

MODEL 70054-8

The logo for the Traxxas Slash 4x4 is prominently displayed in the center. It features the word "SLASH" in a large, bold, white font with a thick red outline and a black drop shadow. Above the "S" is the number "1/16" in a similar style. Below "SLASH" is the text "4x4" in a red, stylized font with a black outline. The background of the logo area is a dark, grayscale image of a car's front end, showing the grille and headlights, with a sense of motion and speed.

TRAXXAS

OWNER'S MANUAL

INTRODUCTION

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Thank you for purchasing a Traxxas 1/16 scale model. Your new model combines proven Traxxas innovations including F1-inspired, rocker-actuated suspension, waterproof electronics, and a monocoque-style chassis for outstanding handling and incredible speed and power. Your Traxxas model is designed for high-performance driving, with balanced weight distribution, lightweight and high-strength materials, and the precise engineering that is the hallmark of all Traxxas vehicles.

This manual contains the instructions you will need to operate and maintain your model so that you can enjoy it for years to come. We want you to feel confident that you own one of the best-performing models in the market and that it is backed by a team of professionals who aim to provide the highest level of factory support possible. Traxxas models are about experiencing total performance and satisfaction, not just with your model, but also with the company that stands behind it.

We know you're excited about getting your new model on the road or trail, but it's very important that you take some time to read through the Owner's Manual. This manual contains all the necessary setup and operating procedures that allow you to unlock the performance and potential that Traxxas engineers designed into your model. **Even if you are an experienced R/C enthusiast, it's important to read and follow the procedures in this manual.**

Thank you again for going with Traxxas. We work hard every day to assure you the highest level of customer satisfaction possible. We truly want you to enjoy your new model!

FCC Compliance

This device contains a module that complies with the limits for a Class B digital device as described in part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The limits for a Class B digital device are designed to provide reasonable protection against harmful interference in residential settings. This product generates, uses and can radiate radio frequency energy, and, if not operated in accordance with the instructions, may cause harmful interference to radio communications. The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada, Industry Canada (IC)

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: This device may not cause interference, and this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Statement

This equipment complies with radio frequency exposure limits set forth by FCC and Industry Canada for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or bystanders and must not be co-located or operating in conjunction with any other antenna or transmitter.

TQ Radio System

Operation Frequency: 2406~2453 MHz

Maximum Radio Frequency Power: Maximum Peak Power -1 dBm

Traxxas High-Current Connector

Operation Frequency: 13.56 MHz

Maximum Radio Frequency Power: Maximum Peak Power -29.27 dBuA/m @ 10m

Traxxas Support

Traxxas support is with you every step of the way. Refer to the next page to find out how to contact us and what your support options are.



Quick Start

This manual is designed with a Quick Start path that outlines the necessary procedures to get your model up and running in the shortest time possible. If you are an experienced R/C enthusiast, you will find it helpful and fast. Be sure and read through the rest of the manual to learn about important safety, maintenance, and adjustment procedures. Turn to page 9 to begin.



REGISTERING YOUR MODEL

In order to serve you better as our customer, please register your product within 10 days of your purchase online at [Traxxas.com/register](https://www.traxxas.com/register).

[Traxxas.com/register](https://www.traxxas.com/register)

BEFORE YOU PROCEED

Carefully read and follow all instructions in this and any accompanying materials to prevent serious damage to your model. Failure to follow these instructions will be considered abuse and/or neglect.

Before running your model, look over this entire manual and examine the model carefully. If for some reason you decide it is not what you wanted, then do not continue any further. **Your hobby dealer absolutely cannot accept a model for return or exchange after it has been run.**

WARNINGS, HELPFUL HINTS, & CROSS-REFERENCES

Throughout this manual, you'll notice warnings and helpful hints identified by the icons below. Be sure to read them!



An important warning about personal safety or avoiding damage to your model and related components.



Special advice from Traxxas to make things easier and more fun.



Refers you to a page with a related topic.

SUPPORT

If you have any questions about your model or its operation, call the Traxxas Technical Support Line toll-free at: **1-888-TRAXXAS (1-888-872-9927)***

Technical support is available 7 days a week from 8:30am to 9:00pm central time. Technical assistance is also available at Traxxas.com. You may also e-mail customer support with your question at support@Traxxas.com. Join thousands of registered members in our online community at Traxxas.com.

Traxxas offers a full-service, on-site repair facility to handle any of your Traxxas service needs. Maintenance and replacement parts may be purchased directly from Traxxas by phone or online at Traxxas.com. You can save time, along with shipping and handling costs, by purchasing replacement parts from your local dealer.

Do not hesitate to contact us with any of your product support needs. We want you to be thoroughly satisfied with your new model!

REGISTERING YOUR MODEL

In order to serve you better as our customer, please register your product within 10 days of your purchase online at [Traxxas.com/register](https://www.traxxas.com/register).

[Traxxas.com/register](https://www.traxxas.com/register)

Traxxas
6250 Traxxas Way,
McKinney, Texas 75070
Phone: 972-549-3000
Toll-free 1-888-TRAXXAS

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Traxxas.com
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*Toll-free support is available to U.S. residents only.

SAFETY PRECAUTIONS



All instructions and precautions outlined in this manual should be strictly followed to ensure safe operation of your model.



This model is not intended for use by children under 14 years of age without the supervision of a responsible and knowledgeable adult.



No previous experience with radio controlled models is required. Models require a minimum of setup, maintenance, or support equipment.

All of us at Traxxas want you to safely enjoy your new model. Operate your model sensibly and with care, and it will be exciting, safe, and fun for you and those around you. Failure to operate your model in a safe and responsible manner may result in property damage and serious injury. The precautions and instructions provided or available for this product(s) should be strictly followed to help ensure safe operation. You alone must see that the instructions are followed and the precautions are adhered to.

Important Points to Remember

- Your model is not intended for use on public roads or congested areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- Never, under any circumstances, operate the model in crowds of people. Your model is very fast and could cause injury if allowed to collide with anyone.
- Because your model is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Since radio interference can cause momentary losses of radio control, always allow a safety margin in all directions around the model in order to prevent collisions.
- The motor, battery, and speed control can become hot during use. Be careful to avoid getting burned.
- Don't operate your model at night, or anytime your line of sight to the model may be obstructed or impaired in any way.
- **Most importantly, use good common sense at all times.**

Speed Control

Your model's electronic speed control (ESC) is an extremely powerful electronic device capable of delivering high current. Please closely follow these precautions to prevent damage to the speed control or other components.

- **Disconnect the battery:** Always disconnect the battery or batteries from the speed control when not in use.
- **Insulate the Wires:** Always insulate exposed wiring with heat shrink tubing to prevent short circuits.

- **Transmitter on First:** Switch on your transmitter first before switching on the speed control to prevent runaways and erratic performance.
- **Don't Get Burned:** The ESC and motor can become extremely hot during use, so be careful not to touch them until they cool. Supply adequate airflow for cooling.
- **Use the Factory-Installed Connectors:** Do not change the battery and motor connectors. Improper wiring can cause fire or damage to the ESC. Please note that modified speed controls can be subject to a rewiring fee when returned for service.
- **No Reverse Voltage:** The ESC is not protected against reverse polarity voltage.
- **No Schottky Diodes:** External schottky diodes are not compatible with reversing speed controls. Using a schottky diode with the XL-5 will damage the ESC and void the 30-day warranty.
- **Using Two Batteries:** When using two batteries, the batteries must be connected in parallel. Never connect two batteries in series, this will cause the ESC to fail. See page 15 for more information.
- **Always** adhere to the minimum and maximum limitations of the speed control as stated in the specifications table in the Owner's Manual. If your ESC operates on two batteries, do not mix battery types and capacities. Use the same voltage and capacity for both batteries. Using mismatched battery packs could damage the batteries and electronic speed control.

Recycling Your Traxxas iD® NiMH Battery

Traxxas strongly encourages you to recycle iD® NiMH batteries when they reach the end of their useful life. **Do not throw your battery in the trash.** All Traxxas iD® NiMH battery packs display the RBRC (Rechargeable Battery Recycling Corporation) icon, indicating they are recyclable. To find a recycling center near you, ask your local hobby dealer or visit www.call2recycle.org.





WARNING! CAUTION! DANGER!

FIRE HAZARD! Your model is able to use LiPo batteries. Charging and discharging batteries has the potential for fire, explosion, serious injury, and property damage if not performed per the instructions. Before use, read and follow all manufacturer's instructions, warnings, and precautions. In addition, Lithium Polymer (LiPo) batteries pose a SEVERE risk of fire if not properly handled per the instructions and require special care and handling procedures for long life and safe operation. LiPo batteries are intended only for advanced users that are educated on the risks associated with LiPo battery use. Traxxas does not recommend that anyone under the age of 18 use or handle LiPo battery packs without the supervision of a knowledgeable and responsible adult. Dispose of used batteries according to the instructions.

Important Warnings for users of Lithium Polymer (LiPo) batteries:

- Your model is able to use LiPo batteries. LiPo batteries have a minimum safe discharge voltage threshold that should not be exceeded. The electronic speed control is equipped with built-in Low-Voltage Detection that alerts the driver when LiPo batteries have reached their minimum voltage (discharge) threshold. It is the driver's responsibility to stop immediately to prevent the battery pack from being discharged below its safe minimum threshold.
- Low-Voltage Detection is just one part of a comprehensive plan for safe LiPo battery use. It is critical to follow all instructions for safe and proper charging, use, and storage of LiPo batteries. Make sure you understand how to use your LiPo batteries. If you have questions about LiPo battery usage, please consult with your local hobby dealer or contact the battery manufacturer. As a reminder, all batteries should be recycled at the end of their useful life.
- ONLY use a Traxxas iD charger to charge Traxxas iD batteries. ONLY use a Lithium Polymer (LiPo) balance charger with a balance adapter port to charge LiPo batteries. Never use NiMH or NiCad-type chargers or charge modes to charge LiPo batteries. DO NOT charge LiPo batteries with a NiMH-only charger. The use of a NiMH or NiCad charger or charge mode will damage LiPo batteries and may cause fire, personal injury, and/or property damage.



- NEVER charge LiPo battery packs in series or parallel. Charging packs in series or parallel may result in improper charger cell recognition and an improper charging rate that may lead to overcharging, cell imbalance, cell damage, and fire.
- ALWAYS inspect your LiPo batteries carefully before charging. Look for any loose leads or connectors, damaged wire insulation, damaged cell packaging, impact damage, fluid leaks, swelling (a sign of internal damage), cell deformity, missing labels, or any other damage or irregularity. If any of these conditions are observed, do not charge or use the battery pack. Follow the disposal instructions included with your battery to properly and safely dispose of the battery.
- DO NOT store or charge LiPo batteries with or around other batteries or battery packs of any type, including other LiPos.
- Store and transport your battery pack(s) in a cool dry place. DO NOT store in direct sunlight. DO NOT allow the storage temperature to exceed 140°F or 60°C, such as in the trunk of a car, or the cells may be damaged and create a fire risk.
- DO NOT disassemble LiPo batteries or cells.
- DO NOT attempt to build your own LiPo battery pack from loose cells.

Charging and handling precautions for all battery types:

- Use the supplied NiMH charger to charge the included battery. DO NOT attempt to charge LiPo batteries or any other type of battery with this charger.
- BEFORE you charge, ALWAYS confirm that the charger settings exactly match the type (chemistry), specification, and configuration of the battery to be charged. DO NOT exceed the maximum manufacturer recommended charge rate.
- DO NOT attempt to charge non-rechargeable batteries (explosion hazard), batteries that have an internal charge circuit or a protection circuit, batteries that have been altered from original manufacturer configuration, or batteries that have missing or unreadable labels, preventing you from properly identifying the battery type and specifications. ALWAYS use a Traxxas iD charger to charge Traxxas iD batteries. DO NOT use a non-Traxxas charger to charge Traxxas iD batteries. It is not recommended, but if you choose to use a non-Traxxas charger or battery, read and follow all of the manufacturer's warnings and instructions.

(continued on next page)

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- DO NOT let any exposed battery contacts or wires touch each other. This will cause the battery to short circuit and create the risk of fire.
- While charging or discharging, ALWAYS place the battery (all types of batteries) in a fire retardant/fire proof container and on a non-flammable surface such as concrete.
- DO NOT charge batteries inside of an automobile. DO NOT charge batteries while driving in an automobile. No cord is supplied. Use a cord long enough to allow the battery to be charged outside of an automobile when using the automobile's auxiliary power socket. If the cord will not reach outside of the automobile, find another power source.
- NEVER charge batteries on wood, cloth, carpet, or on any other flammable material.
- ALWAYS charge batteries in a well-ventilated area.
- REMOVE flammable items and combustible materials from the charging area.
- DO NOT leave the charger and battery unattended while charging, discharging, or anytime the charger is ON with a battery connected. If there are any signs of a malfunction or in the event of an emergency, unplug the charger from the power source and disconnect the battery from the charger.
- DO NOT operate the charger in a cluttered space, or place objects on top of the charger or battery.
- If any battery or battery cell is damaged in any way, DO NOT charge, discharge, or use the battery.
- Keep a Class D fire extinguisher nearby in case of fire.
- DO NOT disassemble, crush, short circuit, or expose the batteries to flame or other source of ignition. Toxic materials could be released. If eye or skin contact occurs, flush with water.
- If a battery gets hot to the touch during the charging process (temperature greater than 110°F / 43°C), immediately disconnect the battery from the charger and discontinue charging.
- Allow the battery pack to cool off between runs (before charging).
- ALWAYS unplug the charger and disconnect the battery when not in use.
- ALWAYS unplug the battery from the electronic speed control when the model is not in use and when it is being stored or transported.
- DO NOT disassemble the charger.
- REMOVE the battery from your model or device before charging.
- DO NOT expose the charger to water or moisture. For indoor use only.
- DO NOT use an adapter of any kind or modify or change the battery plug/connector.
- ALWAYS store battery packs safely out of the reach of children or pets. Children should always have adult supervision when charging and handling batteries.
- Nickel-Metal Hydride (NiMH) batteries must be recycled or disposed of properly.
- Always proceed with caution and use good common sense at all times.

TOOLS, SUPPLIES, AND REQUIRED EQUIPMENT

Your model comes with a set of specialty metric tools. You'll need to purchase other items, available from your hobby dealer, to operate and maintain your model.

SUPPLIED TOOLS AND EQUIPMENT



1.5mm "L" wrench



2.0mm "T" wrench



2.5mm ball driver wrench



4-way wrench



6-cell 2/3A iD NiMH battery



NiMH battery charger with iD



Body clips

REQUIRED EQUIPMENT (SOLD SEPARATELY)



4 AA alkaline batteries



USB-C power adapter and cable



For more information on batteries, see *Use the Right Batteries* on page 13.



Recommended Equipment
These items are not required for the operation of your model, but are a good idea to include in any R/C toolbox:

- Safety glasses
- Traxxas Ultra Premium Tire Glue, Part #6468 (CA glue)
- Hobby knife
- Side cutters and/or needle nose pliers
- Phillips screwdriver
- Soldering iron

DECORATING YOUR MODEL

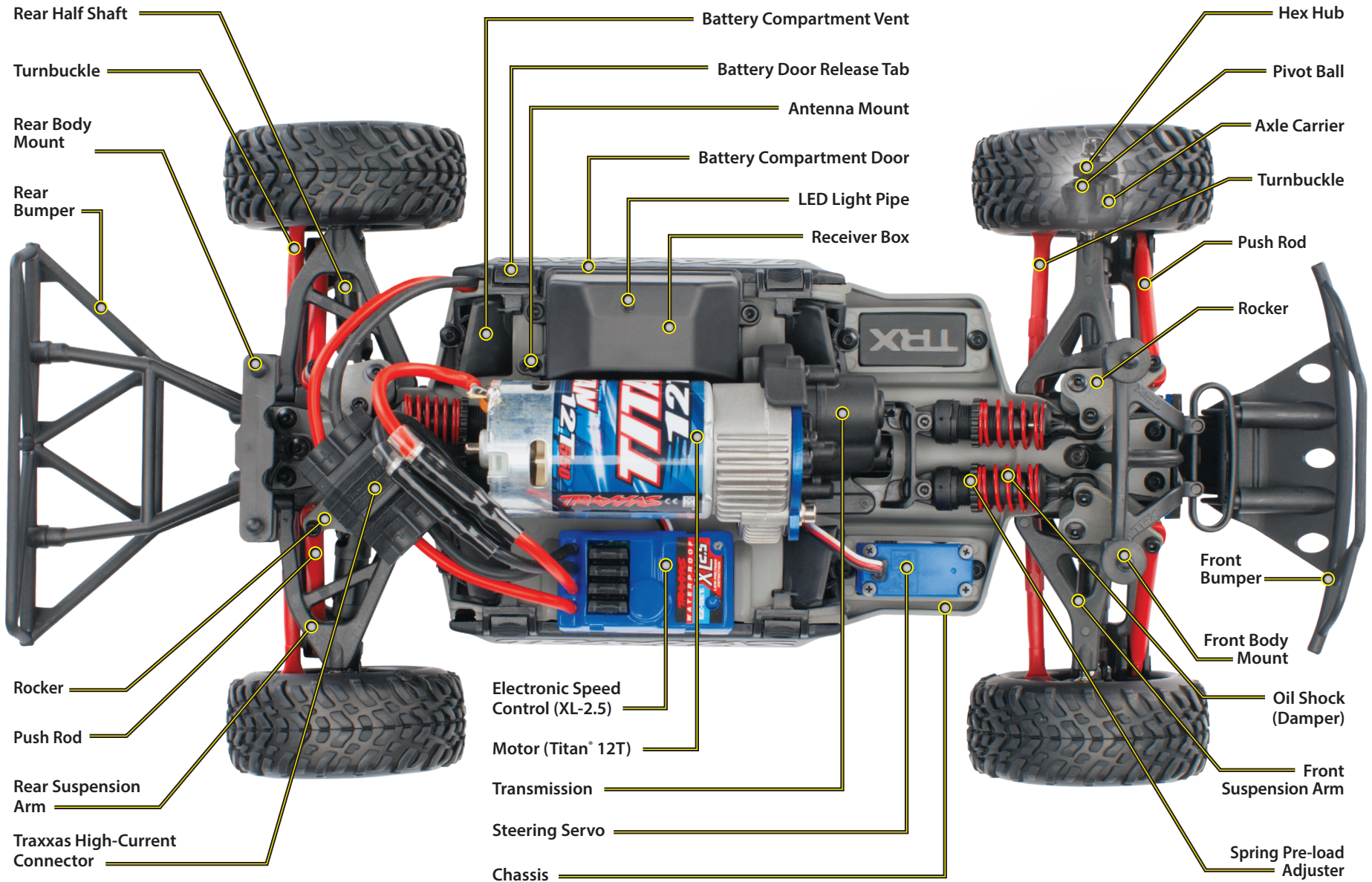
APPLYING THE DECALS


The main decals for your model have been applied at the factory. Additional decals are printed on self-adhesive clear mylar and are die-cut for easy removal. Use a hobby knife to lift the corner of a decal and lift it from the backing. To apply the decals, place one end down, hold the other end up, and gradually smooth the decal down with your finger as you go. This will prevent air bubbles. Placing both ends of the decal down and then trying to smooth it out will result in air pockets.

Look at the photos on the box for typical decal placement.



ANATOMY OF THE 1/16 SLASH 4WD



 The following guide is an overview of the procedures for getting your model running. Look for the Quick Start logo on the bottom corners of Quick Start pages.

1. Read the safety precautions on pages 4-6

For your own safety, understand where carelessness and misuse could lead to personal injury.

7. Check servo operation • See page 17

Make sure the steering servo is working correctly.

2. Charge the battery pack • See page 13

Fully charge the battery pack included with your model.

8. Range test the radio system • See page 17

Follow this procedure to make sure your radio system works properly at a distance and that there is no interference from outside sources.

3. Install the antenna • See page 15

The receiver antenna and antenna tube must be properly installed before operating your model.

9. Detail your model • See page 7

Apply other decals if desired.

4. Install batteries in the transmitter • See page 13

The transmitter requires 4 AA alkaline or rechargeable batteries (sold separately).

10. Drive your model • See page 21

Driving tips and adjustments for your model.

5. Install the battery pack • See page 15

Install the included battery pack in your model.

11. Maintaining your model • See page 28

Follow these critical steps to maintain the performance of your model and keep it in excellent running condition.

6. Turn on the radio system • See page 16

Make a habit of turning the transmitter on first and off last.



The Quick Start Guide is not intended to replace the full operating instructions available in this manual. Please read this entire manual for complete instructions on the proper use and maintenance of your model.

Look for the Quick Start logo at the bottom of Quick Start pages.



THE TRAXXAS TQ 2.4GHZ RADIO SYSTEM

INTRODUCTION

Your model includes the TQ 2.4GHz transmitter. When powered on, the TQ 2.4GHz will automatically locate and lock onto an available frequency, allowing multiple models to be raced together without frequency conflicts. Just switch on and drive! The included TQ 2.4GHz radio system has been programmed for your model at the factory and does not require adjustment, but it does have settings you may need to access to maintain proper operation of your model. The detailed instructions (page 16) included in this manual will help you understand and operate the functions of the new TQ 2.4GHz radio system. For additional information and how-to videos, visit Traxxas.com.

RADIO AND POWER SYSTEM TERMINOLOGY

Please take a moment to familiarize yourself with these radio and power system terms. They will be used throughout this manual.

2.4GHz Spread Spectrum – This model is equipped with the latest R/C technology. Unlike AM and FM systems that require frequency crystals and are prone to frequency conflicts, the TQ 2.4GHz system automatically selects and locks onto an open frequency, offering superior resistance to interference and “glitching.”

BEC (Battery Eliminator Circuit) - The BEC can either be in the receiver or in the ESC. This circuit allows the receiver and servos to be powered by the main battery pack in an electric model. This eliminates the need to carry a separate pack of 4 AA batteries to power the radio equipment.

Current - Current is a measure of power flow through the electronics, usually measured in amps. If you look at wire like a garden hose, current is a measure of how much water is flowing through the hose.

ESC (Electronic Speed Control) - An electronic speed control is the electronic motor control inside the model. Electronic speed controls use power more efficiently than mechanical speed controls so that the battery runs longer. An electronic speed control also has circuitry that prevents loss of steering and throttle control as the battery loses its charge.

Frequency band - The radio frequency used by the transmitter to send signals to your model. This model operates on the 2.4GHz direct-sequence spread spectrum.

LiPo - Abbreviation for Lithium Polymer. Rechargeable LiPo battery packs are known for their special chemistry, which allows extremely high energy density and current handling in a compact size. These are high-performance batteries that require special care and handling. For advanced users only.

mAh – Abbreviation for milliamp hour, a measure of the capacity of the battery pack. The higher the number, the longer the battery will last between recharges.

Neutral position - The standing position that the servos seek when the transmitter controls are at the neutral setting.

NiCad - Abbreviation for nickel-cadmium. The original rechargeable hobby pack, NiCad batteries have very high current handling, high capacity, and can last up to 1000 charging cycles. Good charging procedures are required to reduce the possibility of developing a “memory” effect and shortened run times.

NiMH - Abbreviation for nickel-metal hydride. Rechargeable NiMH batteries offer high current handling and much greater resistance to the “memory” effect. NiMH batteries generally allow higher capacity than NiCad batteries. They can last up to 500 charge cycles. A peak charger designed for NiMH batteries is required for optimal performance.

Receiver - The radio unit inside your model that receives signals from the transmitter and relays them to the servos.

Resistance - In an electrical sense, resistance is a measure of how an object resists or obstructs the flow of current through it. When flow is constricted, energy is converted to heat and is lost. Traxxas power systems are optimized to reduce electrical resistance and the resulting power-robbing heat.

Servo - Small motor unit in your model that operates the steering mechanism.

Transmitter - The hand-held radio unit that sends throttle and steering instructions to your model.

Trim - The fine-tuning adjustment of the neutral position of the servos, made by adjusting the steering trim knob on the face of the transmitter.

Thermal Shutdown Protection - Temperature sensing electronics used in the electronic speed control detect overloading and overheating of the transistor circuitry. If excessive temperature is detected, the unit automatically shuts down to prevent damage to the electronics.

2-channel radio system - The TQ 2.4GHz radio system, consisting of the receiver, the transmitter, and the servos. The system uses two channels: one to operate the throttle and one to operate the steering.

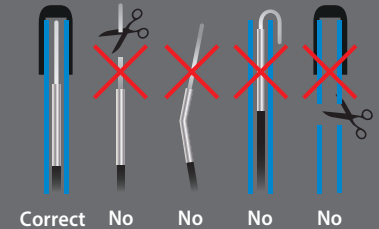
Voltage - Voltage is a measure of the electrical potential difference between two points, such as between the positive battery terminal and ground. Using the analogy of the garden hose, while current is the quantity of water flow in the hose, voltage corresponds to the pressure that is forcing the water through the hose.

IMPORTANT RADIO SYSTEM PRECAUTIONS

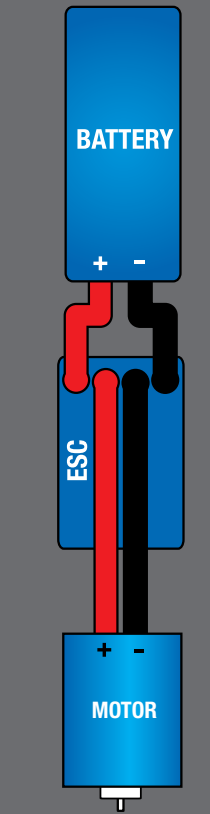
- For maximum range, always point the front of the transmitter toward the model.
- Do not kink the receiver's antenna wire. Kinks in the antenna wire will reduce range.
- DO NOT CUT any part of the receiver's antenna wire. Cutting the antenna will reduce range.
- You must extend the antenna wire in the model as far as possible for maximum range. In doing so, the antenna wire will be extended outside of the vehicle body. Do not wrap or coil the antenna wire to keep it from extending out of the body.
- The antenna wire must be installed into the antenna tube to protect it from getting cut or damaged, which will reduce range. When installing the antenna wire into the antenna tube, be careful not to kink the wire by pressing it against the antenna tube cap. The antenna wire should extend to just below or to within one-half inch below the cap.



To prevent loss of radio range, do not kink or cut the black wire, do not bend or cut the metal tip, and do not bend or cut the white wire at the end of the metal tip.



XL-2.5 Wiring Diagram



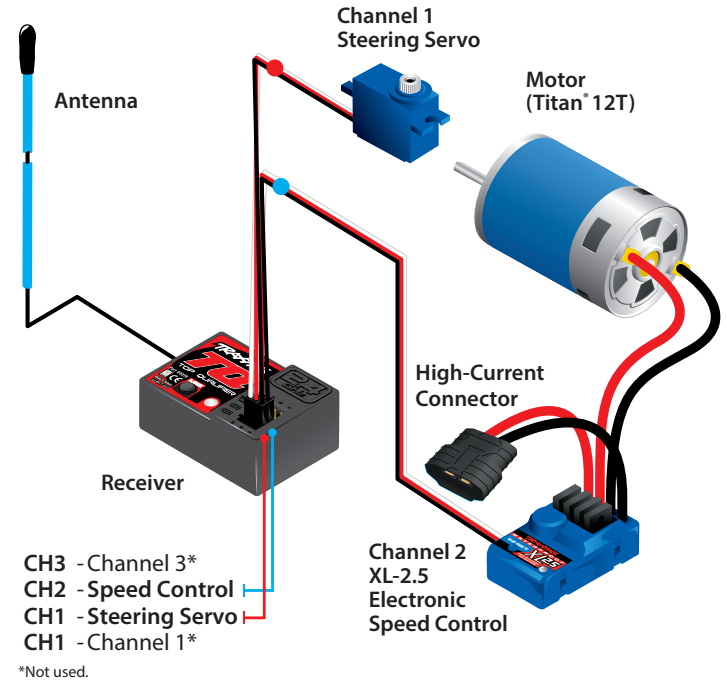
+ Positive █
- Negative █

Your model is equipped with the Traxxas TQ 2.4GHz transmitter. The transmitter has two channels: Channel one operates the steering, and channel two operates the throttle. The receiver inside the model has three output channels. Your model is equipped with one servo and an electronic speed control.

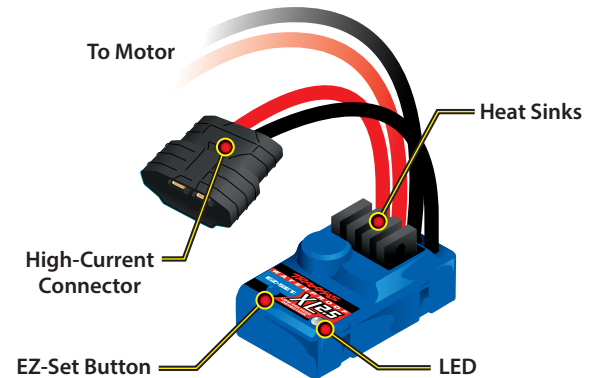
TRANSMITTER AND RECEIVER



RADIO SYSTEM WIRING DIAGRAM

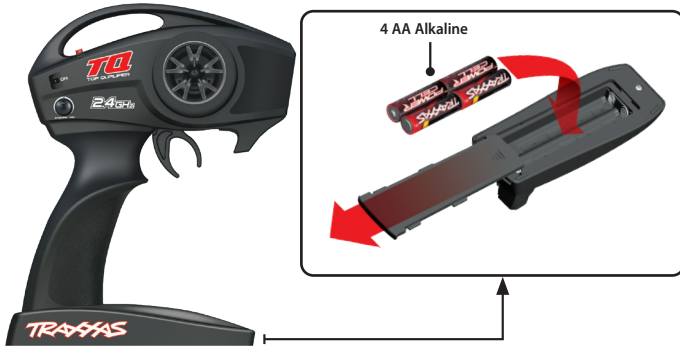


XL-2.5 ELECTRONIC SPEED CONTROL



INSTALLING TRANSMITTER BATTERIES

Your TQ 2.4GHz transmitter uses 4 AA batteries. The battery compartment is located in the base of the transmitter.



1. Remove the battery compartment door by pressing the tab and sliding the door open.
2. Install the batteries in the correct orientation as indicated in the battery compartment.
3. Reinstall the battery compartment door and snap it closed.
4. Turn on the transmitter and check the status LED for a solid green light.

If the status LED flashes red, the transmitter batteries may be weak, discharged, or possibly installed incorrectly. Replace with new or freshly charged batteries. The status LED does not indicate the charge level of the battery pack installed in the model. Refer to the Troubleshooting section on page 18 for more information on the transmitter status LED codes.



CHARGING THE BATTERY PACK

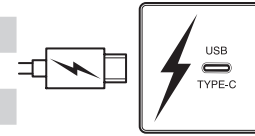


WARNING: FIRE HAZARD!

The included battery charger is designed for use ONLY with Traxxas iD® NiMH batteries. Legacy Traxxas High-Current Connectors are not compatible with this charger. DO NOT try to force legacy connectors into the charge connector. DO NOT attempt to charge LiPo batteries with this charger. DO NOT use any type of adapter between the charger and the battery. DO NOT modify the charger or the battery connector.

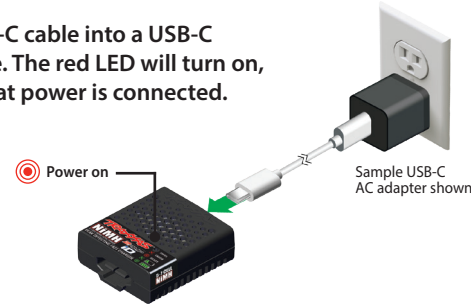
RECOMMENDED POWER ADAPTER AND POWER CABLE

| Part No. | Description |
|----------|--|
| 2912* | Power adapter, AC, USB-C (45W) |
| 2916* | Power cable, USB-C, 100W (high output) |



*Sold separately

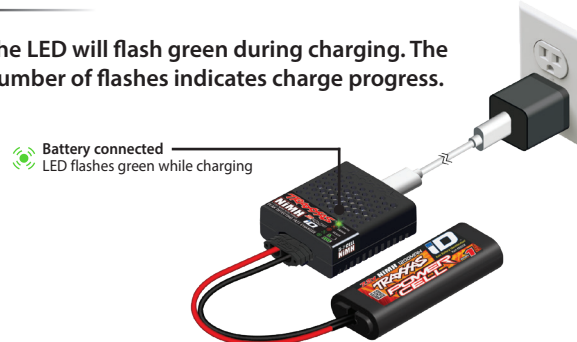
1. Plug the USB-C cable into a USB-C power source. The red LED will turn on, indicating that power is connected.



2. Connect a Traxxas iD NiMH battery to the charger to begin charging.



3. The LED will flash green during charging. The number of flashes indicates charge progress.



If the status LED doesn't light green, check the polarity of the batteries. Check rechargeable batteries for a full charge. If you see any other flashing signal from the LED, refer to the chart on page 18 to identify the code.



Use the Right Batteries

Your transmitter uses AA batteries. Use new alkaline batteries (Part # 2914) or rechargeable batteries, such as NiMH (nickel-metal hydride) batteries, in your transmitter. Make sure rechargeable batteries are fully charged according to the manufacturer's instructions.

If you use rechargeable batteries in your transmitter, be aware that when they begin to lose their charge, they lose power more quickly than regular alkaline batteries.

Caution: Discontinue running your model at the first sign of weak batteries (flashing red light) to avoid losing control.

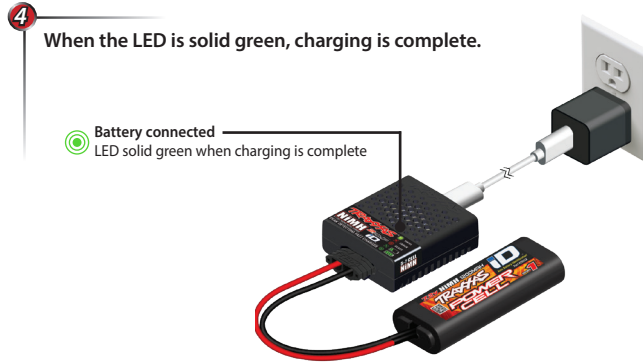


Battery iD

Your model's included battery pack is equipped with Traxxas Battery iD. This exclusive feature allows Traxxas battery chargers (sold separately) to automatically recognize connected battery packs and optimize the charge settings for the battery. This eliminates the need to worry over charger settings and menus for the easiest and safest charging solution possible. Visit Traxxas.com to learn more about this feature and available Traxxas iD chargers and batteries.

CHARGE PROGRESS

| | | |
|-----------|-----------------|---------------------|
| x1 | 1 green flash | 0 - 25% charged |
| x2 | 2 green flashes | 25% - 50% charged |
| x3 | 3 green flashes | 50% - 75% charged |
| x4 | 4 green flashes | 75% or more charged |
| | Solid green LED | 100% charged |



| LED INDICATION | MEANING |
|----------------|--|
| | Solid Red LED Ready for Charging |
| | Slowly Flashing Green LED Charging (see Charge Progress chart) |
| | Solid Green LED Battery Fully Charged |
| | Flashing Red LED Charger error |

Clearing errors

If there is a problem with the battery or the power adapter, the charger's LED will flash **red**. See error codes and recommended solutions below. If the error code repeats or will not clear, contact Traxxas Customer Support.

| LED INDICATION | MEANING | SOLUTION |
|----------------|---|--|
| x1 | Power source error | Disconnect battery and USB-C power source. Check power source for compatibility. |
| x2 | Battery voltage is too low | Disconnect and discontinue use of battery. |
| x3 | The charger timer has expired | Disconnect battery. If battery is hot, discontinue charger use. If battery is not hot, reconnect to continue charging. |
| x4 | The internal charger temperature is too high | Disconnect charger and allow charger to cool. |
| x5 | Power adapter error | Disconnect battery and power adapter. Adapter is not sufficient to support charging. |
| x6 | Battery connected to charger before USB-C power supplied. | Disconnect battery; wait for solid red LED on charger before reconnecting battery. |
| x7 | Battery voltage is too high | Disconnect battery; battery is not compatible with the charger. |
| x8 | Charger has detected an internal error | Disconnect battery and power adapter. Discontinue charger use. |

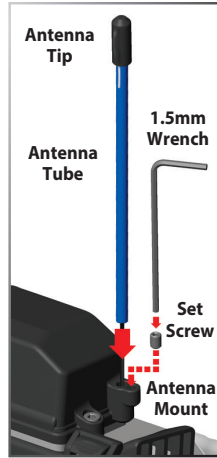
Charging tips

- The charger **MUST** be connected to USB-C power **BEFORE** connecting the battery. If the battery is connected before connecting to USB-C power, the charger will show an error (red LED flashes 6 times and repeats). To correct, unplug the battery and the charger. Plug in the charger to USB-C power, and then connect the battery to be charged.
- The charger requires 10W or greater output from the USB-C source to operate.
- The charge output current varies depending on the available power from the USB-C source. To ensure the maximum charge rate, use a USB-C power source rated at 45 watts (capable of 2.25 amps at 20 volts). Traxxas USB-C AC Power Adapter (part #2912) and Power Cable (part #2916) are designed to deliver the full 2-amp charge output from the charger.

INSTALLING THE RECEIVER ANTENNA

The receiver antenna and antenna tube must be properly installed before operating your model. Follow these steps to install the antenna and antenna tube:

1. Slide the antenna wire into the antenna tube to its full extent. When fully inserted, the wire should reach to approximately 1/2 inch below the tube cap. Do not leave any slack in the antenna wire.
2. Remove the set screw from the opening next to the antenna mount with the supplied 1.5mm "L" wrench.
3. Insert the tube into the antenna mount. Take care not to crimp the antenna wire.



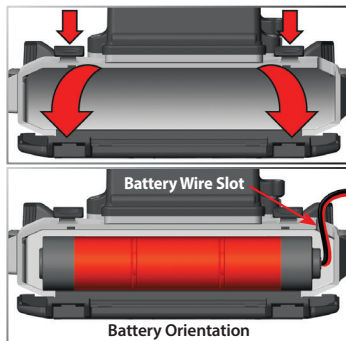
4. Reinstall and tighten the set screw with the supplied 1.5mm "L" wrench until it is flush with the top of the opening. **To prevent loss of radio range, do not kink or cut the black wire, do not bend or cut the metal tip, and do not bend or cut the white wire at the end of the metal tip. Do not shorten the antenna tube. See the sidebar for more information.**

INSTALLING THE BATTERY PACK

Your model includes a 7.2-volt battery pack. To properly balance the model, it should be installed in the battery compartment on the left side of the model. Follow these steps to install the battery:

Battery Installation

1. Open the battery compartment door by pressing on the release tabs.
2. Install the battery pack with the battery wires facing the rear of the model.
3. Route the battery wire through the slot near the vent.
4. Close the battery door, making sure not to pinch the battery wires. Be sure both release tabs are fully engaged with the door. Do not connect the battery pack to the ESC at this time. **Note:** always unplug the battery and remove from the model after use.



The Traxxas High-Current Connector

Your model is equipped with the Traxxas High-Current Connector. Standard connectors restrict current flow and are not capable of delivering the power needed to maximize the output of the XL-2.5. The Traxxas connector's gold-plated terminals with large contact surfaces ensure positive current flow with the least amount of resistance. Secure, long-lasting, and easy to grip, the Traxxas connector is engineered to extract all the power your battery has to give.



Using LiPo Packs in Your Model

The XL-2.5 is compatible with 2s and is equipped with Low-Voltage Detection circuitry to prevent over-discharging. Make certain Low-Voltage Detection is activated (*see page 19 for details*) when using LiPo packs in your model.

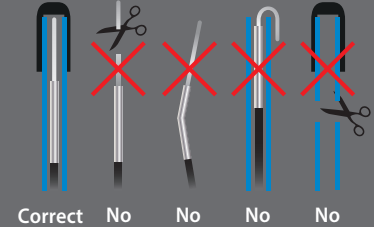
Using an Additional Battery for Increased Run Time

Your model only requires one battery pack, but the chassis can accept two batteries. Your model can be run with two battery packs to extend run time. The batteries must be connected in parallel, which will combine the capacity of the two batteries (for example, two 7.2-volt 1000mAh packs connected in parallel will deliver a total capacity of 2000mAh, but total voltage will remain 7.2 volts). This is easily done with a parallel Y-harness (Part #3064, sold separately). Be sure to only use the Y-harness with identical battery packs; do not mix batteries of different chemistries or capacities.

! When operating your model with two batteries, be careful to monitor the temperature of the speed control and motor to prevent overheating. Stop running your model and allow it to cool if the speed control's thermal overload protection activates or if the motor temperature exceeds 200°F.

i For best off-road handling with two battery packs, consider installing stiffer springs on your model. Traxxas offers accessory springs for this purpose; see the parts list included with your model for part numbers.

! To prevent loss of radio range, do not kink or cut the black wire, do not bend or cut the metal tip, and do not bend or cut the white wire at the end of the metal tip.

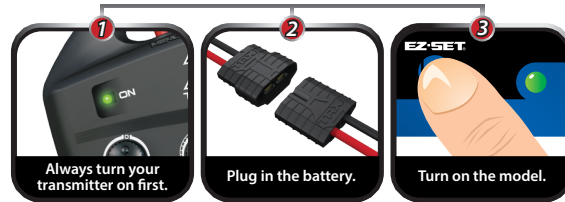


RADIO SYSTEM CONTROLS



RADIO SYSTEM RULES

• Always turn your transmitter on first and off last. This procedure will help to prevent your model from receiving stray signals from another transmitter, or other source, and running out of control. Your model has electronic failsafes to prevent this type of malfunction, but the first, best defense against a runaway model is to always turn the transmitter on first and off last.



- Always turn on the transmitter before plugging in the battery.
- Always use new or freshly charged batteries for the radio system. Weak batteries will limit the radio signal between the receiver and the transmitter. Loss of the radio signal can cause you to lose control of your model.
- In order for the transmitter and receiver to bind to one another, the receiver in the model must be turned on within 20 seconds of turning on the transmitter. The transmitter LED will flash fast red, indicating a failure to link. If you miss it, simply turn off the transmitter and start over.

RADIO SYSTEM BASIC ADJUSTMENTS



Steering Trim

The steering trim knob located on the face of the transmitter adjusts the neutral (center) point of the steering channel. If your model pulls to the right or left when the steering wheel is centered, turn the knob until the model drives straight when the steering wheel is centered.

Channel Reversing

The TQ 2.4GHz transmitter has been programmed with the correct servo direction settings for your model and should not require adjustment. **These instructions are for reference and troubleshooting only.**

Reversing a channel reverses the direction of the corresponding servo. For example, if you turn the steering wheel to the right and the model turns left, Channel 1 would need to be reversed to correct the servo direction. Use the following procedures to reverse the steering and throttle channels, if necessary. **Servo reversing should only be required if you accidentally reset the direction of a channel. Do not reverse the steering or throttle channels unless necessary.**

Steering reversing procedure:

1. Press and hold the SET button on the transmitter for two seconds. The status LED will flash green.
2. Turn and hold the steering wheel to the full left or full right position (it does not matter which position you choose).
3. While holding the steering wheel in position, press the SET button to reverse the channel.
4. The channel is now reversed. Confirm correct servo operation before running your model.

Throttle reversing procedure:

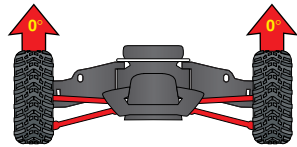
Note: Throttle reversing is often times unnecessary on electric models, as issues with the throttle can usually be solved by reprogramming the speed control and/or verifying that the motor is wired correctly. Before attempting to reverse the throttle channel using the procedure below, you should first recalibrate the speed control. Refer to "XL-2.5 Setup Programming" on page 19.

1. Press and hold the SET button on the transmitter for two seconds. The status LED will flash green.
2. Move and hold the throttle trigger to the full forward or full brake position (it does not matter which position you choose).
3. While holding the throttle trigger in position, press the SET button to reverse the channel.
4. The channel is now reversed. Recalibrate the speed control and then confirm correct servo operation before running your model.

USING THE RADIO SYSTEM

The TQ 2.4GHz Radio System has been adjusted at the factory for correct operation with your model. The adjustment should be checked before running the model, in case of movement during shipping. Here's how:

1. Turn the transmitter switch on. The status LED on the transmitter should be solid green (not flashing).
2. **Elevate the model on a block or a stand so that all the tires are off the ground.** Make sure your hands are clear of the moving parts of the model.
3. Plug the battery pack in the model into the speed control.
4. The on/off switch is integrated into the speed control. With the transmitter on, press and release the EZ-Set button (.25 seconds). The LED will shine RED (see note, below). This turns the model on. To turn the XL-2.5 off, press and hold the EZ-Set button until the LED turns off (.5 seconds). **Note:** If the LED shines green, Low-Voltage Detection is activated. This may cause poor performance from the included NiMH battery pack. The default factory setting is for Low-Voltage Detection to be disabled (LED shines red). Make sure to turn the Low-Voltage Detection on when using LiPo batteries. **Never use LiPo batteries while Low-Voltage Detection is turned off.** See page 19 for more information.
5. Turn the steering wheel on the transmitter back and forth and check for rapid operation of the steering servo. Also, check that the steering mechanism is not loose or binding. If the steering operates slowly, check for weak batteries.
6. When looking down at the model, the front wheels should be pointing straight ahead. If the wheels are turned slightly to the left or right, slowly adjust the steering trim control on the transmitter until they are pointing straight ahead.



7. Gently operate the throttle trigger to ensure that you have forward and reverse operation, and that the motor stops when the throttle trigger is at neutral. **WARNING: Do not apply full throttle in forward or reverse while the model is elevated.**
8. Once adjustments are made, turn off the receiver on your model, followed by the hand-held transmitter.

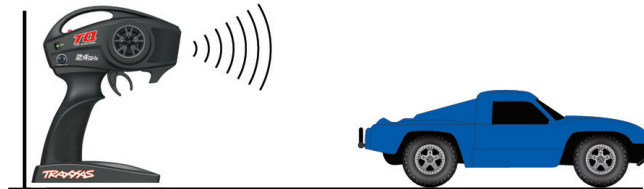
Range-Testing the Radio System

Before each running session with your model, you should range-test your radio system to ensure that it operates properly.

1. Turn on the radio system and check its operation, as described in the previous section.
2. Have a friend hold the model. Make sure hands and clothing are clear of the wheels and other moving parts on the model.
3. Walk away from the model with the transmitter until you reach the farthest distance you plan to operate the model.
4. Operate the controls on the transmitter once again to be sure that the model responds correctly.
5. Do not attempt to operate the model if there is any problem with the radio system or any external interference with your radio signal at your location.



The TQ 2.4GHz transmitter has a directional antenna. For maximum range, hold the antenna upright and pointed in the direction of the model. Pointing the transmitter away from the model will reduce radio range.



Using Reverse: While driving, push the throttle trigger forward to apply brakes. Once stopped, return the throttle trigger to neutral. Push the throttle trigger forward again to engage proportional reverse.

**Failsafe**

Your Traxxas radio system is equipped with a built-in failsafe function that returns the throttle to its last saved neutral position in the event of a signal loss. The LED on the transmitter and the receiver will rapidly flash red when the failsafe mode is activated. If failsafe activates while you are operating your model, determine the reason for signal loss and resolve the problem before operating your model again.

Higher Speeds Require Greater Distance

The faster you drive your model, the more quickly it will near the limit of radio range. At top speeds, models can cover anywhere between 50 to 100 feet every second! It's a thrill, but use caution to keep your model in range. If you want to see your model achieve its maximum speed, it is best to position yourself in the middle of the truck's running area, not the far end, so you drive the truck towards and past your position. In addition to maximizing the radio's range, this technique will keep your model closer to you, making it easier to see and control.

No matter how fast or far you drive your model, always leave adequate space between you, the model, and others. Never drive directly toward yourself or others.

TQ 2.4GHz Binding Instructions

For proper operation, the transmitter and receiver must be electronically 'bound.' **This has been done for you at the factory.** Should you ever need to re-bind the system or bind to an additional transmitter or receiver, follow these instructions. **Note:** the receiver must be connected to a 4.8-6.0v (nominal) power source for binding and the transmitter and receiver must be within 5 feet of each other.

1. Press and hold the SET button on the transmitter.
2. Turn on the transmitter and release the SET button. The status LED will flash red slowly, indicating that the transmitter is in bind mode.
3. Press and hold the LINK button on the receiver.
4. Turn on the speed control by pressing the EZ-Set button, and release the LINK button.
5. When the LEDs on both the transmitter and the receiver turn solid green, the system is bound and ready for use. Confirm that the steering and throttle operate properly before driving your model.

TRANSMITTER LED CODES

| LED Color / Pattern | Name | Notes |
|---|----------------------|--|
| Solid green | Normal Driving Mode | See page 16 for information on how to use the transmitter controls. |
| Slow red (0.5 sec on / 0.5 sec off) | Binding | See this page for more information on binding. |
| Flashing medium red (0.25 sec on / 0.25 sec off) | Low Battery Alarm | Put new batteries in the transmitter. See page 13 for more information. |
| Flashing fast red (0.125 sec on / 0.125 sec off) | Link Failure / Error | Transmitter and receiver are no longer bound. Turn the system off and then back on to resume normal operation. Find source of the link failure (i.e., out of range, low batteries, damaged antenna). |

RECEIVER LED CODES

| LED Color / Pattern | Name | Notes |
|---|-------------------------------|---|
| Solid green | Normal Driving Mode | See page 16 for information on how to use your transmitter controls. |
| Slow red (0.5 sec on / 0.5 sec off) | Binding | See this page for more information on binding. |
| Flashing fast red (0.125 sec on / 0.125 sec off) | Failsafe / Low-Voltage Detect | Consistent low voltage in the receiver triggers failsafe so that there is enough power to center the throttle servo before it completely loses power. |

ADJUSTING THE ELECTRONIC SPEED CONTROL

XL-2.5 Battery Settings (Low-Voltage Detection Setting)

The XL-2.5 electronic speed control is equipped with built-in Low-Voltage Detection. The Low-Voltage Detection circuitry constantly monitors the battery voltage. When the battery voltage begins to reach the minimum recommended discharge voltage threshold for LiPo battery packs, the XL-2.5 will limit the power output to 50% throttle. When the battery voltage attempts to fall below the minimum threshold, the XL-2.5 will shut down all motor output. The LED on the speed control will slowly blink red, indicating a low-voltage shutdown. The XL-2.5 will stay in this mode until a fully charged battery is connected.

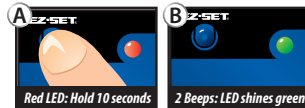
Your model includes a Power Cell NiMH battery. The XL-2.5 speed control's Low-Voltage Detection has been disabled for best performance with this battery. The speed control's LED will glow red when it is turned on, indicating Low-Voltage Detection is disabled. Be certain to activate Low-Voltage Detection if you install LiPo batteries in your model. **Never use LiPo batteries while Low-Voltage Detection is disabled.**

Verify that Low-Voltage Detection is DISABLED:

1. Turn on the transmitter (with the throttle at neutral).
2. Connect a fully charged battery pack to the XL-2.5.
3. Press and release the EZ-Set button to turn the XL-2.5 on. If the LED is solid red, then the Low-Voltage Detection is DISABLED (not safe to use LiPo batteries). If the LED is solid green, then Low-Voltage Detection is ACTIVATED.

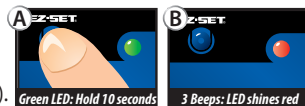
To activate Low-Voltage Detection (LiPo setting):

1. Make sure the LED on the XL-2.5 is on and RED.
2. Press and hold the EZ-Set button (the LED will turn off) (A). After ten seconds, the motor will beep twice and the LED will shine GREEN. Release the button (B).
3. Low-Voltage Detection is now ACTIVATED.



To disable Low-Voltage Detection (NiMH setting):

1. Make sure the LED on the XL-2.5 is on and GREEN.
2. Press and hold the EZ-Set button (the LED will turn off) (A). After ten seconds, the motor will beep three times and the LED will shine RED. Release the button (B).
3. Low-Voltage Detection is now DISABLED.



XL-2.5 Setup Programming (Calibrating your ESC and transmitter)

Read through all of the programming steps before you begin. If you get lost during programming or receive unexpected results, simply unplug the battery, wait a few seconds, plug the battery pack in, and start over.

1. Disconnect one of the motor wires between the XL-2.5 and the motor. This is a precaution to prevent runaway when the speed control is turned on before it is programmed.
2. Connect a fully charged battery pack to the XL-2.5.
3. Turn on the transmitter (with the throttle at neutral).
4. Press and hold the EZ-Set button (A). The LED will first turn green and then red. Release the button.
5. When the LED blinks RED ONCE, pull the throttle trigger to the full throttle position and hold it there (B).
6. When the LED blinks RED TWICE, push the throttle trigger to the full reverse and hold it there (C).
7. When the LED blinks GREEN ONCE, programming is complete. The LED will then shine green or red (depending on Low-Voltage Detection setting), indicating the XL-2.5 is on and at neutral (D).



XL-2.5 Operation

To operate the speed control and test the programming, reconnect the motor wires and place the vehicle on a stable block or stand so that all of the driven wheels are off the ground.

Note that in steps 1-8 below, Low-Voltage Detection is DISABLED (factory default) and the LED shines red. If Low-Voltage Detection is ACTIVATED, the LED will shine green instead of red in steps 1-8 below. Never use LiPo batteries while Low-Voltage Detection is disabled.

1. With the transmitter on, press and release the EZ-Set button. The LED will shine RED. This turns the XL-2.5 on. If you press and release too quickly, you may hear the steering servo jump but the LED may not stay on. Simply press the button again until the LED shines RED and then release.
2. Apply forward throttle. The LED will turn off until full throttle power is reached. At full throttle, the LED will shine RED.
3. Move the trigger forward to apply the brakes. Note that braking control is fully proportional. The LED will turn off until full braking power is reached. At full brakes, the LED will shine RED.
4. Return the throttle trigger to neutral. The LED will shine RED.
5. Move the throttle trigger forward again to engage reverse (Profile #1). The LED will turn off. Once full reverse power is reached, the LED will shine RED.
6. To stop, return the throttle trigger to neutral. Note that there is no programmed delay when changing from reverse to forward. Use caution to avoid slamming the speed control from reverse to forward. On high-traction surfaces, this could result in transmission or driveline damage.

XL-2.5 ESC Specifications

| | |
|----------------------------|--|
| Input Voltage: | 4-7 Cells (4.8V - 8.4V DC) 2S LiPo |
| Case Size (W x D x H): | 26.5 x 46.5 x 22mm |
| Weight: | 33 Grams |
| Motor Limit (380 Size): | 10-turns* |
| On-Resistance (@Trans): | 0.008 Ohms |
| Reverse Delay: | None |
| BEC Voltage: | 6.0V DC |
| Power Wire: | 16 Gauge / 40mm |
| Input Harness: | 26 Gauge / 130mm |
| Motor Wires: | 16 Gauge / 40mm |
| Transistor Type: | MOSFET |
| PWM Frequency: | 2300 Hz |

*Properly geared



Patented Training Mode (Profile #3) reduces forward and reverse throttle by 50%. Training Mode is provided to reduce the power output allowing beginning drivers to better control the model. As driving skills improve, simply change to Sport or Race Mode for full-power operation.



Tip For Fast Mode Changes
The ESC is set to Profile 1 (Sport Mode) as the default. To quickly change to Profile 3 (Training Mode), with the transmitter on and the ESC turned off, press and hold the SET button until the light blinks red three times and then release. For full power, turn off the ESC then quickly change back to Profile 1 (Sport Mode) by pressing and holding the SET button until the light blinks red one time and then releasing.

- To turn the XL-2.5 off, press and hold the EZ-Set button for 1½ seconds or until the red LED turns off.
- The XL-2.5 is equipped with thermal shutdown protection to guard against overheating caused by excessive current flow. If the operating temperature exceeds safe limits, the XL-2.5 will automatically shut down. The LED on the face of the XL-2.5 will rapidly blink red, even if the throttle trigger is moved back and forth. Once the temperature returns to a safe level, the XL-2.5 will once again function normally.

XL-2.5 Profile Selection

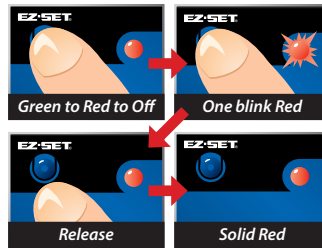
The speed control is factory set to Sport Mode (100% forward, brakes, and reverse). To disable reverse (Race Mode) or to allow 50% power (patented Training Mode), follow these steps. The speed control should be connected to the receiver and the transmitter adjusted as described previously. The profiles are selected by entering the programming mode.

Profile Description

- Profile #1 (Sport Mode): 100% Forward, 100% Brakes, 100% Reverse
- Profile #2 (Race Mode): 100% Forward, 100% Brakes, No Reverse
- Profile #3 (Training Mode): 50% Forward, 100% Brakes, 50% Reverse

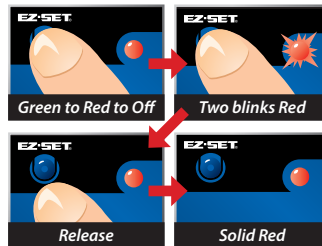
Selecting Sport Mode (Profile #1: 100% Forward, 100% Brakes, 100% Reverse)

- Connect a fully charged battery pack to the XL-2.5 and turn on your transmitter.
- With the XL-2.5 off, press and hold the EZ-Set button until the LED turns solid green, then solid red, and then begins blinking red (indicating the Profile numbers).
- When the LED blinks RED ONCE, release the EZ-Set button.
- The LED will blink and then turn solid green (Low-Voltage Detection ACTIVE) or red (Low-Voltage Detection DISABLED). The model is ready to drive.



Selecting Race Mode (Profile #2: 100% Forward, 100% Brakes, No Reverse)

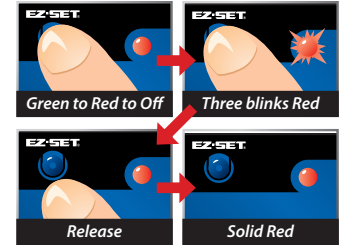
- Connect a fully charged battery pack to the XL-2.5 and turn on your transmitter.
- With the XL-2.5 off, press and hold the EZ-Set button until the LED turns solid green, then solid red, and then begins blinking red (indicating the Profile numbers).
- When the LED blinks RED TWICE, release the EZ-Set button.



- The LED will blink and then turn solid green (Low-Voltage Detection ACTIVE) or red (Low-Voltage Detection DISABLED). The model is ready to drive.

Selecting Training Mode* (Profile #3: 50% Forward, 100% Brakes, 50% Reverse)

- Connect a fully charged battery pack to the XL-2.5 and turn on your transmitter.
- With the XL-2.5 off, press and hold the EZ-Set button until the LED turns solid green, then solid red, and then begins blinking red (indicating the Profile numbers).
- When the LED blinks RED THREE TIMES, release the EZ-Set button.
- The LED will blink and then turn solid green (Low-Voltage Detection ACTIVE) or red (Low-Voltage Detection DISABLED). The model is ready to drive.



Note: If you missed the mode you wanted, keep the EZ-Set button pressed down and the blink cycle will repeat until the button is released and a Mode is selected.

LED Codes and Protection Modes

- Solid Green:** XL-2.5 power-on light. Low-Voltage Detection is ACTIVATED (LiPo setting).
- Solid Red:** XL-2.5 power-on light. Low-Voltage Detection is DISABLED (NiCad/NiMH setting). **Never use LiPo batteries while Low-Voltage Detection is disabled.**
- Fast Blinking Red:** The XL-2.5 is equipped with thermal shutdown protection to guard against overheating caused by excessive current flow. If the operating temperature exceeds safe limits, the XL-2.5 will automatically shut down. Let the XL-2.5 cool. Make sure your model is properly geared for the conditions.
- Slow Blinking Red (with Low-Voltage Detection on):** The XL-2.5 has entered Low-Voltage Protection. When the battery voltage begins to reach the minimum recommended discharge voltage threshold for LiPo battery packs, the XL-2.5 will limit the power output to 50% throttle. When the battery voltage attempts to fall below the minimum threshold, the XL-2.5 will shut down all motor output. The LED on the speed control will slowly blink red, indicating a low-voltage shutdown. The XL-2.5 will stay in this mode until a fully charged battery is connected.
- Fast Blinking Green:** The XL-2.5's LED will blink fast green if the speed control is not receiving a signal. Make certain the speed control is properly plugged into the receiver and the transmitter is switched on.
- Flashing Red and Green:** The XL-2.5 has entered Over Voltage Protection. If a battery with too high voltage (3S LiPo) is used, the XL-2.5 will go into a failsafe mode. The XL-2.5 is only compatible with 2S LiPo.

Now it's time to have some fun! This section contains instructions on driving and making adjustments to your model. **Before you go on, here are some important precautions to keep in mind.**

- Allow the model to cool for a few minutes between runs. This is particularly important when using high-capacity battery packs that allow extended periods of running. Monitoring temperatures will extend the lives of the battery and motor.
- Do not continue to operate the model with low batteries or you could lose control of it. Indications of low battery power include slow operation and sluggish servos (slow to return to center). Stop immediately at the first sign of weak batteries. When the batteries in the transmitter become weak, the red power light will begin to flash. Stop immediately and install new batteries.
- Do not drive the model at night, on public streets, or in large crowds of people.
- If the model becomes stuck against an object, do not continue to run the motor. Remove the obstruction before continuing. Do not push or pull objects with the model.
- Because the model is controlled by radio, it is subject to radio interference from many sources beyond your control. Since radio interference can cause momentary losses of control, allow a safety margin of space in all directions around the model in order to prevent collisions.
- Use good, common sense whenever you are driving your model. Intentionally driving in an abusive and rough manner will only result in poor performance and broken parts. Take care of your model so that you can enjoy it for a long time to come.
- High-performance vehicles produce small vibrations that may loosen hardware over time. Frequently check wheel nuts and other screws on your vehicle to ensure that all hardware remains properly tightened.

About Run Time

A large factor affecting run time is the type and condition of your batteries. The milliamp hour (mAh) rating of the batteries determines how large their "fuel tank" is. A 2000 mAh battery pack will theoretically run twice as long as a 1000 mAh pack. Because of the wide variation in the types of batteries that are available and the methods with which they can be charged, it's impossible to give exact run times for the model. Another major factor that affects

run time is how the model is driven. Run times may decrease when the model is driven repetitively from a stop to top-speed and with repetitive hard acceleration.

Tips for Increasing Run Time

- Use batteries with the highest mAh rating you can purchase.
- Use the included charger or a high-quality peak-detecting charger.
- Read and follow all maintenance and care instructions provided by the manufacturer of your batteries and charger.
- Keep the ESC cool. Get plenty of airflow across the ESC heat sinks.
- Lower your gear ratio. Installing smaller pinion gears will lower your gear ratio and cause less power draw from the motor and batteries, and reduce overall operating temperatures.
- Maintain your model. Do not allow dirt or damaged parts to cause binding in the drivetrain. Keep the motor clean.

mAh Ratings and Power Output

The mAh rating of the battery can affect your top speed performance. The higher capacity battery packs experience less voltage drop under heavy load than low mAh rated packs. The higher voltage potential allows increased speed until the battery begins to become discharged.

RUNNING IN WET CONDITIONS

Your model is designed with water-resistant features to protect the electronics in the model (receiver, servos, electronic speed control). This gives you the freedom to have fun driving your model through puddles, wet grass, snow, and other wet conditions. Though highly water resistant, the model should not be treated as though it is submersible or totally 100% waterproof. Water resistance applies only to the installed electronic components. Running in wet conditions requires additional care and maintenance for the mechanical and electrical components to prevent corrosion of metal parts and maintain their proper function.

Precautions

- **Without proper care, some parts of your model can be seriously damaged due to contact with water. Know that additional maintenance procedures will be required after running in wet conditions in order to maintain the performance of your model. Do not run your model in wet conditions if you are not willing to accept the additional care and maintenance responsibilities.**



- Not all batteries can be used in wet environments. Consult your battery manufacturer to see if their batteries can be used in wet conditions.
- The Traxxas TQ 2.4GHz transmitter is not water resistant. Do not subject it to wet conditions such as rain.
- DO NOT operate your model during a rain storm or other inclement weather where lightning may be present.
- DO NOT allow your model to come in contact with salt water (ocean water), brackish water (between fresh water and ocean water), or other contaminated water. Salt water is highly conductive and highly corrosive. Use caution if you plan to run your model on or near a beach.
- Even casual water contact can reduce the life of your motor. Special care must be taken to modify your gearing and/or your driving style in wet conditions to extend the life of the motor (details below).
- Use special care when operating your model in muddy conditions. Stop operating your model if it appears to be straining due to the tackiness of the mud or build-up of mud on the chassis. Do not allow mud to collect on the motor or pack around the motor.

Before Running Your Vehicle in Wet Conditions

1. Consult the section "After Running Your Vehicle in Wet Conditions" before proceeding. Make sure you understand the additional maintenance required with wet running.
2. The wheels have small holes molded in to allow air to enter and exit the tire during normal running. Water will enter these holes and get trapped inside the tires if holes are not cut in the tires. Cut two small holes (4mm or 3/16" diameter) in each tire. Each hole should be near the tire centerline, 180 degrees apart.
3. Confirm that the receiver box O-ring and cover are installed correctly and secure. Make sure the screws are tight and the blue O-ring is not visibly protruding from the edge of the cover.
4. Confirm that your batteries can be used in wet conditions.
5. Use lower gearing (smaller pinion gears) when running in mud, deep puddles, snow, or other similar situations that will restrict the tires and put much higher loads on the motor.

Motor Precautions

- Motor life can be greatly reduced in mud and water. If the motor gets excessively wet or submerged, use very light throttle (run the motor slowly) until the excess water can run out. Applying full throttle to a motor full of water can cause rapid motor failure. Your driving habits will determine motor life with a wet motor. Do not submerge the motor under water.
- Do not gear the motor by temperature when running in wet conditions. The motor will be cooled by water contact and will not give an accurate indication of appropriate gearing.

After Running Your Vehicle in Wet Conditions

1. Drain the tires by spinning the tires at full throttle to "sling" the water out. An easy way to do this is to remove the body and set the model upside down on a flat surface. Apply full throttle so the tires spin and throw the excess water out of the holes you cut into the tires.
2. Remove the batteries.
3. Rinse excess dirt and mud off the model with low-pressure water, such as from a garden hose. DO NOT use a pressure washer or other high-pressure water. Avoid directing water into the bearings, transmission, differentials, etc.
4. Blow off the model with compressed air (optional, but recommended). Wear safety glasses when using compressed air.
5. Remove the wheels from the model.
6. Spray all the bearings, drivetrain, and fasteners with WD-40® or similar water displacing light oil.
7. Let the model stand or you may blow off with compressed air. Placing the model in a warm, sunny spot will aid drying. Trapped water and oil will continue to drip from the model for a few hours. Place it on a towel or piece of cardboard to protect the surface underneath.
8. As a precautionary step, remove the sealed receiver box cover. While unlikely, humidity or tiny amounts of moisture or condensation may enter the receiver box during wet running. This can cause long-term problems with the sensitive electronics in the receiver. Removing the receiver box cover during storage allows the air inside to dry. This step can improve the long-term reliability of the receiver. It is not necessary to remove the receiver or unplug any of the wires.

9. **Additional Maintenance:** Increase your frequency of disassembly, inspection, and lubrication of the following items. This is necessary after extended wet use or if the vehicle will not be used for an extended period of time (such as a week or longer). This additional maintenance is needed to prevent any trapped moisture from corroding internal steel components.

- **Stub axle housing bearings:** Remove, clean, and re-oil the bearings.
- **Front and rear differential:** Remove, disassemble, clean, and re-grease the differentials. Refer to your exploded view diagrams for help with disassembly and reassembly.
- **Transmission:** Remove, disassemble, and clean the transmission components. No grease is required for the nylon gears. Refer to your exploded view diagrams for help with disassembly and reassembly.
- **Motor:** Remove the motor, clean with aerosol motor cleaner, and re-oil the bushings or bearings with lightweight motor oil. Be sure to wear eye protection when using spray aerosol cleaners.



RECEIVER BOX: MAINTAINING A WATERTIGHT SEAL Removing and Installing Radio Gear

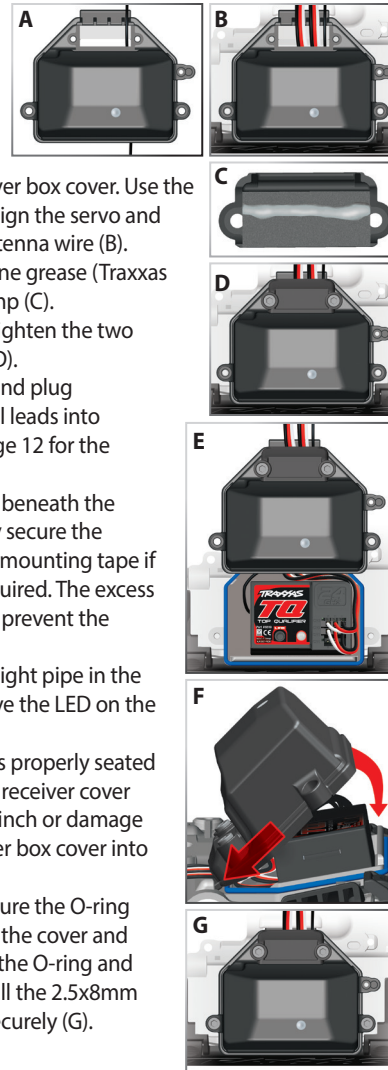
The unique design of the receiver box allows the removal and installation of the receiver without losing the ability to maintain a watertight seal in the box. The patent-pending wire clamp feature gives you the ability to also install aftermarket radio systems and maintain the watertight features of the receiver box.

Removing the Receiver

1. Remove the 2.5x8mm screws that secure the wire clamp.
2. Remove the 2.5x8mm screws that secure the receiver box lid to the chassis. Lift the lid up and toward you to disengage the lid's tab from its slot in the chassis.
3. You can now access the receiver. Unplug the servo cables from the receiver and remove the receiver.

Receiver Installation

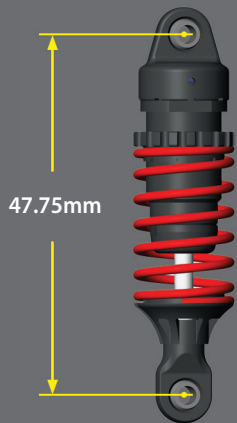
1. Route the antenna wire out of the receiver box cover (A). Place the cover on the chassis.
2. Route the servo and speed control leads into the receiver box cover. Use the molded-in wire guides to align the servo and speed control leads and antenna wire (B).
3. Apply a small bead of silicone grease (Traxxas part #1647) to the wire clamp (C).
4. Install the wire clamp and tighten the two 2.5x8mm screws securely (D).
5. Lift the receiver box cover and plug the servo and speed control leads into the receiver (E). Refer to page 12 for the wiring diagram.
6. Bundle the wires so they fit beneath the receiver box cover. You may secure the receiver to the chassis with mounting tape if you wish, but this is not required. The excess wire beneath the cover will prevent the receiver from rattling.
7. Make sure the clear plastic light pipe in the receiver box is aligned above the LED on the receiver.
8. Make sure the blue O-ring is properly seated into the groove around the receiver cover base so the cover will not pinch or damage the O-ring. Snap the receiver box cover into place (F).
9. Inspect the cover to make sure the O-ring is not visible. If it is, remove the cover and reposition the O-ring. With the O-ring and cover properly seated, install the 2.5x8mm screws and tighten them securely (G).



TUNING ADJUSTMENTS



Important: The shocks are assembled at the factory with a center-to-center distance (between the rod end balls) of 47.75mm. Any time the shocks are removed and disassembled, this distance should be checked to ensure proper operation of the suspension.



Your model is factory-tuned for optimum performance in a wide variety of off-road conditions. To tailor the performance and handling of your model to suit your driving style and terrain, the model has a number of adjustable features. Gearing, shock preload and damping, ride height, and wheel camber can all be easily adjusted.

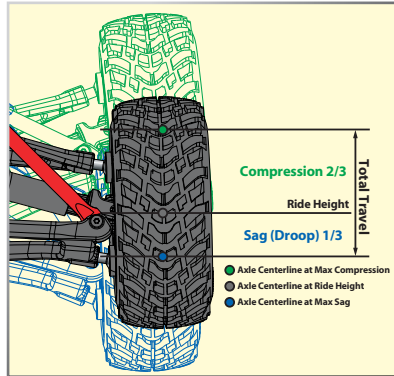
SUSPENSION TUNING

Ride Height Adjustment

Your model has threaded shock bodies that make it easy to adjust ride height. Threading the shocks' preload collars away from the caps will raise the vehicle's ride height (the distance from the chassis to the ground), and reduce the suspension's down travel, also known as 'sag' or 'droop'. This can be helpful in rugged terrain where extra ground clearance is needed. However, the vehicle's center of gravity (CG) will be raised, making it less stable.

Threading the shocks' preload collars toward the caps will lower the vehicle's ride height and increase the suspension's droop. This will lower the vehicle's CG and improve handling, but it will also reduce ground clearance.

From the factory, your model is set up as shown in the illustration above. At rest, the suspension sags to about 1/3 of its total travel. This allows the suspension to extend so the wheel can drop into depressions over rough terrain. This leaves 2/3 of the total suspension travel for compression when absorbing bumps and landing jumps. These settings are ideal for most surfaces, and only small changes in ride height should be required to fine-tune the vehicle's handling for your particular surface.



Shock Oil

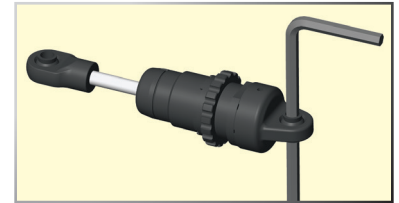
The 4 oil-filled shocks (dampers) effectively control the suspension movement by preventing the wheels and tires from continuing to "bounce" after rebounding from a bump. Changing the oil in the shocks can vary the suspension damping effect. Changing the oil to a higher viscosity oil will increase damping. Lowering the viscosity of the oil will cause the suspension damping to be reduced. Damping should be increased (with higher viscosity oil) if the model is bottoming easily over jumps. Damping should be decreased (with thinner viscosity oil) if the model is hopping over small bumps and feels unstable. The viscosity of shock oil is affected by extremes in operating temperature; an oil of certain viscosity will become less viscous at higher temperatures and more viscous at lower temperatures. Operating in regions with cold temperatures may require lower viscosity oil. Your model's shocks are filled with SAE 30W oil. Only use 100% silicone oil in the shock.

Replacing Shock Oil

The shocks have to be removed from the vehicle and disassembled to change the oil.

1. Remove the lower spring retainer and shock spring.

2. Remove the upper shock cap. If you cannot unscrew the cap with your fingers, pass the 2mm 'L' wrench through the cap's eyelet so you can apply more leverage. Turn the cap counterclockwise to loosen it.



3. Empty the used shock oil from the shock body.

4. Fill the shock with new silicone shock oil up to the top of the shock body.

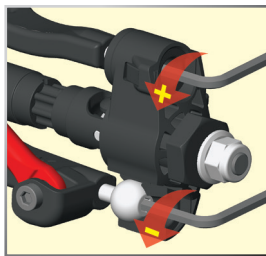
5. Slowly move the piston up and down (always keeping it submerged in oil) to release the air bubbles. Let the shock sit for a few minutes to allow any remaining air bubbles to surface.

6. Slowly thread the upper cap with the installed shock bladder onto the shock body. The excess oil will bleed out of the small hole in the shock cap.

7. Tighten the shock cap until snug.

Static Camber Adjustment

The wheels can be set to have either positive or negative camber (see illustration below). The camber angle changes as the wheel moves up and down through its range of travel. Static camber is the camber angle at the wheel when the vehicle is set at its normal, stationary ride height.

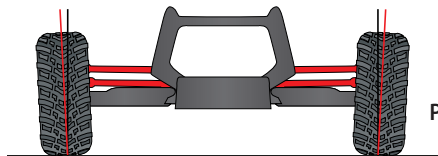


The suspension pivot balls located in the axle carriers adjust the static camber. Camber is factory-set at -1° , with the pivot balls threaded all the way into the suspension arms. To adjust static camber, insert the supplied 2mm hex wrench into the pivot ball (compressing the suspension until the arms are parallel to the ground will allow for easier hex wrench engagement). Negative camber can be increased by unthreading the lower pivot ball. Zero camber or positive camber (not recommended) can be achieved by unthreading the upper pivot ball. Note that camber changes will also effect the toe angle of the wheel being adjusted.

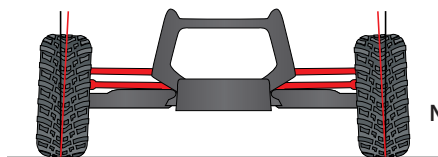
Static Camber Base Factory Settings

Front: -1° camber each side

Rear: -1° camber each side



Positive camber

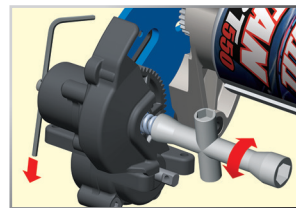
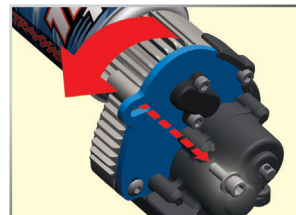


Negative camber

TRANSMISSION TUNING

Adjusting the Slipper Clutch

Your model is equipped with an adjustable Torque Control slipper clutch, which is built into the large spur gear. The purpose of the slipper clutch is to prevent over-stressing of the drivetrain and transmission gears. It may also be used to regulate the amount of power sent to the rear wheels to prevent tire spin. When it slips, the slipper clutch makes a high-pitch, whining noise.



To adjust the slipper clutch, first remove the receiver box cover. Next, remove the single large hex screw from the motor plate using the supplied 2.5mm wrench. Then rotate the motor and mount to the side of the model. The slipper clutch is integrated into the main spur gear on the transmission.

The slipper clutch is adjusted using the spring-loaded locknut on the slipper shaft. Use the supplied universal wrench. To tighten or loosen the slipper nut, insert the 1.5mm hex wrench into the hole in the end of the slipper shaft. This locks the shaft for adjustments. Turn the adjustment nut clockwise to tighten (less slippage) and counterclockwise to loosen (more slippage).

Tuning the Sealed Gear Differentials

The 1/16 Slash 4WD's front and rear gear differentials allow the left and right wheels to spin at different speeds while turning so that the tires do not scuff or skid. This decreases the turning radius and increases steering performance.

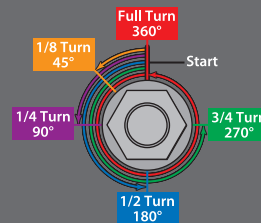
The performance of the differentials can be tuned for different driving conditions and performance requirements. The differentials are filled with silicone differential fluid, and are sealed to maintain consistent long-term performance. Changing the oil in the differential with either lower or higher viscosity oil will vary the performance characteristics of the differentials. Changing to a higher viscosity oil in the differential will reduce the tendency for power to be transferred to the wheel with the least traction. You may notice this when making sharp turns on slick surfaces. The unloaded wheels on the inside of the turn have



A camber gauge (available at your local hobby shop) can be a useful tool for alignment setting.



To achieve a good starting point for the slipper clutch, tighten the slipper clutch adjusting nut clockwise until the slipper clutch adjusting spring fully collapses (do not over tighten), and then turn the slipper clutch nut counter-clockwise $\frac{3}{4}$ to 1 turn.



Gearing Compatibility Chart

The chart on the left shows a full range of gear combinations. The stock ratio is shown in green. The gear combinations in red are not suitable when using the included 6-cell battery, speed control, and motor. These gear combinations have been included in this chart as they may be used with certain other aftermarket equipment combinations.

| | | Spur Gear | | |
|-------------|----|-----------|-------|-------|
| | | 45 | 50 | 55 |
| Pinion Gear | 16 | - | - | - |
| | 17 | - | - | - |
| | 18 | - | - | 15.40 |
| | 19 | - | - | 14.59 |
| | 20 | - | - | 13.86 |
| | 21 | - | - | 13.20 |
| | 22 | - | 11.45 | 12.60 |
| | 23 | - | 10.96 | 12.05 |
| | 24 | - | 10.50 | 11.55 |
| | 25 | - | 10.08 | 11.09 |
| | 26 | 8.72 | 9.69 | 10.66 |
| | 27 | 8.40 | 9.33 | 10.27 |
| | 28 | 8.10 | 9.00 | 9.90 |
| | 29 | 7.82 | 8.69 | 9.56 |
| | 30 | 7.56 | 8.40 | 9.24 |
| | 31 | 7.32 | 8.13 | 8.94 |

- Stock
- Usable range
- Not recommended with stock ESC, motor, and batteries
- Does not fit

the least traction and tend to spin up to extremely high RPMs. Higher viscosity (thicker) oil causes the differential to act like a limited-slip differential, distributing more equal power to the left and right wheels. Your model will generally benefit from higher viscosity oil when climbing, rock crawling, or racing on low-traction surfaces. **Note:** Heavier oil will allow power to be transferred even with one or more tires off the ground. This can make the vehicle more likely to overturn.

From the factory, both the differentials are filled with SAE 30,000W viscosity silicone oil. Only use silicone oil in the differentials. Traxxas sells SAE 10,000W and SAE 50,000W viscosity oil (see your parts list). The differentials have to be removed from the vehicle and disassembled to change/replace oil.

MOTOR AND GEARING

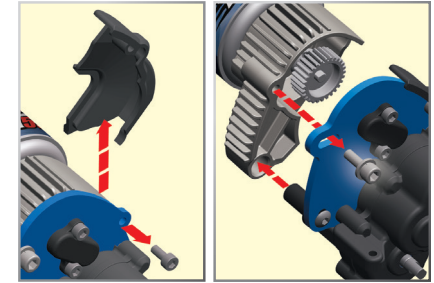
Extensive testing has been done to determine the best gear ratios for the 1/16 Slash 4WD. The stock gearing balances power, speed, and efficiency to optimize the performance of the model. However, you may wish to try different gear ratios in order to customize the performance of your model. The gearing chart on this page shows appropriate gearing for the model.

By installing a pinion with fewer teeth, or a spur gear with more teeth, the transmission's final drive ratio is increased. This means greater RPM is required to achieve a given speed. Using a numerically higher gear ratio will increase torque, but reduce top speed. Installing a pinion with more teeth, or a spur gear with fewer teeth, will decrease the final drive ratio, which will generally increase top speed but reduce torque. However, installing too large a pinion will "overgear" the model, which will reduce performance and may overheat the motor and speed control. Use the following formula to calculate the overall ratio for combinations not listed on the gear chart:

$$\frac{\text{\# Spur Gear Teeth}}{\text{\# Pinion Gear Teeth}} \times 5.04 = \text{Final Gear Ratio}$$

Motor Installation

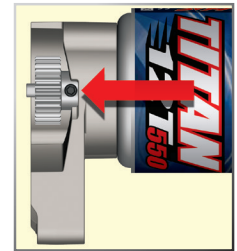
To access the motor, remove the gear cover by removing the single screw on the top of the gear cover. The motor uses an aluminum mount for quick, easy motor access and gearing adjustment.



To remove the motor, first open the right battery door and slide out the ESC. Next, remove the single large hex screw using the supplied 2.5mm wrench. Then rotate the motor and mount to the side of the model, and slide backward off the post.

Pinion Gear Installation Instructions

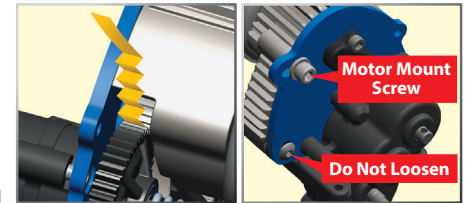
1. Remove the motor as described in *Motor Installation*.
2. Use a 1.5mm wrench to loosen the pinion's set screw. Remove the pinion.
3. Place the replacement pinion gear onto the motor shaft. Align the set screw hole with the flat side of the shaft.
4. Thread a 1.5mm set screw into the pinion gear but do not tighten it yet.
5. Slide the pinion gear down the motor shaft so the wrench shaft fits into the notch in the motor mount, as shown. Tighten the set screw.



Adjusting Gear Mesh

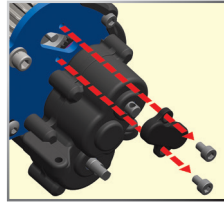
Incorrect gear mesh is the most common cause of stripped spur gears. Gear mesh should be checked and adjusted anytime a gear is replaced. Access the gears by removing the single screw on the top gear cover.

To set the gear mesh, cut a narrow strip of notebook paper and run it into the gear mesh of the motor. The motor is mounted



to an aluminum motor mount. Loosen the single motor mount screw with the provided 2.5mm wrench to slide the motor mount.

Slide the motor and pinion gear into the spur gear. Retighten the motor mount screw and then remove the strip of paper. You should be able to run a fresh strip of paper through the gears without binding them. Gear mesh can be checked visually by removing the gear viewing port cover.



Gear Viewing Port
Cover Removal

WHEELS AND TIRES

Your model uses 12mm axle hexes that allow many types of aftermarket tires and wheels to be adapted for use on your model. Most will affect the overall width and the suspension geometry of the model. The offsets and dimensions designed into the model's wheels are intentional; therefore, Traxxas cannot recommend the use of other non-Traxxas wheels with different specifications. Experimentation with different types of tires is recommended to see which ones work the best on the terrain where the model is run. Soft compound tires with many short spikes generally work better on hard, dry surfaces. In loose dirt, a tire with large spikes should perform better. Foam tires can be fitted for use on pavement or indoor carpet tracks. See your parts list for accessory wheels and tires.

When selecting tires, consider the overall diameter of the tire. If the overall diameter is significantly larger than the stock tire's diameter, you will need to use a smaller pinion gear to compensate for the larger tire. If you wish to install tires with a diameter greater than 4 inches or 100mm, Traxxas suggests you configure the transmission for "underdrive" gearing. Details on making this simple modification are available at Traxxas.com.



Always wear eye protection when using compressed air or spray cleaners and lubricants.

Your model requires timely maintenance in order to stay in top running condition. **The following procedures should be taken very seriously.**

Inspect the vehicle for obvious damage or wear. Look for:

1. Cracked, bent, or damaged parts
2. Check the wheels and steering for binding.
3. Check the operation of the shock absorbers.
4. Check the wiring for any frayed wires or loose connections.
5. Check the mounting of the receiver and servo(s) and speed control.
6. Check the tightness of the wheel nuts with a wrench.
7. Check the operation of the radio system, especially the condition of the batteries.
8. Check for any loose screws in the chassis structure or suspension.
9. Inspect the gears for wear, broken teeth, or debris lodged between the teeth.
10. Check the tightness of the slipper clutch.
11. Check the tightness of the front pivot balls.

Other periodic maintenance:

- Slipper clutch pad (friction material):

Under normal use, the friction material in the slipper clutch should wear very slowly. If the slipper clutch fails to provide consistent performance or slips even when the adjustment nut is fully tightened, disassemble the slipper clutch and replace the slipper pad. Inspect the spur gear and pressure plate for wear or damage and replace if necessary.



- Motor: Every 10-15 runs, remove, clean, and lubricate the motor. Use a product such as electric motor cleaning spray to flush dirt out of the motor. After cleaning, lubricate the bushings at each end of the motor with a drop of light-weight electric motor oil.

- Chassis: Keep the chassis clean of accumulated dirt and grime. Periodically inspect the chassis for damage.
- Shocks: Keep the oil level in the shocks full. Use only 100% pure silicone shock oil to prolong the life of the seals. If you are experiencing leakage around the top of the shock, inspect the bladder in the top cap for signs of damage or distortion from overtightening. If the bottom of the shock is leaking, then it is time for a rebuild. The Traxxas rebuild kit for two shocks is part #7062.
- Suspension: Periodically inspect the model for signs of damage, such as bent or dirty suspension pins, bent turnbuckles, loose screws, and any signs of stress or bending. Replace components as needed.
- Driveline: Inspect the driveline for signs of wear such as worn drive yokes, dirty axle half shafts, and any unusual noise or binding. Remove the gear cover, inspect the spur gear for wear, and check the tightness of set screws in the pinion gears. Tighten, clean, or replace components as needed.

Storage

When you are through running the model for the day, blow it off with compressed air or use a soft bristled paint brush to dust off the vehicle. Always disconnect and remove the battery from the model whenever the model is stored. If the model will be stored for a long time, then also remove the batteries from the transmitter.

Keep this manual and the other documents included with your model for future reference. If you misplace your manual or any of the documents, they may be downloaded at Traxxas.com.

If you have any questions about your model or its operation, call the Traxxas Technical Support Line toll-free at: **1-888-TRAXXAS (1-888-872-9927)***

Technical support is available Monday through Friday from 8:30am to 9:00pm central time.



The logo features the text "1/16 SLASH 4x4" in a bold, italicized, red and white font with black outlines. The "SLASH" is the largest word, with "1/16" positioned above it and "4x4" below it. A red arrow-like shape points to the right behind the "SLASH" text.

1/16
SLASH
4x4

OWNER'S MANUAL

MODEL 70054-8

The Traxxas logo is written in a stylized, red, italicized font with black outlines.

TRAXXAS

6250 TRAXXAS WAY, MCKINNEY, TEXAS 75070

1-888-TRAXXAS