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USER MANUAL (MODEL 58669)

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1. Introduction

This user manual provides detailed instructions for the assembly, setup, operation, and maintenance of your TAMIYA M08 Mini RC RWD Chassis Kit (Model 58669). This 1/10 scale R/C model assembly kit is designed for enthusiasts seeking a high-performance rear-wheel drive experience. Please read this manual thoroughly before beginning assembly or operation to ensure correct usage and optimal performance. The M08 chassis features a rigid monocoque frame split into front (suspension and servo) and rear (motor and battery) sections, offering superior rear high traction drive characteristics and simplified maintenance. It incorporates C.V.A. oil shock-damped 4-wheel double wishbone suspension and an oil-filled gear differential unit for a smooth and responsive drive.

2. Safety Information

Warning: This product contains small parts and is not suitable for children without adult supervision. Adult assembly is required. Always follow these safety guidelines to prevent injury or damage.

- Read all instructions carefully before assembly and operation.
- Keep small parts out of reach of young children to prevent choking hazards.
- Always use recommended tools and equipment for assembly.
- Ensure all electronic components (battery, motor, ESC, receiver) are correctly installed and connected according to their respective manuals.
- Do not operate the RC model in public streets, near people, or in areas where it could cause interference or danger.
- Always disconnect the battery when the model is not in use or during maintenance.
- Be aware that the motor and electronic speed controller (ESC) can become hot during operation. Avoid touching them immediately after use.

3. Assembly

The TAMIYA M08 is an assembly kit. Detailed step-by-step instructions are provided in the physical kit packaging. This section provides an overview of key assembly aspects.

3.1 Chassis Construction

The chassis is constructed around a rigid monocoque frame, split into front (suspension and servo) and rear (motor and battery) sections. This design facilitates easy maintenance and optimizes weight distribution for RWD performance.

3.2 Drivetrain Assembly

The rear-midship motor powers the rear wheels via an oil-filled differential gear unit, inherited from the M-07 Concept. Ensure all gears are properly lubricated and installed for a silky-smooth drivetrain. Universal drive shafts are included for efficient power transfer.

3.3 Suspension System

Assemble the 4-wheel double wishbone suspension system, which features C.V.A. oil shock dampers. Pay close attention to the dedicated long arms and steering linkage components, as these are crucial for various setup options.

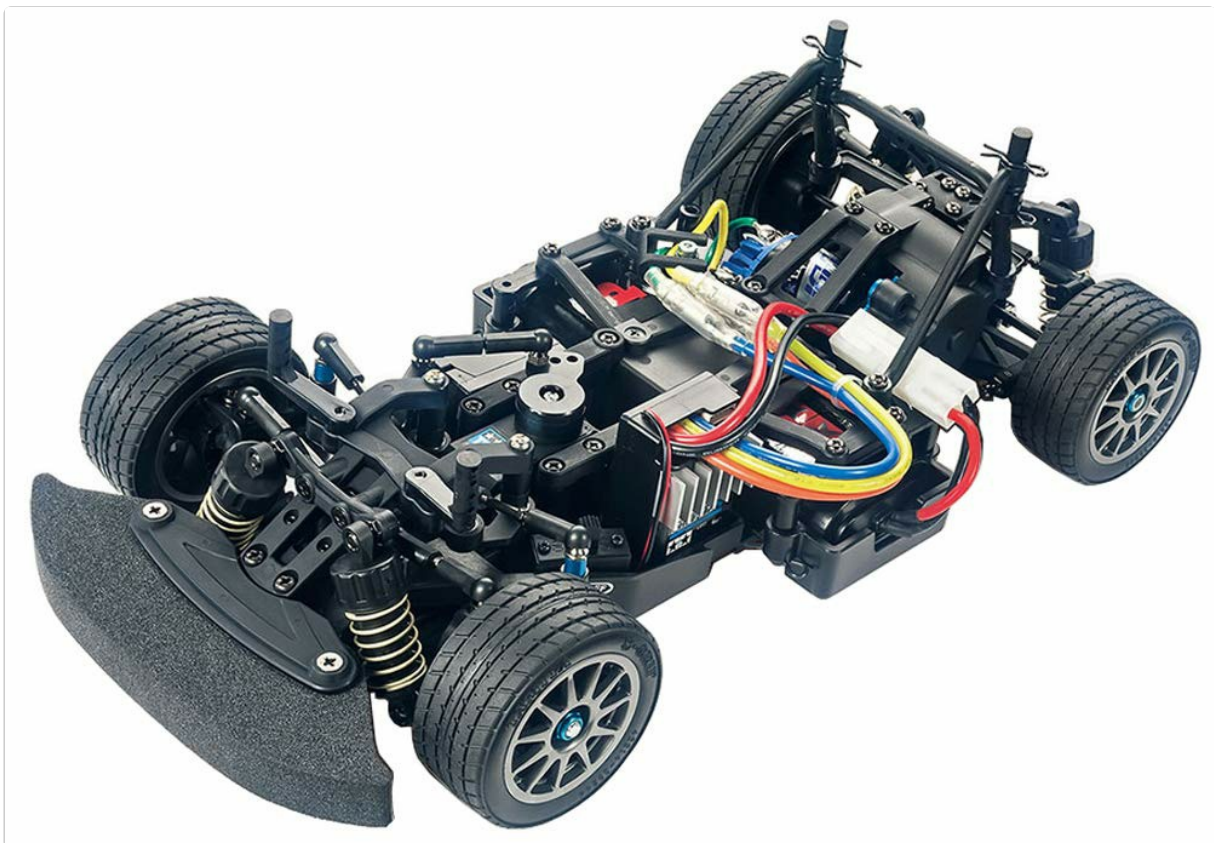


Figure 3.3.1: The TAMIYA M08 Mini RC RWD Chassis Kit, fully assembled and ready for body installation. This image highlights the chassis layout, including the rear-midship motor, battery compartment, and suspension components.

4. Setup

The M08 chassis offers several adjustment options to fine-tune its performance for different tracks and driving styles.

4.1 Wheelbase Adjustment

The chassis can be assembled with three different wheelbases to accommodate various M-chassis body sets:

- **Short (S):** 210mm
- **Medium (M):** 225mm
- **Long (L):** 239mm

Refer to the kit's assembly manual for specific instructions on how to configure the chassis for your desired wheelbase.

4.2 Suspension Tuning

The C.V.A. oil shock dampers and double wishbone suspension allow for adjustments to ride height, damping, and camber. Experiment with different oil viscosities and spring rates to optimize handling. The long suspension arms provide a wide range of setup possibilities.

4.3 Electronic Components

Install your chosen electronic speed controller (ESC), receiver, steering servo, and motor. Ensure all wiring is neat and secure, avoiding interference with moving parts. Calibrate your ESC and radio system according to their respective manufacturer's instructions.

5. Operation

Once assembled and set up, your TAMIYA M08 Mini RC RWD Chassis Kit is ready for operation. Remember that this is a rear-wheel drive model, which offers unique driving characteristics compared to 4WD models.

5.1 Pre-Run Checks

- Ensure the battery is fully charged and securely installed.
- Check all screws and fasteners for tightness.
- Verify that the steering operates correctly and the trim is centered.
- Confirm that the throttle responds smoothly and predictably.
- Inspect tires for wear and proper inflation (if applicable).

5.2 Driving Tips

- Start with gentle throttle inputs, especially on loose surfaces, to manage rear traction.
- Practice smooth steering and throttle control to maintain stability.
- The RWD setup provides excellent acceleration and a more dynamic driving feel.
- Avoid sudden braking or acceleration in turns to prevent loss of control.

6. Maintenance

Regular maintenance is essential to ensure the longevity and performance of your M08 chassis.

6.1 Post-Run Cleaning

After each run, especially in dusty or dirty conditions, clean the chassis using a soft brush or compressed air. Remove any debris from the suspension components, gears, and motor area.

6.2 Drivetrain Inspection

Periodically inspect the oil-filled gear differential unit for leaks or unusual noise. Replenish or replace differential oil as needed. Check universal drive shafts for wear and ensure they move freely.

6.3 Suspension and Steering

Check C.V.A. oil shocks for leaks and smooth operation. Replace worn O-rings or shock oil if necessary. Inspect suspension arms, uprights, and steering linkages for damage or excessive play. Ensure all ball bearings are clean and spin freely; lubricate or replace as needed.

6.4 Fastener Checks

Regularly check all screws and nuts for tightness, especially after impacts or heavy use. Loose fasteners can lead to component failure or poor performance.

7. Troubleshooting

This section addresses common issues you might encounter with your M08 chassis.

Problem	Possible Cause	Solution
Model does not move.	Battery discharged or disconnected; ESC not calibrated; Motor wires loose.	Charge/connect battery; Calibrate ESC with transmitter; Check motor connections.
Steering unresponsive or erratic.	Servo disconnected or faulty; Receiver/transmitter issue; Steering linkage binding.	Check servo connection; Re-bind receiver/transmitter; Inspect steering components for obstructions.
Unusual noise from drivetrain.	Gears worn or damaged; Debris in gears; Differential issue.	Inspect and replace worn gears; Clean drivetrain; Check differential oil and components.
Poor handling or stability.	Incorrect suspension setup; Loose wheel nuts; Damaged suspension components.	Review suspension settings (Section 4.2); Tighten wheel nuts; Inspect suspension arms and shocks.

If you encounter issues not listed here, refer to the detailed assembly manual or contact TAMIYA customer support.

8. Specifications

Feature	Detail
Brand	TAMIYA
Model Name	M08 Mini RC RWD Chassis Kit
Model Number	58669
Scale	1/10
Chassis Type	RWD Monocoque
Wheelbase Options	210mm (S), 225mm (M), 239mm (L)
Suspension	4-wheel Double Wishbone with C.V.A. Oil Shocks
Drivetrain	Rear-midship motor, Oil-filled Gear Differential, Universal Drive Shafts
Material	Plastic
Item Dimensions (L x W x H)	18.38 x 8.5 x 5 inches (approximate, assembled)
Item Weight	22.4 Ounces (approximate, chassis only)
Included Components	Tamiya 58669 M08 Mini RC RWD Chassis Kit (assembly parts)
Age Range (Description)	Adult

9. Warranty & Support

Warranty Information: Specific warranty details for the TAMIYA M08 Mini RC RWD Chassis Kit are typically provided within the product packaging or on the official TAMIYA website. Please refer to these sources for the most accurate and up-to-date warranty terms and conditions.

Customer Support: For technical assistance, missing parts, or any other inquiries regarding your TAMIYA product, please contact TAMIYA customer support directly. Contact information can usually be found on the product packaging or on the official TAMIYA website.