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› Traxxas 4-Tec 2.0 VXL Race Car Chassis Instruction Manual

Traxxas 83076-4

Traxxas 4-Tec 2.0 VXL Race Car Chassis Instruction Manual

Model: 83076-4

INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your Traxxas 4-Tec 2.0 VXL Race Car Chassis. The 4-Tec 2.0 VXL chassis is designed for high-speed driving, featuring a low-positioned weight for responsive handling and a modular design for ease of maintenance. It includes a waterproof VXL-3s electronic speed control and a Velineon brushless motor, capable of achieving speeds over 70 mph. The chassis is equipped with a TQi 2.4GHz radio system and Traxxas Stability Management (TSM) for enhanced control.

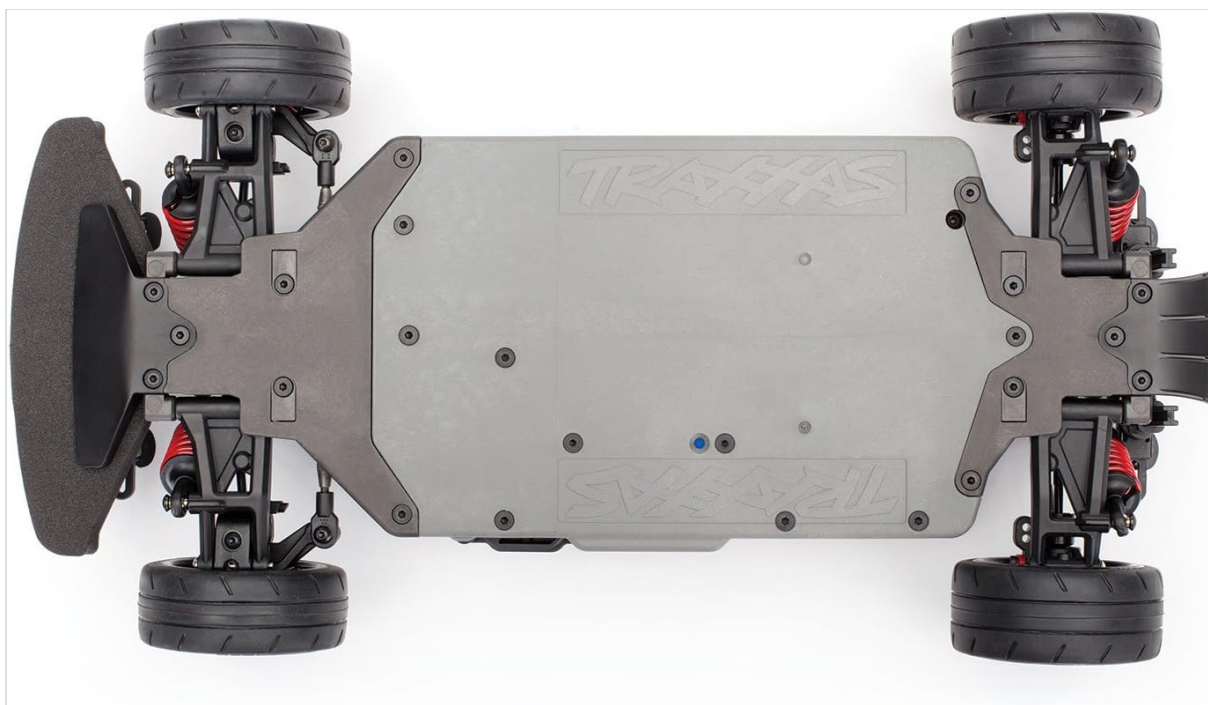


Figure 1: The modular interlocking design of the Traxxas 4-Tec 2.0 VXL chassis, allowing for easy maintenance and component access.

This image illustrates the chassis's modular construction, where components like the front and rear

suspension assemblies can be easily separated from the main chassis, simplifying maintenance and repairs.

WHAT'S INCLUDED

Upon unboxing, verify that the following components are present:

- Traxxas 4-Tec 2.0 VXL Chassis (pre-assembled)
- TQi 2.4GHz Radio System
- Accessory speed pinion gear
- Tool Kit

Note: A body, battery, and charger are sold separately and are required for operation.

SETUP

1. Body Installation

The 4-Tec 2.0 VXL chassis features adjustable body mounts that slide forward, backward, left, and right to accommodate various 200mm touring car bodies. The wheelbase can also be adjusted up to 3mm in either direction for optimal body fitment.

1. Position your chosen 200mm body over the chassis.
2. Adjust the body mounts to align with the body's mounting holes.
3. Secure the body using body clips (not included with chassis).



Figure 2: Overview of the Traxxas 4-Tec 2.0 VXL chassis, showcasing its modular design and components.

This image displays the complete chassis without a body, highlighting the motor, ESC, and suspension

components. The modular design allows for easy access and maintenance.

2. Battery and Charger

Select a compatible battery (e.g., 2S or 3S LiPo) and charger according to the VXL-3s ESC specifications. Refer to the VXL-3s ESC manual for detailed battery compatibility and charging instructions.

1. Install the charged battery into the designated battery compartment on the chassis.
2. Secure the battery using the provided battery strap or clips.

3. Transmitter Setup (TQi 2.4GHz)

The TQi 2.4GHz radio system is factory-adjusted. Ensure fresh batteries are installed in the transmitter.



Figure 3: The TQi 2.4GHz radio transmitter, featuring controls for steering, throttle, and various adjustments.

This image shows the ergonomic design of the TQi 2.4GHz transmitter, including the steering wheel,

throttle trigger, and adjustment dials for steering trim and multi-function settings.

1. Turn on the transmitter first, then the vehicle's ESC.
2. Verify steering and throttle response. Adjust steering trim if the wheels are not centered.
3. Familiarize yourself with the Traxxas Stability Management (TSM) settings, which can be adjusted on the transmitter for varying levels of assistance.

OPERATING INSTRUCTIONS

1. Pre-Run Checks

- Ensure all screws are tight and components are secure.
- Check battery charge level.
- Inspect tires for wear and proper mounting.
- Verify clear operation of steering and throttle.

2. Driving

The 4-Tec 2.0 VXL is designed for high-speed on-road performance. Start with gentle throttle inputs to familiarize yourself with the vehicle's response.

- **Acceleration:** The Velineon brushless motor provides rapid acceleration. Gradual throttle application is recommended to maintain control, especially at high speeds.
- **Steering:** The chassis features a high steering angle option for controlled drifting. Adjustable suspension droop allows for precise tuning in corners.
- **Traxxas Stability Management (TSM):** TSM assists in maintaining control by making lightning-quick corrections to prevent spin-outs and loss of traction, particularly on slippery surfaces or during aggressive cornering. Adjust TSM sensitivity via the transmitter as needed.
- **Braking:** Apply the throttle trigger forward to engage brakes.

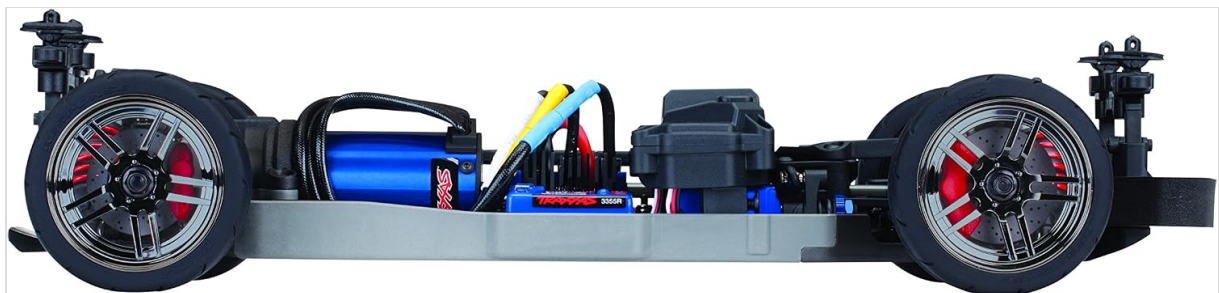


Figure 4: Side view of the chassis, illustrating the low-profile design and placement of the motor and electronics.

This image provides a clear side profile of the Traxxas 4-Tec 2.0 VXL chassis, showing the compact layout of the Velineon motor and VXL-3s ESC, contributing to its low center of gravity.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Traxxas 4-Tec 2.0 VXL chassis.

1. After Each Run

- **Clean the chassis:** Remove dirt, dust, and debris using a soft brush or compressed air.
- **Inspect for damage:** Check suspension components, wheels, and tires for any signs of wear or damage.

- **Check fasteners:** Ensure all screws and nuts are secure.
- **Disconnect and store battery:** Always disconnect the battery from the ESC when not in use.



Figure 5: Detailed view of the rear suspension and wheel assembly.

This image highlights the rear suspension components, including the shock absorbers and drive shafts, which are critical for handling and require regular inspection.

2. Periodic Maintenance

- **Lubrication:** Apply appropriate lubricant to moving parts such as universal joints and bearings.
- **Gear Inspection:** Regularly inspect the spur gear and pinion gear for wear. Replace if teeth show signs of damage. The accessory speed pinion gear can be installed for higher top speeds, but monitor motor and ESC temperatures.
- **Tire Wear:** Aggressive driving can lead to rapid tire wear. Rotate tires or replace them as needed to maintain optimal traction.
- **Suspension:** Check shock absorbers for leaks and ensure smooth operation.



Figure 6: Close-up of the Velineon brushless motor and the spur and pinion gear assembly.

This image provides a detailed view of the Velineon brushless motor connected to the drivetrain via the spur and pinion gears, emphasizing the importance of gear mesh and condition.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to vehicle	Dead battery, loose connection, ESC off	Charge battery, check connections, turn on ESC
No steering response	Transmitter batteries low, servo disconnected/damaged	Replace transmitter batteries, check servo connection, inspect servo
Vehicle runs slowly or cuts out	Low battery, motor/ESC overheating, gear mesh too tight	Charge battery, allow components to cool, adjust gear mesh
Unusual noise from drivetrain	Damaged gears (spur/pinion), debris in drivetrain	Inspect and replace damaged gears, clean drivetrain

SPECIFICATIONS

- **Model Number:** 83076-4
- **Product Dimensions:** 14.94 x 7.9 x 2.43 inches
- **Item Weight:** 3 pounds
- **Scale:** 1/10
- **Motor:** Velineon 3500 Brushless Motor
- **Electronic Speed Control (ESC):** Waterproof VXL-3s
- **Radio System:** TQi 2.4GHz with Traxxas Stability Management (TSM)

- **Top Speed:** 70+ mph (with optional gearing and 3S LiPo battery)
- **Recommended Age:** 14 years and up
- **Manufacturer:** Traxxas



Figure 7: Diagram illustrating the all-wheel-drive (AWD) drivetrain system.

This diagram visually represents the AWD drivetrain, showing the front and rear differentials, center driveshaft, and wheel assemblies, which contribute to the vehicle's traction and handling.

WARRANTY AND SUPPORT

Traxxas provides comprehensive support for its products. For warranty information, technical assistance, or replacement parts, please contact Traxxas customer service directly.

A staff of skilled representatives is available to answer your questions via phone, website, or e-mail. Refer to the official Traxxas website for current contact information and detailed warranty terms.

Online Resources: www.traxxas.com