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Tekin TT3806

Tekin ESC Power Switch Instruction Manual

Model: TEKTT3806

1. INTRODUCTION

The Tekin ESC Power Switch (Model TEKTT3806) is a high-quality replacement on/off power switch designed for use with all Tekin Electronic Speed Controllers (ESCs). This manual provides important information regarding the safe installation, operation, and maintenance of your power switch to ensure optimal performance and longevity.

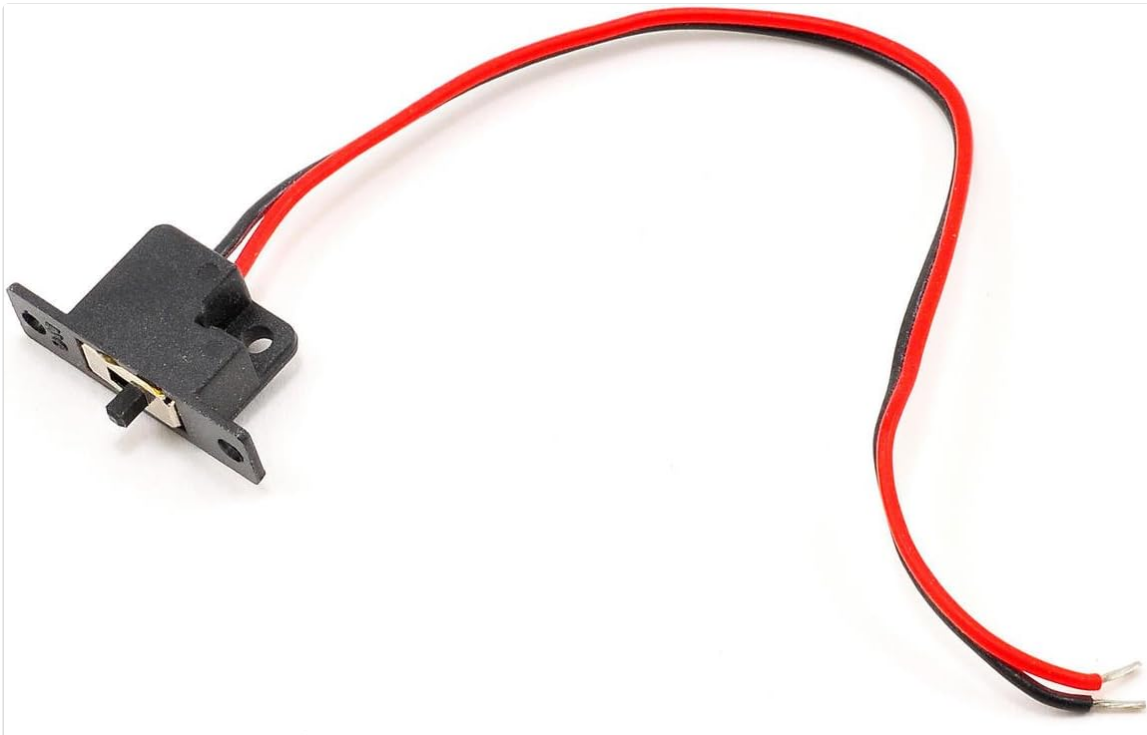


Figure 1: Tekin ESC Power Switch (TEKTT3806). This image shows the compact black plastic housing of the switch with a small toggle lever and attached red and black wires for connection to the ESC.

2. SAFETY INFORMATION

Please read and understand all safety warnings before installing or operating the Tekin ESC Power Switch. Failure to do so may result in damage to the product, other components, or personal injury.

- **Recommended Age:** This product is recommended for users aged 14 years and older. Adult supervision is advised for younger users.
- **Electrical Safety:** Always disconnect the battery from your ESC before performing any installation, maintenance, or troubleshooting. Improper handling of electrical components can cause short circuits, overheating, or fire.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
- **Moisture Protection:** The switch has an IP00 rating, meaning it offers no protection against water or dust ingress. Avoid exposing the switch to moisture, liquids, or excessive dust.
- **Proper Installation:** Ensure all connections are secure and insulated to prevent accidental short circuits.

3. SETUP AND INSTALLATION

The Tekin ESC Power Switch is designed as a direct replacement for the existing power switch on your Tekin ESC. Ensure you have the correct tools and a clean workspace before beginning installation.



Figure 2: Tekin ESC Power Switch in its original retail packaging. The packaging features the Tekin logo and product information, indicating a genuine replacement part.

Installation Steps:

1. **Disconnect Power:** Before starting, ensure your ESC is completely disconnected from the battery and any other power sources.
2. **Remove Old Switch:** Carefully desolder or disconnect the old power switch from your Tekin ESC. Note the polarity (red wire typically positive, black wire negative) if not clearly marked.
3. **Prepare New Switch:** The TEKTT3806 switch comes with pre-attached red and black wires. If necessary, strip a small amount of insulation from the wire ends to expose the copper conductors.
4. **Connect New Switch:** Solder or securely connect the red wire of the new switch to the positive (+) switch terminal on your ESC, and the black wire to the negative (-) switch terminal. Ensure

connections are clean, strong, and properly insulated with heat shrink tubing or electrical tape.

5. **Mount Switch:** The switch housing features mounting tabs. Secure the switch in a suitable location within your vehicle chassis using small screws or adhesive, ensuring it is easily accessible for operation and protected from damage.
6. **Verify Connections:** Double-check all connections for proper polarity and secure attachment before reconnecting the battery.

4. OPERATING INSTRUCTIONS

The Tekin ESC Power Switch operates as a simple ON/OFF toggle switch.

- **Powering On:** Once the switch is properly installed and the ESC is connected to a battery, move the toggle lever to the 'ON' position. Your ESC should power up, indicated by LED lights or an audible tone, depending on your ESC model.
- **Powering Off:** To turn off your ESC, move the toggle lever to the 'OFF' position. The ESC should power down.
- **Always Disconnect Battery:** For long-term storage or when performing maintenance, always disconnect the battery from the ESC, even if the power switch is in the 'OFF' position.

5. MAINTENANCE

The Tekin ESC Power Switch is designed for durability, but proper care will extend its lifespan.

- **Keep Clean:** Periodically inspect the switch for dirt, dust, or debris. Use a soft, dry brush or compressed air to gently clean the switch and its surroundings.
- **Avoid Moisture:** As the switch is not waterproof (IP00 rated), keep it away from water, humidity, and other liquids.
- **Check Connections:** Regularly inspect the wiring and connections to the ESC for any signs of wear, fraying, or corrosion. Re-solder or secure any loose connections.
- **Physical Damage:** Avoid subjecting the switch to excessive force or impact, which can damage the toggle mechanism or internal components.

6. TROUBLESHOOTING

If you experience issues with your Tekin ESC Power Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
ESC does not power on when switch is 'ON'.	Loose or incorrect wiring connection.	Check all connections between the switch and ESC for proper polarity and secure attachment. Re-solder if necessary.
	Faulty switch.	If connections are good, the switch itself may be faulty. Consider replacing the switch.
	ESC or battery issue.	Ensure your ESC and battery are functioning correctly by testing them with a known good switch or by bypassing the switch temporarily (with caution).
Switch feels loose or toggle is unresponsive.	Internal mechanical damage.	The switch may be damaged. Replacement is recommended.

7. SPECIFICATIONS

Feature	Specification
Brand	Tekin
Model Number	TT3806
Operation Mode	ON-OFF
Contact Type	Normally Open
Actuator Type	Toggle
Number of Positions	2
Color	Black
Product Dimensions (L x W x H)	3 x 4 x 0.2 inches
Item Weight	0.16 ounces
International Protection Rating	IP00 (No protection against water/dust)
Mounting Type	Surface Mount (via tabs)
Compatibility	All Tekin ESCs

8. WARRANTY AND SUPPORT

Tekin products are manufactured to high standards. For specific warranty information regarding your ESC Power Switch, please refer to the warranty policy provided with your original Tekin Electronic Speed Controller or visit the official Tekin website.

If you require technical assistance or have questions not covered in this manual, please contact Tekin customer support through their official website or authorized distributors. Provide your product model number (TEKTT3806) and a detailed description of your issue for efficient support.

Official Tekin Website: www.teamtekin.com (Please check for the most current contact information and support resources.)