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E-flite EFLG230

E-flite 15-25 Tricycle Electric Retracts EFLG230 Instruction Manual

INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your E-flite 15-25 Tricycle Electric Retracts (Model EFLG230). These self-contained electric retract systems are designed to add functional landing gear to 15- to 25-sized RC airplanes, eliminating the need for air tanks, complex linkages, or additional servos.

Key Features

- Robust landing gear strut and mounting bracket for durability.
- Integrated electric motor with a micro PCB for reliable operation.
- Built-in overcurrent protection to safeguard the system.
- Strut Diameter: 0.137 inches (3.5mm).
- Suitable for aircraft weighing 4.00 - 7.00 pounds (1.80 - 3.10 kg).



Image: E-flite 15-25 Tricycle Electric Retracts (Model EFLG230). This image displays the complete retract unit, highlighting its compact design and robust construction.

SETUP AND INSTALLATION

The E-flite 15-25 Tricycle Electric Retracts are designed for straightforward installation. Follow these steps to integrate them into your RC aircraft.

- Mounting:** Securely bolt the retract units into the designated landing gear bays of your aircraft. Ensure the mounting brackets are flush and tightened to prevent movement during operation. Refer to your aircraft's manual for specific mounting points.
- Wiring:** Connect the retract units to your receiver. A specially designed Y-harness is included to allow all retract units (main and nose gear) to be controlled by a single receiver channel. Plug the Y-harness into the appropriate gear channel on your receiver. Then, connect each retract unit's lead to the Y-harness.
- Testing:** Before flight, power on your receiver and transmitter. Activate the gear switch on your transmitter to ensure the retracts extend and retract smoothly and completely. Observe for any binding or obstruction.

4. **Adjustments:** If necessary, adjust the end points of the gear channel on your transmitter to ensure full extension and retraction without straining the retract mechanisms.



Image: A person operating an RC airplane near a body of water. This illustrates the typical environment where these retracts would be used, emphasizing the importance of proper setup for flight.

OPERATING INSTRUCTIONS

Once installed, operating your E-flite electric retracts is simple and integrated with your aircraft's control system.

- **Power On:** Ensure your aircraft's power system is fully charged and correctly connected. The retracts draw power directly from the receiver.
- **Gear Control:** Use the designated gear switch or lever on your transmitter to command the retracts. One position will extend the landing gear for takeoff and landing, and the other will retract them for flight.
- **Smooth Operation:** The integrated electric motor and micro PCB ensure smooth and consistent operation. Avoid rapid cycling of the gear switch, allowing the mechanism to complete its cycle fully.
- **Overcurrent Protection:** The built-in overcurrent protection will temporarily shut down the retract motor if it encounters excessive resistance or a jam, preventing damage. If this occurs, release the gear switch, inspect for obstructions, and then attempt to operate the gear again.



Image: An RC airplane in flight against a clear blue sky. This demonstrates the retracts in their retracted position, optimizing the aircraft's aerodynamics during flight.

MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your electric retracts.

- **Visual Inspection:** Before each flight, visually inspect the retract units, struts, and mounting points for any signs of damage, wear, or loose connections.
- **Cleanliness:** Keep the retract mechanisms free from dirt, dust, grass, and debris. Use a soft brush or compressed air to clean any accumulated foreign material. Avoid using harsh chemicals.
- **Lubrication:** Periodically apply a small amount of dry lubricant (e.g., silicone spray) to the moving parts of the retract mechanism to ensure smooth operation. Avoid excessive lubrication, which can attract dirt.
- **Wiring Check:** Ensure all wiring connections to the receiver and between the retracts and Y-harness are secure and free from damage.
- **Strut Condition:** Check the landing gear struts for bends or damage. A bent strut can impede retraction or extension.

TROUBLESHOOTING

If you encounter issues with your E-flite electric retracts, refer to the following troubleshooting guide.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Retracts do not extend or retract.	<ul style="list-style-type: none"> No power to receiver. Loose or disconnected wiring. Gear channel not properly configured on transmitter. Mechanical obstruction or binding. Overcurrent protection activated. 	<ul style="list-style-type: none"> Check battery and power connections. Verify all wiring connections are secure. Ensure gear channel endpoints are set correctly and the switch functions. Inspect for debris or damage preventing movement. Clear any obstructions. Cycle the gear switch to reset the overcurrent protection after clearing any obstruction.
Retracts operate slowly or with difficulty.	<ul style="list-style-type: none"> Low battery voltage. Friction or lack of lubrication. Minor mechanical binding. 	<ul style="list-style-type: none"> Ensure flight battery is fully charged. Clean and lightly lubricate moving parts. Inspect for slight bends in struts or minor obstructions.
Only one retract unit operates.	<ul style="list-style-type: none"> Faulty Y-harness connection. Damaged individual retract unit. 	<ul style="list-style-type: none"> Check the connection of the non-operating unit to the Y-harness. Try swapping connections on the Y-harness to isolate the issue. If the unit still does not operate, it may require replacement.

SPECIFICATIONS

Detailed specifications for the E-flite 15-25 Tricycle Electric Retracts (Model EFLG230).

Feature	Detail
Model Number	EFLG230
Product Type	Tricycle Electric Retracts
Compatibility	15- to 25-sized RC Airplanes
Aircraft Weight Range	4.00 - 7.00 lb (1.80 - 3.10 kg)
Strut Diameter	0.137 in (3.5 mm)
Motor Type	Integrated Electric Motor with Micro PCB
Protection	Built-in Overcurrent Protection
Product Dimensions	11.5 x 5 x 2.4 inches
Item Weight	10.2 ounces

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your purchase or visit the official E-flite website.

If you require technical assistance or have questions regarding your E-flite 15-25 Tricycle Electric Retracts, please contact E-flite customer support or visit their official store for resources and contact information.

E-flite Official Store: [Visit the E-flite Store on Amazon](#)

