

Traxxas TRA3060

Traxxas 3060 High-Current Connector Plugs Instruction Manual

Model: TRA3060

INTRODUCTION

The Traxxas 3060 High-Current Connector Plugs are designed to provide a reliable and efficient electrical connection for high-power applications, particularly in remote-controlled (RC) vehicles. These connectors are engineered to minimize voltage loss due to resistance, ensuring optimal performance from your brushless motors and high-density battery packs. This manual provides detailed instructions for the proper installation, use, and maintenance of your Traxxas High-Current Connectors.

SAFETY INFORMATION

Always prioritize safety when working with electrical components and soldering equipment. Failure to follow these safety guidelines can result in injury or damage to equipment.

- **Electrical Safety:** Always disconnect power sources before working on electrical connections. Avoid short circuits.
- **Soldering Iron Safety:** Soldering irons operate at high temperatures. Use caution to prevent burns. Always place the iron in a stable stand when not in use.
- **Ventilation:** Solder fumes can be harmful. Work in a well-ventilated area or use a fume extractor.
- **Eye Protection:** Wear safety glasses to protect your eyes from solder splatter or flying debris.
- **Proper Tools:** Use only appropriate tools for the task.

PACKAGE CONTENTS

Your Traxxas 3060 High-Current Connector Plugs package includes the following components:

- 1x Male Traxxas High-Current Connector Plug
- 1x Female Traxxas High-Current Connector Plug



Image 1: Traxxas 3060 High-Current Connector Plugs package contents.

The image above displays the retail packaging for the Traxxas 3060 connectors. Inside, you will find one male and one female connector, each comprising a plastic housing and gold-plated copper terminals. The packaging also includes a small instruction sheet detailing the tools required and basic soldering steps.

TOOLS NEEDED

Before beginning the installation process, ensure you have the following tools:

- Side cutters or needle-nose pliers
- Wire stripper
- Flat blade screwdriver
- Soldering iron (minimum of 40 watts recommended for efficient heat transfer)
- 60/40 rosin core solder (0.030" to 0.050" diameter)
- Soldering flux (optional, if not using rosin core solder)

These tools are essential for safely and effectively preparing wires and soldering the connector terminals.

INSTALLATION AND SETUP

Follow these steps to properly install the Traxxas High-Current Connectors onto your wires. This process involves soldering, which requires careful attention to detail.

1. **Prepare Wires:** Carefully cut the existing connector from your battery or Electronic Speed Control (ESC) wires, if applicable. Strip approximately 5-7mm (0.2-0.27 inches) of insulation from the end of each wire. Ensure the wire strands are clean and untwisted.

2. **Tin Wires:** Heat your soldering iron to the appropriate temperature. Apply a small amount of solder to the tip of the iron, then touch it to the stripped wire strands until they are coated with a thin layer of solder. This process, known as "tinning," prepares the wire for a strong solder joint.
3. **Prepare Terminals:** The Traxxas connectors include gold-plated copper terminals. Identify the correct terminal (male or female) for each wire based on the connector housing you are assembling. Apply a small amount of solder to the cup or flat area of the terminal where the wire will be attached.
4. **Solder Wires to Terminals:** Place the tinned wire into the tinned terminal. Apply heat from the soldering iron to both the wire and the terminal simultaneously. Once the solder flows and creates a shiny, smooth joint, remove the iron and allow the joint to cool without disturbance. Ensure a solid electrical and mechanical connection. Avoid excessive solder that could prevent the terminal from fitting into the plastic housing.
5. **Insert Terminals into Housing:** Once the soldered connections have cooled completely, carefully insert the terminals into their respective plastic connector housings. The terminals are designed to snap securely into place. Ensure they are fully seated and cannot be pulled out easily. The shrouded wire connections eliminate the need for additional heat shrink tubing.
6. **Verify Polarity:** Double-check that the positive (+) and negative (-) wires are connected to the correct terminals and inserted into the housing with the correct polarity. Traxxas connectors feature reverse-polarity protection, making it virtually impossible to plug them in backwards, but correct wiring is still essential.

It is recommended to practice soldering on scrap wires if you are new to the process to ensure clean and strong connections.

OPERATING GUIDELINES

Using your Traxxas High-Current Connectors is straightforward once installed:

- **Connecting:** Align the male and female connectors, ensuring the correct orientation. The connectors are designed to fit together in only one way due to their reverse-polarity protection. Push them firmly together until they are fully seated.
- **Disconnecting:** Grip both connector bodies firmly and pull them apart. Avoid pulling on the wires, as this can damage the solder joints or the wires themselves.
- **Secure Connection:** The large, textured surfaces on the plug bodies provide an easy grip, and the gold-plated copper terminals ensure a secure, low-resistance connection even after repeated use.

MAINTENANCE

To ensure long-lasting performance from your Traxxas High-Current Connectors, follow these simple maintenance tips:

- **Keep Clean:** Periodically inspect the terminals for dirt, dust, or corrosion. Clean them gently with a soft, dry brush or a cotton swab if necessary.
- **Inspect for Damage:** Before each use, check the connector housings and wires for any signs of physical damage, such as cracks, frayed wires, or bent terminals. Replace damaged connectors immediately.
- **Proper Storage:** Store connectors in a clean, dry environment away from extreme temperatures.

TROUBLESHOOTING

If you encounter issues with your Traxxas High-Current Connectors, consider the following:

- **Poor Connection/Intermittent Power:**

- Check solder joints for "cold" connections (dull, lumpy appearance) or insufficient solder. Re-solder if necessary.
- Ensure terminals are fully seated and snapped into the plastic housing.
- Inspect terminals for corrosion or debris; clean if needed.

- **Connectors Difficult to Insert/Remove:**

- New connectors may be tight initially. They will ease with use.
- Ensure no excess solder is preventing proper fitment of the terminal within the housing.
- Verify correct alignment before attempting to force connection.

- **Connectors Getting Hot:**

- Excessive heat indicates high resistance. Re-check all solder joints for quality.
- Ensure the wire gauge is appropriate for the current draw of your application.
- Verify that the connectors are fully engaged.

SPECIFICATIONS

Model Number:	TRA3060
Product Dimensions:	7 x 0.92 x 1.5 inches (packaging)
Item Weight:	0.986 ounces
Connector Type:	High-Current (Male and Female)
Terminal Material:	Gold-plated copper
Recommended Age:	15 years and up (due to soldering requirement)

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Traxxas products, please refer to the official Traxxas website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Official Traxxas Website: www.traxxas.com