GoolRC A180

GoolRC WLtoys XKS A180 RC Airplane User Manual

Model: A180

Introduction

This manual provides essential instructions for the safe and effective operation of your GoolRC WLtoys XKS A180 RC Airplane. The A180 is a 2.4Ghz, 2-channel remote control aircraft featuring a 6-axis gyroscope system for stable flight, an adjustable rudder, and a powerful brushless motor. Constructed from durable EPP foam, it offers good resistance to impacts. Please read this manual thoroughly before first use and retain it for future reference.

Image: The GoolRC WLtoys XKS A180 RC Airplane, a grey and black fighter jet model, shown alongside its black remote control unit.

What's in the Box

Verify that all components listed below are included in your package:

- RC Airplane
- Remote Controller
- Airplane Battery
- Spare Propeller
- USB Cable (for charging)
- Screwdriver
- User Manual
- Landing Gear Kit

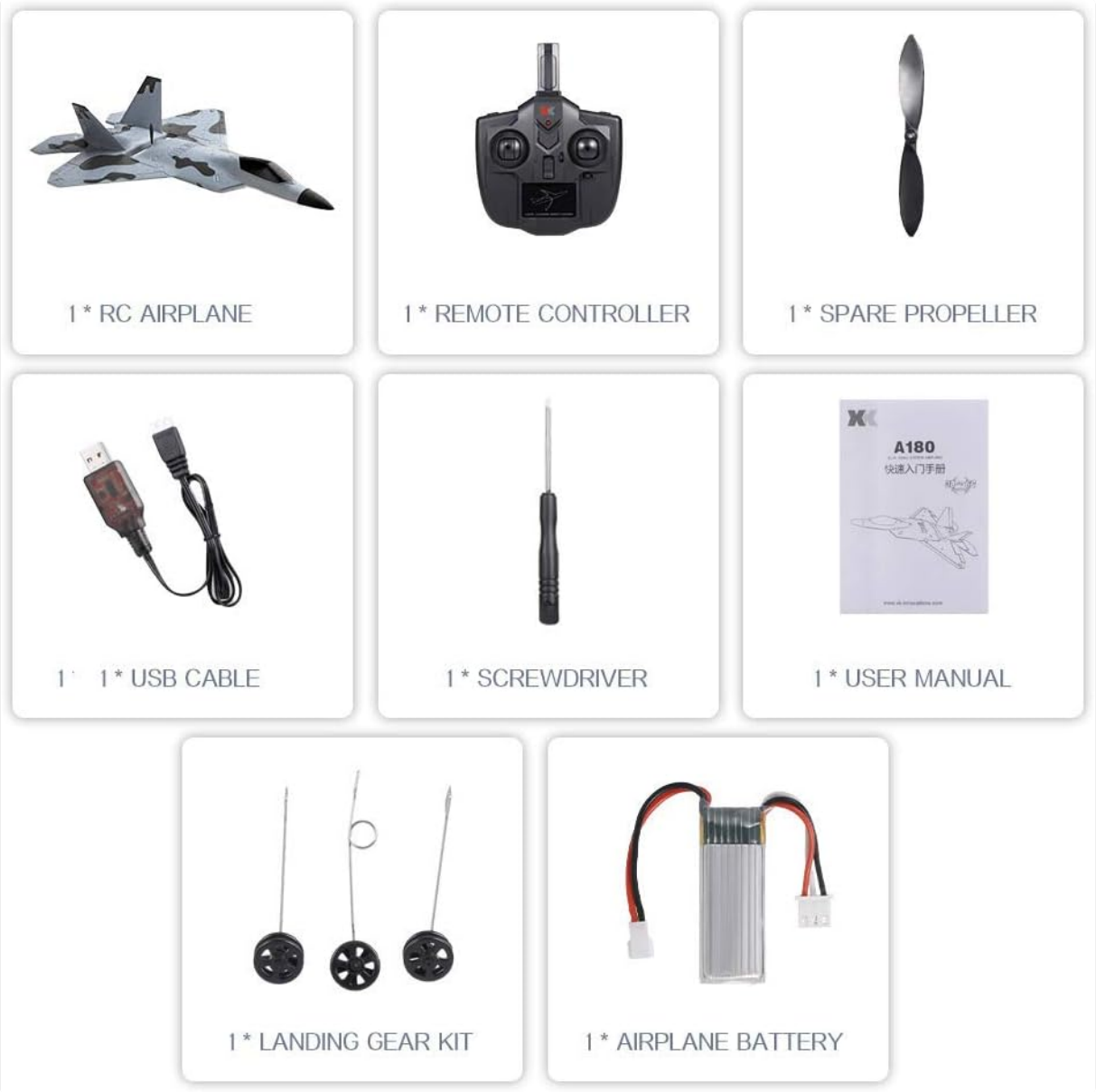


Image: A grid displaying all included components: RC airplane, remote controller, spare propeller, USB cable, screwdriver, user manual, landing gear kit, and airplane battery.

Setup Instructions

1. **Unpacking:** Carefully remove the RC airplane and all accessories from its packaging.
2. **Assembly:** Attach the wings and landing gear to the airplane using the provided screws and screwdriver. Ensure all connections are secure.
3. **Battery Charging:** Connect the airplane battery to the USB charging cable. Plug the USB cable into a suitable USB power source. Charge the battery for approximately 30-60 minutes, or until the charging indicator shows a full charge. Do not overcharge.
4. **Airplane Battery Installation:** Once charged, carefully insert the airplane battery into its designated compartment within the aircraft. Ensure it is connected correctly and secured.
5. **Remote Controller Batteries:** Insert 4 x 1.5V AA batteries (not included) into the remote controller. Observe correct polarity.

Operating Instructions

Pre-Flight Checklist

- Ensure both the airplane and remote controller batteries are fully charged.
- Verify all parts are securely assembled.
- Choose an open area free from obstacles, people, and animals for flight.
- Check weather conditions; avoid flying in strong winds or rain.

Binding and Calibration

1. Turn on the remote controller.
2. Turn on the airplane. Place the airplane on a flat, level surface to allow the gyroscope to calibrate properly.
3. Wait for the remote controller and airplane to bind. A successful bind is usually indicated by a solid light on the airplane and/or a beep from the remote.

Flight Modes

The A180 features two primary flight modes:

- **6G Mode (Automatic Stabilization):** This mode utilizes the 6-axis gyroscope for enhanced flight stability. When the joystick is released, the aircraft will automatically maintain a stable flight attitude. This mode is ideal for beginners.

Image: The GoolRC A180 RC Airplane flying steadily through clouds, illustrating the 6-axis gyroscope's automatic stabilization mode.

- **3D Mode (Aerobatic Flight):** With the 3-axis gyroscope, this mode allows for precise control and enables advanced maneuvers such as rolls, somersaults, and inverted flight. The remote control

reaction is more sensitive in this mode. This mode is suitable for experienced pilots.

Image: The GoolRC A180 RC Airplane leaving a smoke trail during an aerobatic maneuver, demonstrating the 3-axis gyroscope's 3D flight mode.

Switch between 3D and 6G modes using the designated button on the remote controller.

Rudder Adjustment

The remote control offers small and large rudder settings.

- **Small Rudder:** Provides softer, less sensitive control, recommended for beginners.
- **Large Rudder:** Offers more sensitive and flexible control, suitable for experienced pilots and aerobatics.

Adjust the rudder setting on the remote controller according to your skill level and the flight environment.

Take-off and Landing

1. **Take-off:**
    - **Hand Launch:** Hold the aircraft firmly and throw it vigorously against the wind, ensuring it is in the correct flight attitude. Gradually increase the throttle to 100% as it leaves your hand.
    - **Ground Take-off:** Place the aircraft on a flat, relatively soft ground (like grass). Confirm that each rudder is centered and correctly oriented. Gently pull the throttle stick up to gradually increase power to 100% until the aircraft takes off.

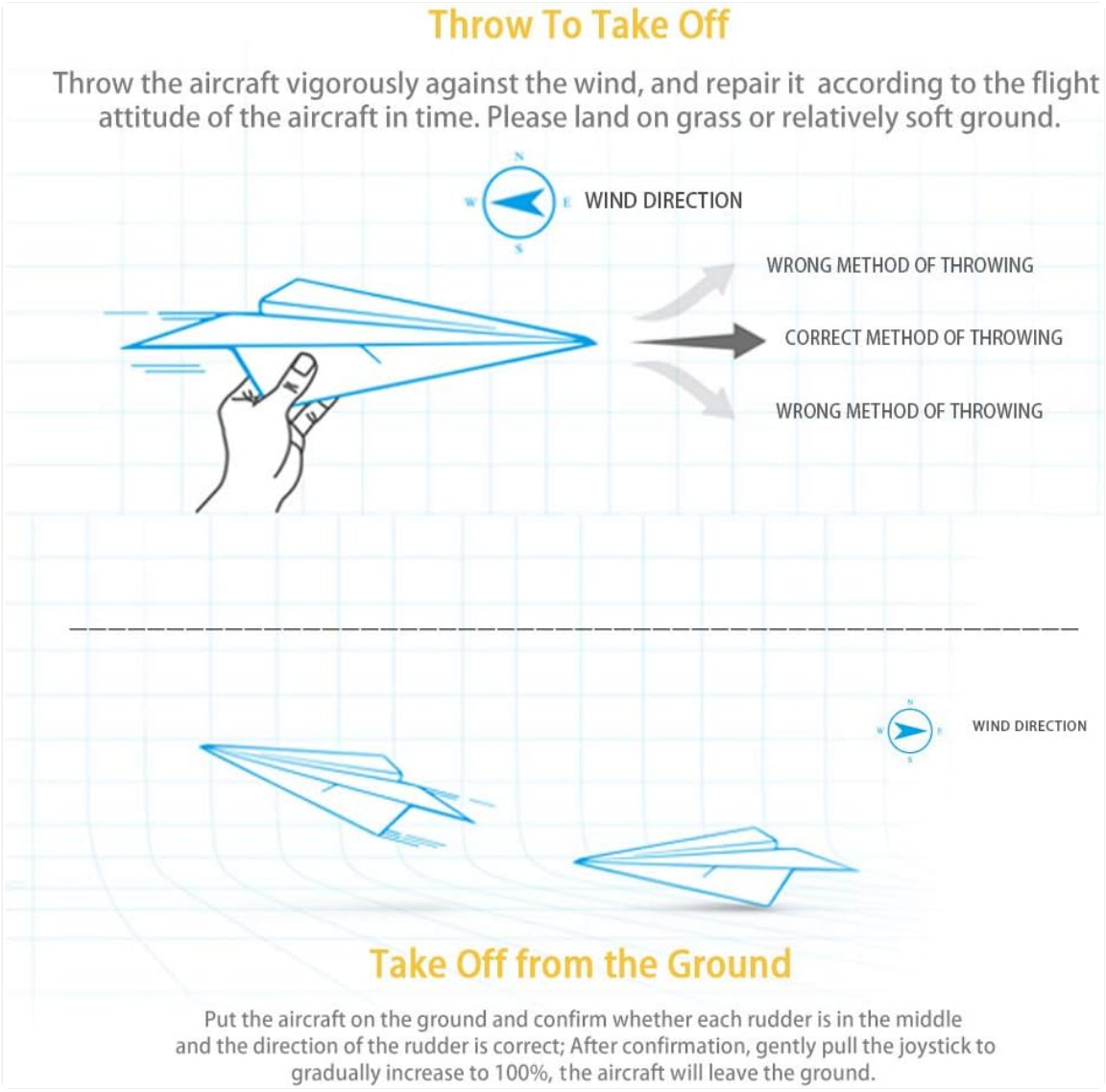


Image: Diagrams illustrating the correct and incorrect methods for hand launching the RC airplane, and the proper procedure for ground take-off.

2. **Flight Control:** Use the control sticks on the remote to maneuver the airplane. The left stick typically controls throttle and rudder (yaw), while the right stick controls elevator (pitch) and ailerons (roll).
3. **Landing:** Reduce the throttle gradually and gently lower the nose of the airplane. Aim for a smooth, controlled descent onto a flat surface. Once on the ground, fully reduce the throttle to stop the propeller.

Image: The GoolRC A180 RC Airplane in flight, with icons highlighting its 3-channel control, 3-axis and 6-axis gyroscope switch, and 1106 brushless motor.

Image: The 2.4 GHz remote control for the GoolRC A180 RC Airplane, showing its antenna, power indicator, and power switch, with a stated range of 200 meters.

Maintenance

- **Inspection:** Regularly inspect the airplane for any damage to the EPP foam, propeller, landing gear, or control surfaces after each flight.
- **Cleaning:** Clean the aircraft with a soft, dry cloth. Avoid using water or chemical cleaners that could damage electronic components or foam.
- **Propeller Replacement:** If the propeller is damaged, replace it with the provided spare propeller or an official replacement part to ensure optimal flight performance and safety.
- **Battery Care:** Store batteries in a cool, dry place. Do not leave batteries fully charged or fully discharged for extended periods. Follow all battery safety guidelines.

Image: A close-up view of the underside of the GoolRC A180 RC Airplane, highlighting the 1106 5350KV brushless motor, which provides efficient and powerful flight.

Troubleshooting

Problem	Possible Cause	Solution
Airplane does not respond to remote.	Low battery in airplane or remote. Not properly bound. Out of range.	Charge/replace batteries. Re-bind the airplane and remote. Fly within the specified range (approx. 200m).
Airplane flies erratically or is unstable.	Gyroscope not calibrated. Damaged propeller or control surface. Strong wind conditions.	Ensure airplane is on a level surface during power-on for calibration. Inspect and replace damaged parts. Avoid flying in strong winds.
Propeller does not spin.	Obstruction. Motor or wiring issue.	Check for debris around the propeller. Contact customer support if motor or wiring is suspected.

Specifications

- **Brand:** GoolRC
- **Model:** XKS A180
- **Material:** EPP Foam
- **Motor:** 1106 5350KV Brushless Motor
- **Control System:** 2.4Ghz, 2 Channel
- **Gyroscope:** 3-axis / 6-axis switchable
- **Recommended Age:** 16 years and up
- **Item Weight:** Approximately 1.55 pounds
- **Package Dimensions:** 17.6 x 12.5 x 4 inches

Image: The underside of the GoolRC A180 RC Airplane, showing illuminated red and green LED searchlights, designed to enhance visibility during night flights.

Safety Information

Please observe the following safety precautions to prevent injury or damage:

- This product is recommended for users aged 16 and above.
- Always operate the aircraft in open, unobstructed areas, away from people, buildings, power lines,

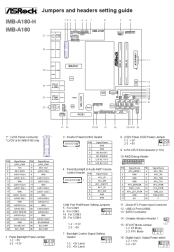
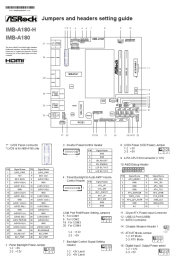
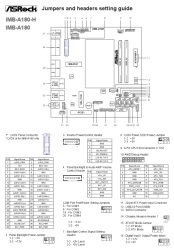
and water bodies.

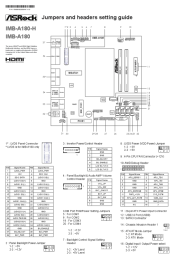
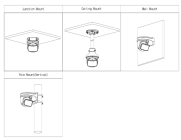
- Do not fly in adverse weather conditions such as strong winds, rain, or lightning.
- Keep hands, face, and loose clothing away from the rotating propeller.
- Never attempt to catch a flying aircraft.
- Ensure the battery is properly charged and installed before each flight.
- Turn off the aircraft and remote control when not in use.
- Do not modify or disassemble the aircraft or its components, as this may cause malfunction or injury.

Warranty and Support

Specific warranty details for the GoolRC WLtoys XKS A180 RC Airplane are not provided in this manual. For warranty information, technical support, or replacement parts, please refer to the product packaging or contact GoolRC customer service directly through their official website or the retailer where the product was purchased.

Related Documents - A180

	ASRock IMB-A180-H/IMB-A180 Motherboard Jumpers and Headers Guide Comprehensive guide to ASRock IMB-A180-H and IMB-A180 industrial motherboard jumpers, headers, and connectors, detailing their functions and settings for optimal system configuration.
	ASRock IMB-A180-H/IMB-A180 Motherboard Jumpers and Headers Setting Guide Comprehensive guide detailing the jumpers, pin headers, and connectors on the ASRock IMB-A180-H and IMB-A180 industrial motherboards, with pinout configurations and setting explanations.
	ASRock IMB-A180-H/IMB-A180 Jumpers and Headers Setting Guide This guide provides detailed information on the jumper and header configurations for the ASRock IMB-A180-H and IMB-A180 industrial motherboards. It explains the function of various pin connectors, power settings, and control headers to assist users in system setup and configuration.

	[ASRock IMB-A180-H/IMB-A180 Jumpers and Headers Setting Guide] Detailed guide to ASRock IMB-A180-H and IMB-A180 motherboard jumpers and headers, explaining pin configurations, power settings, and connector functions for optimal hardware setup.
	[Sony MB-L18 Mounting Bracket Installation Guide] Concise installation guide for the Sony MB-L18 mounting bracket, designed for the LMD-A180 monitor. Includes safety precautions, compatible monitor details, accessories, and step-by-step mounting instructions for 19-inch EIA racks.
	[Dahua IPC-PDW5849-A180-E2-ASTE-0360B Mounting Options and Installation Methods] Explore the various mounting solutions for the Dahua IPC-PDW5849-A180-E2-ASTE-0360B surveillance camera, including junction, ceiling, wall, and vertical pole mounting configurations.