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> [GoolRC Dancing Wing Hobby T05 Vogee-08 820mm Wingspan Balsa Wood RC Aeroplane Trainer KIT Instruction Manual](#)

GoolRC T05 Vogee-08

GoolRC Dancing Wing Hobby T05 Vogee-08 820mm Wingspan Balsa Wood RC Aeroplane Trainer KIT Instruction Manual

1. INTRODUCTION

This manual provides essential information for the assembly, setup, operation, and maintenance of your GoolRC Dancing Wing Hobby T05 Vogee-08 820mm Wingspan Balsa Wood RC Aeroplane Trainer KIT. Please read these instructions thoroughly before beginning assembly or operation to ensure safe and correct use of the product. This product is a KIT and requires additional components and assembly.



Image 1.1: The fully assembled and decorated T05 Vogee-08 RC Aeroplane.

2. PRODUCT OVERVIEW

2.1 Features

- **Balsa Wood Material:** Crafted from premium balsa wood, ensuring durability and resistance to damage.
- **Great Flying Performance:** Designed for superior flying performance, offering smooth and stable flights.
- **Easy to Assemble:** Engineered for straightforward and quick assembly.
- **Easy to Transport:** Lightweight and compact design facilitates convenient transportation to various outdoor flying locations.
- **Ideal for All Skill Levels:** User-friendly design suitable for both beginners and experienced flyers.

2.2 Specifications

T05 BalsaWood Kit 820mm Vogee-08

 820mm 32inch	 630mm 25inch	 FLY ≈450g
 MM1908 2050KV	 2S 20A	 9g*4pcs
 2S 800-1300mAh	 7inch	 ≥4CH
 ASSEMBLY E ————— H	 FLYING E ————— H	 E-Power <input checked="" type="checkbox"/> G-Power





Image 2.1: Key specifications and the balsa wood frame of the T05 Vogee-08.

Specification	Value
Brand Name	Dancing Wing Hobby
Item Name	T05 Vogee-08
Material	Balsa Wood
Wingspan	820mm (32 inches)
Length	630mm (25 inches)
Flying Weight	Approximately 450g
Wing Area	12.9dm ²
Wing Load	35g/dm ²
Manufacturer Recommended Age	16 years and up

3. PACKAGE CONTENTS

- **Read Instructions:** Always read through the entire assembly manual provided with the KIT before starting.
- **Dry Fit:** Dry fit all parts before applying glue to ensure proper alignment and fit.
- **Gluing:** Use appropriate glues for balsa wood and allow sufficient drying time.
- **Covering:** Once the airframe is assembled, apply the covering material (film pack, not included) according to its instructions to protect the wood and provide aerodynamic finish.

BALSA WOOD MATERIAL

This remote control airplane is crafted from premium balsa wood, durable and not easy to damage.



Image 4.1: Detail of the balsa wood material and construction.

5. SETUP: SUGGESTED EQUIPMENT

To complete your T05 Vogee-08 RC Aeroplane and prepare it for flight, the following equipment is suggested:

- **Motor:** M1908-2050KV
- **ESC (Electronic Speed Controller):** 20A
- **Folding Propeller:** 7-inch
- **Servo:** 9g * 4pcs
- **RX (Receiver):** ≥4CH (4 Channel or more)

- **Battery:** 2S LiPo (800-1300mAh recommended)
- **Transmitter:** Compatible with your chosen receiver (e.g., 4-channel or more)
- **Charger:** Compatible with your LiPo battery
- **Film Pack:** For covering the airframe

5.1 Installation of Electronics

Follow the specific instructions provided with your chosen motor, ESC, servos, and receiver for proper installation and wiring. Ensure all connections are secure and correctly oriented. Pay close attention to motor rotation direction and servo arm setup for control surfaces.

6. OPERATING INSTRUCTIONS

Operating an RC aeroplane requires practice and adherence to safety guidelines. This section provides general guidance.

6.1 Pre-Flight Checks

- **Battery:** Ensure the flight battery is fully charged and securely installed.
- **Control Surfaces:** Verify that all control surfaces (ailerons, elevator, rudder) move freely and in the correct direction relative to your transmitter inputs.
- **Propeller:** Check that the propeller is securely attached and free from damage.
- **Center of Gravity (CG):** Confirm the aircraft's CG is within the recommended range (refer to the KIT's specific manual for details). Incorrect CG can lead to unstable flight.
- **Radio Range:** Perform a range check of your radio system before the first flight of the day.

6.2 Take-off

Choose an open, clear area for take-off. Apply throttle smoothly and gradually increase speed. Maintain a straight path using rudder control. Once sufficient speed is gained, gently apply up elevator to lift off.

6.3 Flight Control

- **Throttle:** Controls motor speed and altitude.
- **Elevator:** Controls pitch (nose up/down).
- **Ailerons:** Controls roll (wing tilt) for turning.
- **Rudder:** Controls yaw (nose left/right) for coordinated turns and ground steering.

6.4 Landing

Approach the landing strip into the wind. Reduce throttle and gradually decrease altitude. Maintain control with elevator and ailerons. Flare gently just above the ground by applying a small amount of up elevator to slow down and touch down smoothly.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your T05 Vogee-08.

- **Inspect Airframe:** After each flight, check the balsa wood airframe for any damage, cracks, or loose joints. Repair as needed.

- **Check Covering:** Ensure the film covering is intact and free from tears or wrinkles. Repair or re-apply heat if necessary.
- **Control Linkages:** Verify that all control linkages are secure and free from excessive play.
- **Motor and Propeller:** Inspect the motor for any debris and the propeller for nicks or cracks. Replace damaged propellers immediately.
- **Battery Care:** Follow manufacturer guidelines for LiPo battery charging, storage, and discharge.
- **Cleanliness:** Keep the aircraft clean from dirt, grass, and other debris.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **Aircraft not responding to controls:**
 - Check transmitter and receiver power.
 - Ensure receiver is bound to the transmitter.
 - Verify servo connections and functionality.
- **Motor not spinning:**
 - Check battery connection and charge level.
 - Verify ESC connection to motor and receiver.
 - Ensure ESC is armed (throttle stick at lowest position).
- **Unstable flight:**
 - Re-check Center of Gravity (CG).
 - Inspect control surfaces for damage or incorrect throws.
 - Ensure wings are securely attached and not warped.
- **Short flight time:**
 - Battery may not be fully charged or is aging.
 - Propeller size or pitch may be inefficient for the motor.
 - Excessive throttle usage.

9. SAFETY GUIDELINES

RC aircraft are not toys. Improper use can cause serious injury or property damage. Always prioritize safety.

- **Flying Area:** Fly in open areas away from people, buildings, power lines, and roads. Avoid flying over crowds.
- **Weather Conditions:** Do not fly in strong winds, rain, or other adverse weather conditions.
- **Pre-Flight Check:** Always perform a thorough pre-flight check before each flight.
- **Battery Safety:** Handle LiPo batteries with extreme care. Do not overcharge, over-discharge, or puncture them. Store in a fire-safe location.
- **Propeller Safety:** Keep hands and face clear of the propeller when the battery is connected. The propeller can cause severe injury.
- **Age Recommendation:** This product is recommended for users 16 years and up. Adult supervision is

advised for younger operators.

- **Line of Sight:** Always maintain visual line of sight with your aircraft.
- **Local Regulations:** Be aware of and comply with all local regulations and laws regarding RC aircraft operation.

10. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the documentation included with your product or contact GoolRC customer service directly. Keep your purchase receipt as proof of purchase.