</td>
<td>Transmitter is not syncing with drone.</td>
<td>Repeat the power up process.</td>
</tr>
<tr>
<td>Drone is unresponsive.</td>
<td>Transmitter and or drone is not powered ON.</td>
<td>Turn both transmitter and drone ON.</td>
</tr>
<tr>
<td></td>
<td>Transmitter batteries are installed incorrectly.</td>
<td>Install the batteries with the correct polarity.</td>
</tr>
<tr>
<td></td>
<td>Transmitter batteries are drained.</td>
<td>Install fresh batteries to the transmitter.</td>
</tr>
<tr>
<td>Transmitter light is ON. Drone is unresponsive.</td>
<td>Drone’s battery pack is drained.</td>
<td>Charge the drone’s battery pack.</td>
</tr>
<tr>
<td>Drone’s rotors spins but doesn’t take off.</td>
<td>Rotor blades are damaged.</td>
<td>Replace the damaged rotor blades.</td>
</tr>
<tr>
<td></td>
<td>Drone’s battery pack is drained.</td>
<td>Charge the drone’s battery pack.</td>
</tr>
<tr>
<td></td>
<td>Drone is not on a flat surface.</td>
<td>Place the drone on a flat surface before attempting to take off.</td>
</tr>
<tr>
<td>Drone is shaking when flying.</td>
<td>Rotor blades are damaged.</td>
<td>Replace the damaged rotor blades.</td>
</tr>
<tr>
<td>Drone moves while hovering without transmitter input.</td>
<td>Trim needs to be adjusted.</td>
<td>Adjust the trim.</td>
</tr>
<tr>
<td>Drone still moves forward after adjusting the trim.</td>
<td>Gyroscope midpoint is off.</td>
<td>Turn off both transmitter and drone. Go through power on process and make sure you place the drone on a flat surface before taking off.</td>
</tr>
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## NOTES:

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