



Traxxas Ford Fiesta ST Rally Motor Replacement

This is A guide on how to replace a broken Titan 12T 550 motor in a Traxxas ford fiesta ST rally.

Written By: Joshua Bailey



INTRODUCTION

In the situation where the motor in a Traxxas Ford Fiesta ST Rally fails due to natural wear, lack of maintenance, or is somehow defective, the user may need to remove the motor and replace it with a functioning motor. The process will not take long and will only require the use of standard hex keys. This guide will provide a walkthrough of the process of removing the broken motor and installing a new one that can be ordered online or bought at a hobby store. Before using this guide, please disconnect the battery in the chassis and ensure that any dust or dirt will not pose a hazard to components before completing the fix. Any hazardous dirt can often be removed with canned air, a duster, or lightly shaking the dirt off holding the chassis upside down.



TOOLS:

- [2.5 mm Hex Key](#) (1)
- [2mm Hex Key](#) (1)
- [3mm Hex Key](#) (1)



PARTS:

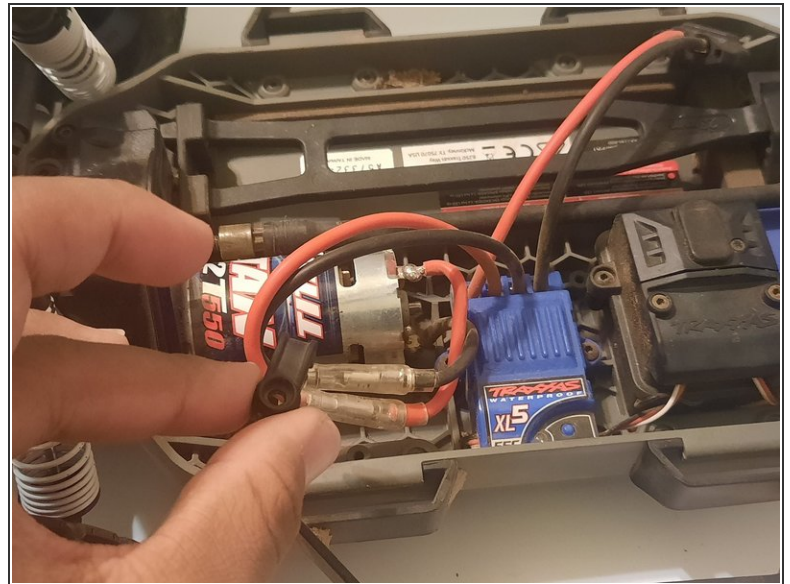
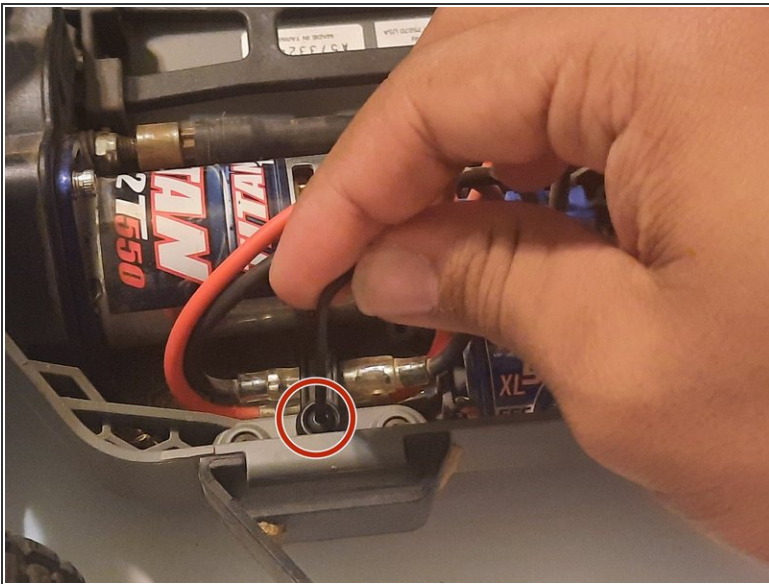
- [Traxxas Titan 12T 550 Motor](#) (1)

Step 1 — Motor



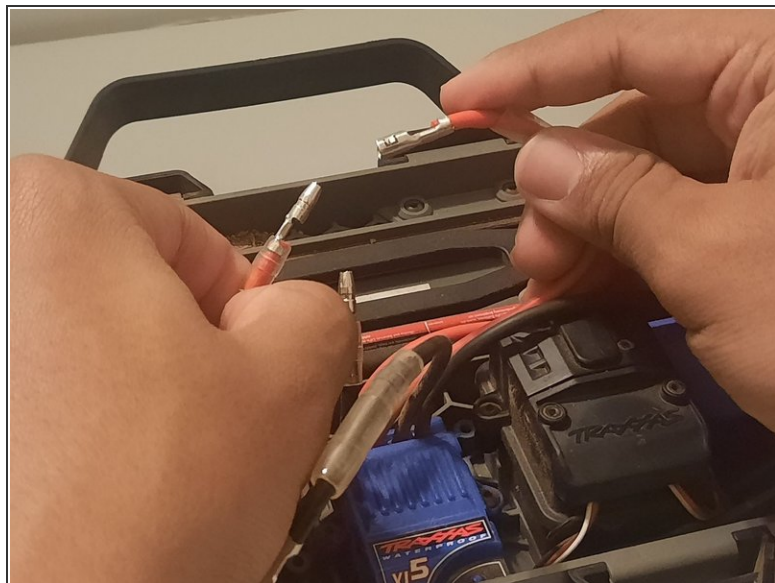
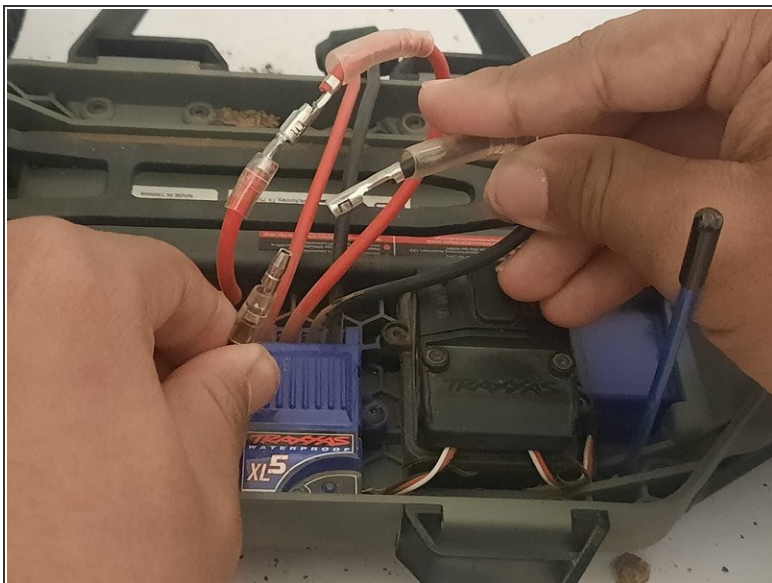
- Remove each of the four pins that hold the scale model shell by pulling them from their posts.
- Remove the shell by lifting it off the chassis using your hands.

Step 2



- Remove the 3x6 mm screw holding the wire retainer in place using a 2.5 mm hex key.
- Remove the wire retainer by lifting it off the chassis.

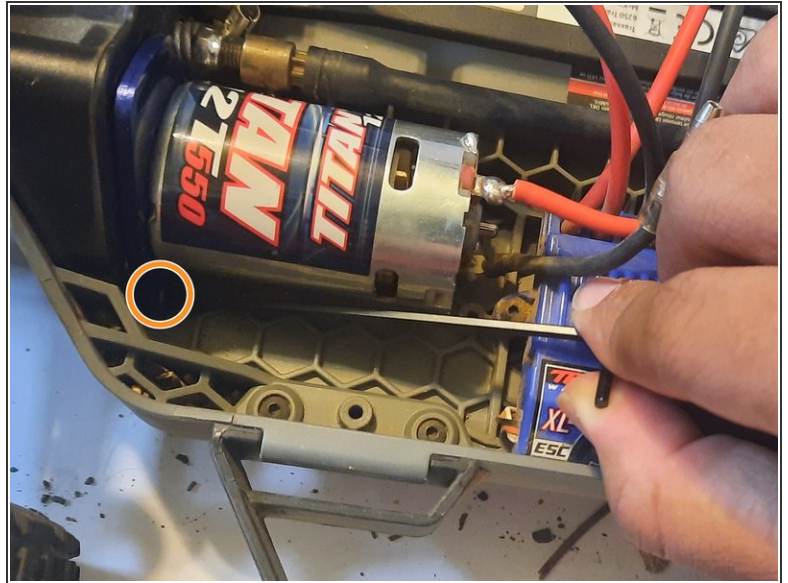
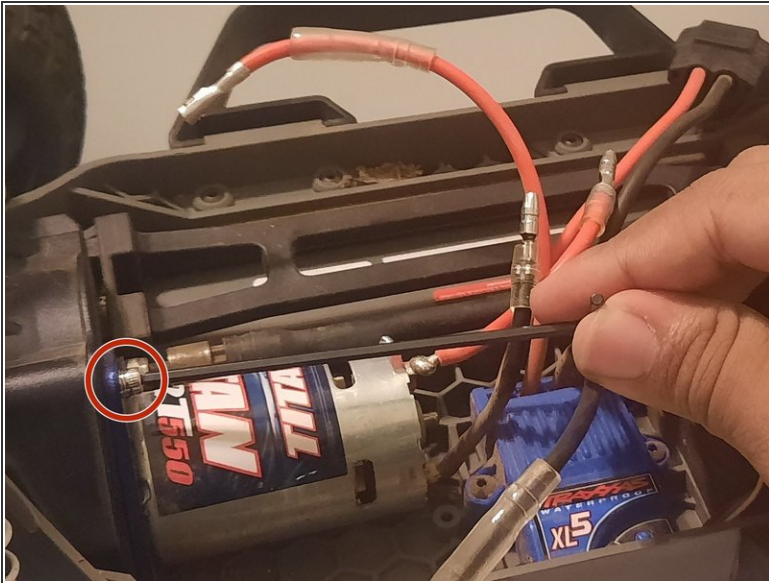
Step 3



⚠ This guide was done without a battery present. Please remember to properly disconnect any batteries before this step as it could cause injury to you or damage to the device.

- Disconnect both power cables attaching the electronic speed control to the motor.

Step 4



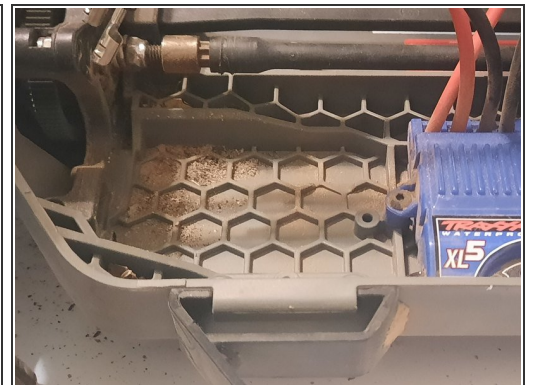
- Remove the 3x15 mm retaining bolt using the 3 mm hex key.
- Remove the 3x6 mm flat head screw holding the motor plate in place with the 3 mm hex key.

Step 5



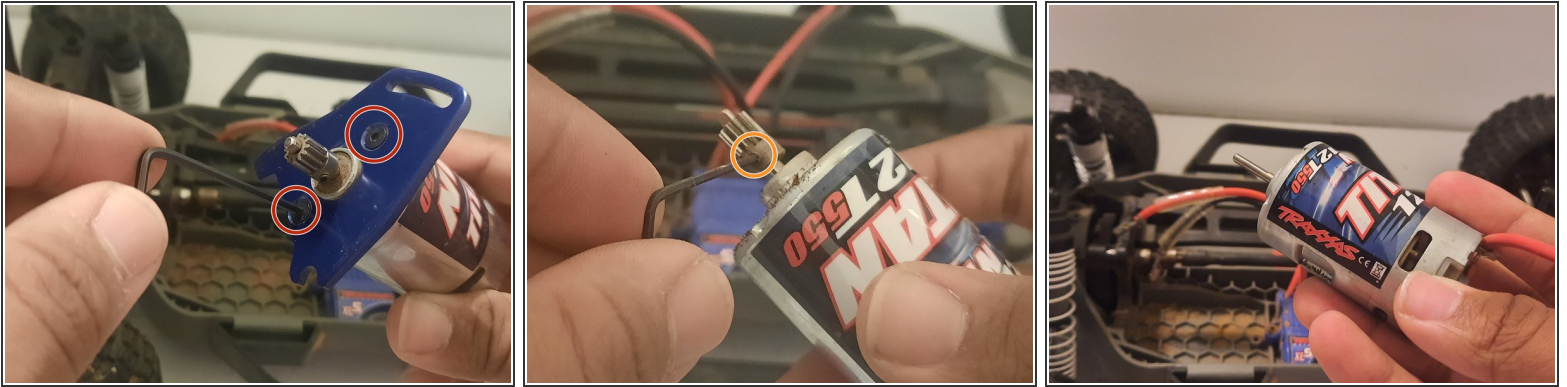
- Use the 2.5 mm hex key to remove the 3x6 mm screw for the gear cover.
- To remove the cover, simply lift it up and off of the chassis.
- ☑ During reassembly, ensure that the motor and gearing line up just how it is in the second photo for this step.

Step 6



- Remove the motor by rotating and lifting it free from the chassis.
- ⓘ You may need to clean the area where the new motor will be to prevent the possibility of debris becoming a problem for a newly replaced engine.

Step 7



- Use the 2.5 mm hex key to loosen the 3x8 mm screws to remove the motor plate.
- Use the 2 mm hex key to loosen the 3 mm grub screw enough to remove the pinion gear from the motor.
- Slide the pinion gear right off the motor's external rod when loose enough.
- ☑ Make sure to have the pinion gear in the exact same area as it was on the replaced motor in order to align with the device's gearing.
- ⓘ This process can also be used to put an even better motor in as a replacement during reassembly.

Follow these instructions in reverse order to reassemble your device using the new/functioning motor.