Thank you for choosing the Team Magic M8ER. The M8ER includes a large selection of the important specialty parts when compared to the previous versions. Before you start building your new M8ER, we suggest you read through the instruction manual first. We hope you enjoy the building processes.

General Building Tips:
- Read the instruction manual before building.
- Clear a work area and try to work on a light color towel to avoid missing dropped parts.
- Don’t over-tighten fasteners. Many assembly problems are caused by over-tightening screws or nuts. Don’t use too large a grip. Please go slowly and feel the resistance build. Just snug it up.
- When it doesn’t fit, please double check. If an assembly is not going together correctly, then either there really is a bad fit (e.g. a part is damaged or defective) or a mistake in assembly. Always re-read the instructions when there are any problems. If you cannot figure out what’s wrong, always ask dealer, distributor or Team Magic. Don’t use force beyond what the instructions call for.
- Using the right tools makes assembly much easier. The instructions below finely indicate you what tools to get to make things easier. We don’t want to scare you by saying that all these tools are required, but you will have a easier time if you have them. Borrow them from a friend to check if necessary.
- The assembly is arranged so that you will open the bag and finish that bag before you go on to the next bag. Sometimes, you will have parts remaining at the end of a bag. These will become part of the following bags.

A Good Dealer Is Extremely Important!!
A good hobby dealer can help you with most assembly problems you might encounter. This is the main reason why you should buy your kits from a good dealer rather than from the cheapest dealer. Bring your problematic parts to the dealer and, most likely, you’ll walk away soon thereafter with the problem solved. If you think that you really don’t have the mechanical skills to complete the assembly, you may pay your dealer to finish the job for you.

Thank you for purchasing the M8ER. To drive the car, you will need to check the following procedures.

1. Included tools

- TM Black HC Flare Nut Wrench (2.6, 3.5, 4.5 & 6mm) #117101
- Cross Wrench (4mm, 5mm, 5.5mm & 7mm) #116025
- Cross Wrench (7, 8, 10, 12 & 17mm) #116043
- Shock End Cap Tool (2) #560194
- TM Black HC Nut Driver Metric Size 2.0mm #117002-2M
- TM Black HC Nut Driver Metric Size 2.5mm #117002-3M
- TM Black HC Nut Driver Metric Size 3.0mm #117002-4M
- TM Black HC Nut Driver 3.5mm (for 3mm nut) #117010
- TM Black HC Nut Driver 5mm (for 3.5mm nut) #117014
- TM Black HC Nut Driver 6mm (for 3.5mm nut) #117015
- TM Black HC Hex Wrench Metric Size 1.5mm #117002-1M
- TM Black HC Hex Wrench Metric Size 2.5mm #117001-3M
- TM Black HC Hex Wrench Metric Size 3.0mm #117001-4M
- TM Black HC Hex Wrench (7, 8, 10, 12 & 17mm) #116043
- TM Black HC Hex Wrench (4mm, 5mm, 5.5mm & 7mm) #116025
- TM Black HC Flare Nut Wrench (2.6, 3.5, 4.5 & 6mm) #117101
- Cross Wrench (4mm, 5mm, 5.5mm & 7mm) #116025
- Cross Wrench (7, 8, 10, 12 & 17mm) #116043
- Shock End Cap Tool (2) #560194

2. Required tools and equipments

- Tongue and Groove Pliers
- Caliper
- Caliper
- Instant Adhesive
- Needle nose Pliers
- Instant Adhesive
- Needle nose Pliers
- Hobby Knife (Warning!! This knife cuts nylon parts and fingers with equal ease. Be careful.)
- Double Sided Tape
- Double Sided Tape
- TM Black HC Body Reamer (0~18mm) #117030
- TM Black HC Carb Tuning Slotted Screw Driver (4mm) #117023
- Body Scissors (for body cutting) #116006
- Body Scissors (for body cutting) #116006
- Instant Adhesive
- Instant Adhesive
- Needle nose Pliers
- Needle nose Pliers
- TM Black HC Hex Wrench Metric Size 2.0mm #117002-2M
- TM Black HC Hex Wrench Metric Size 2.5mm #117002-3M
- TM Black HC Hex Wrench Metric Size 3.0mm #117002-4M
- TM Black HC Nut Driver 5.5mm (for 3mm nut) #117010
- TM Black HC Nut Driver 6mm (for 3.5mm nut) #117014
- AA Alkaline Or Rechargeable Batteries For Transmitter, 8pcs

(Please always buy these items in model shops)
3 Helpful Items (suggested)

- TM 1/8 Setup Board (500x480mm) #116052
- Support Blocks for Buggy Setup Gauge (25-30mm) #H7113
- H.A.R.D. Maintenance Standing Box #H9201
- 1/8 Buggy Cambertoe Setup Gauge #H7105
- TM Cap (Orange) #119235
- TM Moisture-Wicking T-Shirt (Black) #119234
- TM Transmitter Bag (Black) #119206
- TM New Formula 8 (F8) Car Bag (for 1/8 cars) #119220
- H.A.R.D. Tool Bag (10 Slots) #H9001
- H.A.R.D. Neck Strap #H9010
- H.A.R.D. 14 Gauge King Core Silicone Wire (90cm) #H6701
- H.A.R.D. Magellan Series 1/8 Off Road Car Bag #H8911

4 Cool Items (It would be good to have these items with the M8)

- TM Antenna & tires assembly
  - Battery installation:
    - Input voltage: 7.2V~14.8V DC Ni-Cd / Ni-Mh / Lipo battery
    - Turn off the ESC before you connect the plugs.
    - Do not use white plastic plug due to the voltage problem, please use ultra plug (T plug) for the safety concern.
    - Caution: make sure ESC is turned off before connecting the battery.
**02 Transmitter batteries installation**

A. Install 8pcs AA batteries to the HARD transmitter.

B. Turn on the power

**03 Connect the plugs & turn on the ESC.**

**04 Turn the steering trim to the center.**

**05 Transmitter operation.**

- Press the throttle trigger to moving forward the vehicle
- Push forward the throttle trigger to brake and reverse the vehicle
- Turn the steering wheel right to turn the front tires go right.
- Turn the steering wheel left to turn the front tires go left.
06 Temperature cautions.

The temp of motor < 90°C

The temp of batteries < 60°C

07 ESC operating instructions.

1. Install the ESC according to the diagram shown below: Switch on the transmitter, Switch on the ESC power.

2. Lift the car with the 4 wheels un-touching. Adjust & make sure the throttle forward direction coincides with the ESC forward direction.

3. Right after turn on the power of the ESC, it will denote a series sound indicating the ESC is starting work. It will then auto-setting the throttle Neutral denoted by LED2 in which fast inter-flashing with yellow & red light. While succeed in setting neutral, it will then denoted by another confirmation sound & the LED2 will slowly inter-flash with yellow & red light. If it is failed setting neutral, there will be no any confirmation sound. Please re-do & re-check the system again starting from step 1 of this instruction. This ESC is applicable to the transmitter with the setting of 1/2 throttle & 1/2 brake/ reverse.

4. Slowly push the throttle trigger forwards, the LED2 will be slowly flashing in red light. The flashing speed should be proportional to the extent of the throttle acceleration. At the full speed, the LED2 will be in solid red light. If the throttle forward direction does not coincide with the ESC forward direction, the light color will be in yellow not red. Change the throttle reversing switch of the transmitter will correct the non-coincidence problem.

5. Motor rotating direction - Slowly apply throttle to check if the motor is rotating in the correct direction you desired.

To reverse the direction of the motor, switch any two of the motor wire connections. Note : Do not reverse the battery wire connections! Reversing the battery polarity will permanently damage the ESC.

6. 1stly, trial running starting with a small gear motor for 2~3 minutes, measure the temperatures of both Esc & motor. If both temperatures are close with each other, they are at good match. The gear ratio can then be properly adjusted to optimum according to the features of the courses. However, it’s very important to always keep both temperatures under 100 ° c, while adjusting the gear ratio. Otherwise the demagnetization of the motor will happen, the motor efficiency will drop dramatically & the temperature will also raise up very quickly. Most battery power is now wasted on heat nothing on motor efficiency.

7. It’s ok to replace a higher gear ratio or a higher KV motor while the temperature of the ESC is under 80 ° C. But if should be done according to para 6 described, from small to bigger. Unless the kv value of the original motor is very low enough, it should replace a motor with lower kv value when the input battery voltage is changed to a higher level. The ESC will be burnt if the motor doesn’t be properly changed while input voltage is changed. See example below on the current changed inside motor while input voltage is changed;

   Input 7.2V, inner resistance 0.18Ω → 40A (V/R=7.2/0.18=40)
   Input 11.1V inner resistance 0.18Ω → 61.6A (V/R=11.1/0.18=61.6)

8. Driving forward

Pull throttle trigger forward, the car will be in hard start mode, with very fast initial start, none delay acceleration, using the minimum time to reach the full speed from still. Perfectly respond to the signal of the instantly acceleration. The braking will be actuated by reversing throttle direction while driving forwards. Interval or spot braking can always be controlled perfectly while driving forwards.

9. Driving backwards

By reversing the throttle direction when car is in still, the car will be driving backwards. The braking will be actuated by reversing throttle direction while driving backwards. By reversing throttle direction during driving backwards, it will get only a brief braking action & then reverse to drive forwards instantly. The speed of driving backwards will be responded proportionally to the throttle input.

10. Warning

Once the battery pack is connected, handle the model with extreme care, make sure you are clear of all rotating parts.

Connect the battery pack just before drive and disconnect it immediately after termination.

Always make sure you are connecting the ESC to a proper power source that has the correct voltage & polarity. Incorrect voltages or reversed polarity will damage the ESC.
01 Left view

02 Top view

03 Right view
⚠️ Cautions !!

To prevent any serious personal injury or damage to property, please be responsible when operating this radio controlled car. Team Magic and its distributors have no control over damage resulting from shipping, improper construction or improper usage. Team Magic accepts no responsibility for damages resulting from the use of improper building equipment and operations. By the act of assembling or operating this product, the user accepts all liability. If the buyer is not prepared to accept this liability, then he/she should return this product in a new, unassembled and unused condition to the place of purchase.

- This is not a toy. It is a high speed r/c car for persons age 15 and older.
- Choose the right place to drive your r/c model
  - Don’t run on streets or highways. This could cause serious accidents.
  - Don’t run r/c cars near people or animals.
  - Don’t run in the house. There is a high risk of fire.
  - Don’t run nearby hospitals or schools. Loud noises may disturb others.
- Always inspect your model before operation
  - Always make sure that no one else is using the same frequency when you are using
  - Always make sure your transmitter and batteries are fully charged to avoid losing control of the model.

Based on continuous product development, the up-to-date specifications of the kit may vary. We reserve all rights to change any specification without prior notice.