

TAMIYA 58742

TAMIYA 1/10 RC Hornet EVO. (Model TAM58742) Instruction Manual

Your Guide to Assembly, Operation, and Maintenance

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1. INTRODUCTION TO THE TAMIYA 1/10 RC HORNET EVO.

The TAMIYA 1/10 RC Hornet EVO. (Model TAM58742) is a special edition assembly kit celebrating the 40th anniversary of the iconic Hornet. This model features significant redesigns and includes enhanced components for improved performance and durability. It is a 1/10 scale remote control model designed for enthusiasts who enjoy the building process and classic RC buggy experience.

Key features of the Hornet EVO. include:

- 1/10 Scale R/C Model Assembly Kit
- 0.7mm Thick Polycarbonate Body, retaining the classic Hornet shape
- 2WD Bathtub Frame Chassis, similar to the original Hornet
- Updated Sticker Design, while carrying over the original Hornet's color scheme
- Includes a 540 Brushed Motor

This EVO. version distinguishes itself from the standard Hornet (58336) with its independent suspension, a new rear transmission system, full ball bearings, and oil pressure shock absorbers. The complete rear axle unit, including the transmission and suspension, is derived from the DT-02 chassis, offering enhanced handling and robustness.



Figure 1.1: The fully assembled TAMIYA 1/10 RC Hornet EVO. buggy.

2. SAFETY INFORMATION

Please read and understand all instructions before beginning assembly. Adult supervision is required if a child assembles the model.

- **Tools and Injury Prevention:** Assembly involves tools, including knives. Exercise extreme caution to prevent injury.
- **Seek Assistance:** If you encounter difficulties during assembly, consult a supervising adult, an experienced RC modeler, or a specialist dealer.
- **Proper Tool Use:** Use tools only for their intended purpose. Incorrect use can lead to injury.
- **Paints and Glues:** If using paints and/or glues (not included in the kit), always follow the manufacturer's instructions and safety warnings for those products.
- **Choking Hazard:** Keep the kit and its components away from small children. Prevent children from putting any parts in their mouth or placing plastic bags over their heads.

3. SETUP AND ASSEMBLY

This product is an assembly kit. Detailed step-by-step instructions are provided in the separate printed manual included in the box. This section provides a general overview and highlights key components.

3.1. Required Accessories (Not Included)

To complete and operate your TAMIYA 1/10 RC Hornet EVO., you will need the following items, which are not included in this kit:

- Remote control system with receiver
- Steering servo
- 7.2 V NiMH battery pack
- Compatible battery charger
- TAMIYA PS color paint for polycarbonate bodies (for painting the unpainted body)

3.2. Chassis and Suspension Assembly

The Hornet EVO. features a robust 2WD bathtub chassis. The rear axle unit, including the transmission and suspension, is based on the DT-02 chassis, providing a modern and durable setup. The independent suspension and oil pressure shock absorbers contribute to improved handling.



Figure 3.1: Underside view of the Hornet EVO. chassis, highlighting the layout of components.



Figure 3.2: Detail of the front independent suspension.



Figure 3.3: Detail of the rear motor and DT-02 based transmission.

3.3. Body Preparation

The polycarbonate body comes unpainted, allowing for custom finishes. Tamiya provides a revised decorative sticker sheet for the EVO. version. Ensure the body is clean and dry before applying paint and decals according to the included instructions.



Figure 3.4: Side view of the Hornet EVO. body with applied decals.

4. OPERATING YOUR RC HORNET EVO.

Once assembly is complete and all required accessories are installed, your Hornet EVO. is ready for operation. Always ensure your battery is fully charged and your remote control is properly paired with the receiver.

4.1. Battery Installation

The battery compartment is designed to securely hold a 7.2V NiMH battery pack. Ensure the battery is correctly oriented and secured before closing the compartment.



Figure 4.1: Battery compartment with securing mechanism.

4.2. Remote Control and Steering

Connect your steering servo and ESC (Electronic Speed Controller) to the receiver as per the instructions provided with your remote control system. Calibrate your remote control for proper throttle and steering response. The Hornet EVO. features a 540 brushed motor for reliable power.

4.3. Driving Environment

Operate your RC vehicle in open, safe areas away from people, pets, and obstacles. Avoid driving in wet conditions or through deep puddles, as this can damage electronic components. The knobby rear tires and ribbed front tires are designed for various off-road surfaces.



Figure 4.2: Front (left) and rear (right) tire designs.

5. MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your TAMIYA Hornet EVO.

- **Cleaning:** After each use, especially in dusty or dirty conditions, clean the chassis and body. Use a soft brush or compressed air to remove debris from moving parts.
- **Inspecting Components:** Periodically check all screws, nuts, and linkages for tightness. Ensure the suspension components, including the oil pressure shock absorbers, are functioning smoothly.
- **Gearbox and Drivetrain:** Inspect the DT-02 based rear transmission for any signs of wear or damage. The kit includes ball bearings, which require less maintenance than bushings but should still be checked for smooth rotation.
- **Tires:** Check tires for wear and tear. Replace if significantly damaged or worn to maintain traction.
- **Electronics:** Ensure all wiring connections are secure and free from damage. Keep the motor and ESC free from excessive dirt.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your RC Hornet EVO.

6.1. No Power or Intermittent Power

- **Battery Check:** Ensure the battery is fully charged and properly connected.
- **Connections:** Verify all electrical connections (battery to ESC, ESC to motor, ESC to receiver) are secure.

- **ESC Function:** Confirm the Electronic Speed Controller (ESC) is powered on and functioning correctly. Note: While the product description states an ESC is included, some users have reported that it may not be present in all kits. Please verify your kit contents upon receipt. If an ESC is missing, you will need to purchase one separately.

6.2. Steering Issues

- **Servo Connection:** Check that the steering servo is correctly connected to the receiver and is receiving power.
- **Linkages:** Inspect steering linkages for obstructions or damage. Ensure they move freely.
- **Remote Control:** Verify your remote control's steering trim and settings are correctly adjusted.

6.3. Vehicle Not Moving or Poor Performance

- **Motor Function:** Check if the motor is spinning freely. Listen for unusual noises from the gearbox.
- **Gear Mesh:** Ensure the motor pinion gear and spur gear have proper mesh.
- **Drivetrain Obstructions:** Check for any debris or foreign objects obstructing the wheels or drivetrain components.
- **Rear Axles:** Some users have reported issues with rear axles on similar models. If experiencing consistent issues with the rear wheels or drivetrain, inspect the axles for wear or damage. Aftermarket axles may be an option for enhanced durability.

7. SPECIFICATIONS

Feature	Detail
Model Number	TAM58742
Scale	1/10
Chassis Type	2WD Bathtub Frame (DT-02 based rear)
Motor	540 Brushed Motor
Suspension	Independent, Oil Pressure Shock Absorbers
Bearings	Full Ball Bearings
Body Material	0.7mm Thick Polycarbonate (unpainted)
Product Dimensions	19.29 x 13.19 x 4.33 inches (49 x 33.5 x 11 cm)
Item Weight	1 pound (0.45 kg)
Manufacturer Recommended Age	14 months and up (Note: Assembly requires adult supervision)
Release Date	December 20, 2024

8. WARRANTY INFORMATION

Specific warranty details for the TAMIYA 1/10 RC Hornet EVO. (Model TAM58742) are not provided within this instruction manual. For comprehensive warranty information, including terms, conditions, and duration, please refer to the official TAMIYA website or contact your authorized TAMIYA dealer.

9. CUSTOMER SUPPORT

Should you require further assistance with assembly, operation, parts, or any other inquiries regarding your TAMIYA 1/10

RC Hornet EVO., please contact TAMIYA customer support or your local authorized TAMIYA dealer. Contact information can typically be found on the official TAMIYA website or on the product packaging.
For additional resources and community support, consider visiting official TAMIYA forums or reputable RC hobbyist websites.

