

Traxxas 8196

Traxxas 8196 TRX-4 Two-Speed Conversion Kit Instruction Manual

Model: 8196

1. INTRODUCTION

The Traxxas 8196 Two-Speed Conversion Kit is designed to add a high/low transmission range to your Traxxas TRX-4 Sport vehicle. This upgrade provides enhanced control and versatility, allowing for ultra-low crawling gear for massive torque and a high-speed gear for trail bashing. This manual provides essential information for proper installation, operation, and maintenance of your new two-speed transmission.

2. SAFETY INFORMATION

Always exercise caution when working with RC vehicles and their components. Keep small parts away from children. Ensure the vehicle's power is disconnected before performing any installation or maintenance. Use appropriate tools and wear safety glasses to prevent injury. Refer to your TRX-4 Sport user manual for additional safety guidelines.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your kit:

- 2-speed conversion kit components
- Assorted hardware (screws, bearings, etc.)



This image displays all components included in the Traxxas 8196 Two-Speed Conversion Kit. It features various gears, a blue micro servo, and assorted hardware necessary for installation.

4. SETUP AND INSTALLATION

This kit requires a 4-channel radio and receiver (sold separately) for full functionality. The installation process involves replacing the existing transmission with the new two-speed unit and connecting the micro servo.

1. **Disassembly:** Carefully remove the existing transmission from your TRX-4 Sport chassis. Refer to your vehicle's original manual for specific disassembly instructions.
2. **Transmission Assembly:** Assemble the new two-speed transmission using the provided components and hardware. Ensure all gears and bearings are correctly seated and lubricated as necessary.
3. **Servo Installation:** Install the micro servo onto the new transmission unit.
4. **Chassis Integration:** Mount the assembled two-speed transmission into the TRX-4 Sport chassis. Secure it with the appropriate screws.
5. **Wiring:** Connect the micro servo cable to Channel 3 on your 4-channel receiver. Ensure all other wiring (motor, ESC, steering servo) is correctly reconnected.
6. **Testing:** Before reassembling the body, power on your vehicle and radio. Test the shifting mechanism to ensure smooth operation between high and low gears.

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This video demonstrates the installation process of a gearbox for a 1/10 scale RC car, similar to the Traxxas TRX-4. It provides visual steps for integrating the new transmission components into the vehicle chassis.

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This video showcases the metal two-speed transmission gearbox with internal gears. It highlights the construction and features of the transmission unit, which is a key component of the conversion kit.

5. OPERATING THE TWO-SPEED TRANSMISSION

Once installed and connected to a 4-channel radio system, the two-speed transmission allows you to switch between two distinct gear ratios:

- **Low Gear:** Provides maximum torque for slow-speed crawling, climbing steep obstacles, and precise control over rough terrain.
- **High Gear:** Offers increased speed for faster driving on flatter surfaces and general trail bashing.

Use the designated switch or button on your 4-channel transmitter to engage either the high or low gear. Practice shifting in a safe, open area to familiarize yourself with the vehicle's response in each mode.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your two-speed transmission:

- **Inspection:** Periodically inspect all gears, bearings, and moving parts for wear or damage.
- **Lubrication:** Apply appropriate RC-grade grease to gears as needed to reduce friction and wear.
- **Cleaning:** Keep the transmission free from dirt, dust, and debris, which can cause premature wear. Use compressed air or a soft brush for cleaning.
- **Fasteners:** Check all screws and fasteners for tightness. Re-tighten any loose hardware to prevent component separation during operation.

7. TROUBLESHOOTING

If you encounter issues with your two-speed conversion kit, refer to the following common problems and solutions:

- **Transmission not shifting:**
 - Ensure the micro servo is correctly connected to Channel 3 of your receiver.
 - Verify that your 4-channel radio is properly configured for the shifting function.
 - Check for any obstructions preventing the servo linkage from moving freely.
- **Kit not fitting original Traxxas transmission:**
 - This kit is specifically designed for the TRX-4 Sport. Ensure your vehicle is the compatible model.
 - Double-check all parts against the kit's instructions to ensure correct assembly steps were followed.
- **Motor or servo issues after installation:**
 - Confirm that all wiring connections are secure and correct, especially the micro servo to Channel 3. Incorrect wiring can lead to component damage.
 - Ensure no wires are pinched or short-circuited during reassembly.

8. SPECIFICATIONS

Brand Name	Traxxas
Model Number	8196

Item Type Name	Two Speed Conversion Kit
Included Components	2-speed conversion kit, hardware
Operation Mode	Manual
Color	Silver
Item Weight	0.26 Pounds
Item Dimensions	8 x 5 x 1.5 inches

9. WARRANTY

This product comes with a 30-day warranty against manufacturer defects. Please retain your proof of purchase for warranty claims.

10. SUPPORT

For further assistance, technical support, or replacement parts, please visit the official Traxxas website or contact their customer service department. Always refer to your vehicle's user manual for exact parts listings and compatibility information.