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› HAWK'S WORK P-51D Mustang 500mm RC Plane Instruction Manual

HAWK'S WORK EXA768

HAWK'S WORK P-51D Mustang 500mm RC Plane Instruction Manual

Model: EXA768

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your HAWK'S WORK P-51D Mustang 500mm RC Plane. Please read this manual thoroughly before operating the aircraft to ensure proper setup, flight, and maintenance. This remote-controlled warbird features a brushless motor, 6-axis gyroscope, and three flight modes suitable for various skill levels.

2. PACKAGE CONTENTS

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

- P-51D Mustang RC Plane (fuselage pre-assembled)
- 2.4GHz Remote Control Transmitter
- Lithium Polymer Batteries (2 required, 1 included, 1 spare)
- Spare Propellers (2 sets)
- Landing Gear Set
- USB Battery Charger
- User Manual



Figure 2.1: P-51D Mustang RC Plane with remote control, batteries, propellers, landing gear, and USB charger.

3. SETUP

3.1 Assembly

The fuselage of your P-51D Mustang comes pre-assembled. Before your first flight, you will need to install the propeller, landing gear, and battery.

1. **Install Landing Gear:** Carefully attach the main landing gear to the designated slots on the underside of the wings. Ensure they are securely in place. The tail wheel is also to be attached.
2. **Install Propeller:** Attach the propeller to the motor shaft. Ensure it is oriented correctly for forward thrust.
3. **Insert Battery:** Open the battery compartment, typically located on the underside of the fuselage. Connect the fully charged battery to the aircraft's power connector and secure it within the compartment.

SIMULATION COCKPIT



Figure 3.1: Detailed view of the simulation cockpit and the rudder with rear wheel linkage for ground control.

RUDDER & REAR WHEEL LINKAGE STEERING



Figure 3.2: Illustration of the rudder and rear wheel linkage steering mechanism.

3.2 Battery Charging

Use the provided USB charger to charge the Lithium Polymer batteries. Connect the charger to a USB power source and then connect the battery. The indicator light on the charger will show the charging status (e.g., red for charging, green for fully charged). Always supervise charging and disconnect once complete.

4. OPERATING INSTRUCTIONS

4.1 Remote Control Overview

Familiarize yourself with the remote control's functions:



Figure 4.1: The 2.4GHz remote control showing the LED indicator, X-pilot switch, throttle, rudder, aileron, elevator, and power switch.

4.2 Flight Modes (X-Pilot Gyro System)

The P-51D Mustang is equipped with an X-pilot gyroscopic stabilization system offering three flight modes:

- **Beginner Mode:** Full assistance with restricted angle limits for stable flight.
- **Intermediate Mode:** Partial assistance with increased angle limits for more maneuverability.
- **Expert Mode:** No assistance, providing full manual control for advanced aerobatics.



Figure 4.2: Visual representation of the three flight modes, showing varying levels of assistance and control angles.

4.3 Takeoff Procedures

The aircraft supports two methods for takeoff:

- **Hand Launch:** Hold the aircraft firmly and gently toss it forward while applying throttle.
- **Ground Takeoff:** Place the aircraft on a flat surface (runway). Gradually increase throttle and use rudder control to steer until it gains sufficient speed for liftoff.



Figure 4.3: Demonstrations of hand launching the aircraft and taking off from the ground.

4.4 Special Flight Functions

The P-51D Mustang includes several one-key functions for enhanced flight experience:

- **One-Key Takeoff:** Initiates an automatic takeoff sequence.
- **One-Key U-Turn:** Executes an automatic U-turn maneuver.
- **One-Key Aerobatics:** Performs pre-programmed aerobatic maneuvers such as rolls, loops, and yaw turns.
- **Low Voltage Alarm:** Alerts the pilot when the battery voltage is low, indicating it's time to land.



Figure 4.4: Visual guide to one-key takeoff and aerobatic functions including roll, loop, and yaw.

Your browser does not support the video tag.

Video 4.1: Official HAWK'S WORK video demonstrating the P-51D Mustang RC Plane in flight, showcasing its features and maneuverability.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your RC plane.

- **Propeller Saver:** The propeller is designed to flick out upon impact with an obstacle, protecting itself and the electronic components. Inspect the propeller after any impact and replace if damaged.
- **Wing Reinforcement:** The wings are strengthened with ultra-light carbon fiber strips for durability. Regularly check for any damage to the wing structure.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. Disconnect batteries from the aircraft when not in use.
- **Cleaning:** Gently clean the aircraft with a soft, dry cloth after each use to remove dirt and debris.

PROPELLER SAVER

The propeller flicks out when hitting obstacle to protect itself and the electronic parts.

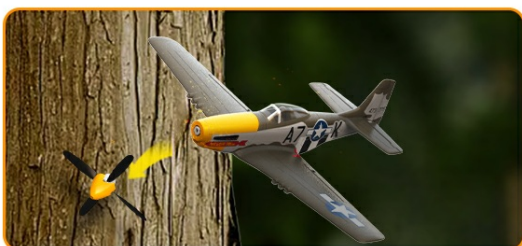


Figure 5.1: The propeller saver feature, designed to protect the propeller and motor during impacts.

CARBON FIBER STRIPS

Strengthening the wing with ultra-light carbon fibre

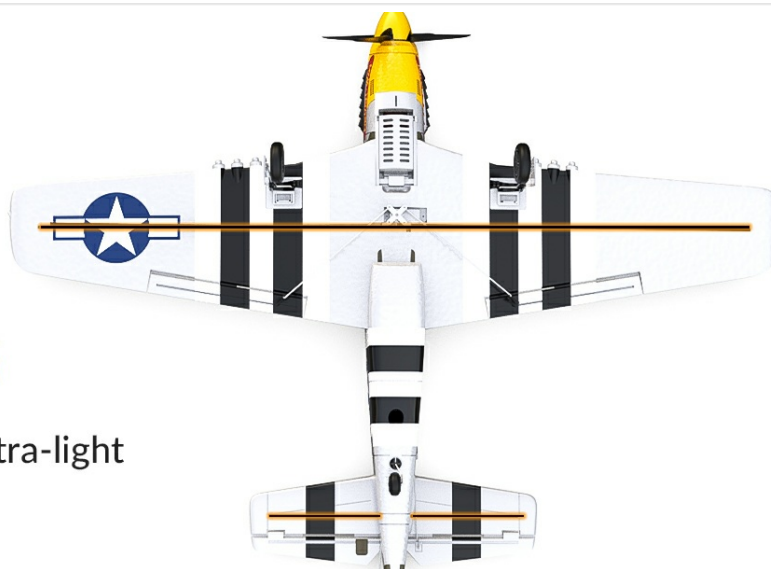


Figure 5.2: Carbon fiber strips integrated into the wing structure for enhanced durability.

6. TROUBLESHOOTING

If you encounter issues with your P-51D Mustang, consider the following common solutions:

- **No Power:** Ensure the battery is fully charged and correctly connected to the aircraft. Check the power switch on both the aircraft and the remote control.
- **Loss of Control/Unstable Flight:** Verify that the remote control is properly bound to the aircraft. Check for any physical damage to the control surfaces (ailerons, rudder, elevator) or propeller. Ensure the 6-axis gyro is calibrated correctly (refer to the full manual for calibration steps if needed).
- **Short Flight Time:** Ensure batteries are fully charged. Battery performance can degrade over time; consider replacing old batteries.
- **Propeller Not Spinning:** Check for obstructions around the propeller. Ensure the propeller is securely attached and not damaged. Inspect motor connections.

For persistent issues, refer to the support section for contact information.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	19.69 x 15.75 x 4.72 inches
Item Weight	1.98 pounds
Item Model Number	EXA768
Manufacturer Recommended Age	14 years and up
Batteries	2 Lithium Polymer batteries required (included)
Motor Type	1408 Brushless Motor 2300kv
Flight Control System	X-pilot 6-axis Gyro
Flight Modes	3 (Beginner, Intermediate, Expert)

STRONG POWER

1408 Brushless Motor 2300kv



Figure 7.1: The powerful 1408 brushless motor, providing high speed and stable operation.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

HAWK'S WORK offers a **1-year warranty** for the aircraft and a **3-month warranty** for the battery. This warranty covers non-human-caused problems. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact HAWK'S WORK customer support:

- Via Amazon message.
- Through the support email provided in the physical manual included with your product.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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