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› TAMIYA Toyota Land Cruiser 80 Car Model Kit (1:24 Scale) - Instruction Manual

TAMIYA 24107

TAMIYA Toyota Land Cruiser 80 Car Model Kit - Instruction Manual

Model: 24107 | Scale: 1:24

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your TAMIYA Toyota Land Cruiser 80 Car Model Kit. The Toyota Land Cruiser 80 VX Limited, redesigned in October 1989, is renowned for its robust off-road capabilities, featuring a full ladder frame and a full-time 4WD system with coil spring damped suspension. This model kit accurately reproduces these features, offering both intricate detail and functional elements for an engaging building and operating experience.



Figure 1: TAMIYA Toyota Land Cruiser 80 Model Kit (1:24 Scale)

2. SETUP AND ASSEMBLY

The TAMIYA Toyota Land Cruiser 80 model kit requires assembly. Follow the included manufacturer's instructions for detailed step-by-step guidance. Key assembly points include:

- **Chassis Assembly:** Construct the ladder frame chassis, including the front 3-link and rear 5-link suspension components.
- **Engine and Hood:** The hood is molded with clear plastic to allow viewing of the inline 6-cylinder turbodiesel engine. The hood is detachable even after assembly.
- **Wheel and Tire Installation:** Attach the solid synthetic rubber tires, which feature realistic tread patterns.
- **Body Shell:** The distinctive form of the Land Cruiser is richly rendered. Metal-plated parts are included to depict the front grille and side mirrors.
- **Decals:** Apply the FMS decals and license plate decals provided in the kit to enhance the model's appearance.
- **Remote Control Preparation:** Install batteries into the remote control unit.

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Video 1: Overview of the Tamiya Toyota Land Cruiser 80 model, showing included decals, remote control, and basic features like lights and hood opening. This video demonstrates the initial setup and some operational aspects.

3. OPERATING INSTRUCTIONS

Your TAMIYA Toyota Land Cruiser 80 is controlled via a compact remote control unit. Familiarize yourself with the controls for optimal performance.

- **Power On/Off:** The model features an internal power switch, accessible by opening the hood. Disconnect the battery when not in use.
- **Steering:** Use the steering wheel on the remote control to direct the vehicle left or right.
- **Throttle:** Use the trigger on the remote control for forward and reverse movement.
- **Lighting Control:** The 4-channel remote allows control over the vehicle's lights. This includes headlights, roof-mounted lights, and hazard lights. Lights can be toggled between low, high, and hazard modes.
- **Two-Speed Transmission:** The model is equipped with a two-speed transmission (high and low gear), switchable via a dedicated control on the remote. This allows for versatile driving across different terrains.

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Video 2: Demonstrates various features of the Land Cruiser LC80 model, including opening doors, hood, and tailgate, as well as the functionality of the lights and interior details. This video highlights the interactive elements of the model.

4. FEATURES AND COMPONENTS

- **Scale:** 1:24 scale model, offering a detailed replica of the Toyota Land Cruiser 80.
- **Body Shell:** Features a Toyota-authorized LC80 body shell with tough lines and a quick-release structure for easy access to internal components.
- **Chassis:** Equipped with an FCX18 chassis, providing excellent strength and durability. Includes a metal beam for stable support, essential for off-road performance.
- **Suspension:** Front 3-link and rear 5-link coil spring damped suspension system with metal hydraulic shock absorbers for realistic driving posture and performance.
- **Axles:** Features portal axles, effectively increasing ground clearance to 35mm for superior off-road capability.
- **Tires:** Solid synthetic rubber tires with foam inserts and beadlock wheels. The tire softness is upgraded by 35%, and grip is increased by 30% for enhanced traction.
- **Lighting System:** Advanced remote-controlled lighting includes headlights, roof-mounted lights, and hazard lights with adjustable brightness.
- **Interior:** Detailed interior with a cockpit and driver set, adding to the model's realism.
- **Battery:** Powered by a 900mAh LiPo battery, offering extended run times.
- **Transmission:** Two-speed transmission allows switching between high and low modes of play with a single key.
- **Metal Components:** Includes metal links and a metal steering rod for improved durability and performance.
- **Accessories:** Comes with a roof luggage rack (increasing loading space and enhancing appearance), original personalized stickers, a hitch, screwdriver, and Allen key.
- **Color Options:** Available in three color options: blue, yellow, and silver.

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Video 3: Showcases the FMS 1/18 RC Crawler FCX18 RTR Land Cruiser, highlighting its robust chassis, portal axles,

hydraulic shocks, tire upgrades, and various accessories. The video also demonstrates the model's performance in diverse terrains and available color options.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your model kit:

- **Cleaning:** After each use, especially after off-road driving, clean the model to remove dirt, dust, and debris. Use a soft brush or cloth. Avoid excessive water, especially around electronic components.
- **Battery Care:** Always disconnect the battery after use. Store the LiPo battery in a cool, dry place and follow all safety guidelines for LiPo battery charging and storage.
- **Lubrication:** Periodically check and lubricate moving parts such as gears and bearings as recommended by the manufacturer's specific instructions.
- **Inspection:** Regularly inspect all screws, links, and suspension components for looseness or damage. Tighten or replace as necessary.
- **Tires:** Check tires for wear and tear. Ensure beadlock rings are secure.

6. TROUBLESHOOTING

- **Model Not Responding:**
 - Ensure the battery is fully charged and properly connected.
 - Check if the remote control batteries are installed correctly and have sufficient charge.
 - Verify that both the model and remote control are powered on and properly paired.
- **Lights Not Working:**
 - Check the connections of the lighting system.
 - Ensure the remote control's lighting function is activated.
- **Poor Performance/Reduced Speed:**
 - The battery might be low; recharge it.
 - Inspect for any obstructions in the drivetrain or wheels.
 - Check for loose connections or damaged components.
- **Steering Issues:**
 - Check the servo connections and ensure the steering rod is intact.
 - Adjust steering trim on the remote control if the vehicle pulls to one side.

7. SPECIFICATIONS

Feature	Detail
Brand	TAMIYA

Feature	Detail
Model Name	FBA_24107-000 (Toyota Land Cruiser 80)
Scale	1:24 Scale
Material Type	Plastic
Item Dimensions (L x W x H)	15.51 x 9.8 x 3.43 inches
Item Weight	1.5 Pounds
Included Components	Ladder frame chassis, front 3-link and rear 5-link suspension, solid synthetic rubber tires, metal-plated parts, hood molded with clear plastic
Additional Features	Hood molded with clear plastic for engine view
Age Range (Description)	Adult
Color	Clear (referring to the plastic body for painting)

8. WARRANTY AND SUPPORT

As a model kit, specific warranties typically apply to manufacturing defects of individual components rather than the assembled product. Please refer to the warranty information provided by TAMIYA or your retailer at the time of purchase for details on coverage and claims. For technical support or inquiries regarding replacement parts, please contact TAMIYA customer service directly or consult their official website.