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HAIBOXING E785

HAIBOXING E785 Brushless ESC/Receiver with Cooling Fan Instruction Manual

Model: E785

PRODUCT OVERVIEW

This document provides instructions for the HAIBOXING E785 Brushless Electronic Speed Controller (ESC) and Receiver unit with an integrated cooling fan. This component is designed as a spare part for HAIBOXING 1/12th and 1/16th scale RC cars and trucks, specifically compatible with models 903A and 16890A.

The E785 unit combines the functions of an ESC, which controls the speed and direction of the brushless motor, and a receiver, which processes signals from your remote control. The integrated cooling fan helps maintain optimal operating temperatures for enhanced performance and longevity.



Image: The HAIBOXING E785 Brushless ESC/Receiver unit with its integrated cooling fan and wiring.

WHAT'S IN THE BOX

Upon opening the package, verify that all components are present and undamaged.

- 1 x HAIBOXING E785 Brushless ESC/Receiver with Cooling Fan

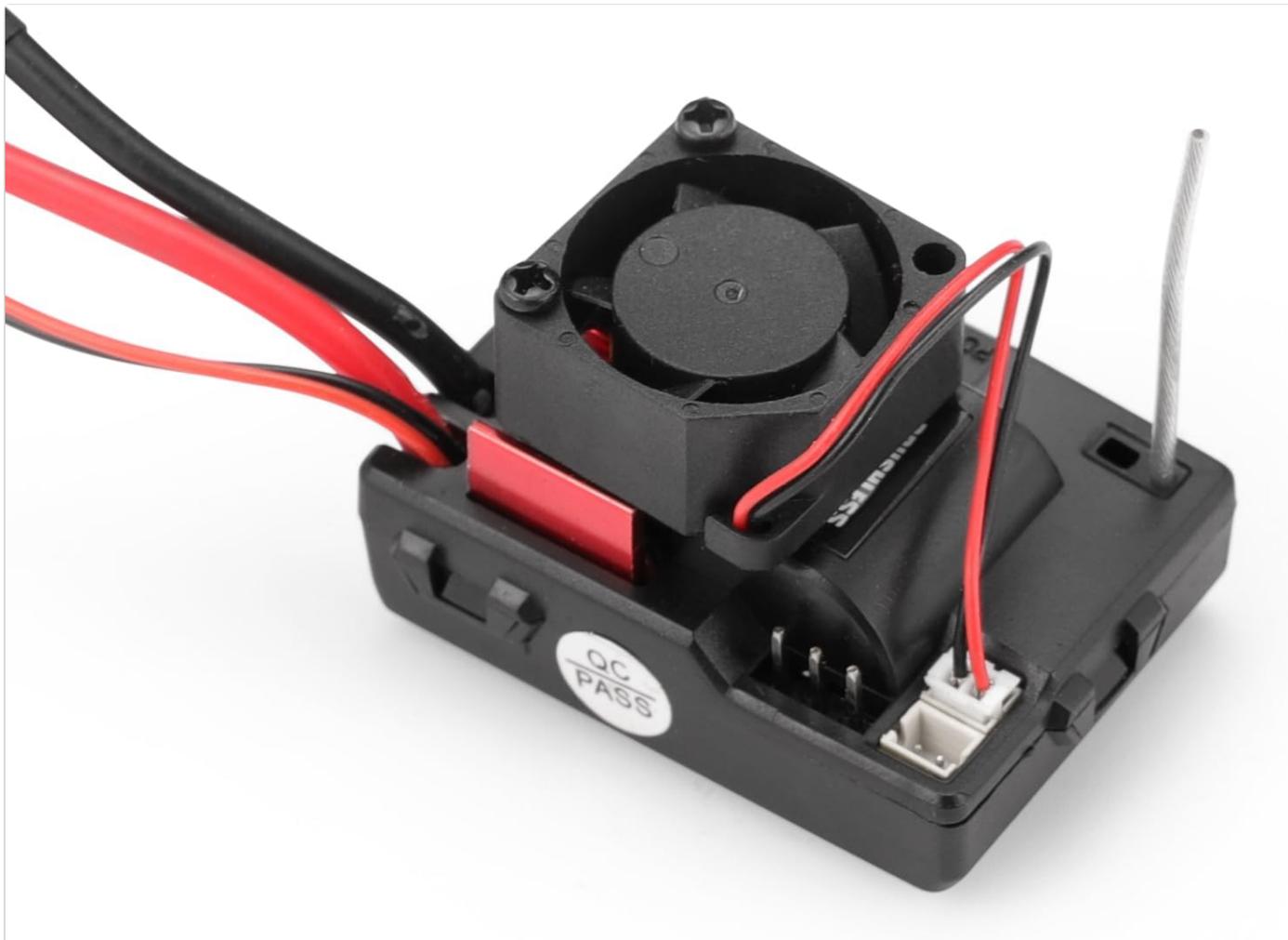


Image: Top view of the HAIBOXING E785 unit, showing the cooling fan and various connectors.

SETUP AND INSTALLATION

1. **Preparation:** Ensure your RC vehicle's battery is disconnected before beginning installation. Gather necessary tools, such as a small Phillips head screwdriver.
2. **Remove Old Unit:** Carefully disconnect all wires from the existing ESC/receiver unit. This typically includes motor wires, battery connector, steering servo wire, and any auxiliary wires. Unscrew and remove the old unit from the chassis.
3. **Install New Unit:** Place the new E785 unit into the designated mounting area on your RC vehicle's chassis. Secure it using the appropriate screws.
4. **Connect Motor:** Connect the three motor wires from your brushless motor to the corresponding terminals on the E785 ESC. Ensure a secure connection. The order of these wires may affect motor rotation direction; this can be adjusted later if needed.
5. **Connect Steering Servo:** Plug the steering servo wire into the designated channel on the receiver section of the E785. This is usually Channel 1 (CH1).
6. **Connect Battery:** Connect the battery connector from your RC vehicle's battery to the battery input on the E785.

Ensure correct polarity.

7. **Binding (if necessary):** If the new ESC/receiver unit does not automatically bind with your remote control, refer to your remote control's manual for the binding procedure. Typically, this involves holding a bind button on the receiver while powering it on, then activating the bind function on the transmitter.



Image: The HAIBOXING E785 unit with its various connection points for motor, battery, and servo.

OPERATING INSTRUCTIONS

1. **Power On:** Ensure the remote control is powered on first. Then, connect the battery to the E785 unit. The unit will power on, and the cooling fan should activate.
2. **Function Check:**

- Test steering: Turn the steering wheel on your remote control to ensure the front wheels respond correctly.
 - Test throttle: Gently pull the throttle trigger to check for forward and reverse movement. If the motor spins in the wrong direction, reverse two of the three motor wires connected to the ESC.
3. **Safe Operation:** Always operate your RC vehicle in a safe, open area, away from people, pets, and obstacles. Avoid prolonged full-throttle operation to prevent overheating, even with the cooling fan.
 4. **Power Off:** Always disconnect the battery from the E785 unit first, then power off your remote control.

MAINTENANCE

- **Cleaning:** Regularly inspect the ESC/receiver unit for dirt, dust, or debris. Use a soft brush or compressed air to gently clean the cooling fan and heatsink to ensure proper airflow.
- **Wiring Inspection:** Periodically check all wiring connections for looseness or damage. Secure any loose connections and replace damaged wires immediately.
- **Storage:** When not in use, store the RC vehicle and its components in a dry, cool place, away from direct sunlight and extreme temperatures. Disconnect the battery during storage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to unit	Battery disconnected or discharged; faulty wiring.	Ensure battery is fully charged and securely connected. Check all power wires for damage.
Motor not responding	Not bound to transmitter; motor wires loose; faulty motor.	Perform binding procedure. Check motor wire connections. Test with a different motor if available.
Steering not responding	Servo wire loose; faulty servo; not bound to transmitter.	Check steering servo connection to receiver (CH1). Test with a different servo. Perform binding procedure.
Motor runs in reverse	Incorrect motor wire connection.	Swap any two of the three motor wires connected to the ESC.
Unit overheating	Blocked cooling fan; excessive load; prolonged use.	Clean cooling fan. Reduce load or allow unit to cool down between runs.

SPECIFICATIONS

- **Model Number:** E785
- **Item Name:** ESC/Receiver with Cooling Fan
- **Compatibility:** HAIBOXING 903A & 16890A RC Vehicles
- **Product Dimensions:** 2.75 x 1.18 x 1.65 inches
- **Item Weight:** 12.6 ounces
- **Recommended Age:** 14 years and up
- **Manufacturer:** Shantou Haiboxing Technology&Education Model Co., Ltd.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your HAIBOXING E785 Brushless ESC/Receiver unit, please contact the retailer where the product was purchased or visit the official HAIBOXING website. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional resources and product information, you may visit the [HAIBOXING Store on Amazon](#).

