**Instruction & Setup Manual**

### 1 Transmitter Function

- **Binding button**
  - **Battery Part**
  - **LED Indicator**
  - **Ch3 Port**
  - **Ch2 Port**
  - **Ch1 Port**

### 2 Operating Procedure

#### 01 Install 4pcs AA batteries to the H.A.R.D transmitter.

#### 02 Turn the steering wheel right to turn the front tires go right; turn the steering wheel left to turn the front tires go left.

#### 03 Press the throttle trigger to moving forward the vehicle; push forward the throttle trigger to brake and reverse the vehicle.

### 3 Binding (connecting the receiver to transmitter)

#### Binding the Receiver to the Transmitter

“Binding” is tuning receiver to the frequencies used by the transmitter. Bind the receiver to the transmitter as follows:

1. With both transmitter and receiver turned off, place the units no more than 30 cm (1ft) apart.
2. While holding down the receiver’s BIND button, apply power to the receiver. Its LED will start to flash steadily, indicating that the unit is in binding mode, a state that lasts up to 30 seconds.
3. Turn the transmitter on. It will immediately go into binding mode, a state that lasts one second.
4. When the receiver’s LED shines steadily, binding complete.

**LED Status**
- 1 short Beep: The battery is NiMH/NiCd
- 2 short Beeps: The battery is 2S Lipo
- 3 short Beeps: The battery is 3S Lipo
- 3 short Beeps: The battery is 3S Lipo
- 4 short Beeps: This ESC is not binded.

#### 3.7 Binding the Receiver to the Transmitter

1. **Receiver Key**
2. **Transmitter Key**
3. **Throttle Channel**
4. **Front/Rear Switch**
5. **Double-Click Method**

#### 3.6 Throttle Range Setting (Throttle Range Calibration)

- **Front/Rear Switch**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**

#### 3.5 Throttle Signal Loss (Throttle Signal Calibration)

- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**

#### 3.4 Motor Run-in (Motor Run-in Calibration)

- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**

#### 3.3 Output Cuts Off (Output Cuts Off Calibration)

- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**

#### 3.2 Motor Stalls (Motor Stalls Calibration)

- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**

#### 3.1 Motor Overheat (Motor Overheat Calibration)

- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**
- **Motor + and Motor – wires**

### Troubleshooting

- **Troubleshooting**
- **Troubleshooting**
- **Troubleshooting**
- **Troubleshooting**

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**Specifications**

**Input**

- **280, 370 or 380 size motor**
- **280, 370 or 380 size motor**
- **280, 370 or 380 size motor**
- **280, 370 or 380 size motor**

**Output**

- **2A/6V (Linear mode BEC) 3A/6V (Switch mode BEC)**
- **2A/6V (Linear mode BEC) 3A/6V (Switch mode BEC)**
- **2A/6V (Linear mode BEC) 3A/6V (Switch mode BEC)**
- **2A/6V (Linear mode BEC) 3A/6V (Switch mode BEC)**

**Dimension**

- **WP-1040-BRUSHED-CRAWL: 46.5*34*28.5, 70g**
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- **WP-1040-BRUSHED-CRAWL: 46.5*34*28.5, 70g**
- **WP-1040-BRUSHED-CRAWL: 46.5*34*28.5, 70g**

**Resistance**

- **0.002 Ohm, 0.004 Ohm**
- **0.0008 Ohm, 0.0016 Ohm**
- **0.0008 Ohm, 0.0016 Ohm**
- **0.0008 Ohm, 0.0016 Ohm**

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**Limit**

- **1:10 Crawler, Tank & Boat**
- **1:10 Crawler, Tank & Boat**
- **1:10 Crawler, Tank & Boat**
- **1:10 Crawler, Tank & Boat**

**Output cuts off at 12V, cannot be recovered when the voltage drops to 4.5V.**

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**APPLICATION**

- **1/10 4X4 MONSTER Truck**
- **1/10 4X4 MONSTER Truck**
- **1/10 4X4 MONSTER Truck**
- **1/10 4X4 MONSTER Truck**

**Output cuts off at 13V.**

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**Set TRIM to 0 or turn the knob to its neutral position.**

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**THROTTLE STICK POSITION**

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**PROTECTION FUNCTIONS**

- **Fail Safe Function**
- **Fail Safe Function**
- **Fail Safe Function**
- **Fail Safe Function**

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**Thank you for purchasing our electronic speed controller (ESC). The power system for RC model can be very dangerous, please read the manual carefully. In that we have no control over the correct and installation of the unit. The user must be aware of all safety features and instructions before using the unit.**

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**WARNING**

- **High Voltage Warning**
- **High Voltage Warning**
- **High Voltage Warning**
- **High Voltage Warning**

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**SPECIFICATIONS**

- **Input**
- **Output**
- **Dimension**
- **Resistance**

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**APPLICATION**

- **1/10 4X4 MONSTER Truck**
- **1/10 4X4 MONSTER Truck**
- **1/10 4X4 MONSTER Truck**
- **1/10 4X4 MONSTER Truck**

**Set D/R, EPA, ATL to 100% or turn the knob to its neutral position.**

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**TROUBLESHOOTING**

- **Troubleshooting**
- **Troubleshooting**
- **Troubleshooting**
- **Troubleshooting**

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**Thank you for purchasing our electronic speed controller (ESC). The power system for RC model can be very dangerous, please read the manual carefully. In that we have no control over the correct and installation of the unit. The user must be aware of all safety features and instructions before using the unit.**