

TAMIYA 58683

Instruction Manual for Tamiya 58683 1:14 RC M-B Race Truck Actros MP4 TT-01E

Remote Control Car Vehicle Model Building Kit

1. IMPORTANT SAFETY INFORMATION

Please read this entire instruction manual carefully before assembling, operating, or performing maintenance on your Tamiya RC model. Failure to do so may result in injury or damage to the product or property.

- **Adult Supervision:** This product is a model building kit and is recommended for ages 14 and up. Adult supervision is required for younger users.
- **Small Parts:** The kit contains small parts that can be a choking hazard. Keep out of reach of small children.
- **Electrical Safety:** Always disconnect the battery when not in use or during assembly/maintenance. Ensure all electrical connections are secure to prevent short circuits. Use only recommended batteries and chargers.
- **Chemicals:** When painting the body or using adhesives, ensure adequate ventilation and follow the safety instructions provided with those products.
- **Operation Area:** Operate the RC truck in a safe, open area away from people, pets, and obstacles. Avoid public roads.

2. INTRODUCTION

Congratulations on your purchase of the Tamiya 58683 1:14 RC M-B Race Truck Actros MP4 TT-01E model kit. This highly detailed replica of the Mercedes-Benz Actros race truck is designed for enthusiasts who enjoy the rewarding process of building and customizing their own remote control vehicles. The model utilizes the robust and versatile TT-01 Type E on-road chassis, known for its 4-wheel drive system and independent suspension, providing excellent handling characteristics.

What's Included in the Kit:

- Model kit with detailed assembly instructions
- Electronic Brushless/Brushed Speed Controller (TBLE-02S)
- 540 Electric Motor (Torque-Tuned)
- Polycarbonate Body (multi-piece)

Required for Completion (Sold Separately):

- 2-channel RC system (transmitter and receiver)
- Steering servo
- 7.2V NiMH battery pack
- Compatible battery charger
- Polycarbonate paint (Tamiya PS series recommended)
- Basic modeling tools (e.g., hobby knife, screwdrivers, pliers, hex wrenches)

3. PRODUCT OVERVIEW

The Tamiya 58683 model faithfully replicates the Mercedes-Benz Actros MP4 race truck. It features a durable TT-01E chassis, designed for balanced performance and ease of assembly.

Key Components:

- **Polycarbonate Body:** Lightweight and impact-resistant, designed to mimic the aggressive styling of the full-size race truck. It comes in multiple pieces for detailed assembly and painting.
- **TT-01 Type E Chassis:** A shaft-driven 4WD bathtub frame chassis with excellent balance and low center of gravity. It features 4-wheel independent double wishbone suspension.
- **TBLE-02S ESC:** An electronic speed controller compatible with both brushed and Tamiya TBLM series brushless motors, providing smooth throttle control.
- **Torque-Tuned Motor:** A 540-size brushed motor offering a good balance of speed and torque for enjoyable driving.
- **Truck Rims and Tires:** Special truck-specific rims and profiled tires designed for realistic appearance and performance.

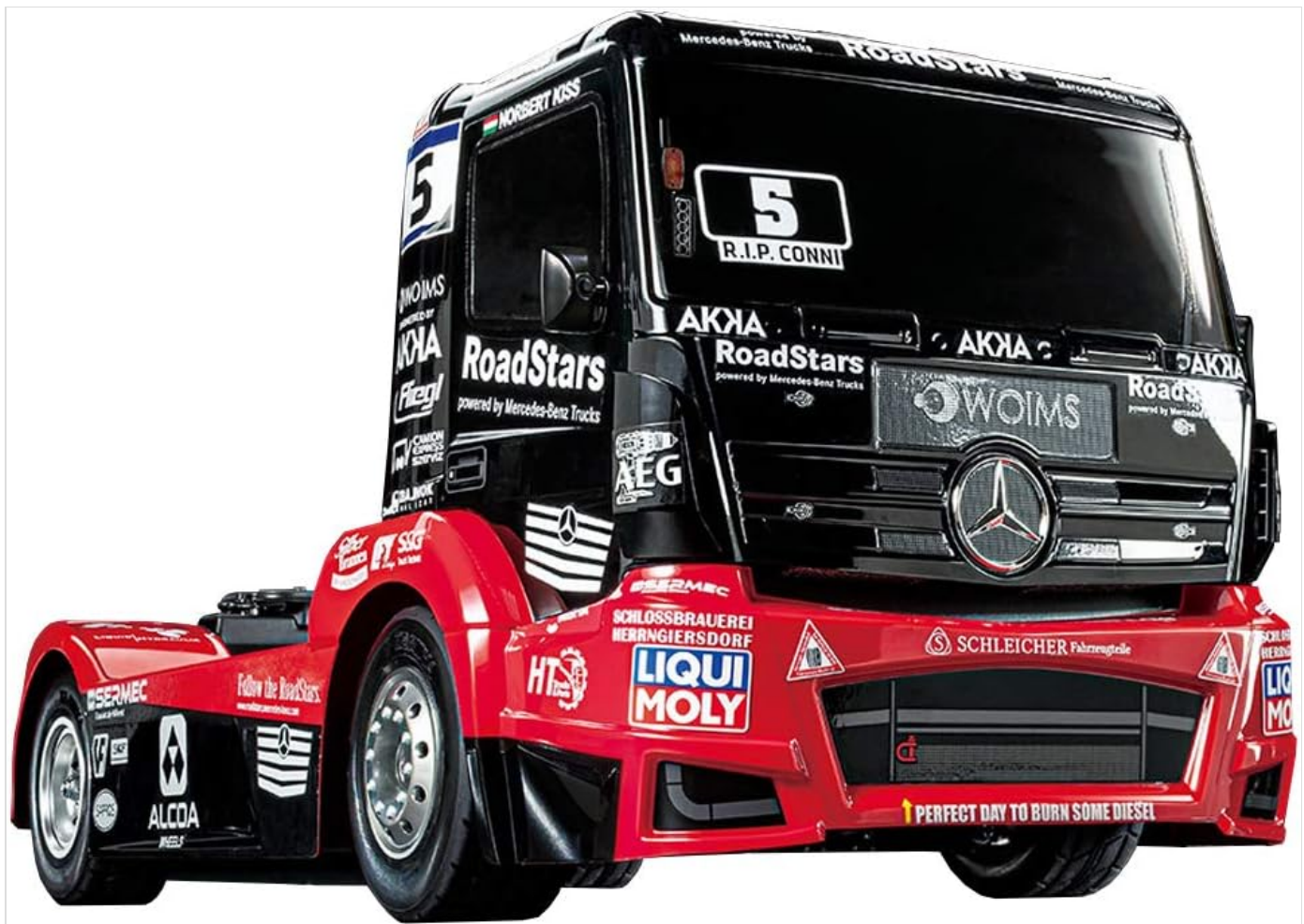


Figure 3.1: Fully assembled Tamiya 1:14 RC M-B Race Truck Actros MP4. This image shows the completed model with its distinctive black and red livery, race numbers, and sponsor decals, highlighting the detailed polycarbonate body.



Figure 3.2: The Tamiya 1:14 RC M-B Race Truck Actros MP4, showcasing the detailed painted body. This view emphasizes the multi-piece construction and the vibrant finish achievable with proper painting techniques.



Figure 3.3: Underside view of the Tamiya TT-01E chassis. This image displays the layout of the drivetrain, suspension components, motor, electronic speed controller (ESC), and battery compartment, illustrating the robust design.

4. SETUP AND ASSEMBLY

This model is a kit and requires complete assembly. Follow the detailed, step-by-step instructions provided in the included assembly manual. The following is a general overview of the assembly process.

Assembly Steps Overview:

1. **Chassis Assembly:** Begin by assembling the TT-01E chassis. This involves building the gearbox, installing the drive shafts, and assembling the suspension arms and shock absorbers.
2. **Motor and ESC Installation:** Mount the Torque-Tuned motor into the chassis. Connect the TBLE-02S ESC to the motor and ensure proper wiring for the battery and receiver.
3. **Steering Servo Installation:** Install your chosen steering servo into the designated location on the chassis and connect it to the steering linkage.
4. **Radio System Setup:** Install your receiver into the chassis. Connect the steering servo and ESC to the appropriate channels on the receiver. Refer to your radio system's manual for binding procedures.
5. **Wheel and Tire Assembly:** Assemble the special truck rims with the profiled tires. Mount them onto the chassis.
6. **Body Preparation and Painting:** Carefully cut out the polycarbonate body parts. Wash the body with mild soap and water to remove any mold release agents. Mask off windows and other areas not to be painted. Apply polycarbonate-specific paint (Tamiya PS series recommended) to the **inside** of the body. Apply multiple thin coats for best results.
7. **Decal Application:** Once the paint is dry, apply the included decals to the outside of the body according to the manual's guide for a realistic finish.
8. **Final Body Assembly:** Attach mirrors, light buckets (if using optional LEDs), and other scale details to the body. Mount the completed body onto the chassis using the body posts.

Tip: Take your time during assembly. Use thread-locking compound on metal-to-metal screws where indicated in the manual to prevent loosening from vibrations.

5. OPERATING YOUR RC TRUCK

Once assembled and all electronics are connected, you are ready to operate your Tamiya RC truck.

Pre-Operation Checklist:

- Ensure the battery pack is fully charged.
- Check all screws and connections for tightness.
- Verify that the transmitter batteries are fresh.
- Confirm that the steering and throttle trims on your transmitter are centered.

Starting Procedure:

1. Turn on your transmitter first.
2. Connect the fully charged battery pack to the ESC in the RC truck.
3. Turn on the power switch on the ESC. You should hear a series of beeps, indicating it's ready.
4. Test the steering and throttle response. If the steering is reversed or off-center, adjust the servo reverse switch or trim on your transmitter.

Driving Tips:

- Start with gentle throttle inputs to get a feel for the truck's response.

- Practice steering in wide turns before attempting tighter maneuvers.
- Avoid driving in wet conditions, deep puddles, or extremely dusty environments, as this can damage electronics.
- Monitor battery life. When the truck starts to slow down significantly, it's time to recharge the battery.

6. MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your Tamiya RC truck.

After Each Run:

- **Clean the Truck:** Use a soft brush or compressed air to remove dirt, dust, and debris from the chassis, suspension, and body. A damp cloth can be used for the body, but avoid getting electronics wet.
- **Inspect for Damage:** Check for any loose screws, bent parts, or damaged components. Address any issues promptly.
- **Battery Care:** Disconnect and properly store the battery. If using NiMH, allow it to cool before recharging.

Periodic Maintenance (Every 5-10 Runs):

- **Check Gear Mesh:** Ensure the motor pinion gear and spur gear have proper mesh to prevent premature wear.
- **Lubricate Moving Parts:** Apply a small amount of appropriate grease or oil to moving parts like universal joints, dogbones, and bearings (if applicable). Avoid over-lubrication.
- **Inspect Tires:** Check for wear and tear on the tires. Replace if significantly worn for optimal traction.
- **Clean Bearings:** If your model uses ball bearings, periodically clean and re-lubricate them.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your RC truck.

Problem	Possible Cause	Solution
Truck does not power on.	Battery not charged; Battery not connected; ESC switch off; Faulty ESC/battery.	Charge battery; Connect battery securely; Turn ESC switch on; Test with another battery/ESC if available.
No response from controls.	Transmitter off; Transmitter batteries low; Receiver not bound; Loose receiver connection; Faulty receiver/servo/ESC.	Turn on transmitter; Replace transmitter batteries; Re-bind receiver; Check all connections; Test components individually.
Truck moves slowly or lacks power.	Battery low; Motor/ESC overheating; Gear mesh too tight; Obstruction in drivetrain.	Recharge battery; Allow components to cool; Adjust gear mesh; Check for debris in gears/drivetrain.
Steering is erratic or unresponsive.	Loose servo horn/linkage; Damaged servo; Incorrect trim/sub-trim on transmitter.	Tighten servo horn/linkage; Replace servo; Adjust transmitter settings.

Problem	Possible Cause	Solution
Unusual noises from drivetrain.	Debris in gears; Worn gears; Loose motor mount.	Clean gears; Replace worn gears; Tighten motor mount screws.

8. SPECIFICATIONS

Feature	Detail
Model Name	Tamiya 1:14 RC M-B Race Truck Actros MP4
Model Number	58683
Scale	1/14
Chassis Type	TT-01 Type E (On-Road, 4WD)
Motor	540 Torque-Tuned Motor
Electronic Speed Controller (ESC)	Tamiya TBLE-02S (Brushed/Brushless compatible)
Body Material	Polycarbonate
Product Dimensions (L x W x H)	17.36 x 7.4 x 7.4 inches (441 x 188 x 188 mm)
Item Weight	1 pound (approx. 454 g)
Recommended Age	14 years and up
Release Date	March 24, 2021

9. WARRANTY AND SUPPORT

Tamiya products are known for their quality and reliability. This product is a model kit, and as such, the warranty typically covers manufacturing defects in the components at the time of purchase. It does not generally cover damage resulting from assembly errors, improper use, modifications, or normal wear and tear.

For specific warranty details, technical support, or to inquire about replacement parts, please refer to the official Tamiya website or contact your local Tamiya distributor. Keep your proof of purchase for any warranty claims.

Tamiya is committed to providing high-quality products and support to its customers. Should you encounter any issues not covered in this manual, please reach out to their customer service for assistance.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question