

[Manuals.plus](#) /

› [TAMIYA](#) /

› TAMIYA XV-02 PRO 1/10 R/C Chassis Kit Instruction Manual

TAMIYA 58707

TAMIYA XV-02 PRO 1/10 R/C Chassis Kit Instruction Manual

Model: 58707 | Brand: TAMIYA

1. INTRODUCTION

This manual provides essential information for the assembly, operation, and maintenance of your TAMIYA XV-02 PRO 1/10 R/C Chassis Kit. The XV-02 PRO is a high-performance 1/10 scale radio-controlled chassis designed for off-road rally applications, featuring a robust shaft-driven 4WD system.

Key features of the XV-02 PRO chassis include a front mid-ship motor placement, ensuring equal length front and rear propeller shafts for balanced power delivery. The kit incorporates newly designed components such as the bathtub frame chassis, chassis cover, and caster blocks with a 6-degree caster angle. Long aluminum dampers are utilized at both the front and rear for superior suspension performance. A polycarbonate chassis cover with integrated wheel well liners helps protect internal components from dirt and debris. The suspension arms and front uprights are based on the proven XV-01 chassis kit design. The chassis also features a longitudinal battery pack position for optimal weight distribution and balance.



Figure 1.1: Overview of the TAMIYA XV-02 PRO 1/10 R/C Chassis Kit. This image displays the fully assembled chassis without a body, highlighting the internal layout of the electronics, motor, battery compartment, and suspension components.

2. SETUP AND ASSEMBLY

The TAMIYA XV-02 PRO is a chassis kit that requires assembly. Please refer to the detailed assembly manual included in your kit for step-by-step instructions. This section provides general guidance on key setup aspects.

2.1 Required Components (Sold Separately)

- R/C System (Transmitter, Receiver, Steering Servo)
- Electronic Speed Controller (ESC)
- Motor
- Battery Pack and Compatible Charger
- R/C Car Body, Paint, and Tools for Assembly

2.2 Differential Gear Adjustment

The kit includes two 39T differential gears and one 40T differential gear, allowing for adjustment of the front and rear drive balance. To bias the drive balance towards the front, use the 39T gear (with a 15T pinion gear) on the front axle and the 40T gear (with a 15T pinion gear) on the rear axle. Conversely, to bias the drive balance towards the rear, install the 40T gear on the front and the 39T gear on the rear.

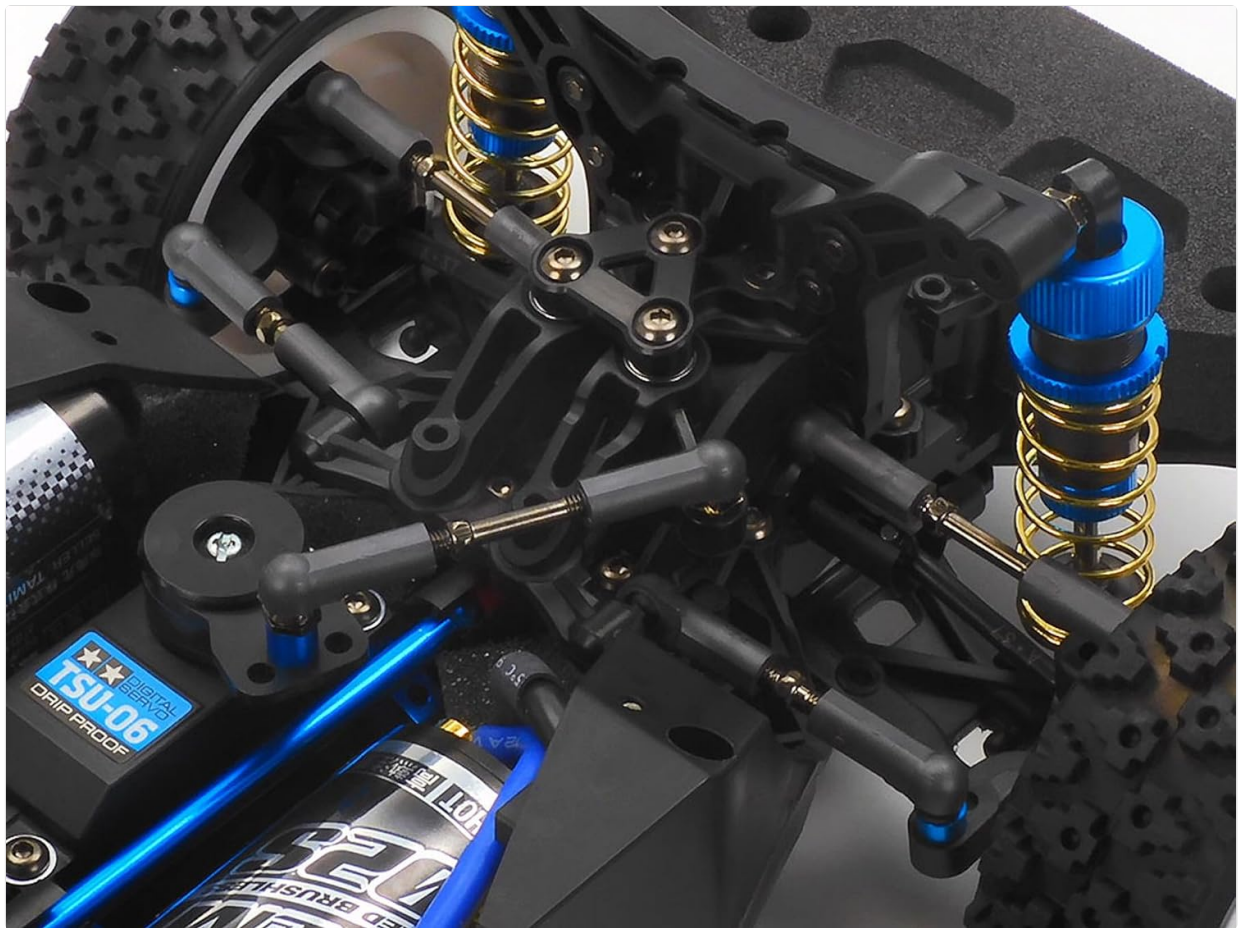


Figure 2.1: Detail of the front suspension and steering linkage. Proper assembly and adjustment of these components are crucial for precise steering control.

2.3 Electronics and Battery Installation

Install the motor, ESC, receiver, and steering servo according to the assembly manual. The chassis features a longitudinal battery pack position in the center-left for optimal balance. Ensure all wiring is neatly routed and secured to prevent interference with moving parts.

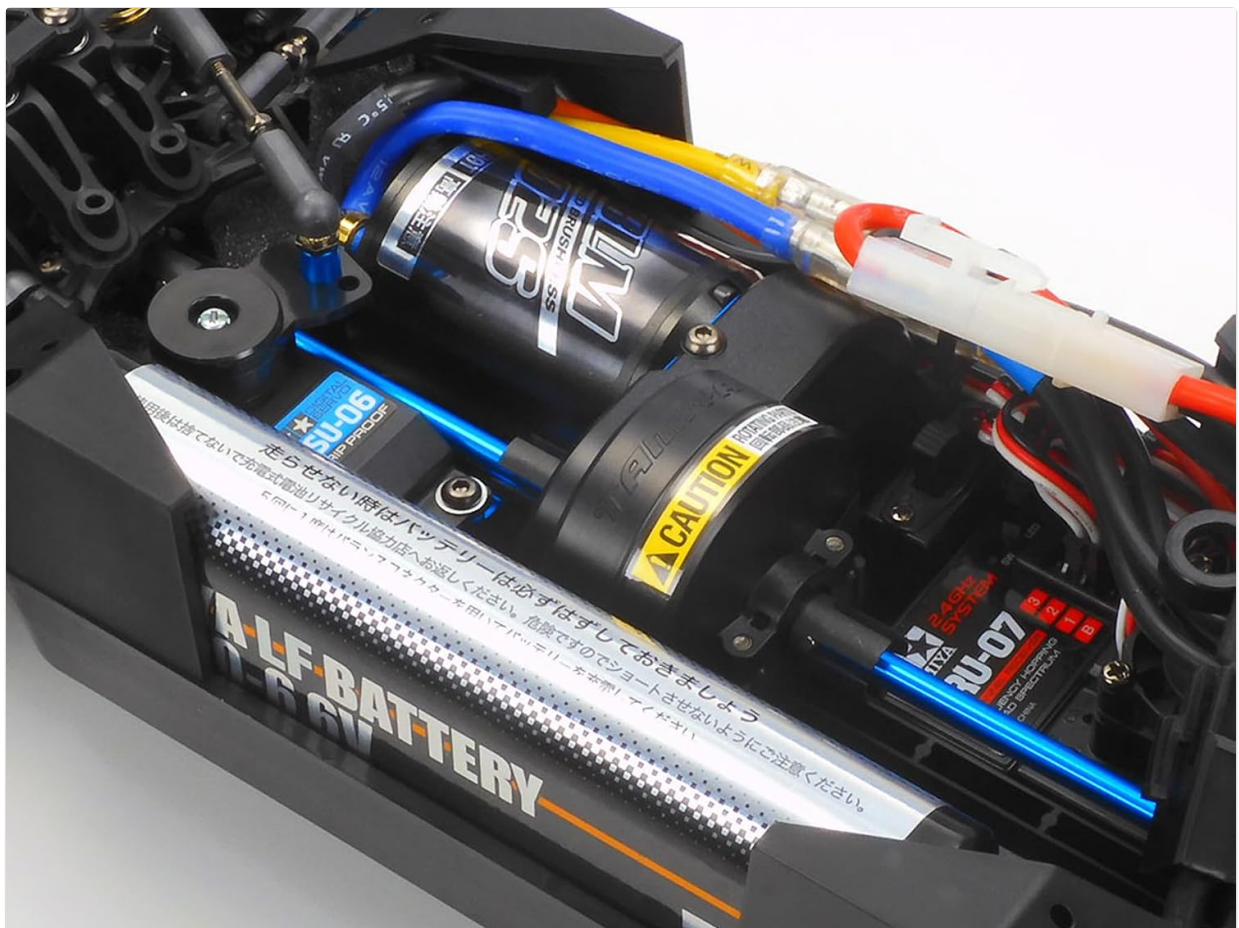


Figure 2.2: View of the internal electronics and battery compartment. This shows the placement of the motor, ESC, receiver, and the longitudinal battery position for balanced performance.

2.4 Chassis Protection

The polycarbonate chassis cover with wheel well liners is designed to minimize the ingress of dirt and dust into the chassis. Ensure it is properly fitted and secured after installing all components.

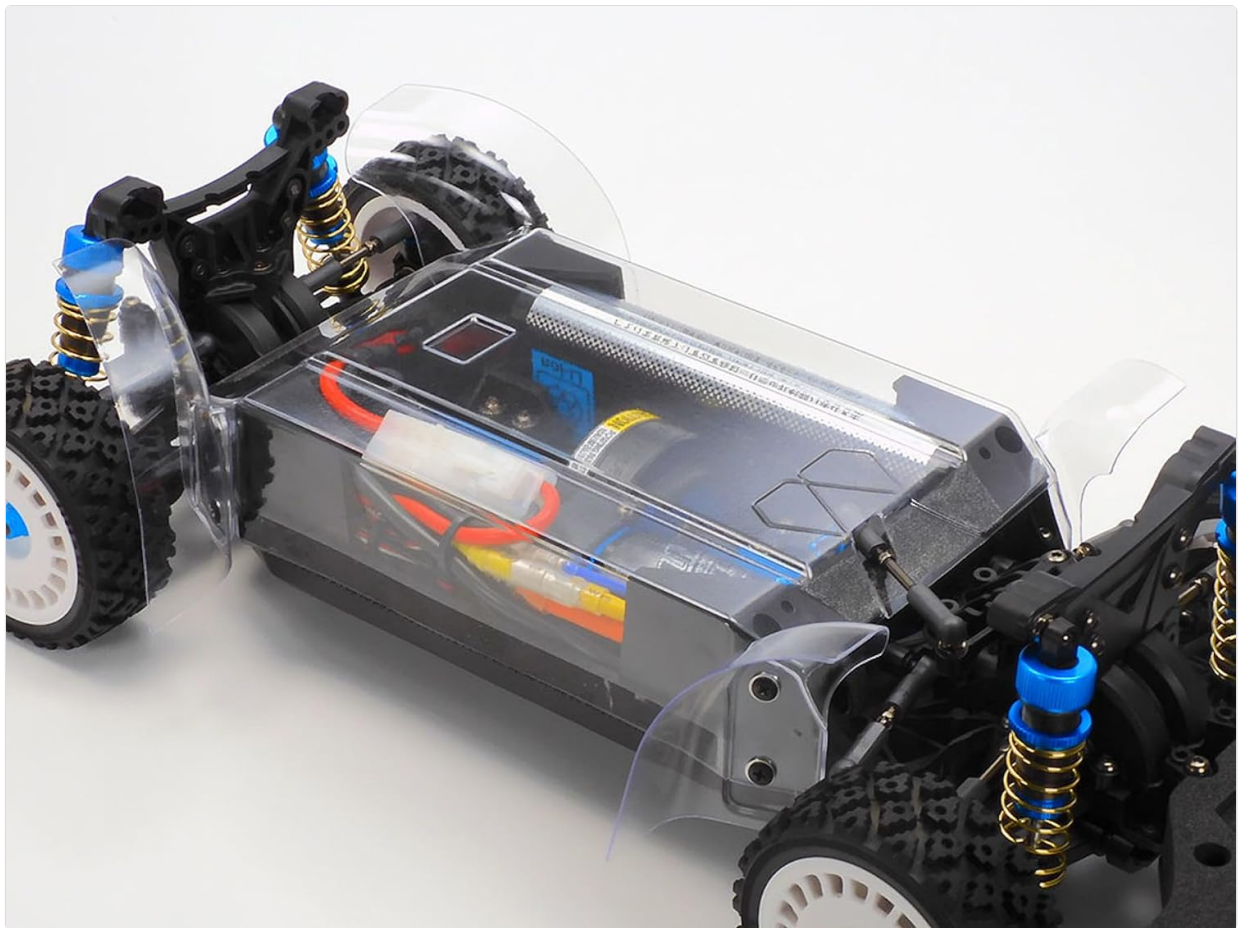


Figure 2.3: The chassis with its clear polycarbonate protective cover installed. This cover helps shield internal components from environmental elements during operation.

3. OPERATING INSTRUCTIONS

Before operating your TAMIYA XV-02 PRO, ensure all components are correctly installed and secured. Always operate your R/C vehicle in a safe and responsible manner.

3.1 Pre-Run Checks

- **Battery:** Ensure the battery pack is fully charged and securely installed.
- **Connections:** Verify all electrical connections are firm and correct.
- **Steering Trim:** Check and adjust the steering trim on your transmitter so the front wheels are straight when the steering wheel is centered.
- **Function Test:** Perform a brief function test to ensure steering and throttle respond correctly to transmitter inputs.

3.2 Driving Tips

- **Throttle Control:** Apply throttle smoothly, especially on loose surfaces, to maintain traction and control.
- **Steering:** Practice smooth steering inputs. Over-steering can lead to loss of control, particularly at high speeds or on uneven terrain.
- **Braking:** Use gentle braking to slow down. Sudden, hard braking can cause the vehicle to spin out.
- **Off-Road Operation:** The XV-02 PRO is designed for off-road use. Be mindful of obstacles and rough terrain. Avoid deep water or excessively muddy conditions unless the electronics are specifically waterproofed.

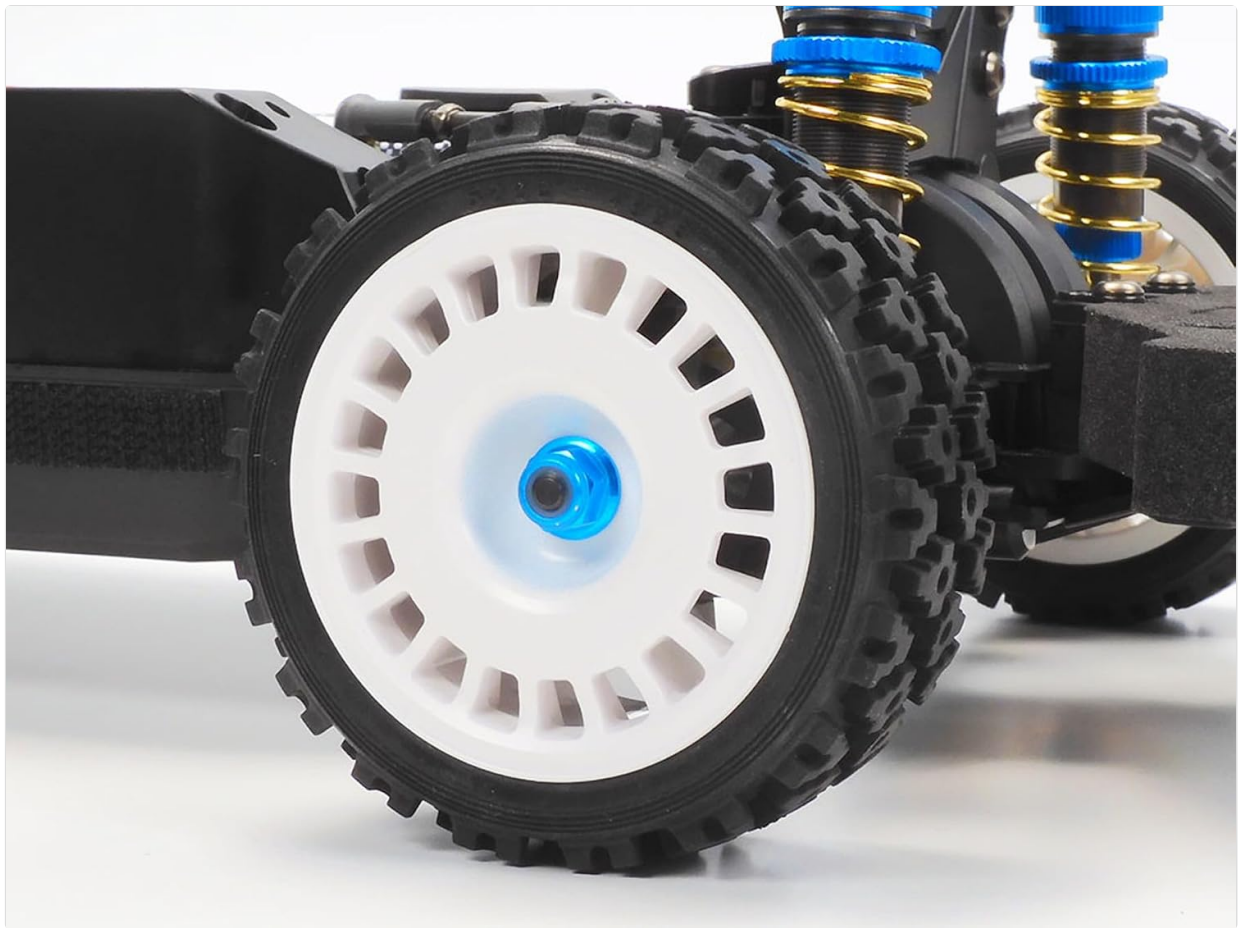


Figure 3.1: Close-up of the rally block tires mounted on a white dish wheel. These tires are designed to provide optimal grip on various off-road surfaces.

4. MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your TAMIYA XV-02 PRO chassis. Perform these checks after each run or periodically, depending on usage.

4.1 Cleaning

- Remove dirt, dust, and debris from the chassis, suspension components, and drivetrain using a soft brush or compressed air.
- Clean the motor and ESC cooling fins to ensure efficient heat dissipation.

4.2 Inspection

- **Screws and Fasteners:** Check all screws and fasteners for tightness. Re-tighten as necessary.
- **Suspension:** Inspect suspension arms, linkages, and dampers for damage or excessive wear. Ensure smooth movement.
- **Drivetrain:** Check differential gears, propeller shafts, and universal joints for wear or damage. Ensure smooth rotation.
- **Tires and Wheels:** Inspect tires for wear or punctures and wheels for cracks.

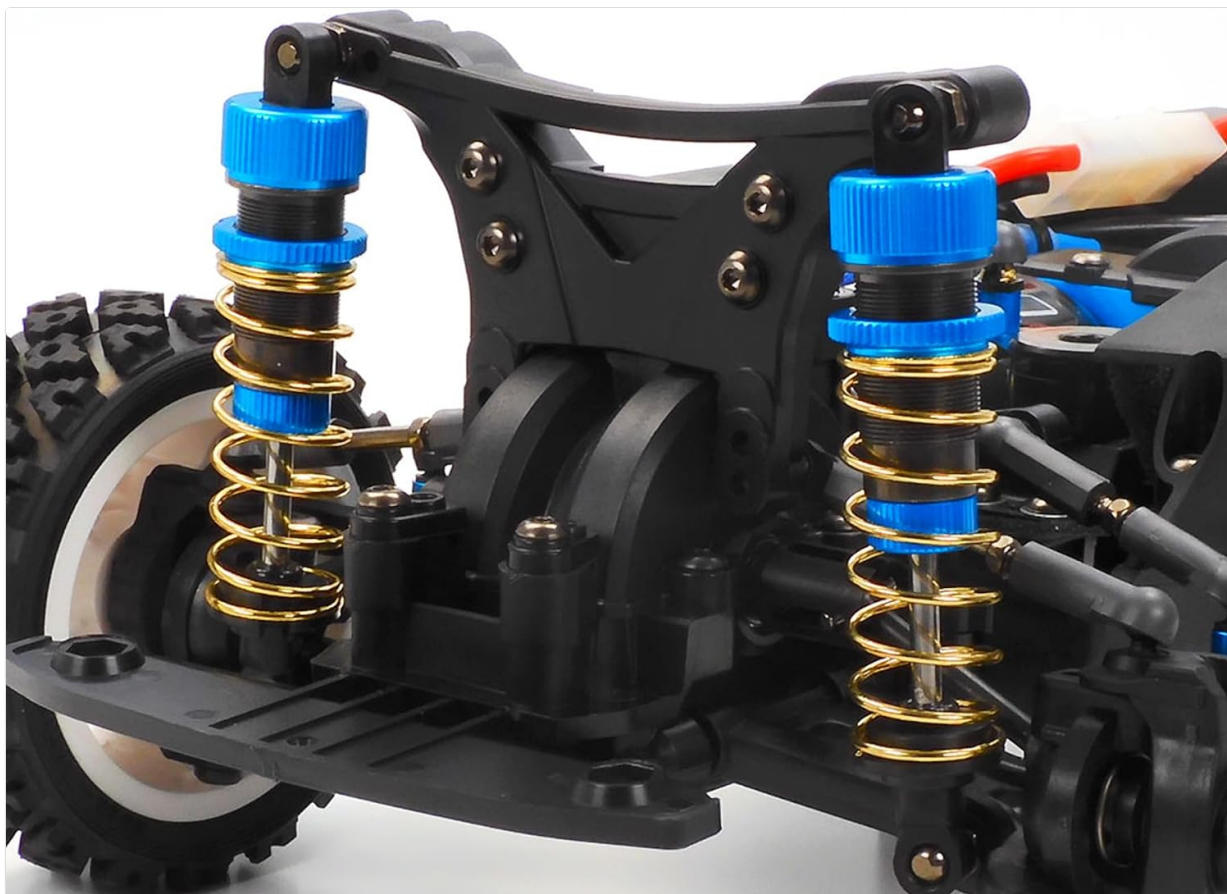


Figure 4.1: Detailed view of the rear suspension and long aluminum dampers. Regular inspection of these components ensures optimal handling and shock absorption.

4.3 Lubrication

- Apply appropriate grease or oil to moving parts as specified in the assembly manual, such as gearboxes and universal joints.
- Do not over-lubricate, as this can attract dirt.

4.4 Battery Care

- Always follow the manufacturer's instructions for charging, discharging, and storing your battery pack.
- Never leave charging batteries unattended.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your TAMIYA XV-02 PRO. For more detailed troubleshooting, refer to the comprehensive assembly manual or contact TAMIYA support.

- **Vehicle Not Responding:**

- Check battery charge in both the vehicle and transmitter.
- Ensure all connections are secure (battery, ESC, receiver, servo).
- Verify the R/C system is properly bound and powered on.

- **Poor Steering Response:**

- Check steering servo connection and functionality.
- Inspect steering linkages for binding or damage.
- Adjust steering trim on the transmitter.

- **Motor Not Running or Running Intermittently:**

- Check motor and ESC connections.
- Ensure the ESC is properly calibrated with the transmitter.
- Inspect motor for physical damage or debris.

- **Unusual Noises from Drivetrain:**

- Inspect gears (pinion, spur, differential) for wear or foreign objects.
- Check for loose components in the drivetrain.

6. SPECIFICATIONS

Feature	Specification
Model Number	58707
Brand	TAMIYA
Scale	1/10
Chassis Type	XV-02 PRO (Shaft-Driven 4WD)
Product Dimensions	5.12 x 18.5 x 8.46 inches
Item Weight	3.99 ounces
Recommended Age	14 months - 14 years
Batteries Required	1 Product Specific battery (sold separately)
Included Components	Rally Block Tires, Wheels

7. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the official documentation provided by TAMIYA with your chassis kit. Warranty terms and conditions may vary by region and retailer.

For technical support, spare parts, or further assistance, please contact TAMIYA customer service or visit their official website. Keep your purchase receipt and model number handy when seeking support.