WARNING!

AGE WARNING!
- This radio controlled (RC) vehicle is not a toy! You must be 14 years of age or older to operate this vehicle. Adult supervision is required.

RISK OF RUNAWAY VEHICLE OR INJURY!
- Never turn on the vehicle or plug in the battery pack without first having the controller turned on.

RISK OF FIRE!
- Risk of fire and explosion when dealing with batteries. Rechargeable batteries may become hot and catch fire if left unattended or charged too quickly.
- Use extra care when charging LIPO batteries. Use only LIPO specific chargers. Use a LIPO safe charging pouch when charging LIPOs. Charge away from flammable materials.
- Never charge at a rate higher than 1 C. (2000mAh pack x 2amps charge rate). Overcharging can lead to fire and explosion. Always store battery packs in a cool dry place.
- Never leave the battery plugged into the ESC when the vehicle is not in use.
- Never connect two batteries to one another.

RISK OF BURN!
- The batteries, electronic speed controller (ESC), electric motor and other areas of the vehicle can get hot. Burns can occur if touched after vehicle operation.
- Allow adequate time to cool before handling.

RISK OF ELECTRICAL SHOCK!
- Use caution when charging batteries. Do not touch positive and negative leads together.
- Do not lay battery on metal. Use only chargers specified for the battery type being charged.
- Keep battery and chargers away from water.

RISK OF INJURY!
- Hazmat grade RC vehicles can cause serious injury or death if operated incorrectly.
- Never use vehicle in crowds. Never chase people or animals. Only drive in safe open areas.
- Keep body parts away from moving parts.

RISK OF DAMAGE!
- Never operate RC vehicles on public roads. Damage of vehicle and property can occur. Only operate on open private property.
- Never charge the battery pack while it is still plugged into the RC vehicle. Always unplug the battery pack from the electronic speed controller (ESC) and remove the battery from the RC vehicle before charging. Failure to do so will result in damage to the vehicle’s electronics and void the electronics warranty.

RISK OF RUNAWAY VEHICLE OR INJURY AND DAMAGE!
- Do not mix old and new batteries. Do not mix alkaline, lithium, standard (carbon zinc), or rechargeable (nickel cadmium) batteries. Do not charge or charge batteries in a hazardous location. Only use new AA batteries in your radio transmitter. Replace transmitter batteries often to ensure full control of the vehicle.
- Perform a radio range check BEFORE running your RC vehicle to avoid a runaway vehicle.

FCC COMPLIANCE STATEMENT!
- The radio included with your vehicle complies with part 15 of the FCC Rules.
- Operation is subject to the following two conditions:
  1) This device may not cause harmful interference, and
  2) This device must accept any interference received, including interference that may cause undesired operation.
- Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

WARNING: While operating the Radio, a separation distance of at least 20 centimeters must be maintained between the radiating antenna and the body of the user or nearby persons in order to meet the FCC RF exposure guidelines.

Perform a radio range check:
- Install new AA batteries into the bottom of the transmitter.
- Turn on the transmitter.
- Turn on the ESC power switch, which is found in the vehicle.
- Check that the controls are working properly.
- Keep fingers away from potentially moving parts and hold the vehicle off the ground.
- Note: Always turn on the transmitter first to prevent runaways.
- Check that the controls are working properly. The steering wheel should operate the steering and the trigger should operate the motor. Pulling the trigger should make the vehicle go forward, pushing the trigger should apply the brake and reverse. You may need to adjust the throttle trim found on the transmitter to keep the wheels from spinning while the trigger is in the neutral position.
- Have a buddy hold the vehicle and walk 50 yards away. You and your buddy should decide on a routine beforehand, since it will be difficult to communicate with each other while testing.
- An example would be:
  - Turn the steering wheel left and count to ten
  - Turn the steering wheel right and count to ten
  - Pull the trigger and count to ten
  - Push the brakes and count to ten
  - You will want to repeat these steps moving further out as you progress until you are beyond the maximum distance you plan to run the vehicle.
  - If the radio performs without any glitches or twitching at maximum distance, you are ready.

Water Warning:
- After vehicle gets wet, please unplug the ESC from the battery to avoid putting users in danger. Also, rustproofing the bearings and metal parts is highly recommended.
- If you feel driving in water is necessary, please seal all holes in the tires and rims before performing this action to prevent the tire foam from absorbing water inside the tires.
Thank you for choosing the Team Redcat TR-MT8E. The TR-MT8E is designed to be fun to drive and uses top quality parts for performance and durability. Before you start using your new RC kit, we suggest you read through the instruction manual first. Be sure to check all tips before you start. We hope you enjoy your new Team Redcat RC.

**Features:**
- Factory assembled
- Bright LED Lights included
- Reinforced Differentials
- Hardened Steel Driveshafts
- Stylish Body
- Large Wheels and Tires
- Rear Wing and Wheelie Bar
- High Quality Ball Bearings
- Super Strong, Long Travel Suspension
- Adjustable Turnbuckles
- Center Driveshaft Dust Cover

**Specifications:**
- 1/8 4WD EP Monster Truck (RTR)
- Ground Clearance: 88mm
- Weight: 4980g
- Length: 560mm
- Width: 440mm
- Wheelbase: 350mm
- Height: 260mm
- Wheel Track: 440mm
- High Torque 2500KV Brushless Motor
- Heavy Duty Waterproof 100A 4S ESC
- Savöx Heavy Duty Waterproof Servo
- 2.4GHz Radio System

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Thank you for purchasing the TR-MT8E. To drive the vehicle, you will need to acquire the following items.

**1 Included tools**
- Cross Wrench (17mm)
- L-Type Hex Wrench (2.5mm)

**2 Required items**
- AA Alkaline OR Rechargeable Batteries for Transmitter, 4pcs
- 25.7.4V Rechargeable Lipo Battery Pack X 2
- Battery Pack charger

**3 Helpful equipment**
- Hobby Knife (Warning: This knife cuts nylon parts and fingers with equal ease. Be careful.)
- Body Scissors (for body cutting)
- Needle-nose Pliers
- Hex Wrench Metric Size 1.5mm
- Hex Wrench Metric Size 2.0mm
- Hex Wrench Metric Size 2.5mm
- Hex Wrench Metric Size 3.0mm
- Nut Driver 6.5mm (for 3mm nut)

#117001
Instruction & Setup Manual

1 Transmitter Function

2 Operating Procedure

01 Install 4 pcs AA batteries into the transmitter. Do not mix old and new batteries. Do not mix alkaline batteries, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.

02 Turn the steering wheel to steer the front tires tight, turn the steering wheel left to steer the front tires left.

03 Pull the throttle trigger to move the vehicle forward. Push the throttle trigger forward to brake and reverse the vehicle.

3 Binding (connecting the receiver to transmitter)

Binding the Receiver to the Transmitter

“Binding” is tuning the 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 (1 ft) apart.
2. While holding down the receiver’s BIND button, power on the ESC. The receiver’s 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 is complete.
ESC Features

- Completely water-proof and dust-proof.
  (Please remove the cooling fan when running car in water, and after running, please clean and then dry the ESC to avoid the oxidation of copper connectors.)
- The built-in switching mode ESC has powerful output to supply all electronic equipment.
- Proportional ABS brake function with 5 steps of maximum brake force adjustment and 8 steps of drag-brake force adjustment. Also compatible with the mechanical disc-brake system.
- Multiple protection features: Low voltage cut-off protection / Over-heat protection / Throttle signal loss protection / Motor blocked protection.
- Easily programmed with the SET button of the ESC.

ESC Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>WP-08A-RTR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cont.Burst Current</td>
<td>100A/850A</td>
</tr>
<tr>
<td>Motor Supported</td>
<td>Brushless, sensorless motors</td>
</tr>
<tr>
<td>Cars Applicable</td>
<td>1/8 SCT/Buggy/Truggy/Truck</td>
</tr>
<tr>
<td>Motor Limit</td>
<td>25 Lipo: KV=2600</td>
</tr>
<tr>
<td></td>
<td>35 Lipo: KV=4000</td>
</tr>
<tr>
<td></td>
<td>45 Lipo: KV=4200</td>
</tr>
<tr>
<td>Resistance</td>
<td>0.0005 Ohm</td>
</tr>
<tr>
<td>Battery</td>
<td>6-12 cells 2.05V</td>
</tr>
<tr>
<td>BEC Output</td>
<td>6V/3A Switch mode</td>
</tr>
<tr>
<td>Dimensions</td>
<td>59.5(L) x 48(W) x 42(H)</td>
</tr>
<tr>
<td>Weight (With Wires)</td>
<td>172g</td>
</tr>
</tbody>
</table>

ESC Connections

- A) Switch off the ESC, turn on the transmitter.
- B) Hold the "SET" key and then switch on the ESC. Release the "SET" key as soon as possible when the red LED begins to flash. (Note2)
- C) Set the 3 points according to the steps shown in the pictures on the right side.
  1. The neutral point
     While leaving the trigger in neutral position, click the SET key, the green LED flashes 1 time.
  2. The end point of forward direction
     While holding the trigger in the full throttle position, click the SET key, the green LED flashes 2 times.
  3. The end point of backward direction
     While holding the trigger in the full brake/reverse position, click the SET key, the green LED flashes 3 times.
  D) Throttle range is calibrated: motor can be started after 3 seconds.

Using your ESC

WARNING: For safety, please keep the wheels from contacting anything when switching on the ESC.

1. Connect The ESC, Motor, Receiver, Battery And Servo

   - The A, B, C wires of the ESC can be connected with the motor wires freely (without any sequence). If the motor runs in the opposite direction, please swap any two wire connections.

2. Throttle Range Setting (Throttle Range Calibration)

   To make the ESC match the throttle range of the controller, you must calibrate it when you begin to use a new ESC or a new transmitter.

Programmable Items List

(The default text in the following form are the default settings.)

<table>
<thead>
<tr>
<th>Programmable Items</th>
<th>Programmable Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Running Mode (On)</td>
<td>Forward with Brake / Forward / Reverse with Brake / Forward and Reverse</td>
</tr>
<tr>
<td>2. Drag Brake Force</td>
<td>0% / 5% / 10% / 20% / 40% / 60% / 80% / 100%</td>
</tr>
<tr>
<td>3. Low Voltage Cut-Off Threshold</td>
<td>Non-Protection / 2.5V / Cell / 2.5V / Cell / 3.0V / Cell / 3.2V / Cell / 3.6V / Cell</td>
</tr>
<tr>
<td>4. Start Mode (Punch)</td>
<td>Level 1 / Level 2 / Level 3 / Level 4 / Level 5 / Level 6 / Level 7 / Level 8 / Level 9</td>
</tr>
<tr>
<td>5. Max Brake Force</td>
<td>25% / 50% / 75% / 100% / Disable</td>
</tr>
</tbody>
</table>
1. Programmable Values

1.1. Running Mode: In “Forward with brake” mode, the car can go forward and brake, and cannot go backward, this mode is suitable for competition; “Forward / reverse with Brake” mode provides the backward function, which is suitable for daily driving.

Note: “Forward / reverse with brake” mode uses “Double-click” method to make the car go backward. When you move the throttle from forward zone to backward zone for the first time (1st “click”), the ESC begins to brake the motor, the motor slows down but if it is still running, not completely stopped, so the backward action is NOT activated immediately. When the throttle trigger is moved to the backward zone again (2nd “click”), if the motor speed is slowed down to zero (i.e., stopped), the backward action will happen. The “Double-click” method can prevent mistakenly reversing when the brake function is frequently used in steering. Be aware, while reversing, the motor will go immediately forward when the trigger is lifted. It is recommended to allow the vehicle to come to a complete stop before reversing any further.

“Forward / reverse” mode uses “Single-click” to make the car go backward. When you move the throttle stick from forward zone to backward zone, the car will go backward immediately. This mode is usually used for the rc car for any buggy, tuggy, or truck.

1.2. Drag Brake Force: Set the amount of drag brake applied at neutral throttle to simulate the slight braking effect of a neutral brushed motor while coasting.

1.3. Low Voltage Cut-off: The function prevents the lithium battery pack from over-discharging. The ESC detects the battery’s voltage at any time. If the voltage is lower than the threshold for 2 seconds, the output power will be cut off, and the ESC flashes in such a way: "b-b-b", "b-b-b", "b-b-b".

1.4. Start Mode (Also called “Punch”): Select from “Level-1” to “Level-9” as you like. Level-1 has a very soft start effect, while Level-9 has a very aggressive start effect. From Level-1 to Level-9, the start force is increased. Please note that if you choose “Level-7” to “Level-9” mode, you must use good quality battery with powerful discharge capability, otherwise these modes cannot get the burst start effect as you want. If the motor cannot run smoothly (that means the motor is clogging), it may be caused by the weak discharge rate of the battery, please change a stronger battery or a higher gear ratio.

1.5. Maximum Brake Force: The ESC provides proportional brake function. Brake force is related to the position of the throttle trigger. Maximum brake force refers to the force when the throttle trigger is located at the end point of the backward zone. A very large brake force can shorten the brake time, but it may damage the brake shoes. The “Disable” option inhibits the inherent brake function of the speed controller. When this option is selected, the brake function is realized by a traditional mechanical disc-brake system driven by a servo (optional).

2. Reset All Items To Default Values

At any time when the throttle is located in neutral zone (except in the throttle calibration or parameters program process)

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Possible Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>After power on, motor doesn’t work, and the cooling fan doesn’t work</td>
<td>The connections between the battery pack and ESC are not correct</td>
<td>Check the power connections and replace the connectors</td>
</tr>
<tr>
<td>After power on, motor can’t work, but emits “beep-beep-beep” alert tone. (Every “beep-beep-beep” has a time interval of 1 second)</td>
<td>Input voltage is abnormal, too high or too low</td>
<td>Check the voltage of the battery pack</td>
</tr>
<tr>
<td>After power on, red LED always lights, the motor doesn’t work</td>
<td>Throttle signal is abnormal</td>
<td>Plug the control wire into the throttle channel of the receiver correctly</td>
</tr>
<tr>
<td>After power on, red LED always lights, the motor doesn’t work</td>
<td>The motor does not rise in the opposite direction when it is accelerated</td>
<td>The wire connections between ESC and the motor are not correct</td>
</tr>
<tr>
<td>The motor suddenly stops running while it is working-stable</td>
<td>The throttle signal is lost</td>
<td>Check the wire connections and the receiver</td>
</tr>
<tr>
<td>The motor suddenly stops running while it is working-stable</td>
<td>The ESC has entered the Low Voltage Protection Mode or Over-heat Protection Mode</td>
<td>Red LED flashing means Low Voltage, Green LED flashing means Over-heat</td>
</tr>
<tr>
<td>When accelerating quickly, the motor stops or trembles</td>
<td>1. The battery has a bad discharge performance 2. Gear ratio is too aggressive 3. The “Start Mode (Punch)” of the ESC is too aggressive</td>
<td>1) Use a better battery 2) Use lower KV motor or shorter gear ratio 3) Change the “Start Mode (Punch)” to a softer value</td>
</tr>
<tr>
<td>When the throttle stick is in the neutral range, the red LED and the green LED flashes synchronously</td>
<td>Over current protection, motor demagnetization, or motor is over load</td>
<td>1) Reduce the load (Use lower gear ratio or reduce the input voltage) 2) Change the motor</td>
</tr>
<tr>
<td>Cannot connected with the LED Program Card or LCD Program Box</td>
<td>Malfunctioned the RX wire to connect to the program card</td>
<td>Connect the program card to the special programming port of the ESC, do not use the RX wire</td>
</tr>
</tbody>
</table>

Hold the SET key for over 3 seconds, the red LED and green LED will flash at the same time, which means each programmable item has been reset to its default value.

Program the ESC:

- Turn off the ESC, turn on the transmitter
- Enter the corresponding programmable item, switch on the ESC
- Red LED flashes for 4 times, enter the 1st item “Running Mode”
- Press the SET key to choose the programmable value, the red LED flashes a number of times, the number of flashes represents the number of the value you are choosing
- Red LED flashes 1 time to choose “Forward with brake”
- Red LED flashes 2 times to choose “Forward / reverse with brake”
- Red LED flashes 3 times to choose “Forward / reverse”
- Red LED flashes 4 times to choose “Low Voltage Cut-off”
- Red LED flashes 5 times to choose “Start Mode (Punch)”
- Red LED flashes 6 times to choose “Drag Brake Force”
- Red LED flashes 7 times to choose “Gain 10%”
- Red LED flashes 8 times to choose “Gain 100%”

Note:
- In the program process, the motor will emit “beep” tones while the LED on the ESC is flashing.
- A long constant flash (ESC) and a long “beep” tone (motor) represents the number “5”, the following short beeps to “5” to get the whole number. Here are some examples:
  - “A long solid flash” ( Motor sound "b-b-b") = the No. 5 item
  - “A long solid flash + a short flash” (Motor sound "b-b-b, b-b-b") = the No. 6 item
  - “A long solid flash + 2 short flashes” (Motor sound "b-b-b, b-b-b, b-b-b") = the No. 7 item
  - “A long solid flash + 3 short flashes” (Motor sound "b-b-b, b-b-b, b-b-b, b-b-b") = the No. 8 item
  - “A long solid flash + 4 short flashes” (Motor sound "b-b-b, b-b-b, b-b-b, b-b-b") = the No. 9 item

2. Program the ESC with the LCD program box (Optional equipment): Note:
- The RX wire of the ESC (for connecting receiver) CANNOT be used to connect with the LCD Program Card. Only use the special port between the terminals ABC to connect to the Program Card.

To Program Card