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S608 Pro GPS Drone Brushless Motor Spare Parts User Manual

Model: ACL-9597B5713E7DF94B0496A2C3440BE82D

1. INTRODUCTION

This manual provides essential information for the installation, maintenance, and troubleshooting of the S608 Pro GPS Drone Brushless Motor Spare Parts. These motors are designed for the S608 Pro GPS Drone, ensuring optimal performance and longevity of your aerial photography quadcopter. Please read this manual thoroughly before attempting any installation or maintenance procedures.

2. PRODUCT OVERVIEW

The S608 Pro GPS Drone Brushless Motors are high-efficiency components crucial for the drone's flight stability and propulsion. This package includes four (4) brushless motors, designed as direct replacements for the original motors in the S608 Pro GPS Drone.

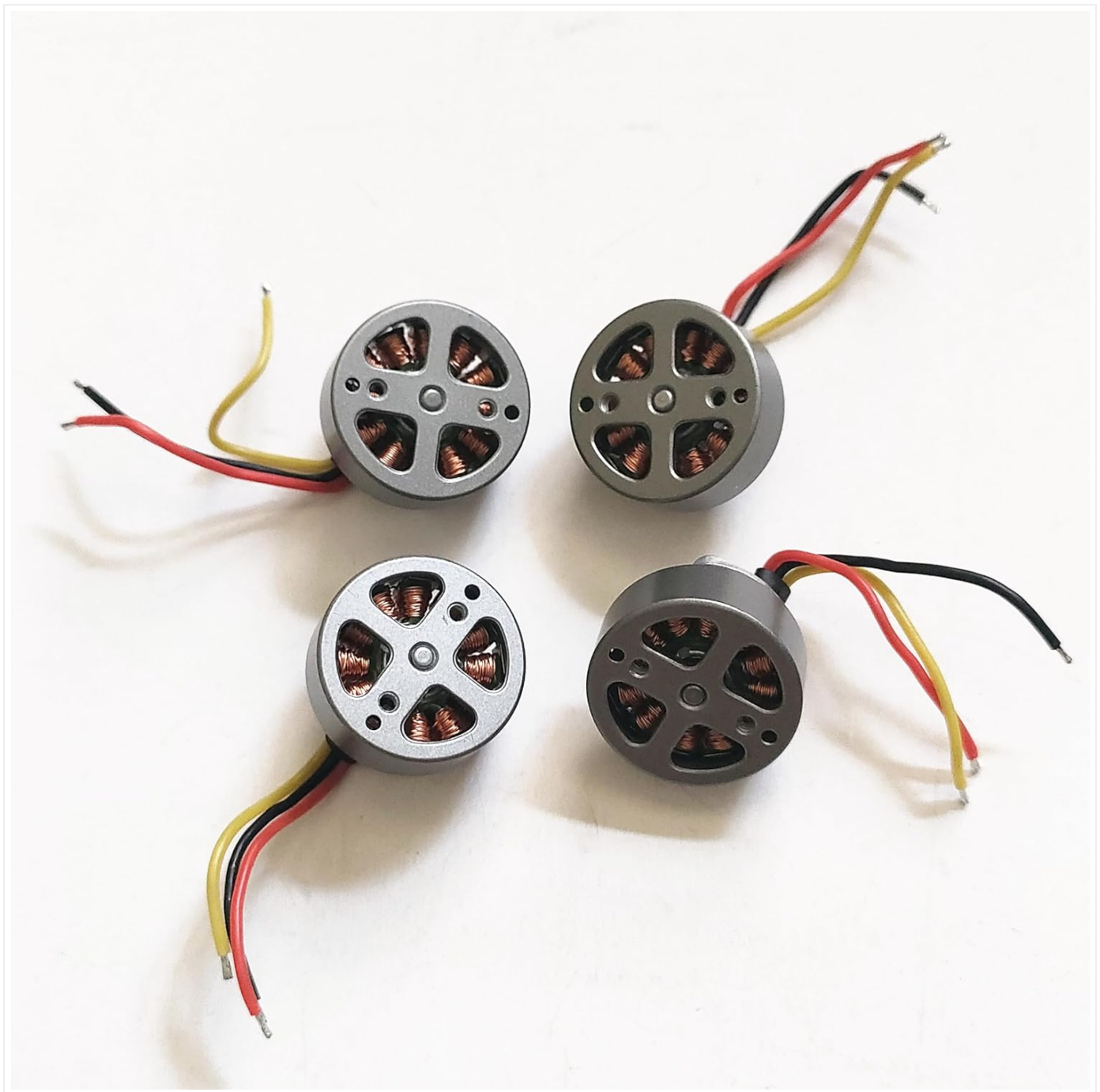


Figure 2.1: Overview of the four S608 Pro GPS Drone Brushless Motors included in the package. Each motor features a compact design with exposed copper windings and three colored wires for connection.

2.1 Key Features

- **Brushless Design:** Provides higher efficiency, longer lifespan, and reduced noise compared to brushed motors.
- **High Performance:** Engineered for stable and powerful propulsion for the S608 Pro GPS Drone.
- **Durable Construction:** Made from composite materials for resilience and reliability.
- **Easy Replacement:** Designed for straightforward installation as spare parts.

3. INSTALLATION GUIDE

Before beginning installation, ensure the drone's battery is disconnected. It is recommended to consult the original S608 Pro GPS Drone user manual for specific disassembly instructions.

3.1 Tools Required

- Small Phillips head screwdriver
- Pliers or tweezers (optional, for wire handling)
- Heat shrink tubing and heat gun (if soldering is required)

3.2 Motor Replacement Steps

1. **Disassembly:** Carefully remove the drone's propeller and any protective covers or landing gear that obstruct access to the motor. Unscrew the existing motor from its mounting bracket.
2. **Disconnect Wiring:** Identify the three wires connecting the old motor to the Electronic Speed Controller (ESC). Carefully disconnect or desolder these wires. Note the color coding or connection order if possible.



Figure 3.1: Bottom view of a single brushless motor, showing the three connection wires (red, yellow, black) and mounting holes.

3. **Install New Motor:** Position the new brushless motor in the mounting bracket. Ensure the motor's shaft is aligned correctly.



Figure 3.2: Top view of a single brushless motor, highlighting the stator windings and rotor bell.

4. **Connect Wiring:** Connect or solder the three wires of the new motor to the corresponding ESC connections. The order of these wires determines the motor's rotation direction. If the motor spins in the wrong direction after testing, swap any two of the three wires.
5. **Secure Motor:** Screw the new motor firmly into its mounting bracket.
6. **Reassembly:** Reattach any protective covers, landing gear, and propellers. Ensure all screws are tightened appropriately.
7. **Initial Test:** After reassembly, perform a low-power test flight or motor spin test to verify correct installation and motor function.

4. MAINTENANCE

Proper maintenance extends the lifespan of your brushless motors.

- **Keep Clean:** Regularly inspect motors for dirt, dust, or debris accumulation, especially around the bearings and stator. Use compressed air or a soft brush to clean.
- **Check for Damage:** Periodically check motor bells for dents or deformities, and wires for fraying or loose connections.
- **Bearing Inspection:** Listen for unusual noises during operation, which may indicate worn bearings. While these

motors are sealed, excessive noise might necessitate replacement.

- **Avoid Overheating:** Ensure proper airflow around the motors during operation to prevent overheating, which can damage windings.

5. TROUBLESHOOTING

This section addresses common issues related to brushless motor function.

Problem	Possible Cause	Solution
Motor not spinning or stuttering	Loose wire connection; Damaged ESC; Damaged motor winding; Propeller obstruction.	Check all wire connections. Inspect ESC for damage. Replace motor if windings are burnt or shorted. Remove any obstructions.
Motor spinning in wrong direction	Incorrect wire connection order to ESC.	Swap any two of the three motor wires connected to the ESC.
Motor making unusual noise or vibrating excessively	Damaged bearings; Bent motor shaft; Unbalanced propeller; Debris inside motor.	Inspect bearings for wear. Check motor shaft for straightness. Ensure propeller is balanced and undamaged. Clean motor thoroughly.
Motor overheating	Overloaded motor; Insufficient cooling; Short circuit in windings.	Ensure drone is not overloaded. Check for proper ventilation. Inspect motor for internal damage.

6. SPECIFICATIONS

Feature	Detail
Product Name	S608 Pro GPS Drone Brushless Motor Spare Parts
Model Number	ACL-9597B5713E7DF94B0496A2C3440BE82D
Material	Composite Material
Quantity	4 PCS (as per product variant)
Compatibility	S608 Pro GPS Drone
Recommended Age	12+y, 14+y (as per product description, for drone operation)


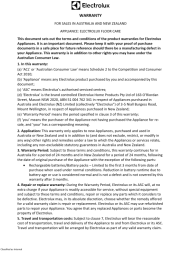
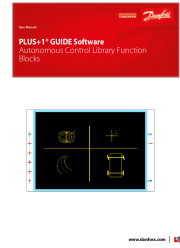


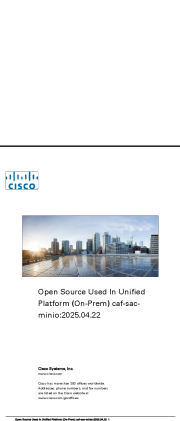
7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the original purchase documentation or contact the seller directly. Keep your proof of purchase for any warranty claims.

Manufacturer: Generic



Related Documents - ACL-9597B5713E7DF94B0496A2C3440BE82D

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