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HAIBOXING M1828

HAIBOXING 1/18th Scale RC Car Brushed Motor with Pinion (M1828) Instruction Manual

Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your HAIBOXING M1828 Brushed Motor with Pinion. This motor is designed as a replacement part for HAIBOXING 1/18th scale RC car models 18858, 18859, and 18868. Please read these instructions carefully to ensure proper use and longevity of the product.

Product Overview

The HAIBOXING M1828 is a brushed motor specifically designed for 1/18th scale remote control vehicles. It comes pre-assembled with a pinion gear, ready for installation. This component is crucial for the propulsion system of your RC truck.

Image: The HAIBOXING M1828 brushed motor with an attached pinion gear and electrical connector. This is the primary component for RC vehicle propulsion.

Safety Information

No specific safety information is provided by the manufacturer for this component. However, when working with RC electronics and mechanical parts, always observe general safety precautions:

- Ensure the RC vehicle's power source is disconnected before performing any installation or maintenance.
- Handle electrical components with care to avoid short circuits.
- Keep small parts away from children.
- Wear appropriate eye protection if necessary during installation.

Setup and Installation

This section outlines the general procedure for replacing the brushed motor in compatible HAIBOXING 1/18th scale RC vehicles (models 18858, 18859, 18868).

Tools Required:

- Small Phillips head screwdriver
- Small flathead screwdriver (optional, for prying)
- Needle-nose pliers (optional)

Installation Steps:

1. **Disconnect Power:** Ensure the RC vehicle's battery is disconnected to prevent accidental operation or electrical shorts.
2. **Access Motor Compartment:** Carefully remove the body shell of your RC vehicle. Depending on the model, you may need to remove screws or clips to access the motor and gearbox area.
3. **Disconnect Old Motor:** Locate the existing motor. Disconnect its electrical connector from the Electronic Speed Controller (ESC). Note the orientation of the wires (red to positive, black to negative) if not color-coded on the connector.
4. **Remove Old Motor:** Unscrew any mounting screws holding the motor in place. Carefully slide the motor out, ensuring the pinion gear disengages from the main gear.
5. **Inspect Pinion (if separate):** The M1828 motor comes with a pre-installed pinion. If your old motor's pinion needs to be transferred or adjusted, ensure it is securely fastened and correctly aligned with the main gear.
6. **Install New Motor:** Insert the new HAIBOXING M1828 motor into the motor mount. Ensure the pinion gear meshes correctly with the main gear. There should be a small amount of play (backlash) between the gears to prevent binding.
7. **Secure Motor:** Fasten the motor with the mounting screws. Do not overtighten.
8. **Connect Electrical Wires:** Connect the motor's electrical connector to the ESC. Ensure the polarity is correct (red to red, black to black).
9. **Test Functionality:** Before reattaching the body shell, connect the battery and perform a brief test to ensure the motor spins freely and the wheels turn correctly.
10. **Reassemble:** Reattach the body shell and any other components removed during the process.

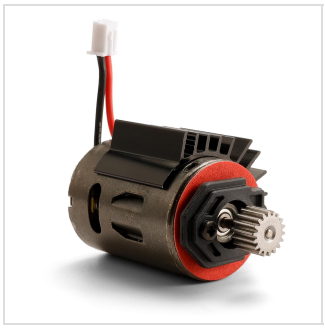

Image: Angled view of the M1828 motor, showing the pinion and connector. Useful for identifying the component.

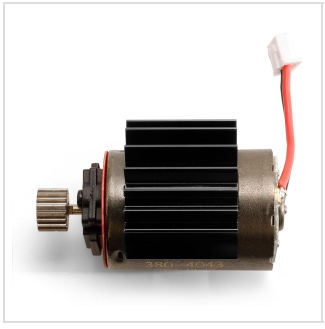

Image: Side view of the M1828 motor, highlighting the cooling fins and wiring. Important for proper orientation during installation.

Image: Top-down view of the M1828 motor, showing the overall shape and connector placement. Aids in visual confirmation.

Operating Considerations

Once installed, the motor operates as part of your RC vehicle's drivetrain. To ensure optimal performance and longevity:

- **Proper Power Supply:** Ensure your battery and Electronic Speed Controller (ESC) are compatible with the motor's requirements. Using an incompatible power source can damage the motor or ESC.
- **Avoid Overheating:** Continuous high-stress operation, especially in hot environments or with incorrect gearing, can lead to motor overheating. Monitor motor temperature during use.
- **Clear Obstructions:** Avoid operating the vehicle in conditions where debris (sand, dirt, small rocks) can easily enter the motor or gear mesh, as this can cause damage.

Maintenance

Regular maintenance helps extend the life of your brushed motor:

- **Cleaning:** Periodically remove the motor from the vehicle and gently clean any accumulated dust, dirt, or debris from the motor casing and cooling fins using a soft brush or compressed air.
- **Pinion Inspection:** Check the pinion gear for wear, bent teeth, or damage. Replace if necessary. Ensure it is securely attached to the motor shaft.
- **Brush Inspection (Advanced):** For advanced users, if the motor is serviceable, inspect the carbon brushes for wear. Worn brushes can reduce performance and eventually cause motor failure.
- **Lubrication:** The motor itself typically does not require lubrication. However, ensure the gears it meshes with are properly lubricated according to your RC vehicle's manual.

Troubleshooting

If you encounter issues with your motor, consider the following:

Problem	Possible Cause	Solution
Motor not spinning	• Disconnected wires • Faulty ESC • Dead battery • Motor seized	• Check all electrical connections • Test ESC with another motor (if available) • Charge or replace battery • Inspect motor for obstructions or damage

Problem	Possible Cause	Solution
Motor overheating	• Incorrect gearing • Excessive load • Poor ventilation	• Adjust gear ratio (smaller pinion) • Reduce load on vehicle • Ensure adequate airflow around motor
Unusual noise from motor	• Debris in motor/gears • Worn bearings • Incorrect gear mesh	• Clean motor and gears • Inspect for bearing damage (replace motor if necessary) • Adjust gear mesh for proper backlash
Reduced power/speed	• Low battery voltage • Worn motor brushes • Motor damage	• Charge battery fully • Replace motor if brushes are worn or motor is damaged

Specifications

- **Model Number:** M1828
- **Compatibility:** HAIBOXING 1/18th Scale RC Car Models 18858, 18859, 18868
- **Type:** Brushed Motor with Pinion
- **Material:** Metal
- **Product Dimensions:** Approximately 2 x 2 x 3 inches
- **Item Weight:** 2.4 ounces
- **Recommended Age:** 14 years and up (for RC vehicle operation)

Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your original HAIBOXING RC vehicle or contact HAIBOXING customer service directly. You can also visit the official HAIBOXING store for more information: HAIBOXING Store.

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Related Documents - M1828

	[Shantou Haiboxing Remote Control Car Test Report - RF Exposure Compliance] This report details the RF exposure compliance testing for the Shantou Haiboxing remote control car, model LS-T3A-TBX and its variants, conducted according to FCC regulations.
	[Four Wheel Drive Electric Power Race Truck Instruction Manual] Instruction manual for the Four Wheel Drive Electric Power Race Truck, model 903. Includes setup, operation, maintenance, and troubleshooting.
	[Request for Confidentiality - Shantou Haiboxing Technology & Education Model Co., Ltd.] Request for confidentiality for FCC ID 2A2XW-LS113, submitted by Shantou Haiboxing Technology & Education Model Co., Ltd. This document outlines the reasons for withholding specific attachments from public disclosure, citing proprietary information and competitive advantage.