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> MODSTER Discus Sport MD11391 Glider Instruction Manual

## MODSTER MD11391

# MODSTER Discus Sport MD11391 Glider

Instruction Manual

## 1. INTRODUCTION

The MODSTER Discus Sport MD11391 is an Almost Ready-to-Fly (ARTF) glider model designed for thermal flight enthusiasts. This manual provides essential information for safe assembly, setup, operation, and maintenance of your glider. Its lightweight construction and aerodynamic design ensure excellent gliding performance, making it suitable for pilots of various skill levels.



Figure 1: The MODSTER Discus Sport MD11391 glider.

## 2. SAFETY INFORMATION

Please read and understand all safety warnings before operating the MODSTER Discus Sport MD11391 glider. Failure to follow these instructions may result in injury or property damage.

- **Age Recommendation:** This product is recommended for users aged 14 to 99 years. It is not a toy and requires adult supervision for younger users.
- **Operating Environment:** Never operate the model on public roads, near traffic, or in crowded areas. Choose a spacious, open, and flat meadow or designated flying field away from people, animals, and obstacles.
- **Weather Conditions:** Do not fly in strong winds, rain, or other adverse weather conditions.
- **Pre-Flight Check:** Always perform a thorough pre-flight inspection to ensure all components are securely attached and functioning correctly.
- **Battery Safety:** Handle receiver batteries with care. Ensure correct polarity and avoid short circuits. Use only recommended battery types.

### 3. PACKAGE CONTENTS

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Your MODSTER Discus Sport MD11391 package includes the following components:

- MODSTER Discus Sport DLG Glider (pre-assembled)
- 3 Integrated Servos with Metal Gears (pre-installed and pre-tensioned)
- Instruction Manual

#### **Items Required for Operation (Not Included):**

- Remote Control (Transmitter)
- Small Receiver (single-cell compatible)
- Receiver Battery (approx. 500 mAh capacity recommended)

### 4. ASSEMBLY

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The MODSTER Discus Sport MD11391 is an Almost Ready-to-Fly (ARTF) model, meaning most of the assembly is completed at the factory. You will primarily need to install your receiver and receiver battery.

1. **Accessing the Fuselage:** Locate the quick-release canopy on the fuselage. Gently open it to access the internal RC components compartment.



Figure 2: Fuselage with quick-release canopy for component access.

2. **Receiver Installation:** Carefully connect your receiver to the pre-installed servos. Ensure correct channel assignments for elevator (H) and rudder (S) controls. Refer to your receiver's manual for specific connection details.
3. **Receiver Battery Installation:** Place your receiver battery (e.g., 500 mAh single-cell) into the designated compartment within the fuselage. Secure it to prevent movement during flight.
4. **Close Canopy:** Once the receiver and battery are installed and secured, close the quick-release canopy firmly.

No glue is required for the final assembly steps. The model should be ready for its first flight after approximately 30 minutes of setup.

## 5. SETUP AND PRE-FLIGHT CHECKS

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Before your first flight, perform the following setup and checks:

1. **Transmitter Binding:** Bind your remote control (transmitter) to the installed receiver according to your transmitter's instructions.
2. **Control Surface Check:** Turn on your transmitter and then the glider's receiver. Verify that the elevator and rudder servos respond correctly to your transmitter inputs. Ensure control surfaces move freely and in the correct direction.

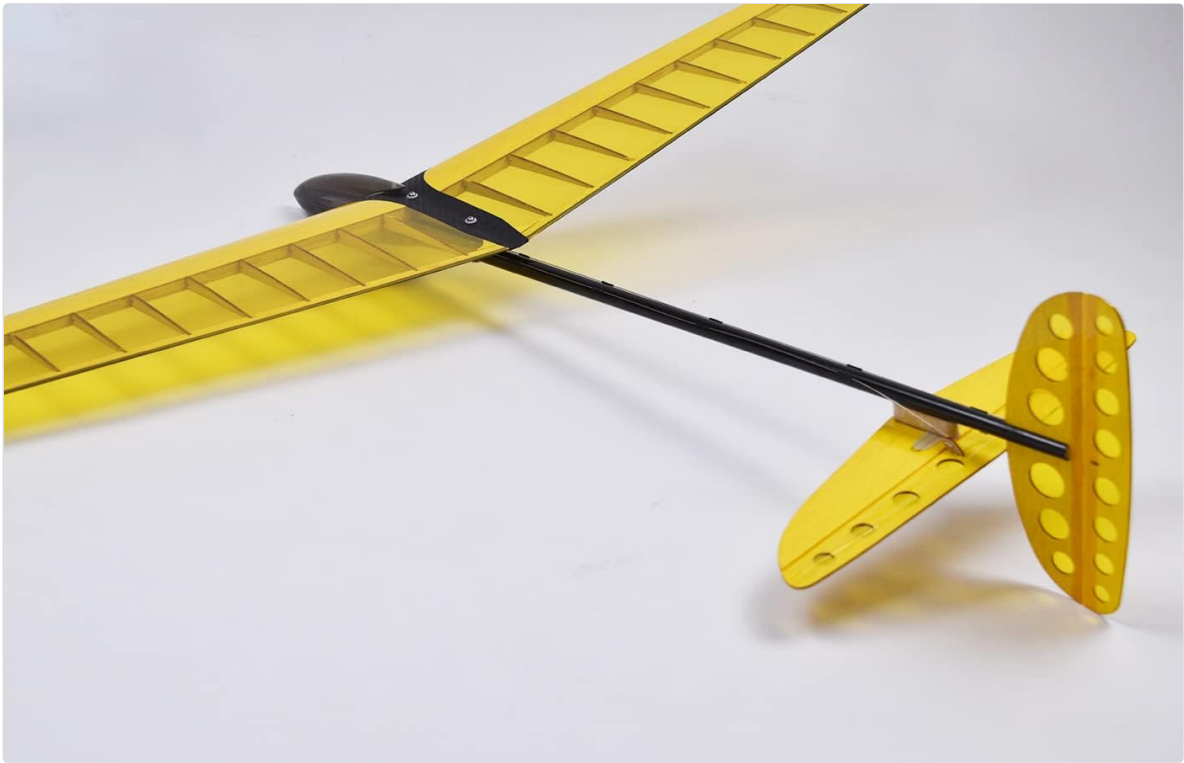


Figure 3: Tail section with rudder and elevator for control checks.

3. **Center of Gravity (CG):** For optimal flight performance, ensure the glider's center of gravity is within the recommended range. Typically, this is around 25-33% of the wing chord from the leading edge. Adjust battery placement if necessary to achieve the correct CG.
4. **Visual Inspection:** Check all connections, linkages, and structural integrity. Ensure wings and tail are securely attached.

## 6. OPERATING INSTRUCTIONS

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The MODSTER Discus Sport MD11391 is designed for discus launch gliding (DLG) and thermal soaring.

- **Launch Technique:** The glider is launched using the discus throw technique, relying on pure muscle power rather than a motor. Hold the wingtip, spin, and release the glider upwards with force to gain initial altitude.
- **Thermal Soaring:** Once airborne, use the glider's excellent aerodynamic properties to find and ride thermals (rising columns of warm air) for extended flight times.
- **Control:** Use the elevator for pitch control (climb/dive) and the rudder for yaw control (turning). Smooth and gentle inputs are key for efficient gliding.
- **Landing:** Plan your landing approach carefully. Reduce altitude gradually and aim for a soft landing in an open area.
- **Flying Area:** A small, flat, and open meadow is ideal for operating the Discus Sport, ensuring safety and ample space for flight.

## 7. MAINTENANCE

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Regular maintenance will ensure the longevity and performance of your glider.

- **Post-Flight Inspection:** After each flight, inspect the glider for any damage, loose connections, or wear and tear.
- **Cleaning:** Clean the glider's surfaces with a soft, damp cloth. Avoid harsh chemicals that could damage the material.

- **Control Linkages:** Periodically check all control linkages and servo arms for tightness and free movement. Adjust if necessary.
- **Storage:** Store the glider in a cool, dry place, away from direct sunlight and extreme temperatures, to prevent material degradation.

## 8. TROUBLESHOOTING

If you encounter issues with your MODSTER Discus Sport MD11391, refer to the following common problems and solutions:

- **Glider does not respond to controls:**
  - Check if the transmitter and receiver are powered on and properly bound.
  - Verify receiver battery charge level.
  - Inspect all servo connections to the receiver.
- **Poor flight performance/unstable flight:**
  - Re-check the Center of Gravity (CG) and adjust if necessary.
  - Ensure all control surfaces are neutral and move freely.
  - Check for any damage to wings or tail that might affect aerodynamics.
  - Consider wind conditions; avoid flying in turbulent air.
- **Servos not moving:**
  - Confirm power to the receiver and proper servo connections.
  - Check for any physical obstruction preventing servo movement.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	MD11391
Wingspan	950 mm
Length	750 mm
Weight	140 g
Fuselage Material	Plastic
Wing Material	Wood/Ribs
RC Functions	Rudder (S), Elevator (H)
Servos	3 x 4.3g with metal gears (pre-installed)
Kit Version	ARTF (Almost Ready-to-Fly)
Wing Area	11.15 dm <sup>2</sup>
Recommended Age	14 - 99 years

## 10. WARRANTY AND SUPPORT

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For warranty information, technical support, or spare parts availability, please contact your retailer or the MODSTER manufacturer directly. Keep your proof of purchase for any warranty claims.

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