

JKKSWIBAB-MODULE

Generic T50/T25 Auxiliary Bottom Light Module Instruction Manual

Model: JKKSWIBAB-MODULE

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Generic T50/T25 Auxiliary Bottom Light Module. This module is designed as a replacement part for DJI Agras T50 and T25 agricultural drones, providing crucial illumination for low-light field operations. Please read this manual thoroughly before attempting any installation or operation.

2. PRODUCT OVERVIEW

The Auxiliary Bottom Light Module is an integrated lighting assembly specifically designed for Agras T50 and T25 agricultural drones. It provides supplementary lighting to assist with operations in low-light conditions.

- **Purpose:** Provides illumination support for low-light field operations of Agras T50 / T25 agricultural drones.
- **Integration:** Features an integrated light source and mounting structure for direct connection to the drone's designated under-body interface.
- **Durability:** The housing is constructed from engineering-grade material, offering moderate impact resistance and environmental durability suitable for agricultural environments.
- **Maintenance:** Designed with a simple optical surface for easy cleaning, which helps minimize performance degradation from dirt or residue accumulation.
- **Application:** Ideal for replacing existing units that exhibit lighting failure, cracked housing, loose connections, or units that have been disassembled during servicing.



Figure 2.1: Front view of the Auxiliary Bottom Light Module, highlighting the two light lenses.



Figure 2.2: Rear view of the Auxiliary Bottom Light Module, showing the electrical connector and mounting points for drone integration.

3. SETUP AND INSTALLATION

This module is designed for direct replacement and integration into compatible DJI Agras T50/T25 drones. Professional installation is recommended if you are unfamiliar with drone component replacement.

3.1 Safety Precautions

- Ensure the drone is powered off and all batteries are disconnected before beginning installation.
- Work in a clean, well-lit environment to prevent loss of small components.

- Use appropriate tools to avoid damaging the module or the drone.

3.2 Installation Steps

1. **Locate the Existing Module:** Identify the auxiliary bottom light module on your DJI Agras T50 or T25 drone.
2. **Disconnect Wiring:** Carefully disconnect the electrical connector from the existing module.
3. **Remove Mounting Screws:** Unscrew any mounting screws securing the old module to the drone's frame.
4. **Remove Old Module:** Gently detach the old module from its position.
5. **Position New Module:** Align the new Generic T50/T25 Auxiliary Bottom Light Module with the designated mounting points on the drone.
6. **Secure New Module:** Fasten the new module using the appropriate mounting screws. Ensure it is securely attached but do not overtighten.
7. **Connect Wiring:** Reconnect the electrical connector to the new module. Ensure a firm and proper connection.
8. **Verify Installation:** Double-check all connections and mounting points before powering on the drone.



Figure 3.1: Top-down view of the module, illustrating its complete structure for installation reference.

4. OPERATING INSTRUCTIONS

The Auxiliary Bottom Light Module operates in conjunction with the drone's flight control system. Once installed, its functionality is typically controlled through the drone's remote controller or associated flight application.

1. **Power On Drone:** After successful installation, power on your DJI Agras T50 or T25 drone.
2. **Access Flight Application:** Launch the DJI flight application on your remote controller or connected device.
3. **Activate Lights:** Navigate through the drone's settings or flight interface to locate the option for activating the auxiliary bottom lights.
4. **Verify Functionality:** Confirm that the lights illuminate as expected.

Refer to your DJI Agras T50/T25 drone's official user manual for specific instructions on controlling auxiliary lighting features.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Auxiliary Bottom Light Module.

5.1 Cleaning

The module features a simple optical surface design for easy cleaning.

- **Frequency:** Clean the optical surfaces periodically, especially after operations in dusty or dirty environments.
- **Method:** Use a soft, lint-free cloth slightly dampened with water or a mild, non-abrasive cleaning solution. Gently wipe the lens surfaces to remove dirt, dust, or residue.
- **Avoid:** Do not use harsh chemicals, abrasive materials, or excessive force, as this can scratch or damage the lenses and housing.

5.2 Inspection

- **Visual Check:** Regularly inspect the module for any signs of physical damage, such as cracks in the housing, loose mounting screws, or frayed wiring.
- **Connection Check:** Ensure the electrical connector remains firmly seated and free from corrosion.
- **Functionality Test:** Periodically test the lights to ensure they are functioning correctly before flight operations.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the Auxiliary Bottom Light Module.

Problem	Possible Cause	Solution
Lights do not turn on	Loose electrical connection Module failure Drone software issue	Check and re-secure the electrical connector. Test with a known working module if available. Consult your drone's manual for software troubleshooting.

Problem	Possible Cause	Solution
Lights flicker or dim	Intermittent connection Power supply issue from drone Module nearing end of life	Inspect connector for damage or corrosion. Ensure drone power system is functioning correctly. Consider replacing the module if other solutions fail.
Physical damage to housing/lenses	Impact during operation or handling	If damage affects functionality or integrity, replace the module. Minor cosmetic damage may not require replacement.

7. SPECIFICATIONS

Brand	Generic
Model Number	JKKSWIBAB-MODULE
Compatible Drone Models	DJI Agras T50, DJI Agras T25
Color	Module (Black)
Item Weight	50 Grams (approx. 1.76 ounces)
Product Dimensions	0.39"L x 0.39"W x 0.39"H (approximate)
Material	Engineering-grade material

8. WARRANTY AND SUPPORT

Warranty information for this Generic product is not explicitly provided in the product details. For specific warranty terms and conditions, please refer to the retailer or the point of purchase.

For technical support or further inquiries regarding this Auxiliary Bottom Light Module, please contact the seller or manufacturer directly through the platform where the product was purchased.