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Drfeify Drfeify8a9kt5s24o

Drfeify 370 RC Brushed Motor ESC Combo Instruction Manual

Model: Drfeify8a9kt5s24o

INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Drfeify 370 RC Brushed Motor and 30A Electronic Speed Controller (ESC) Combo. This combo is designed for 1/16 and 1/18 scale RC cars, offering reliable performance and control. Please read this manual thoroughly before use to ensure safe and optimal performance of your RC vehicle.

PRODUCT OVERVIEW

The Drfeify 370 RC Brushed Motor ESC Combo is engineered for durability and performance in compact RC applications. Key features include:

- **Easy Installation:** The ESC is designed for straightforward connection, drawing power directly from the receiver.
- **Versatile ESC Functions:** The 30A brushed ESC provides forward, reverse, and braking capabilities, making it suitable for various driving conditions.
- **Compact and Lightweight Design:** This motor and ESC combo is engineered to minimize added weight to your RC car, preserving its agility.
- **Stable Construction:** The brushed motor features a stainless steel outer shell for effective heat dissipation, contributing to reduced operational noise and maximized power conversion efficiency.
- **Premium Materials:** The 31T motor incorporates high-purity copper windings and precise engineering for enhanced durability and consistent long-term performance.



Image 1: The Drfeify 370 RC Brushed Motor and 30A ESC Combo, showing the motor, ESC, and various connectors.

SPECIFICATIONS

Motor Parameters:

- **Motor Size:** Approximately 24x30.5mm (0.9x1.2in)
- **T Number:** 31T
- **Speed:** 30000 RPM
- **Material:** Stainless Steel, Electronic Components

Motor Size: Approx. 24x30.5mm / 0.9x1.2in



Image 2: Close-up view of the 370 RC Brushed Motor, highlighting its compact size and construction.

ESC Parameters:

- **Continuous Current:** 30A
- **Applicable RC Scale:** 1/16 and 1/18 RC Cars

General Specifications:

- **Item Weight:** 2.33 ounces
- **Package Dimensions:** 6.3 x 4.72 x 1.57 inches
- **Model Number:** Drfeify8a9kt5s24o

SETUP INSTRUCTIONS

Follow these steps to properly install the motor and ESC combo into your RC vehicle:

1. **Mount the Motor:** Securely mount the 370 brushed motor into your RC car's motor mount. Ensure proper gear mesh between the motor pinion and the spur gear.
2. **Mount the ESC:** Find a suitable location within your RC chassis to mount the 30A ESC. Use double-sided tape or a similar method to secure it, ensuring it is away from moving parts and has adequate airflow for cooling.
3. **Connect Motor to ESC:** Connect the two motor wires to the corresponding output wires on the ESC. Polarity typically does not matter for brushed motors, but if the motor runs in reverse, simply swap the two wires.
4. **Connect ESC to Receiver:** Plug the ESC's signal cable (usually a three-wire servo connector) into the throttle channel (typically Channel 2) of your RC receiver. The ESC draws power for its internal circuitry from the receiver.
5. **Connect Battery:** Connect your RC battery pack to the power input wires of the ESC (JST plug).

Ensure correct polarity to prevent damage.

6. **Initial Calibration (if applicable):** Some ESCs require a throttle calibration procedure with your radio transmitter. Refer to your radio system's manual for specific instructions. Generally, this involves turning on the transmitter, then the RC car, and following a sequence of throttle inputs.



Image 3: A detailed view of the ESC and motor, showing the JST power connector, motor wires, and receiver signal cable.

OPERATING INSTRUCTIONS

Once the motor and ESC are correctly installed and calibrated, you can begin operating your RC vehicle:

1. **Power On:** Turn on your radio transmitter first, then connect the battery to the ESC. The ESC will typically emit a series of beeps to indicate it has powered on and is ready.
2. **Throttle Control:** Use the throttle stick on your transmitter to control the motor. Pushing the stick forward will engage forward motion, pulling it back will engage reverse, and a quick return to neutral followed by pulling back again will engage braking.
3. **Braking Function:** The ESC features a braking function. When moving forward, returning the throttle to neutral and then immediately applying reverse throttle will activate the brake. Holding the reverse throttle will then engage reverse motion.
4. **Monitoring:** During operation, periodically check the motor and ESC temperature. Excessive heat can indicate issues such as incorrect gearing, binding drivetrain, or prolonged heavy use.
5. **Power Off:** Always disconnect the battery from the ESC first, then turn off your radio transmitter.

Brushed motor Brushed ESC

With forward, reverse
and brake functions



Image 4: The Dreify combo illustrating its versatile functions, including forward, reverse, and brake, suitable for various RC applications.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Dreify motor and ESC combo:

- **Cleaning:** After each use, especially in dusty or dirty conditions, gently clean the motor and ESC to remove any debris. Use a soft brush or compressed air. Avoid using liquids directly on electronic components.
- **Inspection:** Periodically inspect all wires and connectors for signs of wear, fraying, or damage. Ensure all connections are secure. Check the motor's brushes (if accessible) for wear and replace if necessary.
- **Heat Management:** Ensure the motor and ESC have adequate ventilation. Overheating can significantly reduce component lifespan. If components consistently run hot, consider adjusting gearing or driving style. The stainless steel outer shell of the motor aids in heat dissipation.
- **Storage:** When not in use, store the motor and ESC in a clean, dry environment, away from extreme temperatures and direct sunlight.

TROUBLESHOOTING

If you encounter issues with your Drfeify motor and ESC combo, refer to the following common problems and solutions:

- **Motor Not Responding:**

- Check battery connection and charge level.
- Ensure ESC is properly connected to the receiver's throttle channel.
- Verify transmitter is on and bound to the receiver.
- Check for loose or damaged motor wires.

- **Motor Runs in Reverse:**

- Swap the two motor wires connected to the ESC.
- Adjust the reverse setting on your transmitter (if available).

- **Intermittent Power/Stuttering:**

- Check for loose connections or damaged wiring.
- Ensure battery is fully charged and capable of delivering sufficient current.
- Inspect motor brushes for wear or debris.

- **Excessive Heat from Motor/ESC:**

- Check gear mesh; it should be smooth with a slight play.
- Ensure the drivetrain (wheels, axles, bearings) moves freely without binding.
- Consider using a smaller pinion gear or larger spur gear to reduce load.
- Ensure adequate ventilation around the motor and ESC.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Drfeify 370 RC Brushed Motor ESC Combo, please refer to the retailer where the product was purchased or visit the official Drfeify website. Keep your proof of purchase for any warranty claims.

For additional assistance, you may contact Drfeify customer service through their official channels.